

CITY OF NORTH LITTLE ROCK, ARKANSAS
COMMERCE DEPARTMENT
Mary Beth Bowman, Director
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INVITATION TO BID/PROPOSAL COVER SHEET

Bid Number : 17-3486 Date Issued: August 18, 2017
Date & Time Bid Opening: Friday, September 1, 2017 at 10:30a.m.

Exhaust Removal System for Three (3) Fire Stations

Total Project Bid Price: \$ _____

Station #8 – MacArthur Drive: \$ _____

Station #9 – Osage Drive: \$ _____

Station #10 – Highway 70: \$ _____

Plans, specifications, proposal forms and other contract documents may be examined at the following locations:

- www.nlr.ar.gov, click on the tab "Business", click on "Bids and Vendors" and then click on "Current Bids".
- Commerce Department, 120 Main Street, North Little Rock, Arkansas 72114.
- Please direct technical questions and/or comments to: Captain Jones at 501-340-5377 or bjones@nlr.ar.gov.
- General questions should be directed to the Commerce Department at 501-975-8881.

Responses to relevant questions will be posted on the Commerce web page at www.nlr.ar.gov, click on the tab "Business", click on "Bids and Vendors" and then click on "Current Bids".

The City of North Little Rock encourages participation of small, minority, and woman own business enterprises in the procurement of goods, services, professional services, and construction, either as a general contractor or sub-contractor. It is further requested that whenever possible, majority contractors who require sub-contractors, seek qualified small, minority, and woman businesses to partner with them.

If you are obtaining this bid from our website, please be reminded that addendums may occur. It is therefore advisable that you review our listings for attachments including any changes to the bid.

EXECUTION OF BID

Upon signing this page, the organization certifies that they have read and agree to the requirements set forth in this bid including conditions set forth and pertinent information requests.

Name of Firm: _____ Phone No.: _____

Tax I.D. #: _____

Business Address: _____

Signature of Authorized Person: _____

Title: _____ Date: _____, 2017

UNSIGNED COVER SHEETS STATEMENTS WILL BE REJECTED

Stations for exhaust removal system

Station Eight (8) 6550 Macarthur Drive

Station Nine (9) 2309 Osage Drive

Station Ten (10) 8800 Highway 70

North Little Rock Fire Department

REQUEST FOR PROPOSAL FOR

"VEHICLE EXHAUST EXTRACTION SYSTEM"

Guidelines for Emergency Response Vehicle Exhaust Extraction Systems

All workmanship and materials shall be in accordance with applicable codes, regulations and guidelines. The following codes, regulations and guidelines are to be considered part of these specifications and are a minimum standard of evaluations for this Hazardous Materials Exhaust System.

- NIOSH
- Underwriters Laboratory (UL)
- National Fire Protections Agency
 - (NFPA) ○ National Electric Code
 - (NEC)
 - NFPA 1500 2013 Edition
- Air Movement and Control Associations International, Inc. (AMCA)
- International Mechanical Code (IMC)
- Uniform Mechanical Code (UMC)
- American National Standards Institute (ANSI)
- American Society of Mechanical Engineers

(ASME)

____Comply ____Exception

The system shall meet the following minimum performance criteria:

- (1) The exhaust removal system must provide virtually 100% complete evacuation of all vehicle emissions (particulate, gasses and fumes) at the source from start up to exit of the apparatus from the fire station. Independent certification documents shall be provided and attached to the bid proposal. The system must be able to accommodate drive through and back-in bays to meet all the needs of the fire department.
- (2) The exhaust system shall not block doorways, exits and aisles in the apparatus bay, which could endanger the welfare of fire personnel or visitors.

____Comply ____Exception

Standard Products

Equipment and materials provided for the system installation(s) shall be manufactured and provided by the supplier of primary exhaust removal system (Equipment Manufacturer) and be a standard product of manufacturer currently engaged in the manufacture of Vehicle Exhaust Extraction Systems. Where the requirement calls for a packaged exhaust system to be provided, all items shall be the standard product of the manufacturer.

