



**Independent School District #29 of Cleveland County, Oklahoma d/b/a
 Invitation to Bid # 2012020
 Radio System for District Vehicles**



Return Sealed Proposal to this address:

**NPS Purchasing Department
 131 South Flood
 Norman, OK 73069**

Date of Issuance: 01/31/12

Bidder Name:

Bid Number: 2012020

Bidder Address:

Bid Name: Radio System for District Vehicles

Bidder Phone & Facsimile:

Bid Due Date: 02/14/12

Bidder Email Address:

Bid Due Time: 11:00 am CST

Vendor hereby agrees to comply with all conditions of this Invitation to Bid and ensuing proposal. Bidder guarantees that the product offered will meet or exceed specifications identified in this proposal.

Independent School District #29 of Cleveland County, OK d/b/a Norman Public Schools conducts all bids in accordance with NPS Board of Education approved policy. Contracts for one item/service, or multiples of that item/service in excess of \$25,000 shall be awarded based on the results of a sealed bid. In the event that a construction/improvement project exceeds \$50,000, regulations of the Competitive Bid Act of 1974 will be enforced.

Non-Collusion Affidavit

State of _____

County of _____

_____, of lawful age, being first duly sworn, on oath says that (s)he is the agent authorized by the bidder to submit the attached bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any state official or employee as to quantity, quality, or price in the prospective contract, or any other terms of said prospective contract; or in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract.

Signature of Representative: _____

Subscribed and sworn to before me this _____ day of _____ 20__.

My Commission expires: _____

 Notary Public



Terms & Conditions

1. All contracts and agreements are with Independent School District #29 (ISD-29) of Cleveland County, Oklahoma d/b/a Norman Public Schools (hereinafter "NPS" or "the District").
2. Proposals must be submitted in accordance with the terms and conditions contained in this Invitation to Bid/Request for Proposal/Request for Quote (hereinafter "ITB/RFP/RFQ").
3. All ITB/RFP/RFQ/RFQ's submitted are subject to the District's purchasing policies and procedures and the terms and conditions listed herein, which are made a part of this ITB/RFP/RFQ by reference. This ITB/RFP/RFQ, any purchase order or contract, and all related payments will be governed by the laws of the State of Oklahoma and the District's purchasing policies and procedures.
4. Inquiries for information regarding procurement procedures, proposal submission requirements, or other fiscal/administrative concerns shall be directed to the Independent School District #29 of Cleveland County, OK d/b/a Norman Public Schools (hereinafter "NPS") Director of Purchasing in writing via facsimile or email. These guidelines for communication have been established to ensure a fair and equitable evaluation process for all respondents.
5. **Preparation of Invitation to Bid/Request for Proposal/Request for Quote (hereinafter "bid"):**
 - a. It is the bidder's responsibility to examine the bid to include, but not limited to:
 - b. General Terms and Conditions, Specifications, Amendments, Attachments, Meetings, etc.
 - c. Bidder shall return, sign, and notarize (if applicable) all required forms listed on the cover page.
 - d. Bid shall be typewritten or written in ink. Pencil bids will not be accepted. Erasures or changes shall be initialed by the authorized individual signing this bid.
6. **Bid Submission**

Bid shall be placed in a sealed envelope bearing the proposal number, date & time of bid opening, and bidder's company name and address. Facsimile and telephone bids are unacceptable. Bids received after the stated bid opening date and time shall not be accepted and shall be returned unopened to the vendor. NPS is not responsible for delays in the delivery of mail by the U.S. Postal Service, private couriers, or any other means of delivery. All bids shall be delivered to the NPS Purchasing Department, 131 S. Flood Avenue, Norman, OK 73069.

By submitting this bid, vendor acknowledges and approves the terms and conditions established by the District in this bid. These terms and conditions may not be altered by the vendor, either by the terms of the bid or by any acknowledgement or attachment.
7. **Amendments**

Bidder shall acknowledge receipt of amendment(s) to bids by signing and returning the amendment(s). Amendment acknowledgement(s) may be submitted with the bid reply or may be forwarded separately via mail or facsimile. The amendment(s) shall be received on or before the bid due date and time.
8. **Preparation Costs**

NPS will not be liable for any costs associated with the preparation of materials for offeror's bid submission.
9. **Bid Openings**

Sealed bids are publicly opened and read aloud at the time and date specified. Vendors are invited to attend bid openings.

