



REQUEST FOR PROPOSAL

BID NAME: DISTRICTWIDE RADIO COMMUNICATION SYSTEM

BID NUMBER: 2025-022

BID DUE DATE: MAY 28, 2025 10:00 AM Sharp

BID SECURITY REQUIREMENTS: NONE

THE FOLLOWING DOCUMENTS/ITEMS **MUST** BE PROVIDED AS PART OF YOUR BID RESPONSE. FAILURE TO PROVIDE ANY OF THESE DOCUMENTS **MAY DISQUALIFY YOUR BID.**

- A. **THIS FORM (Page 1)**
- B. **BID SHEET (Page 4)**
- C. **COMPLETED NON-COLLUSION AFFIDAVIT (Pages 6 & 7)**

CERTIFICATION OF SIGNATURE

I have checked the CBSD Bid Website for any addendums and/or questions/responses. (required)

THIS IS TO CERTIFY THAT THE PERSON SIGNING AND/OR SUBMITTING THE ATTACHED BID REQUEST TO CENTRAL BUCKS SCHOOL DISTRICT FOR:

COMPANY NAME: _____

ADDRESS: _____

DATE: _____

TELEPHONE NUMBER: _____


SIGNATURE (written in ink): _____

SIGNATURE (typewritten): _____

IS AN OWNER _____ OFFICER _____ AGENT _____

TITLE: _____

AND THAT HE/SHE IS FULLY AUTHORIZED TO SUBMIT SUCH BID ON THEIR BEHALF

| | | |
|---|---|--|
|  | <p>REQUEST FOR PROPOSAL</p> <p>DISTRICTWIDE RADIO COMMUNICATION SYSTEM # 2025-022</p> <p>Issued: April 30, 2025 Closes: May 28, 2025- 10:00 A.M. Sharp</p> | <p>Central Bucks School District 20 Weldon Drive Doylestown, PA 18901</p> |
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INTRODUCTION

Vendors in the Philadelphia tri-state area are invited to submit a Proposal to provide radio communication system design and installation services to the Central Bucks School District (CBSD.) Spanning more than 120 square miles in the heart of Bucks County, Pennsylvania, CBSD is one of the largest school districts in Pennsylvania, serving approximately 17,000 students and 3,000 faculty and staff. CBSD serves students in grades kindergarten through twelve in nine municipalities: the boroughs of Chalfont, Doylestown, and New Britain; and the townships of Buckingham, Doylestown, New Britain, Plumstead, Warrington, and Warwick; a population of over 120,000. CBSD’s current radio communications system comprises of a MotoTRBO Capacity Plus single-site repeater network for Transportation (Bus) usage, as well as various portable radios operating on simplex analog channels for in-building communication. The district seeks to unify these radio systems to allow inter-building communication and increase reliability of critical communications systems.

The successful vendor must possess demonstrated expertise (subject matter, knowledge and relevant experience) with current public safety radio communications systems and technology, the most current industry trends and initiatives, and dominant radio system manufacturers. The awarded vendor must be familiar with governing rules and regulations as issued by the Federal Communications Commission (FCC) and other relevant agencies and possess demonstrate subject matter expertise and hands-on experience.

MANDATORY PRE-BID CONFERENCE

ALL PROSPECTIVE BIDDERS MUST ATTEND THE PRE-BID CONFERENCE to be held on Wednesday, May 7th at 9:00 AM beginning at the Educational Service Center located at 16 Weldon Drive, Doylestown, PA 18901 and will proceed to various locations throughout the district, transportation will NOT be provided. Prospective bidders arriving after the 9:00 AM starting time will not be allowed to bid. The Conference will be conducted by Ryan Garvin, CBSD Communications Infrastructure Administrator for the purpose of providing additional information about the project and to give all bidders an opportunity to ask any questions they may have. Only bids received from bidders who have attended and registered at the Pre-Bid Conference will be considered. Bidders must ensure that they register prior to leaving the Educational Service Center.

