

# **BEECHER FIRE PROTECTION DISTRICT**

## **BID SPECIFICATIONS** **Breathing Air Supply System**

### **BREATHING AIR COMPRESSOR (HIGH PRESSURE) STORAGE SYSTEM FILL STATION**

**Contact Information:**

Chief Joe Falaschetti  
Deputy Chief Michael Heusing  
(708) 946-6585 Office

**Return Bid:**

"Breathing Air Supply System"  
Beecher Fire Protection District  
Administrative Office  
711 Penfield Street  
Beecher, IL 60401

**Bid Due:**

**Monday, October 11<sup>th</sup>, 2021 at 10:00 A.M.**

**Bid Opening**

Monday, October 11<sup>th</sup>, 2021 at 10:00 A.M.

**BEECHER FIRE PROTECTION DISTRICT  
BREATHING AIR SUPPLY SYSTEM**

Bid Quotation

The \_\_\_\_\_,  
company provides the following quoted prices to supply, deliver and install the  
"Breathing Air Supply System" as described and specified for:

A. Breathing Air Supply System (complete) \$ \_\_\_\_\_

B. Trade-in allowance (current system) \$ \_\_\_\_\_

Final Price Quote (line A minus line B) \$ \_\_\_\_\_

If approved, the above named company will deliver the system within \_\_\_\_\_  
days after the receipt of a sign purchase order. After the receipt of the signed purchase  
order, the company will complete installation and testing of the "Breathing Air Supply  
System" within \_\_\_\_\_ days.

I the undersigned, as a duly authorized representative of the above named company do  
hereby acknowledge that I have received, read and understand the provisions of the  
bid specifications. Furthermore, I do hereby attest the submitted bid complies with  
these specifications and requirements to the best of my knowledge. In addition, I have  
duly noted any deviations or exceptions from these published specifications and have  
provided documentation as to their being equal to or superior to the item(s) specified.  
Furthermore, I am aware of the specific clauses within the specifications as they relate  
to performance and testing and the subsequent penalties therein.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name

**BEECHER FIRE PROTECTION DISTRICT  
BREATHING AIR SUPPLY SYSTEM**

Bid Quotation  
Options

The \_\_\_\_\_ Company provides the following quotations for options contained within the specifications for a "Breathing Air Supply System".

<b>OPTION</b>	<b>Option Pricing</b>
Upgrade compressor to a minimum of 18 CFM @ 6000 psi	\$
Upgrade storage system from a minimum of four (4) ASME 6000psi cylinders to a minimum of six (6) ASME cylinders @ 6000 psi	\$
Extend full manufacturer's warranty (per year) Up to _____ years	\$
Provide an extended service contract for all system components (complete) Per year. Up to _____ years	\$

## **Request for Bids**

NOTICE IS HEREBY GIVEN by the President of the Board of Trustees for the Beecher Fire Protection District, Will County, Illinois, that sealed proposals will be received for consideration of the following:

### **BEECHER FIRE PROTECTION DISTRICT BREATHING AIR SUPPLY SYSTEM**

Bids will be received until 10:00 a.m. on October 11th, at the Beecher Fire Protection District Administrative Office, 711 Penfield Street, Beecher, IL, 60401 between the hours of 8am – 4pm Monday - Friday. The Fire District reserves the right to refuse to issue bid packets and forms to any person, firm or corporation that it considers to be unqualified. Proposals must be submitted in the manner specified and on the appropriate forms. Sealed bids should be submitted clearly marked "Breathing Air Supply System".

Specifications for the breathing air supply system are available from the Beecher Fire Protection District Administrative Office during regular business hours. Interested parties may obtain these specifications in person or by submitting a request to the Beecher Fire Protection District. The Beecher Fire Protection District will not be held responsible if parties do not receive a bid packet.

Bids will only be considered from companies that have an established reputation in the field and have been in business for a period of five (5) years or more.

Each bidder shall furnish satisfactory evidence of their ability to construct and install the system specified and shall state the location of the factory where the apparatus is to be built. They shall also show they are in a position to render prompt service and to furnish replacement parts for all aspects of the proposed system.

Each bidder shall be required to submit with their bid, "**Contractor Specifications**" consisting of a detailed description of the Breathing Air Supply System and all equipment proposed. These specifications shall indicate size, type, model and make of all component parts and equipment.