NPS reserves the right to reject any or all bids, accept the bid deemed most advantageous to the school district, and to waive any technicalities. The district is under no obligation to accept any bid.
10. **Solicitation Results**

The Purchasing Department, upon evaluation of solicitation results, and unless all responses are rejected, will issue a Purchase Order if the amount is less than \$10,000.00. If the amount is greater than \$25,000.00, the Director of Purchasing will recommend the award to the Board of Education for approval at a public Board of Education meeting. If approved, the Purchasing Department will subsequently issue the Purchase Order. The Purchasing Department does not routinely notify unsuccessful vendors or mail bid tabulations. Bid results are available upon request.
11. **All or None**

Contracts resulting from this bid may be awarded on an "All or None" basis, or by individual item or grouped items, whichever is deemed to be in the best interest of NPS. Contract awards will be made to the lowest and the best bidder. Contract award decisions are further subject to any additional terms and conditions contained in this bid.
12. **Tie Bids**

In the instance where one or more vendors shall offer materials, supplies, services, or other equipment at an identical "total price," preference shall be given to such vendors in the following order:

 - A. Local
 - B. State
 - C. State Contract Vendors
 - D. Others

In those instances where two or more vendors who are judged to belong in the same classification shall submit identical quotations for the same item, it shall be the administrative responsibility of the Director of Purchasing Services to select that vendor who shall be awarded the purchase contract based upon consideration of each vendor's past performance such as meeting delivery deadlines, product warranties, and meeting specifications. If the past performance of the vendors is equal, then the selection shall be by means of a chance drawing conducted by the Director of Purchasing Services and witnessed by those vendors affected provided they express a desire to be present.
13. **Delivery**

Unless otherwise specified, all items ordered for delivery shall be delivered to the Independent School District #29 of Cleveland County, OK d/b/a Norman Public Schools Warehouse located at 4100 North Flood, Norman, OK 73069



Terms & Conditions Continued

14. Award Questions/Protest:

Any bidder may question the award or decision to award a contract by submitting concerns in writing to the Director of Purchasing no later than ten (10) days after the award is made. The Director of Purchasing will review and reply, as well as initiate any appropriate action.

15. Employees of business having contract with school conviction of sex offense or felony:

- A. No person or business having a contract with a school or school district to perform work on a full-time or part-time basis that would otherwise be performed by school district employees shall allow any employee to work on school premises if such employee is convicted in this state, the United States, or another state of any felony offense unless ten (10) years has elapsed since the date of the criminal conviction or the employee has received a presidential or gubernatorial pardon for the criminal offense.
- B. Every person or business performing services not subject to subsection A of this section on the property of a school or school district shall be required to sign a statement declaring that no employee working on school premises under the authority of such business is currently registered under the provisions of the Oklahoma Sex Offenders Registration Act and that the business is not in violation of the provisions of this section. Compliance with this statute shall be required of the person or private business, and there shall be no obligation placed upon a school district to ascertain the truthfulness of the affidavit.

16. Warranty

The Vendor warrants to NPS that all goods and services furnished hereunder will conform in all respects to the terms of this bid, including any drawings, specifications or standards incorporated herein, and/or defects in materials, workmanship and free from such defects in design. In addition, Vendor warrants the goods and services are suitable for and will perform in accordance with the purposes for which they were intended.

17. NPS Vendor Listing

A vendor may be included on the bid list by faxing, mailing, or emailing a completed and signed Vendor Qualification form or Contractor Qualification form. The vendor shall attach the completed commodity list and send to the Director of Purchasing. Vendors having no bid activity within a twelve-month period shall be removed from the list and may only be re-entered by following the appropriate procedures listed above. If a vendor wishes to refrain from a particular bid, the vendor shall return the front page of the packet with the words "No Bid" in order to remain on the active bidders list. A vendor may be removed from the bid list for unsatisfactory performance.

18. Taxes

The Norman Public School District is exempt from Federal and State taxes. A tax exemption certificate will be provided by the Purchasing Department upon request by the vendor.

19. If awarded the contract, the bidder hereby agrees to furnish all materials and labor for the total completion of stated project not to exceed the cost guaranteed by this bid. Furthermore, the project shall be completed in the manner and time specified in the bid/proposal packet.