SCOPE OF SERVICES

The Central Bucks School District is seeking proposals from qualified radio communication professionals to provide the following scope of services:

- 1. Evaluation of Existing Radio Communication System:**
 - Assess the current RF radio transmission system within the district.

- Survey and evaluation of equipment at county location including antennae.
 1. Evaluate the cost of potentially moving equipment to an airconditioned location (up one floor) at the County Office.
 2. Evaluate the possibility of redistributing the equipment to Central Bucks School District Buildings.
- Identify strengths, weaknesses, and areas for improvement.

2. Design of District-Wide Radio Communication System:

- Develop a comprehensive design for a district-wide radio transmission system, incorporating infrastructure that is compatible with existing MotoTRBO portable & mobile radios.
- Utilize traditional UHF radio frequencies and radio over internet (RoIP) protocols if applicable.
- Link 23 schools and 5 administration buildings.
- Include redundancy options to allow for maintenance or failure of a repeater, without disruption to the overall communication system.
- Provide a thorough description of the radio system you have proposed with the number and location of the sites and number of channels. Please include a system diagram, site and network connectivity drawings as well as expected radio system coverage for mobile and portable radios throughout the school district. Indoor coverage analysis is required.
- Consider interoperability options for public safety agencies, in coordination with Bucks County Emergency Communications.
- Provide all FCC licensing as necessary

3. Professional Installation of Radio Equipment:

- Implement the designed radio system.
- Ensure seamless interconnection between all locations.
- Provide professional installation services.

4. Provision of Digital Portable Radios:

- Supply between 50 to 450 portable radios.
- The pricing for portable radios shall include all programming and installation services required for operation.
- Program each radio for:
 - 2 all-purpose channels for each elementary school.
 - 4 all-purpose channels for each secondary school.
 - 1 channel capable of district-wide communication.

- Building-use portable radios must be capable of utilizing the all-purpose channels for one assigned building, as well as the district-wide communication channel.
- Transportation mobile & portable radios must be capable of utilizing all Transportations channels, the district-wide communication channel, and *may* be capable of utilizing all-purpose building channels.
- Administration and security portable radios must be capable of utilizing all channels, in all buildings, transportation channels, as well as the district-wide communication channel.

5. Agreement for Preventative Maintenance Services:

- Offer a maintenance agreement for the installed radio system.
- Ensure ongoing reliability and performance.
- Please include a service level agreement which provides standard response times for repair services on both infrastructure and end-user radios.

6. Expectations

- It is the expectation that the vendor will have an extensive radio systems background and be able to audit the current systems, analyze the functionality and operations and develop a comprehensive strategic plan to provide improved communications and operations as well as provide a project scope including anticipated costs.
- Any potential bidders **MUST ATTEND THE MANDATORY PRE-BID CONFERENCE**. Numerous District sites will be visited. Transportation will not be provided.
- Bidders must provide at least one reference account, where you have implemented a similar radio system in scope and size in a school district environment.

7. Network description

- CBSD's goal is to satisfy its communication requirements by having a simulcast system comprised of two to four channels per site connected by a private IP backhaul system.
- Vendors will describe in detail, network control processes with special focus on system reliability and flexibility.

8. Backhaul System/Linking Network

- Vendors may also propose options for the provision of an IP-based linking system to support the proposed radio system (voice traffic and system management signaling including all alarms).

9. Network Diagram

- Vendors will provide a network diagram showing the proposed sites and inter-site linking.

10. Interoperability needs

- Vendors will propose reliable interoperability solutions with the Bucks County Department of Emergency Communications

11. Network Management

- Simple and effective network management is an important aspect of the system. A network manager or operator shall be able to have access to the system for network, subscriber and fault management and network infrastructure configuration.
- A network manager shall be able to enter and maintain configuration information for the components of the network infrastructure.

12. Fault Management

The vendor shall complete the following table indicating the impact of the various failure modes.

| If This Fails | Then |
|--|-------------|
| Link between station/repeater and channel group | |
| Primary (voter) base station/repeater in a simulcast channel group | |
| Single Repeater/base station | |

Fault management shall involve the use of SNMP information gathered at a central point from the remote sites and associated fixed network infrastructure.

