CITY
OF
JOPLIN, MISSOURI

BID PACKAGE

#2018-06

for

EXHAUST REMOVAL SYSTEM FOR JOPLIN FIRE DEPARTMENT STATION #3

JOPLIN FIRE DEPARTMENT
303 E. THIRD ST.
JOPLIN, MO 64801

NOTICE TO BIDDERS

The City of Joplin, Missouri will accept sealed bid proposals until 10:00 A.M., Wednesday, July 18, 2018**,** at the Joplin Fire Department located at **303 E. Third St.,** Joplin, Missouri, 64801 to PURCHASE the following:

Air Filtration/ Exhaust Removal System for Joplin Fire Station #1

Specifications and bid forms are available from **Deputy Chief Andy Nimmo** , Joplin Fire Department, by calling **417-624-0820 ext. 1-301** or by writing to the address indicated above. Any bids received after the specified deadline will be returned to the vendor.

The City reserves the right to evaluate all bids, to reject any or all bids and re-bid at a later date. The City may waive any irregularities in the bid or negotiate variances from specifications, and make awards that are in the best interests of the City. The City will have final decision in all matters regarding acceptance of bids and issuance of awards.

The City encourages minority and female owned businesses to submit bids on all City purchases.

Leslie Haase, CPA
Finance Director

Publication Date: ***Tuesday, June 19, 2018***

INSTRUCTIONS TO BIDDERS

The City of Joplin, Missouri proposes to PURCHASE the following:

Air Filtration/Exhaust Removal System

Scope

Provide the equipment, delivery, and installation of an air filtration system as specified below. The air filtration system shall be a turnkey installation with the exception of connecting power to the system from the building.
The Exhaust Removal System shall be a 100% re-circulating, fully automatic, ceiling hung filtration system that addresses the problem of diesel/gas fumes in the fire station and does not interfere with normal day-to-day operations or vehicles. The system must be designed to evacuate diesel/gas fumes through a filtration system and re-circulation of filtered air into the bay area without exhausting contaminants to the outdoor environment. A peripheral or circular air pattern shall be used to effectively move contaminant from unit to unit. Adequate equipment must be supplied to provide eight (8) to twelve (12) air changes per hour in the entire bay area to provide quick reduction in airborne contaminant. The system shall not affect the personnel boarding the apparatus by impeding any doorways, exits, vehicles and may not consist of any form of direct vehicle attachment.

This is a prevailing wage project utilizing the most current wage order for Jasper County.

Project Description

The air filtration system shall be installed at Joplin Fire Department Station #3, located at 2717 E. Newman Rd., Joplin, MO 64801. The apparatus bay is approximately 1850 square feet and has a total of three (3) bay doors (1 pull through bay and one half bay).

Station #3 was constructed in 1983 and serves the east side of our city with one pull through bay for a large apparatus and one "back-in" style half bay for a small apparatus. Photos of the interior and layout of the building are included. See "Appendix A" for photos of bay #1 and bay #2

Dimensions of the bay area are as follows:

- Bay #1 (Pull-Through Bay): Length – 60'6"; Width – 20'; Height 18'9" to 19'9"
- Bay #2 (Half-Bay): Length – 39'; Width – 16'; Height 19'9" to 20'6"

The air filtration system shall have sufficient units to provide a total of 15,000 CFM air filtration capacity with filters installed in the unit. The system shall also be capable of providing eight (8) to twelve (12) air changes per hour.

The system shall have a control panel to provide activation and system run time per specifications below.

The system shall have a photo-eye system allowing for automatic activation with the opening and closing of apparatus bay doors as well as egress and ingress of apparatus.

The air filtration units will be ceiling suspended and will accommodate any vehicle arrangement as well as any ceiling height or ceiling construction.

Vendor Complies with above specifications: Yes_____ No_____

Specifications – Air Filtration Unit

Air filtration units shall have a cfm rating of 2700 cfm or greater with filters in place.

The cabinet shall be manufactured with 16 gauge steel or clenched or welded construction. Cabinets shall have a minimum of two (2) access panels allowing access to filter and blower compartments. Compartment access doors will be hinged for both entry to filters and motor blower compartments.

Red LED filter change indicator to be visible from the floor level and a rear visible breaker switch light.

Motor blower will be a direct-drive, 1 H.P. single phase motor of ball bearing style, dual voltage 220, 7.5 amps respectively or substantially similar option.

Vendor Complies with above specifications: Yes_____ No_____

Specifications – Filters

The filters to be used in order to capture diesel exhaust soot and gases will be a multi-stage filtration system or a substantially similar option of the following:

- Pre-Filter – rated at MERV 11 where tested in accordance with ASHRAE 522 standards and contains an extended surface pleated type 24 x 24 x 4" (NOM) or substantially similar option.
- Primary Filter – rated at MERV 16, HEPA grade air filter that will trap and retain particles to ensure personnel safety. The filter should not lose efficiency as loading occurs and will be constructed with high efficiency micro-fiberglass fibers or a substantially similar option.
- Gas-phase Filter – A carbon filter designed to filter diesel exhaust, unspent diesel fuel, sulfur-based compounds, nitric acid, and nitrogen dioxide from the air stream or substantially similar option.