20. Insurance

- A. If any work must be performed on the campus of NPS by the vendor, the vendor shall provide comprehensive broad form liability insurance in at least the amount of \$1,000,000 combined bodily injury and property damage for any and all liability, loss, costs, damage, or expense arising out of the terms and performance of this agreement caused by its operations, its agents, or employees. Workers' Compensation Insurance as prescribed by the laws of the State of Oklahoma must also be carried.
- B. Vendor shall provide a certificate or certificates of insurance showing that the prescribed policies are in force and effect and naming NPS as an additional insured. Each certificate shall provide that the insurance company shall not change or cancel any insurance until NPS has been notified in writing at least thirty (30) days before the date of change or cancellation.
- C. The vendor will hold NPS harmless, and will assume all responsibility for personal injury and property damage occurring in connection with the project.

21. Competitive Bidding Act of 1974 (Applies to section 21.1 and 21.2 only)

In the event that a construction/improvement project exceeds \$50,000, regulations of the Competitive Bid Act of 1974 will be enforced. It is the responsibility of the Contractor and all the Sub-contractors and suppliers to familiarize themselves with this law and to comply fully with all of its provisions.

21.1 Bond

- A. Each Bidder shall submit with proposal a Bidder's Bond if required in the RFP General Information Item 2. Such bond will be payable to the Independent School District #29 of Cleveland County, OK d/b/a Norman Public Schools, 131 South Flood, Norman Oklahoma, in an amount of not less than 5% of the base proposal. There shall be forfeited to the Owner the cost of republication of notice to bidders, all actual expenses incurred by reason of Bidder's default, and the difference between the low bid of the defaulting bidder and the amount of the bid of the bidder to whom the contract is subsequently awarded, but not to exceed the amount of the Bid Bond, in the event that the apparently successful Bidder fails to execute the Contract or fails to provide the required Bonds and Insurance to the Owner.
- B. Performance Bonds, Statutory Payment Bonds and Defect Bonds will be required for all Work done under this Contract, and the cost of said Bonds will be included in the Contractor's Proposal. Bonds shall meet the requirements of the Public Competitive Bidding Act of 1974 of the State of Oklahoma, as amended.
- C. Within a period of thirty calendar days after the opening of bids, a contract shall be executed between the Owner and the successful bidder and all required bonds and insurance shall be provided within that period.

21.2 Liquidated Damages

The Owner will suffer financial loss if the project is not substantially complete within the time limitation set forth above. The Contractor and his Surety will be liable for and shall pay to the Owner the sum of Two Hundred and Fifty Dollars (\$250) as fixed, agreed and liquidated damages for each calendar day beyond such time limitation that the Work under this Contract is not substantially complete and beneficial occupancy begins. The liquidated damages shall apply to each project site separately.



General Information
Invitation to Bid # 2012020
Radio System for District Vehicles

1. Inquiries

All inquiries concerning this bid shall be received no later than **11:00 am CT on 02/07/12**. Inquiries must be sent in writing to the Purchasing Director. Contact of any type with any other Norman Public School employee besides the Purchasing Director regarding this (or any) bid is strictly prohibited and punishable by immediate suspension of this bid and possibly future bids.

Send questions via facsimile or email to:
Kimberly Bauer, Director of Purchasing
Norman Public Schools, Independent District I-29
Phone: 405-447-6555
Email: kbauer@norman.k12.ok.us
Facsimile: 405-573-3555

2. Required Forms – Failure to provide the forms checked below shall result in disqualification of bid.

- Signed and Notarized Non Collusion Affidavit
- Signed Pricing Page
- IRS W9 Form – Completed and Signed
- Signed Letter certifying vendor is not on the Government Debarment and Suspension (Excluded Parties List)
- Signed Declaration of Sex Offender Affidavit
- Signed and Notarized Business Relationships Affidavit
- References – Five (5) Business References (Contact, Address, Phone, Fax, Email if available)
- Copy of licenses and/or letter from manufacturer showing vendor as authorized dealer/installer/service provider
- Bidders Bond (cashier check, certified check, or surety bond) ONLY when box is checked, a bid bond must accompany sealed bid regardless of the amount of the bid. BID BOND IS REQUIRED FOR THIS BID**

3. Required forms due when contract is awarded:

- Signed and Notarized Contract Affidavit
- Performance Bond
- Statutory Bond
- Defect Bond
- Certificate of Insurance

4. Amendments to ITB

In the event it should be necessary to revise any portion of this ITB, an amendment will be issued following the inquiry deadline date and time.

5. Warranty

Vendor must provide full copy of written warranty with sealed bid.

6. Removal of Trash/Debris

The vendor shall be responsible for obtaining a dumpster and the removal of any trash or debris associated with the job assignment.

