DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

[X] New contract	[ ] OTR	[ ] CO	[ ] SS	[ ] BW	[ ] Emergency	Previous Contract/Project No. N/A	
[ ] Re-Bid	[ ] Other						

LIVING WAGE APPLIES: __YES _X__NO

Requisition/Project No: FB-02277 **Term Of Contract: 3 years with 0 Option(s)-To-Renew**

Requisition/Project Title: MDFR Audio Visual Upgrade

Description: The purpose of this solicitation is to establish a contract to replace the existing audio visual (AV) equipment for various Miami-Dade County Fire Rescue facilities.

User Department(s): Fire

Issuing Department: Internal Services **Contact Person: Chris Grant-Henriques** **Phone: 305-375-3085**

Estimated Cost: $400,000.00 **Funding Source: Federal/Fire District** **Revenue Generating: No**

ANALYSIS

Commodity/Service No: 88011, 91802, 93906			
Trade/Commodity/Service Opportunities			
Contract/Project History of Previous Contracts. **Check Here___if this is a New Contract/Purchase with no Previous History**			
PREVIOUS CONTRACTS			
Contractor:			
Small Business Enterprise:			
Contract Value:			
Comments:			
Continued on another page (s): __Yes _X_ No			

RECOMMENDATION: Set Aside

Basis of Recommendation:
Eight SBEs identified who could possibly complete this project.

Signed: *Chris Grant-Henriques* **Date to SBD:** **March 7, 2022**

SECTION 2

SPECIAL TERMS AND CONDITIONS

2.1 PURPOSE

The purpose of this solicitation is to establish a contract to replace the existing audio visual (AV) equipment for various Miami-Dade County Fire Rescue facilities.

2.2 TERM OF CONTRACT

This contract shall commence on the first calendar day of the month succeeding approval of the contract by the Board of County Commissioners, or designee, unless otherwise stipulated in the Purchase Order (PO) issued by the Internal Services Department, Strategic Procurement Division, and shall remain in effect for a three (3) year period.

2.3 METHOD OF AWARD

Award of this contract shall be made to the lowest priced responsive, responsible who meets the qualification criteria listed below.

QUALIFICATION CRITERIA

Bidder(s) shall comply with each requirement below. Failure to meet any sub-section may result in the bidder being deemed non-responsive.

2.3.1 Bidder or Bidder's Subcontractor(s) shall be regularly engaged in the business of providing these audio-visual services to be considered for award. Bidder or Bidder's Subcontractor(s) shall provide two (2) different references demonstrating that they have installed similar audio-visual equipment as described throughout this solicitation within the last 5 years. In lieu of the references from the Bidder or Bidder's Subcontractor, the County will consider the references from the Bidder's key personnel in accordance with Resolution No. 1122-21.

The reference should include the customer's company name, the contact's name, title, address, telephone number, and e-mail address of the contact person who can verify that the Bidder/key personnel/Subcontractor has successfully provided the services. These references shall ascertain to the County's satisfaction that the Bidder/key personnel/Subcontractor has sufficient expertise in the industry and its firm is properly equipped to perform the required services.

2.3.2 Bidder(s) shall provide the contact information for the main point of contact that will be assigned to this project.

2.3.3 Bidder(s) shall provide the contact information for a service representative who shall be available 24 hours a day for County personnel to contact for support and service for the duration of the contract.

2.4 FORCE MAJEURE

The Awarded Bidder shall not be held liable or responsible to the County nor be deemed to have defaulted under or breached this contract for failure or delay in fulfilling or performing any obligation, including warranty provisions, when such failure or delay is caused by or results from causes beyond the reasonable control of the affected party, including but not limited to acts of nature, riots, civil commotions, strikes, public health emergencies, acts of war (declared or not), omissions or delays in acting by any governmental authority. The Awarded Bidder shall provide the County with prompt written notice of any delay or failure to perform that occurs by reason of force majeure. The Awarded Bidder and County shall mutually seek a resolution of the

delay or the failure to perform.