The Beecher Fire Protection District reserve the right to reject any and all bids, waive irregularities in bids and make award in the best interest of the fire district.

Bidders will also furnish sufficient insurance or guaranty of indemnity to the Beecher Fire Protection District, against any and all claims which might arise for damages to persons or property due to negligence of themselves, their employees or their agents during the provision of the services included under this contract.

## **General Terms and Conditions:**

The Beecher Fire Protection District is seeking bids for the delivery and installation of a new high pressure (6000 psi) breathing air supply system. This system will include a breathing air compressor, storage system and containment type fill station.

The present system is operating and is located in the fire station at 711 Penfield Street Beecher, Illinois 60401. The present system consists of a breathing air compressor, two (2) bottle storage system and a fill station.

It is not the intention of these specifications to eliminate vendors or manufacturers of similar or equal equipment than those within these specifications. It shall be noted however, these specifications are designed to meet the needs of the Beecher Fire Protection District.

In the event these specifications call for specific items or brand names this has been done to establish a certain expected standard of quality. Other brands will be accepted, providing the vendor/manufacturer documents how the other brand meets or exceeds the quality described within these specifications. The Fire District reserves the right to accept or reject any and/or all bids, as the deem them to be in the best interest of the Fire District.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

### **Exceptions:**

Any exceptions to these specifications will be clearly and plainly documented. Otherwise, it will be considered that the items offered are in full and strict compliance with these specifications and that the successful bidder will be responsible for delivery and installation of a breathing air supply system that meets these specifications.

All exceptions will be marked as such within the body of the bid and fully explained on a separate page clearly marked "EXCEPTIONS".

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

### **Bid Documents:**

To make the evaluation of the bids as efficient and effective as possible, all bidders shall submit the following documentation. This documentation will be submitted in the appropriate order.

The Beecher Fire Protection District reserves the right to accept bids which are not in the appropriate order or to reject bids which do not lend themselves to efficient comparison to these specifications.

The documentation which shall be provided with each bid and the assigned order for this documentation is as follows;

- Letter of introduction
- Bid quotations
- Option quotations
- Warranties
- Reference list
- Estimated delivery and installation timetable
- Product specifications
- System Diagram
- Product literature

Bidders may choose to supply additional documentation, which shall be placed after all required documentation

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**Trade-in:**

All bids shall include the trade in of the fire districts current SCBA re-fill system, including compressor, fill station and storage system. This system includes;

**A Scott Health & Safety multi-stage compressor, 2 bottle storage system and Revolve Air fill station.**

This trade in is a "as is, where is" trade in and the successful bidder will remove the equipment immediately prior to the delivery and installation of the new system. The final timetable for this process must be approved by the fire district.

The trade in does not include any fill whips, low-pressure hoses, high-pressure hoses, hose connections or valves as designated by the fire district.

The amount of the trade in allowance will be clearly defined in the bid documents. The Beecher Fire Protection District reserves the right to retain the afore mentioned equipment in lieu of the trade in allowance.

**Does Your Bid Comply?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

# **Breathing Air Supply System**

## **General:**

The system will be turn-key complete, assembled and tested and include a high pressure, efficient breathing air compressor, electric drive motor, cartridge type purification system, electronic cartridge monitoring system, air moisture content monitor, operation and control panel(s), storage system and containment type fill station. This will also include all hoses, fittings and adapters needed for complete installation and operation.

The location of all compressor controls shall be clearly defined and detailed, as will all controls necessary for the safe and efficient operation of the proposed system.

All compressors shall in semi-enclosed chassis, insulated for sound control. All service areas of the unit will be readily accessible.

The compressor block, chassis and purification system are to be the same manufacturer's entire brand. The preferred configuration shall be vertical.

In order to provide a system which will function efficiently and effectively for the Beecher Fire Protection District, components of this system will be located in the same location. It is the responsibility of the bidder to account for this location and necessary materials within their total bid to assure proper system function.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

## **System Components – Proposed Locations:**

The Beecher Fire Protection District proposes to locate the components in the SCBA Room of the fire station in a location similar to its present system.

The prospective bidder is encouraged to perform a site visit to ascertain the location of the current equipment, the space available, the ambient air source, electrical capabilities and other similar details.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

## **Compressor:**

### **General:**

This system will be designed to refill self-contained breathing apparatus and be comprised of at least three (3) main sub-systems. These include, but are not limited to; the compressor, the purification system, and fill station. In addition to these main sub-systems the proposal shall be required to provide a reserve storage system as well.