7. Mandatory Pre-Bid Walk Through – NOT REQUIRED FOR THIS BID

Unless otherwise stated, if a pre-bid walk through is required, all vendors are to meet at the Purchasing Office located in the Administration Building at 131 South Flood, Norman, OK 73069. Vendors will be given a fifteen (15) minute grace period to attend. Any vendor not at the designated meeting place within that time frame will not be allowed to participate in the walk through or bid.

8. Evaluation Criteria-district may evaluate criteria in any order, and may add criteria to achieve best value.

- **Price**
- **Proximity to Source**
- **References (MUST ACCOMPANY BID)**
- **Time of Installation**



**Scope of Work & Specifications
Invitation to Bid # 2012020
Radio System for District Vehicles**

Scope of Work

The purpose of this invitation to bid is to provide specifications for the purpose of purchasing a radio system which shall provide reliable, efficient, radio functionality for Norman Public Schools' operational groups and shall accommodate Norman Public Schools' communications requirements between these operational groups. The district requires a turn-key solution. The Radio System shall be provided, installed and programmed with the features, functions, and capabilities as described herein.

Vendor will submit one (1) original and one (1) copy of each response.

Specifications

All vendors must be fully knowledgeable with FCC communications regulations, and with FCC, local, city and state laws as they pertain to radio frequencies and communications. Vendors must fully comply with FCC communications regulations as well as local, city and state regulations.

Required Features and Functions

The proposed Radio System and protocol shall support the following features and functions:

1. The system and/or user equipment must support digital transmissions on a 6.25 equivalent, 12.5 kHz TDMA channel. The system and/or user equipment must also support analog transmissions on 12.5 kHz channels.
2. The repeater/base station equipment must be able to manage two independent time slots on a single 12.5 kHz frequency using TDMA (Time Division Multiple Access) technology transmissions.
3. All user portable radios must incorporate increased digital battery life over analog by operating in a TDMA digital mode.
4. All user portable radios must include battery technology for automatic maintenance and reconditioning.
5. All radio equipment must support the use of radio subscriber accessories for automatic gain control and noise suppression.
6. The system and/or user equipment must include imbedded digital forward error correction technology to increase clarity throughout range.
7. The system and/or user equipment must include imbedded software based privacy or scrambling to protect user privacy during communications. This imbedded scrambling must support at least 40-bit protection with multiple keys.
8. All user radios must include Emergency Declaration capability with single button activation. The Emergency Declaration shall provide visual and audible status notification to specified radios. The Vendor's Proposal shall include a detailed description of the Emergency Declaration features and programming options.
9. The system and/or user equipment must include imbedded GPS receivers in both the portable and mobile radios. Any additional external receivers or accessories shall not be required to receive or send GPS information. GPS shall be supported in a repeater and/or talk around mode.



Scope of Work & Specifications Continued
Invitation to Bid # 2012020
Radio System for District Vehicles

10. The system and/or user equipment must include imbedded text messaging capabilities. Any additional external receivers or accessories shall not be required to receive or send text message information. The user equipment must support unit-to-unit canned and user creatable text messaging capability. The user equipment must support at least 140 scrolling characters. Text messaging shall be supported in a repeater and/or talk around mode.
11. The system and/or user equipment must include imbedded telemetry capabilities. Any additional external receivers or accessories shall not be required to receive or send telemetry information. Telemetry shall be supported in a repeater and/or talk around mode.
12. The system and/or user equipment must include intelligent channel steering capabilities to revert GPS traffic to alternate channels to control and manage data traffic more efficiently on the system.
13. Automatic Vehicle Location (AVL) information shall include vehicle identification, location, speed and time of transmission.
14. Voice shall take priority over data transmissions on radios transmitting both voice and data information.
15. The system user shall have the option of applying for licensure to detailed radio interface information. This information shall allow the radio user, if capable, to develop custom applications.
16. The system shall provide a software application that allows the system administrator the ability to monitor and control the radio repeaters within the system. The Repeater Diagnostics and Reporting system shall provide the following capabilities:
17. Repeater Diagnostics that include enabled-disabled station status, Transmitter power status, available channels and RSSI levels.
18. Repeater Controls that include changing channels, transmitter power, station reset and repeater knockdown.
19. Repeater Alarm Reporting including Receiver lock failure, transmit lock detect, station overheating, AC Power supply failure and detect and report of failure.
20. The application operates over the IP network or locally via USB or GPIO connection.
21. Repeater Alarms: RX (Receiver lock failure), TX (transmit lock detect), Temp (station overheating), Power (AC Power supply failure), Fan (fan failure), PA Voltage Major, PA Voltage Minor, VSWR Major, VSWR Minor, TX Power Major, TX Power Minor, PA EEPROM Corruption, *Exciter EEPROM Corruption, Receiver EEPROM Corruption, Interoperability between Exciter and PA.



