Philippine International Convention Center

REQUEST FOR QUOTATION

Date: May 13, 2026
RFQ No. 2026-008

_____
_____
_____
_____
(Company Name & Address)

Sir/Madam:

The **Philippine International Convention Center, Inc. (PICCI),** through its Bids and Awards Committee, intends to procure **Supply of Labor and Materials for the Replacement of Defective Devices of the Fire Detection and Alarm System (FDAS) at the Main Complex ,** with an **Approved Budget for Contract (ABC) of One Million Nine Hundred Twenty-Two Thousand Pesos (₱1,922,000.00), VAT Inclusive,** which will be undertaken in accordance with Section 34 of the Implementing Rules and Regulations of Republic Act No. 12009, New Government Procurement Act (NGPA).

Please quote your **best offer** for the service/s described herein, subject to the Technical Specifications provided for this RFQ. Submit your quotation/offer duly signed by you or your duly authorized representative not later than **3:00 p.m. of May 18, 2026 .** A copy of the following shall be submitted along with your quotation/offer:

a. **2026 Mayor's/Business Permit;**
b. **BIR Registration Certificate;**
c. **Valid Tax Clearance;**
d. **PhilGEPS Registration Number or copy of valid Certificate of Platinum Membership;**
e. **Income/Business Tax Return;**
f. **Notarized Omnibus Sworn Statement with attachments (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney);**
g. **Copy of the Technical Specifications duly signed on all pages;**
h. **Certificate of Ocular Inspection;**
i. **Brochure of the items being offered; and**
j. **Summary of Bid Prices**

Open quotations may be submitted manually or through email at the address and contact numbers indicated below.

For any clarifications, you may contact **Ms. Carreen M. Mangaya** at telephone no. **(02) 8789-4761** or email address at cmmangaya@picc.gov.ph

KRISTINE ANGELICA E. AGUJO
Head, BAC Secretariat/
Procurement Unit

Philippine International Convention Center

TECHNICAL SPECIFICATIONS

I. PROJECT TITLE:

Supply of Labor and Materials for the Replacement of Defective Devices of the Fire Detection and Alarm System (FDAS) at the Main Complex

II. APPROVED BUDGET FOR CONTRACT (ABC):

One Million Nine Hundred Twenty-Two Thousand Pesos (₱1,922,000.00), VAT Inclusive.

III. GENERAL DESCRIPTIONS:

Supply of labor and materials for the replacement of defective devices of the Fire Detection and Alarm System (FDAS) at PICC main building

The supplier shall provide all necessary devices, components, cables and wires, accessories, tools, and qualified personnel to restore the FDAS system to full operational status in compliance with safety codes and standards.

IV. SCOPE OF WORKS:

1. Conduct an ocular inspection to understand the existing setup, including panel model, device types, and current configuration.

2. Analyze the existing FDAS design, cause and effect matrix, and floor plans to determine necessary changes

3. Provide all required new FDAS devices (listed below) and electrical piping, wiring, and consumables.

a. Three (3) units Central Processor Module
b. Two (2) units Single Signature Driver Controller module
c. Two (2) units Dual Signature Driver Controller module
d. Three (3) units LCD Display module
e. Three (3) units System Power Supply
f. Six (6) units Network Controller
g. Eighty (80) units Intelligent Smoke Detector
h. Two (2) units Intelligent Heat Detector
i. Ten (10) units Manual Pull Station
j. Ten (10) units Horn Strobe
k. Ten (10) units Horn Strobe Universal mounting plate
l. Thirty (30) units Standard Base Detector
m. Five (5units Single Input module
n. Five (5units Single Output Signal module

4. Install new CPU and its components and replace all defective device of FDAS at all areas of main building of PICC (Delegation, Secretariat, Plenary and Reception Hall).