The compressor will be designed to require minimal maintenance and provide suitable air for fire service usage. The system shall provide air to a minimum of "**Grade E**" which meets or exceeds all NFPA requirements and standards.

The compressor block is to be of a design suitable for heavy-duty fire-service use. All bearings are to be of roller or ball design, with no sleeve bearings at any wear point. The crankcase and rods shall be made of a high-strength alloy.

The compressor will have a minimum capacity of not less than 13 CFM at 6000 psi and the bidder will supply the option of upgrading this capacity to a minimum of 18 CFM or higher at 6000 psi at the time of purchase.

The compressor will consist of active stages and be capable of generating 6000 psi in the normal course of operation. The status and pressure of each stage will be monitored and clearly displayed to the operator.

All components shall be new and of the manufacturer's latest model line at the time of the bid. All aspects of the submitted bid will meet applicable standards (NFPA, OSHA) including all components, sub-components and installation aspects.

The supply air for the compressor shall be piped to the outdoors atmosphere, through piping in place or supplied and installed by the supplier. The piping shall meet the requirements of the compressor manufacturer. See requirements for air inlet.

The bidder will supply, deliver and install a compressor sub-system with the following features or meeting the following requirements.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

### **Features:**

Each of the proposed compressors will incorporate the following features for safe, efficient and effective operation.

1. Cabinet and framework to be of all steel construction.
2. Insulated cabinet for sound attenuation.
3. Hinged access panels will be provided to allow easy access for servicing.



4. A fully enclosed cabinet for added operator safety.
5. Automatic start/stop control.
6. Emergency stop switch
7. Pressure gauges for all stages.
8. Oil pressure gauge.
9. Hour meter (non-resetting).
10. Cartridge monitor.
11. Minimum capacity of 13 CFM at 6000 psi.
12. Piston rings on all stages.
13. Fully automatic condensation drain with container.
14. Integrated carbon monoxide and moisture monitors.
15. ISO 9000 certification is desirable.

Air inter-cooler coils are to be provided between each stage of compression and an after-cooler will provide an air temperature of no more than 15 degree F above ambient temperature.

Safety valves and moisture accumulators are to be provided. The system will be rated for continuous operation and not require any intermittent duty cycles or unloaded running periods.

The compressor block will be rated at a minimum of 7250 psi and at 6000 psi be working at no more than 85% of its rated capacity.

The compressor is to be mounted on vibration isolating pads both between the compressor and the chassis and the chassis and the floor.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**Motor:**

The compressor will be powered by a single-phase electric motor of suitable horsepower to provide for years of worry free service. The drive motor shall be of a commonly available brand. The motor will be designed and matched to the particular electrical needs and supply of the Beecher Fire Protection District. The bidder is responsible to assure the motor is compatible with the electrical system at the Beecher Fire Protection District.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**Electrical System:**

Bidders will examine the current single-phase electrical supply box for suitability to their installation. If the system is not suitable to the needs of the new system, the bidder will be responsible for securing a licensed electrician to upgrade the service as needed. The costs involved in such an upgrade will be included in the total bid pricing.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

**Air Inlet:**

Bidders will provide an outside air inlet and supply for intake into the breathing air supply system. This will allow the system to obtain air from outside of the building; free from any interior airborne contaminants.

Due to the location of the compressor for the breathing air supply system the department already has an external air inlet system in place for its current compressor. This PVC piping is in place to provide an outside air source. Bidders will determine if this fresh air supply inlet is suitable for their proposed compressor unit and its needs.

If the current system is suitable, the successful bidder will perform modifications to the current system to allow it to supply air to the new compressor. If the current system is marginal or unsuitable to the new system, the bidder will be required to install a new suitable system in place of the existing system. The costs for the modifications or installation of new systems will be included in the bid price for the total project.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

**Air Purification System:**

**General:**

The compressor shall have a self-contained air purification sub-system capable of providing air at "**Grade E**" quality and meeting or exceeding all NFPA requirements and standards.

A minimum of a dual cartridge purification system will be provided, rated to provide at least 150,000 cu.ft. of air to the standard of CGA Grade E or better. The purification system chambers shall be preceded by a final moisture separator, which will include a micron particulate filter. An automatic backpressure valve will be provided to maintain a consistent minimum pressure in the purification system.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

**Cartridge Mounting:**

The purification system shall be built to preclude the improper installation of cartridges. The design and mounting of the purification system will be such as to allow for the fast and easy replacement of all cartridges.

