



**MISSISSIPPI STATE**  
UNIVERSITY™

## **INVITATION FOR BIDS**

### **OFFICE OF PROCUREMENT & CONTRACTS**

#### **1. INSTRUCTIONS FOR BIDDERS**

- a. Sealed bids will be received in the Office of Procurement & Contracts, Mississippi State University, for the purchase of the items listed herein.
- b. All bids must be received in the Office of Procurement & Contracts on or before the bid opening time and date listed herein. Delivery of bids must be during normal working hours, 8:00 a.m. to 5:00 p.m. CST, except on weekends and holidays when no delivery is possible.
- c. Bidders shall submit their bids either electronically or in a sealed envelope.
  - i. Sealed bids should include the bid number on the face of the envelope as well as the bidders' name and address. Bids should be mailed to: 245 Barr Avenue, 610 McArthur Hall, Mississippi State, MS 39762.
  - ii. At this time we only accept non-ITS bids electronically. For electronic submission of bids, go to: [https://www.ms.gov/dfa/contract\\_bid\\_search](https://www.ms.gov/dfa/contract_bid_search) and use the RFX number on the next page as your reference number.
- d. All questions regarding this bid should be directed to the Office of Procurement & Contracts at 662-325-2550.

#### **2. TERMS AND CONDITIONS**

- a. All bids should be bid "FOB Destination"
- b. Bidders must comply with all rules, regulations, and statutes relating to purchasing in the State of Mississippi, in addition to the requirements on this form. General Bid Terms and Conditions can be found here:  
[https://www.procurement.msstate.edu/procurement/bids/Bid\\_General\\_Terms\\_May\\_2019\\_V2.pdf](https://www.procurement.msstate.edu/procurement/bids/Bid_General_Terms_May_2019_V2.pdf)
- c. Any contract resulting from this Invitation for Bid shall be in substantial compliance with Mississippi State University's Standard Contract Addendum:  
<https://www.procurement.msstate.edu/contracts/standardaddendum.pdf>

**Bid Number/RFX Number: 19-92/RFX#3160003290**

**Opening Date: November 26, 2019 @2:00 p.m.**

**Description: Microphone Array**

Vendor Name: \_\_\_\_\_

Vendor Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Days the Offer is Firm: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Item	Quantity	Description	Unit Price	Total Price
1	24	Microphone Array		
2	1	Hardware		
3	1	Software		
4	1	Training		
		<b>TOTAL</b>		

Acoustic sensor array capable of capturing acoustic signatures of aircraft in flight, as well as converting to use in a medium sized anechoic chamber. Please provide a full quote of the sensor array and additional required hardware and software equipment. A detailed statement of work is required with bid.

Anechoic chamber dimensions and details (for reference only-do not bid):

- Internal structure volume: 10 x 18 x 10 (ft)
- Foam panels: 1 x 1 ft panel with 8 in wedge design

#### Microphone Technical Requirements:

- Microphone quantity: 24
- Microphone Diameter: ½ in
- Frequency range: 20 Hz – 20000 Hz
- Dynamic range: 17 dB – 130 dB
- Capable of operating in temperatures ranging from -4 to 150 deg F
- Inherent noise: 16 dB
- Lower limiting frequency: 1 Hz
- Temperature coefficient: .004 dB/°C
- Sensitivity: 50 mV/Pa
- Pressure Coefficient: -0.01 dB/kPa

#### Hardware and software requirements:

- Analyzer and software capable of time-history noise level logging in the 1/3<sup>rd</sup> octave band
- Frequency spectrum analysis
- Time-history noise decibel level logging
- Windscreen for operating array in windy conditions
- Cabling and hardware capable of operating array from a minimum 50 ft distance
- Shock-proof cases for field use, travel, and safe storage of microphones and all related hardware
- Permanent license to analyzing software

Additionally, Vendor will provide training for RFRL personnel on equipment use, setup, and post processing as part of quote.