5. Re-program the FDAS involves updating the software and configuration of the Fire Alarm Control Panel (FACP) to match new CPU to old and new devices, to ensures the system accurately detects, locates, and notifies of fire condition

6. Conduct comprehensive testing to ensure the entire system is operational and functions correctly with the main Fire Alarm Control Panel (FACP).

7. Dismantling, hauling, and disposal of all defective parts and debris.

8. Submit relevant project documents, including accomplishment reports, completed maintenance checklists and a certificate of testing and acceptance.

V. SPECIFICATIONS:

1. Three (3) units Edwards EST-4 **Central Processor Module** of Addressable Fire Alarm Control Panel **(FACP).**

    - 20,000 event history
    - SFP Style Network Communications Media Options (Twisted Pair, CAT5, Single and Multimode Fiber)
    - Up to 750 Minutes of Stored Voice Messages
    - USB V2.0 Type A host Port
    - USB V2,0 Type B device Port
    - Integrated Audio Synchronization
    - Optional Audio Support
    - Compatible with the existing FDAS (EST-3)

2. Two (2) units **Single Signature Driver Controller Module** for Edwards EST-4

    - Single Addressable Circuit
    - Dedicated microprocessor control
    - Full digital communication
    - Specialized communication protocol
    - Device location supervision
    - Automatic nonvolatile as-built mapping
    - Automatic day/night sensitivity
    - Supports up to 250 intelligent Signature detectors and 250 Intelligent Signature Modules
    - Up to five 3-SDDC2s or ten 3-SSDC2s per node
    - Removable field wiring terminal blocks
    - Multiple survival modes — stand alone

- Fully backward compatible with 3-SSDC, 3-SDDC, 3-SSDC1, and 3-SDDC1
- Supports the full line of Signature devices, including carbon monoxide detection
- Compatible with the existing FDAS(EST-3)

3. Two (2) units **Dual Signature Driver Controller Module** for Edwards EST-4

- Dual Addressable Circuit
- Dedicated microprocessor control
- Full digital communication
- Specialized communication protocol
- Device location supervision
- Automatic nonvolatile as-built mapping
- Automatic day/night sensitivity
- Supports up to 250 intelligent Signature detectors and 250 Intelligent Signature Modules
- Up to five 3-SDDC2s or ten 3-SSDC2s per node
- Removable field wiring terminal blocks
- Multiple survival modes — stand alone
- Fully backward compatible with 3-SSDC, 3-SDDC, 3-SSDC1, and 3-SDDC1
- Supports the full line of Signature devices, including carbon monoxide detection
- Compatible with the existing FDAS (EST-3)

4. Three (3) units **LCD Display Module** for Edwards EST4

- Large Easy to Read Display Area (Displays Eight events, 768 10-point characters)
- Full Color for Detail-rich User Experience (262,144 colors with support for custom wallpaper)
- Display System Tree View on One Screen Page (Quick drill-down to find devices)
- Context-sensitive User Interface (One sign-in determines user privileges and available devices)
- Color-coded Event Queue, History Log, Status Report
- User Configurable Image Display
- 18-bit color. 640x480 pixels, resistive touch screen
- System status indicators (ALARM, TROUBLE, CPU FAIL & POWER ON)
- Common Controls and indicators (PANEL SILENCE, FIRE DRILL, ALARM SILENCE & RESET BUTTON)

- Mounts on Existing FACP UI layer
- Compatible with Existing FDAS FACP

5. Three (3) units **System Power Supplies** for Edwards EST4
    - High efficiency switch mode
    - Increased power distribution efficiency-power supplies parallel allowing up to 28 amps in a single node
    - Universal 120 to 240 VAC Operation
    - 7 AMP filtered and regulated
    - Two 3.5 AMPS outputs
    - Temperature compensated, dual rated battery charger
    - Electronic power limiting
    - Automatic load testing of batteries
    - Input Voltage: 120-140Vac (+10%, -15%), 50-60Hz
    - Input Current: 3.0A
    - Battery Charging Capacity :65AH Sealed Lead Acid
    - Low Battery Trouble: 22.5 Vdc
    - Deep Discharge Cutoff: 19.5 Vdc
    - Compatible with Existing FDAS FACP

