Bid Notice

The Florissant Valley Fire Protection District is accepting sealed bids per specifications to purchase one (1) Compressor with C.O. Monitor, and (2) additional storage tanks for our system 6000 psi capacity. **(We currently have (4) tanks at 6000 psi capacity that will also be used)**. The bid should include the installation of above noted equipment. We **will be using** our current fill station as well.

All bids should be marked "SEALED BID/Compressor/Tanks" and mailed or delivered to the Fire District Administrative Office. 661 St. Ferdinand Street Florissant, Missouri 63031 between the hours of 8:00 AM and 4:00 PM Monday through Thursday and 8:00 AM and 3:00 PM on Friday

This will be open for accepting bids starting on July 8, 2022 at 08:00 and run until July 15, 2022 at 3:00 PM. The bids will be a sealed bid and be opened during the district board meeting on July 19, 2022 at 07:30 AM.

The Florissant Valley Fire Protection District reserves the right to reject any or all bids, to waive variations or formalities, and to negotiate changes, additions, or deletions. The Florissant Valley Fire Protection District reserves the right to accept the bid it deems to be in the Fire District's best interest and will not necessarily be obligated to accept the lowest bid. The Fire District also reserves the right to extend the timeframe to submit bids, as well as extending the timeframe to open the bids. If you should have any further questions, then please call 314-837-4894 and ask to speak with Battalion Chief Russell Kleffner.

The Florissant Valley Fire Protection District hereby notifies all bidders that it will affirmatively insure that in any contract entered pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for award.

Intent of Specifications:

This compressor will be used to fill the Fire Department's SCBA Cylinders.

COMPRESSOR:

The compressor shall be Made in the USA. The compressor shall have a maximum working pressure of no less than 6000 PSI and a minimum charge rate of no less than 14 CFM. Lubricated, of a 4-stage reciprocating design by high performance ball or roller bearings. Each cylinder shall be directly bathed with cooling air from the compressor's integrated cooling fan. The compressor shall be air-cooled and oil the crankshaft shall be supported at both ends The final stage piston must be of a ringed design. An intercooler shall be present between each stage of the compressor and an aftercooler after the final stage of compression. A cool-down cycle shall not be required prior to stopping the compressor. Moisture separators shall be present after each stage of compression except for the first compression stage. The compressor shall be equipped with an automatic condensates drain system. The automatic drain system shall drain the accumulated moisture from each moisture separator at a preset interval specified by the manufacturer. An exhaust muffler and condensate reservoir shall be supplied for the automatic drain system. The compressor shall be oil lubricated and have a crankcase oil capacity of no less than 3 quarts. A highly visible sight glass shall be included to check the oil level. The compressor shall include a replaceable inlet particulate filter element. The compressor shall be powered by a three-phase electric motor with a minimum rating of 10HP. The compressor block and electric motor shall be vibration isolated from the compressor's frame. Power from the motor shall be transmitted to the compressor by means of a v-belt drive system. Compressor and motor shall be mounted in a vertical configuration.

The compressor shall be equipped with the following controls:

- Magnetic contactor with thermal overload
- Push button start / stop switches
- Pressure stop switch
- Electronic carbon monoxide monitor

The compressor shall be equipped with the following gauge indicators:

● Liquid filled pressure gauge after each stage of compression

● Non-resettable hour meter

● Digital carbon monoxide level display

The compressor shall be equipped with a purification system that will provide C.G.A. Grade “E” breathing air. The purification system must have a working pressure of 6000 PSI. The system shall feature replaceable filter cartridges that are capable of filtering 24,000 Cu Ft of air @ 80° F before requiring replacement. A back-pressure regulator shall be installed downstream of the purification system to maintain positive pressure in the purification housing. The compressor shall be installed in an enclosed sound suppressing cabinet. Cabinet will have lift off panels for ease of accessing the compressor and components for service and/or maintenance. Cabinet will include labels designating the function of all mounted gauges and controls. Cabinet will be mounted on adjustable rubberized feet. Cabinet shall have a foot print no greater than 36" by 24".

CO MONITOR:

Shall consist of modular construction to facilitate maintenance and repair.

Shall continuously monitor air quality and arrest system operation if CO levels exceed safe operating levels per NFPA standards.

Shall require once annual recalibration as opposed to once monthly recalibration.

Warranty:

The compressor shall carry a minimum of a (5) five-year warranty with description of warranty and conditions

If there is any extended warranty beyond this information and pricing shall be included.

Maintenance:

Included in the bid process are options to include the necessary routine maintenance per the manufacturer's recommendations. This should include options for maintenance and pricing.

6000 psi Cascade System

● System shall consist of a total of (6) 6000 psi cylinders manufactured to UN DOT standards.

- We will be purchasing (2) two additional tanks to be used with our current (4) four.

● Consistent with UN DOT standard above, cascade bottles must be capable of operating for 10 years between scheduled hydrostatic test dates.

● Wall mounting bracket for the cascade system shall consist of unistrut bar and corresponding clamps, with all pieces to be supplied in hot dipped galvanized finish.

Does your bid comply with the specifications as written? Yes_____ NO_____

Does your proposal include an exception to this requirement? Yes_____ NO_____

Anti-Collusion Statement

By signing this bid, the bidder agrees that the bid is made without any agreement with any other person or firm making a bid to the Florissant Valley Fire Protection District.

This bid form shall be filled out and returned with the bid.

Name of Bidder_____

Company_____

Address_____

City/State/Zip Code_____

Terms_____

Pricing

Compressor_____ (2) tanks_____

Installation_____

Extended warranties_____

Maintenance_____

Does your bid have any exceptions, clarifications, or variances from our specifications?

Yes_____ NO_____

If yes, please include a separate summary sheet to explain

Signature of Bidder_____

Title_____

Date_____