Scope of Work & Specifications Continued
Invitation to Bid # 2012020
Radio System for District Vehicles

Multi-Site Conventional Capabilities

1. System capability should allow expandability to support additional and/or future sites, radio channels, and users. The network should have the capability of being expanded to at least 15 sites.
2. The system design should allow seamless roaming between sites. The system shall provide for automatic radio switching between network sites without any action by the user to provide communications without any message interruption throughout the designated coverage area.
3. The system shall be capable of supporting data communications that include GPS location services, text messaging, and a data interface for other customer specific and supplied applications including telemetry, system performance management, VoIP dispatch, AVL, work-order management, and email connectivity.

User Equipment

General

All user radios proposed (portables, mobiles, and control stations) shall fully support all features and functions available for user radios in the proposed system. The pricing for user radios shall include all programming and installation services required for operation. At the appropriate time during the implementation process the Vendor will be expected to develop detailed programming personalities and talk-group configurations with input and assistance from Norman Public Schools. User radio programming shall not be performed until Norman Public Schools Project Manager has approved the programming personalities and issued a written notice to proceed with radio programming. Programming of radios will be free for the first year from the date of activation.

All proposed portable, mobile, and control station radios shall conform to the minimum standards specified by TIA/EIA-603, Section 5 "Standards for Portables".

Portable Radios XPR 6550 or equivalent

- The proposed portable radio should be rugged, reliable, and provide the following minimum features:
 - Emergency button.
 - 12.5 kHz analog channel bandwidth.
 - 12.5 kHz TDMA (6.25e) digital channel bandwidth.
 - Alphanumeric display.
 - 1000 Channels.
 - Digital Signaling - PTT ID, Private Call, All Call, Call Alert, Escalating Alerts, Emergency, Radio Check, Radio Disable/Enable and Remote Monitor
 - Analog Signaling - MDC1200: PTT ID, Emergency and Call Alert
 - 16-position channel selector.
 - Group scan.
 - External microphone and speaker connections.
 - Impress Battery
 - Full line of optional accessories.
 - Optional intrinsically safe model.
 - 6 Programmable buttons (supporting both long and short press)
 - Meets IP57 submergibility with or w/o accessory cover attached

Proposed portable radio units shall conform to applicable Portable Military Standards 810C, 810D, and 810E. The portable transmitters and receivers must further meet or exceed the following specifications.



**Scope of Work & Specifications Continued
Invitation to Bid # 2012020
Radio System for District Vehicles**

Portable Transmitter

Frequency Range	403 - 470 MHz
Frequency Stability	+/- 1.5ppm (Non-GPS) +/- 0.5ppm (GPS)
RF Power Output	1 – 4 or 5 watts
Channel Spacing	12.5 or 25 kHz
Adjacent Channel Power	60 dB @ 12.5 kHz

Portable Receiver

Frequency Range	403 - 470 MHz
Channel Spacing	12.5 or 25 kHz
Analog Sensitivity (12 dB SINAD)	0.35 uV / .22uV (typical]
Digital Sensitivity	5% BER: 0.3 uV
Adjacent Channel Selectivity	60dB at 12.5 kHz @ (TIA603) 45dB at 12.5 kHz @ (TIA603C)
Spurious Rejection	70 dB
Audio Distortion	3%

Mobile Radios: Motorola XPR 4350/4550 or equivalent

The proposed mobile radio should be rugged, reliable, and provide the following minimum features:

- Emergency button.
- 12.5 kHz analog channel bandwidth.
- 12.5 kHz TDMA (6.25e) digital channel bandwidth.
- 32 channels 4350 and 1000 channels 4550
- Digital Signaling - PTT ID, Private Call, All Call, Call Alert, Escalating Alerts, Emergency, Radio Check, Radio Disable/Enable and Remote Monitor
- Analog Signaling - MDC1200: PTT ID, Emergency and Call Alert
- Group scan.
- Full line of optional accessories.
- 4 Programmable buttons (supporting both long and short press)
- 40 watt capable



Scope of Work & Specifications Continued
Invitation to Bid # 2012020
Radio System for District Vehicles

Mobile and control station transmitters and receivers must further meet or exceed the following specifications.