6. Six (6) units **Network Controllers** for Edwards EST4
    - Multiple Connection Options (Hot pluggable SFP-style network controllers allow selection of twisted pair and CAT cables)
    - Supports multiple network configurations (Network can be configured in Class B, Class A, Class X and Class N)
    - IPv6 Support (Autoconfiguring network for simple setup and easy network configuration)
    - Wire size: One twisted pair, six twist per foot minimum, 16 to 24 AWG (1.3 to 0.20 mm2)
    - Twisted Pair Circuit Length: 5,000 ft (1,524 m) between any two nodes
    - Data supported using Twisted Pair: Network, Voice Audio, Firefighters Telephone, Pre-recorded messages
    - Data supported using Cat5e: Network, Voice Audio, Firefighters Telephone
    - Circuit Length using Cat5e: 3,280 ft (1,000 m) between any two nodes
    - Data speed: 2Mbps TX/RX
    - Current: 32mA at 24Vdc
    - Compatible with Existing FDAS FACP

7. Eighty (80) units of **Intelligent Smoke Detector**

    - Multi-criteria optical smoke-sensing technology
    - Wide 0.5 to 4.36 %/ft (1.6 to 13.6 %/m) smoke obscuration
    - Automatic Device Mapping
    - Two levels of Environmental Compensation
    - Two levels of Dirty Detector Warning
    - Twenty Pre-Alarm Settings
    - Five Sensitivity Settings
    - Electronic Addressing
    - Automatic Day/ Night Sensitivity Adjustment
    - Bicolor (Green Normal /Red Alarm) Status LED
    - Operating Voltage: 15.20 to 19.95 VDC
    - Normal operating current: 32uA
    - Alarm current: 45Ua
    - Environmental compensation: Automatic
    - Construction: High Impact Engineering Polymer, White
    - Compatible with the existing FDAS

8. Two (2) units of **Intelligent Heat Detector**
    - Intelligent Fixed temperature/rate-of-rise fire detector
    - 135 ^{o}F (57.2^{o}C) Fixed temperature alarm point
    - 15 ^{o}F (8 ^{o}C/min) per minute rate-fo-rise alarm point
    - Automatic Device Mapping
    - Electronic Addressing
    - Bicolor (Green Normal /Red Alarm) Status LED
    - Operating Volatage: 15.20 to 19.95 VDC
    - Normal operating current: 51 Ua
    - Alarm current: 68 uA
    - Construction: High Impact Engineering Polymer, White
    - Compatible with the existing FDAS

9. Ten (10) units of **Intelligent Manual Pull Station**
    - Single Action-One stage
    - Break glass operation
    - Automatic Device Mapping
    - ADA Compliant
    - Electronic Addressing
    - Diagnostic Leds, Green Normal State /Red Alarm State
    - Operating Volatage: 15.20 to 19.95 VDC
    - Standby operating current: 250 Ua
    - Activated current: 400 uA

- Construction: Diecast Zinc-Red Epoxy with aluminum markings
- Compatible with the existing FDAS

10. Ten (10) units of **Horn-Strobes**
    - High Performance LED Strobe Technology (High efficiency optics)
    - Selectable 15, 30, 75, or 110 cd light output
    - Selectable High or Low Db Horn output
    - Selectable temporal or steady horn output
    - Horn Signal Type: Constant or TC3 temporal
    - Strobe flash rate: 1 fps (flash per second)
    - Operating Voltage: 16 to 33 VDC
    - Color: Red
    - Marking: FIRE
    - Compatible with the existing FDAS