Replacement purification cartridges are to be stocked at all times by the supplier of the system or their service company and shall be readily available on short notice.

This system shall be provided with monitoring and test equipment to assist in maintaining air quality. This system will monitor the filter cartridges and have the ability to monitor carbon monoxide. The system shall provide a warning light 3-6 hours before a cartridge is spent and in need of replacement. The system will provide for an automatic shut-down with no by-pass available to allow the system to function with spent cartridges.

Any malfunction of the monitoring system shall cause the unit to shut-down.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**Moisture Monitor:**

The purification system and compressor will be supplied with an electronic moisture monitor and automatic condensate drain with reservoir.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**Control Panel:**

The control panel for the operation of the compressor shall be located in a position approved by the fire department. Such location shall be in a safe and protected position and contain the required controls as detailed previously.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**Fill Station:**

**General:**

The fill station will be located in the SCBA Room of the fire station. This will provide the optimum location for use by fire district personnel.

The final location of the fill station will be in a position agreed upon by both parties. The fill station and location will meet manufacturer recommendations and the fire districts final approval

The fill station will be designed and constructed for safety, convenience and durability. The fill station will accommodate a minimum of 2 SCBA or SCUBA tanks for filling, individually or simultaneously (3 positions or more is preferred). An inter-lock system

will be provided within the fill station to prevent filling of any tank unless the door is completely closed and locked.

The fill station shall be a class 2 containment style. The fill station will be capable of total fragmentation containment. The fill station will be constructed and tested to protect operators and bystanders from a potential catastrophic failure of an SCBA cylinder or hoses during the refill process. Baffles will be integrated into the containment section of the fill station to change the flow of the air blast and to reduce the violence of the airflow.

The fill station will have a minimum of two (2) fill positions (3 preferred) within the station to enable refilling. These stations should be capable of refilling both 2216 psi and 4500 psi SCBA cylinders. Additionally, this system shall be capable of refilling SCUBA cylinders as well. The fill station should allow the connection to the departments Scott quick connection cylinders and be able to be adapted for standard GCA cylinders for equipment outside of the department. Accommodation should also be made to allow the filling of SCUBA type cylinders at the fill station.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**Features:**

The fill station proposed will have the following minimum features;

- Steel frame and construction
- Sliding, pivoting or rotating access door
- Automatic safety interlock to prevent cylinder filling unless the door is locked
- To-from valves for air management
- Back flow prevention
- Bleeder valves

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**Valving, Gauges and Controls:**

The effective, efficient and safe use of the fill station is largely determined by the valves, gauges and controls available to the operator. To that end the Beecher Fire Protection District desires a system which allows the operator to fully monitor the operation of the fill station. Though not all of the following controls may be required, they may prove to be helpful in this respect.

- |                        |  |
|------------------------|--|
| Master inlet gauge     | Bank control valves (as needed)              |
| Master fill gauge      | Master regulator (adjustable 0 – 6000 psi)   |
| Individual fill gauges | Individual fill location control valves      |
| Bleeder valves         | Pressure relief valves (2216 psi / 4500 psi) |

All gauges are to be liquid filled. The panel will be clearly and permanently labeled for ease of operation.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

**Automatic Fill:**

If available, the supplier will quote the option of making the fill station automatic fill capable. This option would allow the operator to pre-select the appropriate pressure for the cylinder being filled and then simply push a button or activate a single valve to accomplish refilling. The system shall optimize the filling process by allowing the storage system to directly fill SCBA cylinders through the automatic sequencing valve network.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

**Auxiliary Outlets and Hoses:**

The fill station will be supplied with a suitable quick-connect auxiliary outlet to provide for the fire districts special use needs. The primary special need required by the fire district is the ability to refill a vehicle mounted mobile cascade if needed in the future.

The system will be provided with a hose reel for use on the apparatus floor for air tools, tire filling, etc. This hose set up will be pre-piped with the necessary hose, reel and provided with the appropriate connections. The hose will be on a reel with a minimum of 100-feet of hose of a diameter to meet the department's needs.