_____Comply _____Exception

Quality Assurance

The manufacturer must be ISO 9001 ; 2008 , U.L. and CUL Certified and certified by the Air Movement and Control Association (AMCA) to ensure quality, consistency and reliability of products . Certification documents shall be provided and attached to the bid proposal. All workmanship, manufacturing procedures, airflow design and materials shall be performance guaranteed. If any findings or test studies reveal improper materials, defective components or inadequate performance as outlined in the performance/technical specifications, the bidder shall remove and replace at this expense the materials in question.

_____Comply _____Exception

Manufacturer Qualifications

Bids shall only be accepted from bidder's supplying equipment from manufacturers that have an established reputation in the business of manufacturing Vehicle Exhaust Extraction Systems, with establish proof of quality , longevity and service. Equipment life of service shall meet the department's expectations for similar types of equipment. Parts Inventory must be in stock within the state.

Minimum 5-year extended warranty on total system, parts and labor.

_____Comply _____Exception

Requirements of Exhaust Extraction System

(1) Upon emergency vehicle(s) starting, the exhaust ventilation fan shall be automatically energized by the output pressure generated by any internal combustion engine and evacuate the toxic exhaust fume.

_____Comply _____Exception

(2) The nozzle must release and disconnect near the threshold of the exit door regardless of the speed the vehicle may exit the door.

_____Comply _____Exception

(3) Due to the harmful effects of diesel exhaust, the system must be designed and capable of virtually capturing 100% of the exhaust gases and particulate even in the event of a complete power failure. It must be a stand-alone system with no additional wiring.

_____Comply _____Exception

(4) The system will not detach itself from the apparatus for any reason during a power failure other than normal exiting of the apparatus bay.

_____Comply _____Exception

(5) Systems that require additional or alternate power source to eliminate detaching during power failure are not acceptable due to additional maintenance requirements.

_____Comply _____Exception

(6) To protect the apparatus electrical system from any possible damage, the system bid shall not incorporate any type of electromagnetic device that requires the apparatus to be utilized as an electrical ground for the system's operation.

_____Comply _____Exception

(7) The system will not incorporate any electromagnetic or magnetic devices that require either fastening or drilling into the side body panels or tailpipes of the fire apparatus, which could *affect* vehicle warranty.

_____Comply _____Exception

(8) Nozzle and adapter design must create a seal.

_____Comply _____Exception

(9) The manual connection of the nozzle to the tailpipe must be done from a standing position. Bending over to connect nozzle easy click and seal process, no guide chip or pin in nozzle will be acceptable due to increase of personnel's exposure to toxic diesel exhaust fume which NIOSH lists as a hazardous material.

_____Comply _____Exception

(10) All vehicle exhaust modifications shall be included.

_____Comply _____Exception

(11) The entire hose assembly must be rated for 400°F continuously.

_____Comply _____Exception

(12) A safety disconnect handle shall completely separate the lower nozzle section from the upper hose assembly. Safety disconnect coupling must be reusable. External or internal release cables or other devices which may catch or snag on firefighters gear are not acceptable.'

____Comply ____Exception

(13) The automatic control panel shall be UL listed and manufactured in accordance with Underwriters Laboratories Standard UL-508. Panel must be listed by Underwriters Laboratories and bear the UL label, including the Underwriters Laboratories file number for automatic control panel and manufacturer's name. Manufacturer of Controller should be the same manufacturer as the complete Vehicle Exhaust Extraction System, not an outside sourced item.

____Comply ____Exception

(14) Manufacturer of the Vehicle Exhaust Extraction System must manufacture within its facility all fans utilized as part of this Vehicle Exhaust Extraction System. Fan shall not be an outside sourced item.

____Comply ____Exception

(15) The upper and lower hose sections must be capable to swivel 360 degrees, allowing free flowing system operation thus allowing no tension on the hose attachment and the hose release features.

____Comply ____Exception

(16) Systems that utilize adaptors which mate with magnetic-type nozzle connection in order to secure the nozzle to exhaust pipe in a fastening mode must create a seal.