11. Ten (10) units of **Horn-Strobe Universal Mounting Plate**
    - Universal Mounting Plate (Horn/strobe)

12. Thirty (30) units of **Standard Detector Base**
    - Detector Mounting Base-Standard

13. Five (5) units of **Single Input Modules**
    - Multiple Applications (Alarm, Alarm with delayed latching (retard) for waterflow applications, Supervisory, and Monitor
    - Automatic Device Mapping
    - Ground fault detection by address
    - Electronic Addressing
    - Four Personality Code
      (Personality Code 1: Normally-Open Alarm-Latching,
      Personality Code 2: Normally-Open Alarm-Delayed Latching,
      Personality Code 3: Normally-Open Active-Non-Latching,
      Personality Code 4: Normally-Open Active-Latching)
    - Diagnostic LEDs, Green Normal State /Red Alarm or active State
    - Operating Voltage: 15.20 to 19.95 VDC
    - Standby operating current: 250Ua
    - Activated current: 400uA
    - Construction: High Impact Engineering Polymer
    - Compatible with the existing FDAS

14. Five (5) units of **Single Output Modules**
    - Use for connecting supervised 24VDC Audible/Visible signal circuits, or 25 and 70 VRMS Audio Evacuation and Telephone Circuits to their power inputs
    - Automatic Device Mapping
    - Ground fault detection by address
    - Electronic Addressing
    - Personality Code
      (Personality Code 5: Signal Power or Audio Evacuation (Single Riser), Personality Code 6: Telephone w/ring-tone(Single riser), Personality Code 7: Signal Power or Audio Evacuation (Dual Riser)
    - Diagnostic LEDs, Green Normal State /Red Alarm or active State
    - Operating Voltage: 15.20 to 19.95 VDC
    - Standby operating current: 233Ua
    - Activated current: 100uA
    - Output Rating: 24VDC= 2amps, 25V Audio= 50 watts, 70V Audio =35 watts
    - Construction: High Impact Engineering Polymer
    - Compatible with the existing FDAS

15. One (1) can of **Smoke Detector Tester**
    - Smoke Detector tester (smoke in can)

16. Two (2) rolls of **Signal Cable**
    - Thermoplastic fixture Wire, AWG 16
    - Tough heat and moisture resistant, and flame retardant Poly vinyl Chloride (PVC) insulation
    - Oil & Moisture Resistant
    - Flame Retardant
    - 150m per roll (Twisted Pair)
    - Copper-stranded conductor
    - 600V voltage rating
    - 60 ^{o}C Maximum conductor temperature
    - Meets and exceed applicable UL62 and PNS 163 specifications

VI. GENERAL REQUIREMENTS:

1. Qualified and Skilled Personnel

   The supplier shall provide a qualified and skilled personnel with experience in similar operations that should perform the work. The team should include a licensed electrical or electronics engineer.

2. Work Plan Submission

   The supplier shall provide a detailed work plan and schedule must be submitted and coordinated with the authorized representative of Electrical, Electronics and Communication Service Division, Technical Service Department before work begins.

3. Safety and Housekeeping

   All work must be conducted in a safe and orderly manner, with general housekeeping and proper disposal of waste materials upon completion.

4. Quality and Specifications

   All materials must conform to technical specifications, be standard products of reputable manufacturers, and be free of defects.

5. Compatibility

   New devices must be compatible with the existing FDAS control panel and system infrastructure.

6. Approvals

   Materials and equipment installed without prior inspection and approval by EECSD-TSD authorized representative shall be subject to rejection

7. Installation

   Installation must be in accordance with approved plans, specifications, and relevant codes, such as the National Fire Protection Association (NFPA 72) and Republic Act 9514 (fire Code of the Philippines)

8. Testing and Commissioning

   The newly installed devices and the entire system must undergo comprehensive testing and commissioning to ensure full functionality.

9. Documentation

   The supplier must provide as-built drawings, operation / maintenance manuals, test reports, and a certificate of
   testing upon project completion.

10. Training

    The supplier shall provide hands-on training to EECSD-TSD personnel on the proper use and operation of the system.

11. Response Time

The supplier shall provide a response time during the warranty period of service requests or emergency calls (e.g., within 4 to 24 hrs.)