2.5 INSURANCE

The following clause replaces the insurance requirements listed in Section 1, General Terms and Condition, Paragraph 1.22A:

The Bidder shall furnish to Miami-Dade County, Internal Services Department at 111 N.W 1st Street, Miami, FL 33128, Certificate(s) of Insurance which indicate that insurance coverage has been obtained which meets the additional requirements as outlined below:

A. **Worker's Compensation Insurance** for all employees of the Contractor as required by Florida Statute 440.

B. **Commercial General Liability Insurance** in an amount not less than $1,000,000 per occurrence, and $2,000,000 in the aggregate, not to exclude coverage for Products and Completed Operations. **Miami-Dade County must be shown as an additional insured with respect to this coverage.**

C. **Automobile Liability Insurance** covering all owned, non-owned and hired vehicles used in connection with the work, in an amount not less than $1,000,000 combined single limit per occurrence for bodily injury and property damage.

All insurance policies required above shall be issued by companies authorized to do business under the laws of the State of Florida, with the following qualifications:

The company must be rated no less than "A-" as to management, and no less than "Class VII" as to financial strength, by Best's Insurance Guide, published by A.M. Best Company, Oldwick, New Jersey, or its equivalent, subject to the approval of the County Risk Management Division.

or

The company must hold a valid Florida Certificate of Authority as shown in the latest "List of All Insurance Companies Authorized or Approved to Do Business in Florida" issued by the State of Florida Department of Financial Services.

NOTE: CERTIFICATE HOLDER MUST READ: **MIAMI-DADE COUNTY**
111 NW 1st STREET
SUITE 2340
MIAMI, FL 33128

SECTION 3

SCOPE OF WORK/TECHNICAL SPECIFICATIONS

3.1 SCOPE OF WORK

Miami-Dade County (County) is seeking professional services to upgrade the audio-visual (AV) equipment in various department facilities.

Miami Dade Fire Rescue (MDFR) desires upgrades to the AV systems inside the training facility, integrating new AV components into the Training Rooms on Level 1 and the Auditorium on Level 2.

Office of Emergency Management (OEM) seeks to replace the current video wall and installing a new video wall solution which provides for a high-resolution, edgeless, or minimal beveled monitor, and is configurable to display a single image or multiple images with various configuration options.

3.2 SPECIFICATIONS

A. MDFR Training Division Classrooms

Training Rooms

Awarded Bidder shall remove the existing Crestron equipment and return it to MDFR. A new AV distribution system will be installed to provide simple connectivity for users. A push-button keypad will be installed into a single-gang back box into the wall near the existing lectern or near the entry way of the training room. This unit will allow users to power the AV system on/off; switch between sources; raise and lower the screen; and increase/decrease volume within the space with a push of a button.

The pushbutton will tie back to a presentation switcher. This unit will act as the main router, distributing AV signals from sources devices to end points. The source devices will be as follows:

- Dedicated tower personal computer (PC) (provided by MDFR)
- High definition (HD) digital tuner for over-the-air cable television (TV) (Provided by the proposer) Include rooftop antenna, cabling, and distribution/amplification of signal
- Dual gang wall plate for laptop connectivity (Provided by the proposer)
- All three four sources will pass through the switcher. The signals will be sent through to two endpoints.
- Epson Projector (provided by MDFR)
- Samsung Display (provided by MDFR)
- Add wireless input capability from Apple/Android smartphones/tablets

All audio will play through the existing ceiling recessed speakers powered by a new amplifier. An occupancy sensor will be installed into the space and will automatically turn off the AV system if no movement is sensed in the room for a certain period of time (to be determined [TBD]). An 8-port network switch will be provided. This will allow Training Room support staff to remote access into the components on the system if this switch is put on the network and troubleshoot remotely.

Auditorium

The Auditorium can be divided into two spaces. A partition wall can be removed so Rooms 1 and 2 are then combined. The goal is to have the spaces be able to present content individually and when desired have Room 2 act as an “overflow” room by combining it with Room 1 so that a larger space can be used for a presentation. The spaces can be combined when the partition is physically opened, and the pushbutton controls are used.

Auditorium 1 – Master Room
Awarded Bidder shall remove the existing Crestron equipment and return it to MDFR. A new AV distribution system will provide simple connectivity for MDFR users.

A push-button keypad will be installed into a dual-gang back box into the wall near the existing lectern or near the entry way of Room 1. This unit will allow users to power the AV system on/off; switch between sources; raise and lower the screen; and increase/decrease volume within the space with a push of a button.