Vendor Complies with above specifications: Yes_____ No_____

Specifications – Electric Control Panel

Control panel must be constructed of polycarbonate NEMA 4X rated enclosure or a substantially similar option.

- Panel must be UL or ETL certified as a complete assembly.
- Door interlock can be padlocked.
- Master system stop pushbutton on front of cover
- Run power light/motor overload indicator
- Internal programmable relay providing easy operational changes as well as small diagnostic screen for error messages.
- Auto/manual operational selector switch
- Time boost push button
- Sequenced motor starting
- Long range photo electric eye with easy set-up

Vendor Complies with above specifications: Yes_____ No_____

Operational Details

The air filtration system will be designed to operate in the following manner:

- Automatic Mode
  - Activation when a vehicle passes and blocks the photoelectric sensor for more than a few seconds, the time delay will allow for unintended startups.
  - Motor start-up will have a five (5) second delay between motors preventing a heavy power draw.
  - Motors will run for a predetermined time which can be factory set for any desired time or set in the field if necessary.
- Manual Mode
  - Motors will run continuously in manual mode
  - Manual mode may be activated from the control panel
- Time Boost
  - Provides a preset amount of run time for the motors.

Vendor Complies with above specifications: Yes_____ No_____

Warranty

Warranty information will be provided to the customer and will include a limited lifetime warranty on parts and workmanship.

Vendor Complies with above specifications: Yes_____ No_____

Ventilation

Installation of the proposed system will include:

- Any modifications to the building in order to provide for adequate ventilation
- All electrical components necessary to supply power to ventilation components

Vendor Complies with above specifications: Yes_____ No_____

Installation

Installation of the proposed system will include:

- Any assembly and installation of hanging units
- Control panel and timer and TCMM
- All electrical components from control panel to air filtration units and ventilation units
- All electrical work necessary to supply power from the buildings power supply to the control panel and ventilation components
- Photoelectric sensors and components used to break the photoelectric beam

This is a prevailing wage project utilizing the most recent prevailing wage order for Jasper County.

Vendor Complies with above specifications: Yes_____ No_____

Completion Date

Substantial completion of this project must be completed by October 31st, 2018 in order to remain within this fiscal year for the city of Joplin.

Vendor Complies with above specifications: Yes_____ No_____

MARK BID ENVELOPES: "***BID #2018-06- Air filtration / Exhaust removal system 10:00 AM, Wednesday, July 18, 2018***"

Questions concerning the specifications and bidding procedures should be directed to **Deputy Chief Andy Nimmo** , Joplin Fire Department at 303 E. Third St., Joplin, MO, 64801 or by phoning **417-624-0820 Ext. 1-301** .

Appendix A

Bay #1 – Facing South (Facing toward Front of Building)



Bay #1 Facing North (Facing Toward Back of Building)



Bay #1 Facing West (Facing Exterior Wall where likely ventilation will go)



Bay #2 Facing East (Facing Interior Wall)



Bay #2 Facing Southeast (Facing toward front of building)



Bay #2 Facing South (Facing Front of Building)



CITY OF JOPLIN

BID FORM

Description: EXHAUST REMOVAL SYSTEM FOR JOPLIN FIRE DEPARTMENT STATION #3

Amount: $_____

Company: _____

Address: _____

_____

_____

Telephone: _____

Signature: _____

MARK BID ENVELOPES: "***BID #2018-06- Air filtration / Exhaust removal system 10:00 AM, Wednesday, July 18, 2018*** "

Unauthorized Aliens Workers Act

The successful bidder will have to sign an agreement that they are enrolled and participating a Federal Work Authorization Program ("FWAP") that ensures that all of its employees or agents or subcontractors have the legal right to work in the United States, as defined in 8 U.S.C. 1324a(h)(3) and RSMo § 285.525-285.555, and that it will maintain this compliance for the entire duration of its contract with the City of Joplin, and will provide an Affidavit of Compliance to the City stating the same.

AFFIDAVIT OF COMPLIANCE
(Missouri Unauthorized Alien Workers Act)

My name is _____ (name) _____ and I am the _____ (Title) _____ of _____ (Company Name) _____. I hereby represent, affirm and certify to the City of Joplin that my company does not knowingly employ any person who is an unauthorized alien in connection with contracted services with the City. I further affirm that my company is actively enrolled and participating in a federal work authorization program with respect to all employees working in connection with the contract services provided to the City.

_____

_____

Affiant