Mobile/Control Station Transmitter

Frequency Range	403 - 470 MHz
Frequency Stability	+/- 1.5ppm (Non-GPS) +/- 0.5ppm (GPS)
RF Power Output	25-40 watts
Channel Spacing	12.5 or 25 kHz
Adjacent Channel Power	60 dB @ 12.5 kHz
Laird Technology Phantom Elite Low Profile Antenna or equivalent	

Mobile/Control Station Receiver

Frequency Range	403 - 470 MHz
Channel Spacing	12.5 or 25 kHz
Analog Sensitivity (12 dB SINAD)	0.30 uV / .22uV (typical]
Digital Sensitivity	5% BER: 0.3 uV
Adjacent Channel Selectivity	65dB at 12.5 kHz (w / TIA603) 50dB at 12.5 kHz (w / TIA603C)
Spurious Rejection	75 dB
Audio Distortion	3%

Desktop Control Station Radios: Motorola XPR 6550 or equivalent

Desktop control station radios will be installed at locations to be determined at a later date. The Proposal should include per unit pricing including standard installation for a recommended control station including the radio, power supply, desktop microphone, and antenna. The following minimum features should be supported by the proposed control station radio:

- Emergency button.
- 12.5 kHz analog channel bandwidth.
- 12.5 kHz TDMA (6.25e) digital channel bandwidth.
- Alphanumeric display.
- 1000 Channels.
- Digital Signaling - PTT ID, Private Call, All Call, Call Alert, Escalating Alerts, Emergency, Radio Check, Radio Disable/Enable and Remote Monitor
- Analog Signaling - MDC1200: PTT ID, Emergency, and Call Alert
- Group scan.
- Full line of optional accessories.
- Optional high power unit (at least 40 watts).
- 4 Programmable buttons (supporting both long and short press)



**Scope of Work & Specifications Continued
Invitation to Bid # 2012020
Radio System for District Vehicles**

Infrastructure

Motorola MTR-3000 or equivalent

Base Station Transmitter

The base station transmitters shall conform to the minimum standards specified by TIA/EIA-603, Section 4.2, and the Code of Federal Regulations 47, Part 90, Subpart I. The transmitters shall further meet or exceed the following specifications.

Frequency Range	403-470,
Frequency Stability	UHF: 1.5 ppm
RF Power Output	UHF: 8-100 watts (continuous)
Channel Spacing Analog	12.5 kHz, 25 kHz
Channel Spacing Digital	12.5 kHz (6.25e compliant)
Audio Distortion	Less than 3% (1% typical) at 1000Hz; 60% RSD

Base Station Receiver

The base station receivers shall conform to the minimum standards specified by TIA/EIA-603, Section 4.1. The base station receivers shall further meet or exceed the following specifications.

Frequency Range	403-470
Analog Sensitivity (12 dB SINAD)	0.30 uV (0.22 uV typical)
Digital Sensitivity	0.30 uV (0.20 V typical)
Adjacent Channel Selectivity (TIA603)	UHF @ 25kHz: 80 dB (86 dB typical) UHF @ 12.5kHz: 75 dB (78 dB typical)
Adjacent Channel Selectivity (TIA603D)	UHF @ 25kHz: 75 dB (85 dB typical) UHF @ 12.5kHz: 45 dB (60 dB typical)
Spurious Rejection	UHF: 85 dB
Audio Distortion	Less than 3% (1% typical) at 1000 Hz; 60% RSD
Battery Back up	
Repeaters to include enhanced GPS capability	



**Scope of Work & Specifications Continued
Invitation to Bid # 2012020
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REPEATER SYSTEM ANTENNA STATION

Andrew DB-420 antenna or equivalent: 150' 7/8" coax with connectors; all necessary ground rods, polyphasers, etc for R56 grounding.

Installation Requirements

Repeaters

Two (2) repeaters are to be installed at Norman North High School PAC; antennas to be located on tower provided by NPS.

Two (2) repeaters to be installed at Lake View elementary school; antennas located on top of Gymnasium on tower provided by NPS.