VII. CONDITIONS:

1. The Contractor and its personnel and representatives when inside PICC premises shall comply with and submit themselves to the PICC' policies, rules and regulation concerning safety and security.

2. The Contractor's personnel should wear its company uniform at all times within the PICC premises.

3. The Contractor agrees that the time of work shall be on the time and day where no event in PICC. It should be schedule on a weekend and/or in the evening or in the most convenient time in favor of PICC.

4. Any parts of the equipment involved and other properties of PICC that may be damaged due to negligence and/or poor workmanship of the Contractor shall be replaced and be charged to its account.

5. The Contractor should free the PICC and its personnel from and against all liabilities arising from injuries or liabilities to persons or damage to property occasioned by any act or omission by the Contractor.

6. All materials/equipment to be used shall be brand new.

7. The Contractor shall submit the list of its personnel that will be assigned to PICC.
8. The Contractor shall submit NBI or Police clearance of its personnel that shall be assigned in PICC. No personnel shall be allowed to work without valid clearance.

9. The Contractor shall provide all tools and materials that will be needed to perform the required installation works.

10. The Contractor shall replace or restore to its original condition any parts of the building or equipment and other properties of PICC that may be damaged due to poor workmanship.

VIII. SCHEDULE OF REQUIREMENTS:

Works shall be completed within **One Hundred twenty** (120) calendar days upon receipt of Notice to Proceed. Schedule of work shall be properly coordinated to the Assistant Director, Electrical, Electronics and Communication Division.

IX. TERMS OF PAYMENT:

PICC shall pay the Contractor/Supplier upon completion of the project within thirty (30) calendar days after presentation of the billing and submission of the required

documents to Technical Services Department's (TSD) Electrical, Electronics and Communication Services Division of PICC, which includes the following:

a. Sales Invoice
b. Delivery Receipt duly acknowledge/signed by PICC authorized representative.
c. Accomplishment Report with pictures
d. As-built plan signed and sealed by Professional Electronics Engineer
e. Valid Tax Clearance certificate

X. WARRANTY:

All works, materials and equipment supplied shall have a warranty of one (1) year. The obligation for the warranty shall be covered by either retention money or special bank guarantee in the amount equivalent to at least five percent (5%) of the total contract price. The said amounts shall only be released after the lapse of the warranty period.

XI. SPECIAL/OTHER CONDITIONS OF THE CONTRACT:

The Performance Security shall be in the form:

Within ten (10) calendar days from receipt of the Notice of Award, but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the following forms:

Forms of Performance Security	**Amount Performance Security (Equal to Percentage of the Total *Contract Price*)**
a. Cash or Cashier's/Manager's Check issued by a Universal or Commercial Bank	Five percent (5%)
b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Thirty percent (30%)

XII. GENERAL CONDITIONS OF THE CONTRACT:

1. All prices quoted herein are valid, binding and effective for One Hundred Twenty (120) calendar days from date of quotation.
2. The Awardee shall be responsible for the source(s) of his/her services/equipment in accordance with schedule, quality and specifications. Failure by the AWARDEE to comply with the same shall be ground for cancellation of the award.

3. The Awardee shall pick up RS and NTP issued in his favor within three (3) days after receipt of notice to that effect. A telephone call, fax transmission or email shall constitute an official notice to the AWARDEE. Thereafter, if the RS remain unclaimed, the said RS shall be sent by messengerial service to the AWARDEE at the latter's expense. To avoid delay in the service of the requesting agency's requirement, all DEFAULTING AWARDEES shall be precluded from proposing or submitting a substitute sample.