____Comply ____Exception

(17) System which require disconnection of nozzle from vehicle when working on vehicle's fuel system, recharging batteries or whenever there is a risk of inflammable dust or explosive gases are not acceptable.

____Comply ____Exception

(18) To ensure safe and effective fastening and disconnections of system at vehicle tailpipe, systems utilizing any type of magnetic attachment must be done from a standing position. Attachment can be made in any direction of the nozzle, no attachment point mandated.

____Comply ____Exception

(19) Due to safety of fire personnel, systems which require tailpipes or their adapters to protrude beyond the outside edge of chassis are not acceptable due to NFPA 1901, 2009 Requirements.

____Comply ____Exception

(20) The transition from the magnetic nozzle to the flexible hose shall be one-piece welded construction to prevent leaks of exhaust fumes.

____Comply ____Exception

(21) The spring balancer must be self-adjusting enclosed type with stainless steel cable to support hose assembly at proper height of hose during travel along the track. Systems that incorporate locking type balancers are not acceptable.

____Comply ____Exception

(22) Spring balancer must also support and keep all hose at acceptable height when vehicles are in their parked positions.

____Comply ____Exception

(23) Magnets located on nozzle must be positioned outside the airstream in the event that they may need to be adjusted or changed.

____Comply ____Exception

(24) Tailpipe adapters must be bolted onto the exhaust system, welded on adapters will be acceptable.

____Comply ____Exception

(25) The control panel shall contain the motor starter solid-state circuit card with timer adjustments from 7 to 360 seconds, fused low voltage transformer in a NEMA 12 rated key-lock electrical enclosure.

____Comply ____Exception

(26) Controls that require electrical or pneumatic devices installed on the vehicle to activate the exhaust blower are not permitted. These additional after-market devices may cause interference with original equipment and cause a delay in response time.

____Comply ____Exception

(27) Control panel must not utilize or produce electrical frequency transmission because it may interfere with communication equipment.

____Comply ____Exception

(28) Blower must provide minimum conveying velocities of 3500 to 4500 FPM and capture velocities of 5500 to 6000 FPM as required by Uniform Mechanical Code without usage of ambient air.

____Comply ____Exception

(29) Exhaust fan/blower must be manufactured and supplied by Vehicle Exhaust Extraction System's manufacturer and have prior AMCA certification.

____Comply ____Exception

(30) Duct gauge shall be a minimum 22 to 22 gauge galvanized sheet metal round spiral as outlined in the International Mechanical Code.

____Comply ____Exception

(31) All non-welded ductwork, fittings and joints must be securely fastened and sealed with a mechanical Teflon duct collar with locking bolt mechanism as required by the International Mechanical Code and the Uniform Mechanical Code.

____Comply ____Exception

(32) Back-draft damper exhaust rain cap must provide protection from rain and other inclement weather.

____Comply ____Exception

(33) System must be covered by warranty of not less than five years of full parts and labor complete.

____Comply ____Exception

(34) Training is to be provided by Bidder at the time of installation to the Fire *Staff* for the use and operation of the Vehicle Exhaust Extraction System.

____Comply ____Exception

(35) Bidder must make an on-site survey of the facility and provide a layout drawing showing location of vehicles and equipment to be supplied. This is a mandatory requirement to ensure the proposed system meets the intent of the specifications and fits within the building space. Drawing must be included with the bid.