The auxiliary outlet(s) will be provided with separate control valve(s) as required by the fire district for safe and efficient operation. A high-pressure supply hose of sufficient length and with the appropriate fittings will be supplied to facilitate the refilling process for a mobile cascade.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

**Hoses and Adapters:**

The approved provider shall supply and install all necessary hoses and adapters to facilitate the appropriate, efficient and safe use of the system. This will include, but is not limited to; fill whips, remote/mobile cascade fill hose, SCUBA fill adapters and all necessary inter-connection hoses, fittings and hardware.

At least one adapter shall be provided to allow the refilling of SCUBA cylinders inside of the fill station. This adapter will meet the manufacturer requirements for such a task.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

## **Storage System:**

### **General:**

A suitable storage system will be provided for use with the breathing air supply system. The storage system will have a minimum of four (4) ASME approved cylinders with a minimum working pressure of 6000 psi. Each cylinder will be fully ASME approved and provided with an individual control valve.

The above described storage system shall be required to completely fill/re-fill thirty (30), 30 minute, 4500 psi SCBA cylinders without requiring the compressor to activate.

A control valve will be provided to isolate the storage system from the compressor and purification system. This will allow the use of the compressor and purification system to re-fill the mobile cascade without have to involve the stationary storage system.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

### **Mounting:**

The approved bidder will deliver and install an approved mounting system for the storage system. This system will securely mount each of the storage cylinders for safety and to prevent cylinder damage. Such a system will securely maintain the cylinder in the designed position and location, while not causing damage to the cylinders in the process. The system will provide for sufficient cylinder separation as required and provide appropriate separation from any potential corrosion causing elements.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

### **Cylinder Marking:**

All of the cylinders provided, as part of the storage system shall be clearly marked to identify them as "Breathing Air". Each of these cylinders will also be clearly marked as to the cylinder number within the storage system (i.e. 1 – 4).

Such markings shall be of a contrasting color and be of a minimum of 3 inches in height and easily read by the system operator.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

**Cylinder Testing:**

All cylinders supplied for the storage system shall be new and unused, lightweight ASME approved storage cylinders. All cylinders will have a minimum working pressure of 6000 psi.

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

**Required Standards:**

Bidders are required to meet or exceed all applicable standards with regards to the equipment, operation and installation of the proposed system(s). These standards include, but are not limited to; The Compressed Gas Association, National Electrical Code, BOCA Building Code, OSHA Regulations, IDOL Regulations and all applicable NFPA Standards (NFPA 1989 2019 edition, etc).

**Does Your Bid Comply ?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

**Delivery and Installation:**

The supplier shall be responsible for all costs incurred in the delivery and installation of the breathing air supply system. The successful supplier will also be responsible for the off-loading, uncrating, placement and the full installation of the breathing air supply system. The supplier will also be responsible for the proper disposal of trash and other materials associate with this process.

The bidder shall include a delivery date in the bid. This date shall allow the manufacturer of the system enough time to properly install and test the breathing air supply system at the Beecher Fire Protection District. The desired delivery period is between November 1, 2021 and April 1, 2022.

The bidder shall provide all materials and labor to completely install an operating unit that meets the design specifications herein outlined. This includes all electrical connections for the breathing air supply system. We encourage the bidder to verify compatibility with existing electrical systems found at the fire station and to assure their ability to effectively install said system.

Aspects of this system are intended to be installed in the fire station. All equipment will be installed in locations approved by the fire district. Bidders are strongly encouraged to perform a site visit so that they may become familiar with the location and understand the fire districts issues related to this installation.

Though a site visit is not a requirement of the bid process, the Beecher Fire Protection District will not be held responsible of any additional aspects or costs incurred by the bidder. This is true whether the bidder performs a site visit of not.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**Installer:**

The supplier of this unit shall provide a factory certified delivery and installation technician. This will allow for a thorough on-site mechanical and operational check of the entire system by this technician. An installation checklist documenting the installation and inspection process will be provided for the purchaser's files.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**System Testing/Inspection/Certification:**

Upon completion of the delivery and installation of the approved system, the supplier shall complete and document any required system testing, inspections or certifications. This may include, but is not limited to; building inspections, electrical inspections, air quality testing and other similar inspections.

Once the installation is complete, the supplier shall perform a complete and thorough air quality assurance test and provide documentation to the fire district of the results of this testing.

The air quality assurance test will be equal to or superior to the districts current testing. This testing will be performed by an approved service, one that is not directly associated with the supplier. The test will be performed under the name and with the approval of the Beecher Fire Protection District, and the results provided directly to the fire district office.