4. Subject to the provisions of the preceding paragraph, where AWARDEE has accepted a NTP but fails to deliver the services within the time called for in the same order, he shall be extended a maximum of fifteen (15) calendar days under liquidated damages to make good his services. Thereafter if AWARDEE has not completed delivery of services within the extended period, the subject RS & NTP shall be cancelled and the award for the undelivered balance withdrawn from that AWARDEE. The PICC-BAC shall then purchase the required services from such other source(s) as it may determine, with the difference in price to be charged against the DEFAULTING AWARDEE. Refusal by the DEFAULTING AWARDEE to shoulder the price difference shall be ground for his disqualification from future bids of the same or all items, without prejudice to the imposition of other sanctions as prescribed under RA 9184 and its IRR-A.

5. All services by the contractor shall be subject to inspection and acceptance by the PICC.

6. A penalty of one tenth (1/10) of one percent (1%) of the total value of services/works shall be deducted for each day of delay in the delivery of the services.

7. All transactions are subject to withholding of creditable Value Added Tax (VAT) per Revenue Regulation No. 10-93.

REQUEST FOR QUOTATION

Date:
RFQ No. 2026-008

TO: PHILIPPINE INTERNATIONAL CONVENTION CENTER, INC.
ROXAS BLVD., 1307 PASAY CITY

Sir/Madam:

After having carefully read and accepted the Technical Specifications, I/we submit our documentary requirements and quotation/offer as follows:

DESCRIPTION	AMOUNT
SUPPLY OF LABOR AND MATERIALS FOR THE REPLACEMENT OF DEFECTIVE DEVICES OF THE FIRE DETECTION AND ALARM SYSTEM (FDAS) AT THE MAIN COMPLEX	**₱ _____,** **VAT Inclusive**

We undertake, if our quotation is accepted, to deliver the service/s in accordance with the delivery schedule specified in the Schedule of Requirements.

We acknowledge that PICCI reserves the right to accept or reject any and all others, annul the procurement process, and refuse to make an award, without thereby incurring any liability to the affected offerors.

_____
Signature over Printed Name

_____
Position/Designation

Name of Company: _____

Address: _____

Office Telephone No./s: _____ Fax No: _____

Email Address/es: _____ Mobile No.: _____

SUPPLY OF LABOR AND MATERIALS FOR THE REPLACEMENT OF DEFECTIVE DEVICES OF THE FIRE DETECTION AND ALARM SYSTEM (FDAS)

Summary of Bid Prices

Item No.	Item	Description	QTY.		UNIT PRICE	TOTAL COST
1 .	Central Processor Module	• 20,000 event history • SFP Style Network Communicatons Meida Options (Twisted Pair, CAT5, Single and Multimode Fiber) • Up to 750 Minutes of Stored Voice Messages • USB V2.0 Type A host Port • USB V2,0 Type B device Port • Integrated Audio Synchronization • Optional Audio Support • Compatible with the existing FDAS	3	units		
2 .	Single Signature Driver Controller Module	• Dedicated microprocessor control • Full digital communication • Specialized communication protocol • Device location supervision • Automatic nonvolatile as-built mapping • Automatic day/night sensitivity • Supports up to 250 intelligent Signature detectors and 250 Intelligent Signature Modules • Up to five 3-SDDC2s or ten 3-SSDC2s per node • Removable field wiring terminal blocks • Multiple survival modes — stand alone • Fully backward compatible with 3-SSDC, 3-SDDC, 3-SSDC1, and 3-SDDC1 • Supports the full line of Signature devices, including carbon monoxide detection • Compatible with the existing FDAS	2	units		
3 .	Dual Signature Driver Controller Module	• Dedicated microprocessor control • Full digital communication • Specialized communication protocol • Device location supervision • Automatic nonvolatile as-built mapping • Automatic day/night sensitivity • Supports up to 250 intelligent Signature detectors and 250 Intelligent Signature Modules • Up to five 3-SDDC2s or ten 3-SSDC2s per node • Removable field wiring terminal blocks • Multiple survival modes — stand alone • Fully backward compatible with 3-SSDC, 3-SDDC, 3-SSDC1, and 3-SDDC1 • Supports the full line of Signature devices, including carbon monoxide detection • Compatible with the existing FDAS	2	units		