____Comply ____Exception

**TERMS AND STANDARD CONDITIONS
CITY OF NORTH LITTLE ROCK, ARKANSAS**

PLEASE READ CAREFULLY

1. When submitting an "Invitation to Bid," the bidder warrants that the commodities covered by the bid shall be free from defects in material and workmanship under normal use and service. In addition, bidder must deliver new commodities of the latest design and model, unless otherwise specified in the "Invitation to Bid."
2. Prices quoted are to be net process, and when an error is made in extending total prices, the City may accept the bid for the lesser amount whether reflected by extension or by the correct multiple of the unit price.
3. Discounts offered will be taken when the City qualifies for such. The beginning date for computing discounts will be the date of invoice or the date of delivery and acceptance, whichever is later.
4. When bidding other than the brand and/or model specified in the "Invitation to Bid," the brand and/or model number must be stated by that item in the "Invitation to Bid," and descriptive literature be submitted with the bid.
5. The City reserves the right to reject any and all bids.
6. The Purchasing office reserves the right to award items, all or none, or by line item(s).
7. Quality, time and probability of performance may be factors in making an award.
8. Bid quotes submitted will remain firm for 30 calendar days from bid opening date; however, the prices may remain firm for a longer period of time if mutually agreeable between bidder and the Commerce Department.
9. Bidder must submit a completed signed copy of the front page of the "Invitation to Bid" and must submit any other information required in the "Invitation to Bid."
10. In the event a contract is entered into pursuant to the "Invitation to Bid," the bidder shall not discriminate against any qualified employee or qualified applicant for employment because of race, sex, color, creed, national origin or ancestry. The bidder must include in any and all subcontracts a provision similar to the above.
11. Sales or use tax is not to be included in the bid price, but is to be added by the vendor to the invoice billing to the City. Although use tax is not to be included in this bid, vendors are to register and pay tax direct to the Arkansas State Revenue Department.
12. Prices quoted shall be "Free on Board" (F.O.B.) to destination at designated facility in North Little Rock. Charges may not be added after the bid is opened.
13. In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders or split in any proportion between them at the discretion of the Commerce Department.
14. Specifications furnished with this Invitation are intended to establish a desired quality or performance level, or other minimum dimensions and capacities, which will provide the best product available at the lowest possible price. Other than designated brands and/or models approved as equal to designated products shall receive an equal consideration.
15. Samples of items when required, must be furnished free, and, if not called for within 30 days from date of bid opening, will become property of the City.
16. Bids will not be considered if they are: 1. Submitted after the bid's opening time. 2. Submitted electronically or faxed (unless authorized by Purchasing Agent).
17. Guarantees and warranties should be submitted with the bid, as they may be a consideration in making an award.
18. **CONSTRUCTION**
 - A. Contractor is to supply the City with evidence of having and maintaining proper and complete insurance, specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability and Property Damage. All premiums and cost shall be paid by the Contractor. In no way will the City be responsible in case of accident.
 - B. When noted, a Certified check or bid bond in the amount of 5% of total bid shall accompany bid.
 - C. A Performance Bond equaling the total amount of any bid exceeding \$10,000.00 must be provided for any contract for the repair, alteration or erection of any public building, public structure or public improvement (pursuant to Act 351 or 1953 as amended by Act 539 of 1979).
19. **LIQUIDATED DAMAGES** - Liquidated damages shall be assessed beginning on the first day following the maximum delivery or completion time entered on this bid form and/or provided for by the plans and specifications.
20. **AMBIGUITY IN BID** - Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance by the bidder with specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the City.
21. The bid number should be stated on the face of the sealed bid envelope. If it is not, the envelope will have to be opened to identify.
22. Whenever a bid is sought seeking a source of supply for a specified period of time for materials and services, the quantities of usage shown are estimated ONLY. No guarantee or warranty is given or implied by the participants as to the total amount that may or may not be purchased from any resulting contracts. These quantities are for the bidders information ONLY and will be used for tabulation and presentation of bid and the participant reserves the right to increase or decrease quantities as required.
23. The City of North Little Rock reserves the right to reject any and all bids, to accept in whole or in part, to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by the bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the City of North Little Rock may accept the bid for the lesser amount whether reflected by the extension or by the correct multiple of the unit price.
24. Additional information or bid forms may be obtained from:
COMMERCE DEPARTMENT, 120 Main Street, P.O. Box 5757, North Little Rock, Arkansas 72119 (501) 975-8881 www.nlr.ar.gov

Bidding documents must be submitted on or before the bid's opening date and time. Unless noted, sealed bids must be submitted to the Commerce Department at 120 Main Street, North Little Rock, AR 72114 or PO Box 5757, North Little Rock, AR 72119