The pushbutton will tie back to a presentation switcher. This unit will act as the main router, distributing AV signals from sources devices to end points. The source devices will be as follows:

- Dedicated tower PC (provided by MDFR)
- HD digital tuner for over-the-air cable TV (Provided by the proposer)
- Dual gang wall plate for laptop connectivity (Provided by the proposer)
- Add wireless input capability from Apple/Android smartphones/tablets

All three four sources will pass through the switcher. The signals will be sent through to two endpoints.

- Epson Projector (provided by MDFR)
- Samsung Display (provided by MDFR)

A new digital signal processor for audio will be integrated. Four new wireless microphones will connect into the audio processor: two handhelds and two belt packs with lapels, along with all source audio inputs. The audio will be routed to the existing ceiling speakers that will be powered by a new amplifier.

The digital wireless microphone system shall operate in the UHF band between 470-932 MHz with the specific range being dependent on the user's locale and not interfere with existing UHF radio systems. The system shall include the option of changing the operating frequency in order to avoid RF interference. Preconfigured group, channel and frequency setups shall be available to ensure that multiple systems in use do not interfere with one another.

The system shall display remaining run time in hours and minutes (accurate to within 15 minutes), percentage health, percentage charge, charge cycles, and temperature. The bodypack will have an LED indicating that power is on. Available transmitters shall include: a body pack for use with lapel or headset microphones, and/or a handheld microphone.

The transmitter front end shall optimize itself for standard inputs without requiring transmitter gain adjustments thus allowing all gain changes to be made at the receiver, which provides a 60dB range of system gain. Overall system signal to noise ratio shall be >120dB.

The system shall be capable of AES-256 encryption that is conforming to the US Government National Institute of Standards and Technology (NIST) publication FIPS-197.

The system shall use advanced digital predictive diversity to optimize RF stability.

The receiver shall include an RF level meter, an audio level meter, and a Networking Interface connector for computer control and monitoring. The system shall detect RF interference and indicate such to the user via the LCD and RF meters.

An occupancy sensor will be installed into the space and will automatically turn of the AV system if no movement is sensed in the room for a certain period of time. An 8-port network switch (8 -1Gbps Ethernet ports and (2) SFP ports) Did you check with IT if this is allowed? will be provided. This will allow Training Room support staff to remote access into the components on the system if this switch is put on the network and troubleshoot remotely.

Auditorium 2 – Secondary (Slave) Room
The proposer will remove the existing Crestron equipment and return it to MDFR. A new AV distribution system will provide simple connectivity for MDFR users.

A push-button keypad will be installed into a dual-gang back box into the wall near the existing lectern or near the entry way of Room 1. This unit will allow users to power the AV system on/off; switch between sources; raise and lower the screen; and increase/decrease volume within the space with a push of a button.

The pushbutton will tie back to a presentation switcher. This unit will act as the main router, distributing AV signals from sources devices to end points. The source devices will be as follows:

- Dedicated tower PC (provided by MDFR)
- HD digital tuner for over-the-air cable TV (Provided by Awarded Bidder)
- Dual gang wall plate for laptop connectivity (Provided by Awarded Bidder)
- Add wireless input capability from Apple/Android smartphones/tablets

All three four sources will pass through the switcher. The signals will be sent through to two endpoints.

- Epson Projector (provided by MDFR)
- Samsung Display (provided by MDFR)

A new digital signal processor for audio will be integrated. All source audio along with four new wireless microphones will connect into the audio processor: two handhelds and two belt packs with lapels microphones. The audio will be routed to the existing ceiling speakers that will be powered by a new amplifier.

An occupancy sensor will be installed into the space and will automatically turn of the AV system if no movement is sensed in the room for a certain period of time (TBD). An 8-port network switch (8 -1Gbps Ethernet ports and (2) SFP ports) Did you check with IT if this is allowed? will be provided. This will allow Training Room support staff to remote access into the components on the system if this switch is put on the network and troubleshoot remotely.

The proposer will interconnect all training rooms and auditorium so that the Training Room support staff can remotely access into the AV equipment from a central PC located on-site within the Training Center facility. The central PC will be prepared to allow for simple user interface to the equipment contained within each space.
The digital wireless microphone system shall operate in the UHF band between 470-932 MHz with the specific range being dependent on the user's locale and not interfere with existing UHF radio systems. The system shall include the option of changing the operating frequency in order to avoid RF interference. Preconfigured group, channel and frequency setups shall be available to ensure that multiple systems in use do not interfere with one another.