Repeaters to be connected using IP site connect. Norman public schools responsible for providing network connectivity

Grounding to be to R56 Standards

Control Stations

Control stations to be installed at schools to include non penetrating roof mount, 3 Db gain directional antenna and grounding to include Ground bus bar, polyphaser and ground rod

Mobile Units

Mobile units to be installed on location at times agreed upon between Norman Public Schools contact and awarded vendor. Vendor will agree to begin installation after the Board has awarded the project and complete the entire installation by July 30, 2012. Norman Public Schools agrees the award will be made by no later than the March 5, 2012 Board meeting. An exception will be given for the (8) eight new buses only in the event the buses are not received in a timely manner before July 30, 2012.

Vendor Requirements

Vendor must be a Motorola Premier Service Provider, and include a letter within the sealed bid package from the manufacturer stating compliance.

Vendor's technician installing repeaters must be R56 certified & ETA certified. Certifications on all technical employees must be included in the sealed bid package.

Vendor must be able to provide a two (2) hour response time from the time the initial call is received. Vendor must be available 24 hours a day, 7 days per week for service.

A vendor service center must be located within 50 miles of the Norman Bus Barn located at 425 12th Avenue NE, Norman, OK.

Optional GPS Requirements

Vendor must provide optional pricing for GPS tracking to include the following:

- 1) Streetrek client or equivalent capable of tracking 200 assets.
- 2) Turbo DVR Silver or equivalent. (no control stations Required)
- 3) Installation and training



**Scope of Work & Specifications Continued
Invitation to Bid # 2012020
Radio System for District Vehicles**

RADIO COUNT

Without Display

87 - Buses

8 - New Buses (To be installed upon delivery of buses on or before August, 2012)

5 - Additional Radio's for Stock

Total 92 without Display

With Display

54 - Maintenance Vehicles

4 - Heavy Equipment Vehicles

23 - Schools

1 - Warehouse

1 - Maintenance

1 - Transportation

1 - Security Office at DCC

1 - ASC

5 - Additional Radio's for Stock

Total 93 with Display

Handheld Radio's

23 - School Sites

6 - DCC – Security

8 - Transportation

8 - CSC

1 - Mech. Garage

2 - ASC

5 - Additional Radio's For Stock

Total 53 Handheld Radio's

Accessories

160 - Mobile Antenna's

12 - Desk Top Units for Base Operation

24 - Desk Mic's

4 - 100 Watt Repeater's

24 - Antenna's for School Sites

2 - Freq. for Norman Schools

Additional Information:

Vendor must provide pricing per job as described, plus price each piece of equipment for possible additions; (Radios, antenna, repeaters, etc.) SEE PRICING PAGES BELOW

Vendor must state duration of pricing (e.g. 1 year, 2 years etc.) SEE PRICING PAGES BELOW

Installation to be coordinated with NPS Central Services personnel.

All programming of radio's to be included with bid.

Pricing Page
Invitation to Bid # 2012020
Radio System for District Vehicles

<p>→</p> <hr/> Signature of Authorized Agent	<p>→</p> <hr/> Printed Name of Authorized Agent
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Failure to sign this form will disqualify bid.

PLEASE NOTE: Any installation, configuration or equipment cost required by service provider must be listed and clearly stated in bid response.

All programming of radio's to be included with bid

Without Display

- 87 Buses
- 8 New Buses
- 5 Additional Radio's for Stock

Total 92 without Display \$ _____

With Display

- 54 – Maintenance Vehicles
- 4 – Heavy Equipment Vehicles
- 23 – Schools
- 1 – Warehouse
- 1 – Maintenance
- 1 – Transportation
- 1 – Security Office at DCC
- 1 – ASC
- 5 – Additional Radio's for Stock

Total 93 with Display \$ _____

Handheld Radio's

- 23 – For School Sites
- 6 – DCC – Security
- 8 – Transportation
- 8 – CSC
- 1 – Mech. Garage
- 2 – ASC
- 5 – Additional Radio's For Stock

Total 53 Handheld Radio's \$ _____

Accessories

- 160 Mobile Antenna's \$ _____
- 12 Desk Top Units for Base Operation \$ _____
- 24 Desk Mic's \$ _____
- 4 – 100 Watt Repeater's \$ _____
- 24 Antenna's for School Sites \$ _____
- 2 – Freq. for Norman Schools \$ _____

Cost of Installation of all Radios and Hardware for Complete System \$ _____

GRAND TOTAL OF INSTALLATION AND EQUIPMENT \$ _____

Pricing Page Continued
Invitation to Bid # 2012020
Radio System for District Vehicles

→	→
_____ Signature of Authorized Agent	_____ Printed Name of Authorized Agent

Failure to sign this form will disqualify bid.