The SNMP management system shall be able to both ‘passively listen’ for SNMP traps to arrive notifying of an event and to periodically poll specific equipment on the network to determine the equipment’s operational status.

The SNMP management system shall include the use of a web browser for the viewing of network performance from anywhere in the associated IP network. The SNMP management system shall also be able to be viewed directly via the computer running the application.

The sites will also be equipped with, at a minimum, the following alarms:

- High/low temperature
- Loss of power
- Door access monitoring

1. Performance Management

Comprehensive remote diagnostics and remote monitoring capabilities shall be provided to allow the network manager to view and monitor key indicators of repeater performance, such as the power amplifier duty cycle, simulcast synchronization status, and received signal strength.

There shall also be options provided for the monitoring and reporting of the overall system level performance and system status. Vendors should describe the remote diagnostic, remote monitoring, and reporting capabilities of their proposed repeaters and network.

Evaluation Process

Central Bucks School District will perform evaluations and selection based on committee consensus. Evaluations will focus on identifying relative strengths, weaknesses, deficiencies, and risks associated with the vendor's proposal. Interviews with the vendors are not anticipated but may be held at the option of the committee. The committee reserves the right to obtain clarification or additional information from any vendor regarding their proposal. Final approval of the selected vendor is subject to the action of the CBSD school board to award the contract.

Note:

- This RFP should be able to be implemented in stages, over multiple fiscal years.
- This RFP should incorporate as much of the current radio communications infrastructure that already exists in the district.
- Please provide a description of the training you will provide for the new radio system. We are open to "train-the-trainer" type of training.
- Please provide at least one reference account, where you have implemented a similar radio system in a school district environment.
- Vendors are responsible for all the costs incurred in the preparation and if need be, demonstration of this proposal.
- Central Bucks School District reserves the right to cancel, reject, modify as needed, or award the project to select the proposal which best meets its needs, regardless of the cost of the proposal relative to other proposals received.

PROPOSAL SUBMISSION DETAILS

Bid submissions will be received by the Central Bucks School District at the Operations Center, 320 W. Swamp Road, Doylestown, PA, 18901 until **Wednesday, May 28th, 10 am Sharp** (prevailing time). Bid packets must clearly be marked: **ATTN: KEVIN SPENCER/RADIO COMMUNICATIONS BID RESPONSE.**

For technical details & questions, please contact:

Ryan Garvin, District Communications Infrastructure Administrator

Central Bucks School District

rgarvin@cbsd.org



CENTRAL BUCKS
SCHOOL DISTRICT

REQUEST FOR PROPOSAL

**DISTRICTWIDE RADIO COMMUNICATION
SYSTEM
2025-022**

**Central Bucks
School District
20 Weldon Drive
Doylestown, PA
18901**

**Issued: April 30, 2025
Closes: May 28, 2025 10:00 A.M. Sharp**

BID SHEET

| | | |
|--|-------------------|--|
| Vendor Name: | | |
| Vendor Quote Number (if applicable): | | |
| Website: | | |
| SERVICE | COST | |
| Evaluation of Existing Radio Communication System | | |
| Design District-Wide Radio Communication System | | |
| Professional Installation of Radio Equipment | | |
| Provision of Programed Radios | | |
| | Each | |
| | Quantity of _____ | |
| Preventative Maintenance Service | | |
| Exceptions: | | |
| Contact Person: | | |
| Phone Number: | | |
| Fax Number: | | |
| E-Mail Address: | | |
| Comments: | | |
| Signature of Authorized Representative: | | |
| Print Authorized Name: | Date: | |
| The Non-Collusion Affidavit is signed and attached | | |
| Completed W-9 is attached | | |
| | | |