The system shall display remaining run time in hours and minutes (accurate to within 15 minutes), percentage health, percentage charge, charge cycles, and temperature. The bodypack will have an LED

indicating that power is on. Available transmitters shall include: a body pack for use with lapel or headset microphones, and/or a handheld microphone.

The transmitter front end shall optimize itself for standard inputs without requiring transmitter gain adjustments thus allowing all gain changes to be made at the receiver, which provides a 60dB range of system gain. Overall system signal to noise ratio shall be >120dB.

The system shall be capable of AES-256 encryption that is conforming to the US Government National Institute of Standards and Technology (NIST) publication FIPS-197.

The system shall use advanced digital predictive diversity to optimize RF stability.

The receiver shall include an RF level meter, an audio level meter, and a Networking Interface connector for computer control and monitoring. The system shall detect RF interference and indicate such to the user via the LCD and RF meters.

B. MDFR Training Division Canopy

Speakers:

Six (6) outdoor rated speakers of the following specifications:

1. Powered and of Bi-Amp 2-Way design
2. LF driver shall be 15" diameter
3. HF driver shall be 3" horn-loaded design
4. Total power 1500W continuous, 2000W peak
5. Frequency Range 36Hz-21kHz (-10dB)
6. Maximum Peak SPL 137dB
7. M10 fly points for mounting
8. Speakers shall be mounted near ceiling of canopy The working load limit (WLL) of the M10 attachment points will be maintained with a safety factor of 5:1, provided no more than 470lbs/213kg from 2 points equally loaded, or no more than 235lbs/106kg maximum from a single suspension point, utilized in conjunction with industry recognized safe rigging practices and guidelines.

Microphones:

Two (2) wireless microphones and receiver of the following specifications:

1. 24 bit audio
2. Automatic frequency scanning
3. 64MHz tuning bandwidth
4. Digital predictive switching diversity
5. AES 256 bit encryption
6. Audio and RF meters with peak indicator
7. External antennas so that the receiver will function even when the rack doors are closed
8. Automatic feedback elimination must be provided. This can be included in the microphone reciever or a seperate external device that is compatible with the receiver
9. Microphones must include wind screen of foam or 'fuzzy' design or both whatever is required to eliminate wind noise
10. Internal or external automatic gain control and compression to eliminate the disparity between loud and quiet spoken voices

Media Players:

One (1) each rackmounted:

1. FM radio Digital HD FM radio tuner with antenna
2. USB audio player
3. CD/BluRay player
4. SPDIF Digital RCA 75ohm / Toslink fiber input
5. HDMI and SDI audio
6. BluTooth streaming receiver (audio can be streamed from smart phone to device). Device must be able to receive the wireless stream with the rack door closed.

Mixer:

One (1) rack mounted mixer capable of:

1. Injesting microphones, media player devices with additional front panel inputs for (2) XLR balanced mic level, (2) XLR balanced +4dBu line level, (2) ¼ Plug unbalanced, and (2) RCA L+R -10dBv,
2. Adjusting bass treble pan Left and Right
3. Adjusting source levels and output levels

Power Conditioning:

All equipment will be protected by one or more (as needed) rack mounted surge power protection device that displays both voltage and amperage. This protection device will have (2) retractable rack illumination lights that can be adjusted in intensity

Misc:

1. All equipment will be rack mounted in a weather resistant enclosure mounted under the canopy. Rack enclosure shall have a smoked tempered glass front door.
2. Rack enclosure will contain a heating element to reduce the accumultion of condensation that will turn off automatically when the audio equipment is turned on
3. All audio cables and connectors shall be Belden or Neutrik or Amphenol brand – no substitutions
4. All equipment including the rack itself will be grounded with #6 AWG green jacketed stranded cable
5. Rack will have a (3) RU slide out drawer
6. Rack will have an additional (3) RU of free space covered with a cover plate for future expansion
7. Rack shall have an input for SDI and HDMI audio/video. Audio shall be sent to the audio mixer and video shall be wired to the middle of the ceiling for a projector

C. Office of Emergency Management

Awarded Bidder shall replace the current video wall which covers a 21 foot by 6-foot area (21' X 6') by removing the existing video wall system/monitors and installing a new video wall solution which provides for a high-resolution, edgeless, or minimal beveled monitor, and is configurable to display a single image or multiple images with various configuration options.