PLEASE NOTE: Any installation, configuration or equipment cost required by service provider must be listed and clearly stated in bid response.

Additional Information – Breakdown of Pricing:

Price per job as described, plus price each piece of equipment for possible additions; (Radios, antenna, repeaters, etc)

\$ _____

Duration of pricing (e.g. 1 year, 2 years etc)

Expected Time of Completion (ARO)

Optional Pricing – Vendor to provide Optional Pricing for the following items:

Streetwork client or equivalent capable of tracking 200 assets

\$ _____

Turbo DVR Silver or equivalent (no control stations required)

\$ _____

Installation and training

\$ _____

Administrative Information

Your proposal, submitted in response to this ITB, constitutes an irrevocable offer and, when accepted by the Board of Education, constitutes a firm and binding contract.

The district reserves the right to purchase any, all or none of the equipment described above. Purchase is contingent upon the availability of funds.

Totals provided reflect the counts needed. The possibility exists that there may be errors in the counts. The district reserves the right to adjust the counts up or down as necessary.

(This affidavit shall accompany the bid)

**Independent School District #29 of Cleveland County, OK
d/b/a Norman Public Schools
Declaration by Vendor Regarding Prohibition
of Sex Offenders on School Premises**

The undersigned, _____, represents that he/she is the owner or an officer of \ _____, who has the authority to make this declaration to the Independent School District #29 of Cleveland County, OK d/b/a Norman Public Schools, as required by Section 6-101.48 of title 70 of the Oklahoma Statutes. I declare that no employee working on school premises during normal working hours under the authority of the above named company or business has been convicted in this State, the United States or another state of any sex offense subject to the Sex Offenders Registration Act or is subject to another state's or the federal sex offender registration provisions.

I further understand that Title 57, O.S. Supp. 1999, Section 589 provides as follows, to-wit:

It is unlawful for any person registered pursuant to the Oklahoma Sex Offenders Registration Act to work with or provide services to children or to work on school premises, or for any person or business who offers or provides services to children or contracts for work to be performed on school premises to knowingly and willfully allow any employee to work with children or to work on school premises who is registered pursuant to the Oklahoma Sex Offenders Registration Act. Upon conviction for any violation of the provisions of this subsection, the violator shall be guilty of a misdemeanor punishable by a fine not to exceed One Thousand Dollars (\$1,000.00). In addition, the violator may be liable for civil damages.

I further declare that so long as the undersigned performs work or provides services to the Independent School District #29 of Cleveland County, OK d/b/a Norman Public Schools, that the undersigned will at all times comply with the statutory provisions described herein.

Dated this _____ day of _____.

Vendor Name (type or print) _____

Authorized Representative (type or print) _____

Authorized Representative's Signature _____

Federal ID # or Social Security Number _____

Return Declaration to: Independent School District #29 of Cleveland County, OK
d/b/a Norman Public Schools
Purchasing Department
131 South Flood
Norman, OK 73069

(This affidavit shall accompany the bid)

Business Relationships Affidavit

State of _____

County of _____

_____, of lawful age, being first duly sworn, on oath says that (s)he is the agent authorized by the bidder to submit the attached bid. Affiant further states that the nature of any partnership, joint venture, or other business relationship presently in effect or which existed within one (1) year prior to the date of this statement with the architect, engineer, or other party to the project is as follows:

Affiant further states that any such business relationship presently in effect or which existed within (1) year prior to the date of this statement between any officer or director of the bidding company and any officer or director of the architectural or engineering firm or other party to the project is as follows:

Affiant further states that the names of all persons having any such business relationships and the positions they hold with their respective companies or firms are as follows:

(If none of the business relationships herein above mentioned exist, Affiant should so state.)

Signature of Representative: _____

Subscribed and sworn to before this _____ day of _____.

Notary Public

My commission expires

(This affidavit is required upon contract award)

Contract Affidavit

State of _____

COUNTY OF _____

_____, of
lawful age, being first duly sworn, on oath, says that (s)he is the agent authorized by dealer to submit the attached contract to the Board of Education, Norman, Oklahoma. Affiant further states that dealer has not paid, given, nor donated, or agreed to pay, give, or donate to any officer or employee of the Board of Education, Norman, Oklahoma, any money or other thing of value, either directly or indirectly in the procuring of the contract.

Signature

Subscribed and sworn before me this day:

Notary Public

My commission expires _____