

Sources Sought Spectrum Monitors

DESCRIPTION: The Army Contracting Command (ACC), Aberdeen Proving Ground (APG), on behalf of The United States Army, Intelligence Center of Excellence (USAICOE), is seeking information on capable business sources that can provide a spectrum monitoring equipment in support of testing and training.

SCOPE: This is a new requirement and is a procurement/buy for a spectrum monitoring equipment in support of testing and training on the Fort Huachuca First Lieutenant (1LT) John R. Fox Multi-Domain Operations (MDO) Non-Kinetic Range. This buy includes user/operator training, a solar power solution, and a manufacturer warrantee.

A variety spectrum monitoring arrays are required to create the signals of interest seen in a modern, diverse, congested, and complex radio frequency environment, provide electronic attack effects against blue systems, and monitor spectrum usage across the range. This compliment of capabilities, as well as the overall quantities, are required to support the Army's testing and training modernization efforts at Fort Huachuca.

The spectrum monitoring components will allow the Fort Huachuca MDO Range cadre to visualize the spectrum of the whole training area and feed this picture into Electronic Warfare Planning and Management Tool (EWPMT). It is visualized that one component shall serve as the "control" box of the array while receiving the collected data from ruggedized sensors. Seeing the Electro-Magnetic Spectrum (EMS) and the location of the emitters is essential to controlling the spectrum, maintaining awareness on what is emitting, and scoring trainee activities, passive and active. Spectrum monitoring system must also collect and feed recorded signals back out to array while also serving as the program of record. It should have the authority to operate independently, but could be placed on a network to bring up the data collected and stored on the "Control box" from the MDO Range operations and synch center.

The Salient Features for the spectrum monitors are as follows - **Spectrum Monitoring Capabilities:** (DoD Fort Huachuca **must have**):

- Must be able to sweep through the RF spectrum from 20 MegaHertz (MHz) – 18 GigaHertz (GHz).
- Must be able to integrate with EWPMT.
- Must be able to record with no less than 50 MHz of instantaneous bandwidth.
- Must be capable of networking with a series of like-sensors to backhaul and ingest collected energy from the greater training and testing area over Transmission Control Protocol/Internet Protocol (TCP/IP) or User Datagram Protocol (UDP).
- Must be capable of performing collaborative geolocation of emitters with a series of like-sensors.
- Must be able to ingest common file types, such as Standard Frequency Action Format (SFAF) and Joint Restricted Frequency List (JRFL), to identify interference with protected areas in the spectrum.

- Must have ruggedized outdoor sensors capable of withstanding rain, dust, and temperatures from -10 degrees F to 125 degrees F.
 - Must be able to work off of battery, solar power, or 120 Volts/Alternating Current (VAC) for a duration of no less than 8 hours.
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This is a market survey for information only. **THIS IS NOT A REQUEST FOR QUOTES AND NO CONTRACT WILL BE AWARDED FROM THIS SOURCES SOUGHT SYNOPSIS.** The purpose of this synopsis is to gain knowledge of interest, capabilities, and qualification of vendors who can support this requirement. The anticipated contract will be issued on a firm fixed price, lowest price technically acceptable, all or none basis. The NAICS Code is 334511 and the size standard is 1350.

INSTRUCTIONS FOR SUBMISSION: If you believe your firm qualifies under the fore-mentioned criteria and has qualified personnel, relevant past performance experience, and the technical capability to provide the equipment that meets or exceeds the Salient Features stated within the Scope of this document, please submit a response.

No reimbursement will be made for any costs associated with providing information in response to this RFI or any follow-up information requests. Submit responses via e-mail to the Point of Contact, Neil Mendiola (neil.s.mendiola.civ@army.mil) by 10:00 a.m. ET, 30 August 2023.