Additional Information

- The District will not be liable for any cost incurred in the preparation of proposals.
- The submission of a proposal shall be prima facie evidence that the firm submitting the proposal has full knowledge of the scope, nature, quantity and quality of work to be performed; the detailed requirements of the specifications; and the conditions under which the work is to be performed.
- The firm submitting the proposal shall furnish the District such additional information as the District may reasonably require.
- The District will not be liable and will not pay for any costs not included in the proposal. Specifically, it will not be subject to any fees for “extra work.”
- The District reserves the right to reject any and all proposals. It retains sole discretion to accept the proposal it considers most favorable to its interest, and the right to waive minor irregularities in the proposals. The District further reserves the right to reject all proposals and seek new proposals when such a process is in the best interest of the District.

INSTRUCTIONS FOR NON-COLLUSION AFFIDAVIT

1. The Non-Collusion Affidavit is material to any contract award pursuant to this bid. According to the Pennsylvania Anti-Bid Rigging Act, 73 P.S. Section 1611 *et seq.*, governmental agencies shall require Non-Collusion Affidavits to be submitted together with bids.
2. This Non-Collusion Affidavit must be executed by the member, officer or employee of the bidder who makes the final decision on prices and the amount quoted in the bid.
3. Bid rigging and other efforts to restrain competition, and the making of false sworn statements in connection with the submission of bids, are unlawful and may be subject to criminal prosecution. The person who signs the Affidavit should examine it carefully before signing and assure himself/herself that each statement is true and accurate, making diligent inquiry, as necessary, of all persons employed by or associated with the bidder with responsibilities for the preparation, approval or submission of the bid.
4. In the case of a bid submitted by joint venture, each party of the venture must be identified in the bid documents, and an Affidavit must be submitted separately on behalf of each party.
5. The term “Complimentary Bid”, as used in the Affidavit, has the meaning commonly associated with that term in the bidding process, and includes the knowing submission of bids higher than the bid of another firm, any intentionally high or non-competitive bid, and any other form of bid submission for the purpose of giving a false appearance of competition.
6. Failure to file an Affidavit in compliance with these instructions will result in the disqualification of your bid

NON-COLLUSION AFFIDAVIT

Contract/Bid No. _____

State of _____ : S S. _____

County of _____ :

I state that I am _____ of _____
(Title) (Name of Firm)

and that I am authorized to make this Affidavit on behalf of my firm and its owners, directors and officers.

I am the person responsible in my firm for the prices(s) and the amount of this bid.

I state that:

1. The prices(s) and the amount of this bid have been arrived at independently and without consultation, communication or agreement with any other contractor, bidder or potential bidder.
2. Neither the price(s) nor the amount of this bid and neither the approximate price(s) nor the approximate amount of this bid have been disclosed to any other firm or person who is a bidder or potential bidder and they will not be disclosed before the bid opening.
3. No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract or to submit a bid higher than this bid or to submit an intentionally high or non-competitive bid or other form of "Complimentary" bid.
4. The bid of my firm is made in good faith and not pursuant of any agreement or discussion with, or inducement from, any firm or person to submit a "Complimentary" or other non-competitive bid.
5. _____, its affiliates,
(Name of Firm)

subsidiaries, officers, directors and employees are not currently under investigation by any government agency and have not, in the last four years, been convicted or found liable for any act prohibited by State or Federal Law in any jurisdiction, involving conspiracy or collusion with respect to bidding any public contract., except as follows: (state below)

NON-COLLUSION AFFIDAVIT (Continued)

I state that _____
understands

(Name of Firm)

And acknowledges that the above representations are material and important, and will be relied on by Central Bucks School District in awarding the contract for which this bid is submitted.

I understand, and my firm understands, that any misstatement in this Affidavit is and shall be treated as fraudulent concealment from the Central Bucks School District of the true facts relating to the submission of bids for this contract.

SIGNED _____

(Name)

TYPED _____

(Name)

POSITION _____

SWORN TO AND SUBSCRIBED BEFORE ME

THIS _____ DAY OF

_____, 20____

(Month)

SEAL

(Notary Public)