

17-147

Communications Interoperability Project Specifications 2.14.17

The Summit County Emergency Management Agency is requesting bids for Tuscarawas County's Communications Interoperability Project would reestablish radio communications interoperability between the Tuscarawas County Sheriff's Office, Tuscarawas County Homeland Security and EMA and the Ohio Multi-Agency Radio Communications System (MARCS) by purchasing new portable radios that are MARCS' compatible.

GENERAL REQUIREMENTS

All specifications contained herein are considered minimum requirements for the delivery of "new" communications equipment.

BID RESPONSE

You must upload a set of detailed contractor's specifications and an itemized quote in the General Attachments.

Any exceptions to the minimum specifications shall be described in detail and also attached in the General Attachments titled "EXCEPTIONS & CLARIFICATIONS". If no exceptions /clarifications are noted, the bid response will be deemed to be in full compliance.

The following specifications and characteristics must be met with no deviations. These are the minimal acceptable properties of the system.

Certified Estimate \$86,163.00

Tuscarawas County's Communications Interoperability Project

1. (22) 700/800 Mhz portable radios - APX 6000 or equivalent*
 - a. Digital P25 compliant activation Phase I and II Compliant w/antenna
 - b. Vendor programming included
 - c. P25 integrated voice and data
 - d. Operation in both 3600 Baud Non Project 25 and 9600 Baud Project 25
 - e. Channel capacity – minimum 1000 talkgroups
 - f. Channel spacing 12.5kHz – Digital Trunking
 - g. Multiline front display – color
 - h. Top display – features talkgroup and signal strength
 - i. Limited front keypad capable – for selection functions, zones and options - backlit
 - j. Full front keypad capable – for selection of functions, zones, options and alpha/numeric features
 - k. One button programming for immediately moving to the Home Talkgroup
 - l. Encryption – ADP, AES, DES and OFB
 - m. OTAR – over the air rekeying
 - n. OTAP – over the air programming
 - o. Mil spec standards 810C,D,E,F and G
 - p. IP67 environmental standard
 - q. AMBE digital vocoder
 - r. RX Audio distortion maximum 3%
 - s. RX audio output 500 mW
 - t. TX audio distortion maximum 2%
 - u. 3 watts RF transmitter power output to antenna

- v. Modulation limiting +/- 2.5kHz
- w. TX noise cancellation
- x. Transmit LED indicator
- y. GPS tracking for location identification
- z. Bluetooth compatible
 - aa. Man Down
 - bb. User programmable voice annunciation during option or function change
 - cc. Emergency button activation
 - dd. Battery charger that is controlled to prevent over charging and damage due to extended charging cycle duration
 - ee. Battery duty cycle to equal 100% operation over 10 hours based on a 5% receive, 5% transmit and 90% standby in the on mode
 - ff. Text messaging capability
 - gg. Call list ID
 - hh. Ability to select button and test signal strength with numeric level
 - ii. Rugged for infield use
 - jj. Must be compatible with Ohio MARCS system
- 2. (22) single unit radio chargers compatible with P25 single band portable radios
 - a. Includes automatic battery preconditioner
- 3. (22) remote speaker mic compatible with P25 single band portable radios
 - a. Includes volume toggle and emergency button

*Use of a specific brand is for reference only.