The video wall must be compatible and integrated with the current Extron Switcher, XTP II CrossPoint 6400 Frame 20U, and Controller, Extron TLP Pro 1025T-Black 10" touch panel. Awarded Bidder shall program the video wall to interact with these devices, enabling various view options.

EOC Video Wall:

The video wall shall be a custom configuration of a wall size area of 21' X 6' behind the Podium of the EOC Operations Room. Monitors should be professional grade and contain ultra-narrow bezel (.8mm or less) with LED or LCD video wall solutions.

To support the enhanced audio/video upgrades, a service and support agreement will need to be included in the overall costs of the project as well as a quote for future support and service. As the EOC is a 24-hour facility which needs to be maintained operational at all times, 24 hour support services will need to be available as part of the enhancement project and agreement.

The following are additional requirements for video wall installation and integration:

1. Complete acquisition, installation, configuration, and integration into existing/new components, training, extended warranties, clean-up and re-patching/painting of walls and ceiling, if needed.
2. Ensure ability to function with existing Extron Switcher and controller system which includes programming into new system.
3. Removal of equipment to be replaced.
4. The vendor must develop and provide a digital copy of the manual on how to use the system.
5. The vendor must submit proof of insurance.
6. Ability to watch any source on any monitor.
7. Ability for video wall to be configurable so as to display several different images or one large image tiled across all monitors.
8. Extended warranty (3 years minimum) on all equipment and service.
9. Training on use of equipment as well as instruction manual.
10. All associated costs must be included with the quote.

3.3 INSPECTION AND ACCEPTANCE

Final inspection and acceptance shall be made by the County at each respective location. Acceptance will occur after the goods or results of the services have been inspected and when determined by County staff to have met the bid specifications. Installation does not constitute acceptance.

3.4 **MANUALS**

Awarded Bidder shall furnish maintenance and operations manuals for the installed equipment.

SECTION 4
BID SUBMITTAL

	TO BE COMPLETED BY ALL BIDDERS	
	Refer to Paragraph 2.3 to ensure that Bidder's responses and attachments comply with the Solicitation's requirements.	
Paragraph Reference	**Bidder Requirements**	
2.3.1	Bidder or Bidder's Subcontractor(s) shall be regularly engaged in the business of providing these audio visual services to be considered for award. Bidder or Bidder's Subcontractor(s) shall provide two (2) different references demonstrating that they have installed similar audio-visual equipment as described throughout this solicitation within the last 5 years. In lieu of the references from the Bidder or Bidder's Subcontractor, the County will consider the references from the Bidder's key personnel in accordance with Resolution No. 1122-21. The reference should include the customer's company name, the contact's name, title, address, telephone number, and e-mail address of the contact person who can verify that the Bidder/key personnel/Subcontractor has successfully provided the services. These references shall ascertain to the County's satisfaction that the Bidder/key personnel/Subcontractor has sufficient expertise in the industry and its firm is properly equipped to perform the required services. **Reference Company Name No. 1:** _____ Is reference for the Bidder, Subcontractor, **or** key personnel: _____ If **Subcontractor**, then identify the name of the Subcontractor: _____ If **key personnel**, then identify the name of the key personnel: _____ Contact's name: _____ Title: _____ Address: _____ Phone Number: _____ Email: _____ **Reference Company Name No. 2:** _____ Is reference for the Bidder, Subcontractor, **or** key personnel: _____ If **Subcontractor**, then identify the name of the Subcontractor**:** _____ If **key personnel**, then identify the name of the key personnel**:** _____ Contact's name: _____ Title: _____ Address: _____ Phone Number: _____ Email: _____	

2.3.2	Bidder(s) shall provide the contact information for the main point of contact that will be assigned to this project. Contact's name: _____ Title: _____ Address: _____ Phone Number: _____ Email: _____	
2.3.3	Bidder(s) shall provide the contact information for a service representative who shall be available 24 hours a day for County personnel to contact for support and service for the duration of the contract. Contact's name: _____ Title: _____ Address: _____ Phone Number: _____ Email: _____	