4 .	LCD Display Module	• Large Easy to Read Display Area (Displays Eight events, 768 10-point characters) • Full Color for Detail-rich User Experience (262,144 colors with support for custom wallpaper) • Display System Tree View on One Screen Page (Quick drill-down to find devices) • Context-sensitive User Interface (One sign-in determines user privileges and available devices) • Color-coded Event Queue, History Log, Status Report • User Configurable Image Display • 18 bit color. 640x480 pixels, resistive touch screen • System status indicators (ALARM, TROUBLE, CPU FAIL & POWER ON) • Common Controls and indicators (PANEL SILENCE, FIRE DRILL, ALARM SILENCE & RESET BUTTON) • Mounts on Existing FACP UI layer • Compatible with Existing FDAS FACP	3	units		
5 .	System Power Supplies	• High efficiency switch mode • Increased power distribution efficiency-power supples parallel allowing up to 28 amps in a single node • Universal 120 to 240 VAC Operation • 7 AMP filtered and regulated • Two 3.5 AMPS outputs • Temperature compensated, dual rated battery charger • Electronic power limiting • Automatic load testing of batteries • Input Voltage: 120-140Vac (+10%, -15%), 50-60Hz • Input Current: 3.0A • Battery Charging Capacity :65AH Sealed Lead Acid • Low Battery Trouble: 22.5 Vdc • Deep Discharge Cutoff: 19.5 Vdc • Compatible with Existing FDAS FACP	3	units		
6 .	Nework Controllers	• Multiple Connection Options (Hot pluggable SFP-style network controllers allow selection of twisted pair and CAT cables) • Supports multiple network configurations (Network can be configured in Class B, Class A, Class X and Class N) • IPv6 Support (Autoconfiguring network for simple setup and easy network configuration) • Wire size: One twisted pair, six twist per foot minimum, 16 to 24 AWG(1.3 to 0.20 mm2) • Twisted Pair Circuit Length: 5,000 ft (1,524 m) between any two nodes • Data supported using Twisted Pair: Network, Voice Audio, Firefighters Telephone, Pre-recorded messages • Data supported using Cat5e: Network, Voice Audio, Firefighters Telephone • Circuit Length using Cat5e: 3,280 ft (1,000 m) between any two nodes • Data speed: 2Mbps TX/RX • Current: 32mA at 24Vdc • Compatible with Existing FDAS FACP	6	units		

7 .	Intelligent Smoke Detector	• Multi-criteria oprical smoke-sensing technology • Wide 0.5 to 4.36 %/ft (1.6 to 13.6 %/m) smoke obscuration • Automatic Device Mapping • Two levels of Environmental Compensation • Two levels of Dirty Detector Warning • Twenty Pre-Alarm Settings • Five Sensitivity Settings • Electronic Addressing • Automatic Day/ Night Sensitivity Adjustment • Bicolor (Green Normal /Red Alarm) Status LED • Operating Volatage: 15.20 to 19.95 VDC • Normal operating current: 32 uA • Alarm current: 45 uA • Environmental compensation: Automatic • Construction: High Impact Engineering Polymer, White • Compatible with the existing FDAS	**80**	**units**		
8 .	Intelligent Heat Detector	• Intelligent Fixed temperature/rate-of-rise fire detector • 135 °F (57.2°C) Fixed temperature alarm point • 15 °F (8 °C/min) per minute rate-fo-rise alarm point • Automatic Device Mapping • Electronic Addressing • Bicolor (Green Normal /Red Alarm) Status LED • Operating Volatage: 15.20 to 19.95 VDC • Normal operating current: 51 uA • Alarm current: 68 uA • Construction: High Impact Engineering Polymer, White • Compatible with the existing FDAS	**2**	**units**		
9 .	Intelligent Manual Pull Station	• Single Action-One stage • Break glass operation • Automatic Device Mapping • ADA Compliant • Electronic Addressing • Diagnostic Leds, Green Normal State /Red Alarm State • Operating Volatage: 15.20 to 19.95 VDC • Standby operating current: 250 uA • Activated current: 400 uA • Construction: Diecast Zinc-Red Epoxy with aluminum markings • Compatible with the existing FDAS	**10**	**units**		
10 .	Horn-Strobes	• High Performance LED Strobe Technology (High efficiency optics) • Selectable 15, 30, 75, or 110 cd light output • Selectable High or Low Db Horn output • Selectable temporal or steady horn output • Horn Signal Type: Constant or TC3 temporal • Strobe flash rate: 1 fps (flash per second) • Operating Voltage: 16 to 33 VDC • Color: Red • Marking: FIRE • Compatible with the existing FDAS	**10**	**units**		

11 .	Horn-Strobe Universal Mounting Plate	Universal Mounting Plate (Horn/strobe)	10	units		
12 .	Standard Detector Base	Detector Mounting Base-Standard	30	units		
13 .	Single Input Modules	• Multiple Applications (Alarm, Alarm with delayed latching (retard) for waterflow applications, Supervisory, and Monitor • Automatic Device Mapping • Ground fault detection by address • Electronic Addressing • Four Personality Code (Personality Code 1: Normally-OpenAlarm-Latching, Personality Code 2: Normally-OpenAlarm-Delayed Latching, Personality Code 3: Normally-Open Active-Non-Latching, Personality Code 4: Normally-Open Active-Latching) • Diagnostic Leds, Green Normal State /Red Alarm or active State • Operating Volatage: 15.20 to 19.95 VDC • Standby operating current: 250 uA • Activated current: 400 uA • Construction: High Impact Engineering Polymer • Compatible with the existing FDAS	5	units		
14 .	Single output I Modules	• Use for connecting supervised 24VDC Audible/Visible signal circuits, or 25 and 70 VRMS Audio Evacuation and Telephone Circuits to their power inputs • Automatic Device Mapping • Ground fault detection by address • Electronic Addressing • Personality Code (Personality Code 5: Signal Power or Audio Evacuation (Single Riser), Personality Code 6: Telephone w/ring-tone(Single riser), Personality Code 7: Signal Power or Audio Evacuation (Dual Riser) • Diagnostic Leds, Green Normal State /Red Alarm or active State • Operating Voltage: 15.20 to 19.95 VDC • Standby operating current: 233 uA • Activated current: 100 uA • Output Rating: 24VDC= 2amps, 25V Audio= 50 watts, 70V Audio =35 watts • Construction: High Impact Engineering Polymer • Compatible with the existing FDAS	5	units		
15 .	Smoke Detector Tester	Smoke Detector tester (smoke in can)	1	units		

16 .	Signal Cable	• Thermoplastic fixture Wire, AWG 16 • Tough heat and moisture resistant, and flame retardant Plolyvinyl Chloride (PVC) insulation • Oil & Moisture Resistant • Flame Retardant • **150m per roll (Twisted Pair)** • Copper-stranded conductor • 600V voltage rating • 60 °C Maximum conductor temperature • Meets and exceed applicable UL62 and PNS 163 specifications	2	rolls		
17 .	EMT Pipe	•1/2" EMT Pipe • 10ft. per lengths • Accurate circular cross section with uniform wall thickness • Interior surface free from defects injurious to conductors • Galvanized OD and clear coating for corrosion protection	25	pcs		
18 .	EMT Connector	1/2"	100	pcs		
19 .	EMT Coupling	1/2"	50	pcs		
20 .	Junction Box 1/2"	• octagonal metal box • pre galvanized steel • 4" by 4" x 2-1/8" • Ga. 16 • with grounding provision • UL listed	50	pcs		
21 .	Terminating Resistors	47KOHMS 1/2 WATTS	50	unit		
22 .	Labor and Installation cost	EST3 to EST 4 upgrading	1	lot		
					VAT (12%)	
					GRAND TOTAL	

Name: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____