The costs for any testing, inspections, or certification of the system will be borne by the supplier, until the final installation of the system is accepted by the fire district.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_



## **Miscellaneous:**

### **Manuals:**

A complete set of manufacturer's instruction and maintenance manuals shall be provided for each aspect of the system upon completion of delivery and installation. These manuals will provide all necessary information on the proper use, safety precautions, maintenance and other necessary information on components within the system. These manuals may be provided via electronic media.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

### **Training:**

A qualified engineer representing the contractor shall be available for a minimum number of three (3) days to instruct the fire district personnel in the proper operation care and maintenance of the equipment delivered.

The training will cover the safe use and maintenance of the breathing air system and its components. Such training will be scheduled with the fire district, with the goal of providing training to all of the district's staff. A minimum of two training days and one training night for the district will be provided.

One copy of all training materials utilized for these sessions will be provided to the fire district as a reference. This includes, but is not limited to; outlines, student handouts, notebooks, multi-media presentations and video presentations.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

### **Replacement Filters:**

After the initial delivery, set-up and certification of the system, the successful bidder will supply one (1) full set of replacement filter as required by the manufacturer for all components within the system. This includes, but is not limited to; oil filters, air purification filters and any other potential filters requiring changing.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

## **Warranty Requirements:**

The equipment supplied shall be guaranteed to be new, of current design, and free of all defects in material and workmanship for a period of one year, based on prescribed service and maintenance.

The minimum acceptable warranty for the delivery and installation of the entire breathing air supply system shall be one (1) year, parts and labor for on-site repairs. No exceptions to this requirement are allowed.

An additional one (1) year of parts only warranty will also be required for a total parts warranty period of not less than two (2) years. This is not to be confused with an extended warranty. A five (5) year warranty on the compressor block is desirable and should be provided if available

The initial warranty period shall not require the purchaser to be responsible for any charges for checks or repairs on the supplied breathing air supply system. This includes, but is not limited to; travel, parts, labor, filter failure, etc. All work is to be performed on-site. Any supplier who does not meet the terms of this section shall clearly provide the terms of their warranty and the period for such warranty.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

## **Options:**

### **(1) Compressor Upgrade:**

This option involves upgrading the physical aspects of the proposed compressor sub-system to provide a minimum of 18 cubic feet per minute at 6000 psi. This further includes any necessary upgrades required to other sub-systems to accommodate this increase.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

### **(2) Storage System Upgrade – Quantity:**

This option increase the minimum quantity of storage cylinders from four (4) to six (6) ASME approved 6000psi, lightweight storage cylinders. This further includes increasing the capacity of the approved storage rack.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**(3) Fill Station Upgrade – Auto-fill:**

This option provides for an automated methodology of controlling the re-fill process on SCBA cylinders. It would eliminate the need for the operator to adjust a regulator for the purpose of re-filling 2216-psi and 4500-psi SCBA cylinders. This operation would be performed simply by pressing the appropriate button on the console or by activating the appropriate valve.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**(4) Extended Warranty:**

This option involves extending the manufacturers or distributors warranty against defects in materials, workmanship and installation in one-year increments (if available). The proposal will define what is covered under each additional 12 months of warranty and the cost for each 12-month extension period.

**Does Your Bid Comply ?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

**(5) Service Contract:**

This option provides complete required service on all supplied and installed equipment by the manufacturer or the distributor on a yearly basis. The proposed annual cost will include all necessary parts, labor and travel to accomplish routine maintenance and emergency repairs during the specified period. This would include any necessary filters, oil or other parts required to perform maintenance or repairs. This would also include quarterly air quality testing for "CGA Grade E". The proposal will define the cost for each 12-month period of the service contract and the number of years the service can be acquired at this annual price.

**Does Your Bid Comply?**                      **Yes:** \_\_\_\_\_                      **No:** \_\_\_\_\_

## **Supplier / Contractor Requirements:**

### **INSURANCE REQUIREMENTS**

Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damage to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, their agents, representatives, employees or subcontractors.

#### **A. Minimum Scope of Insurance**

Coverage shall be at least as broad as:

1. Insurance Services Office Commercial General Liability occurrence form CG 0001 (Ed. 11/85) with the member named as additional insured; and
2. Owners and Contractors Protective Liability (OCP) with the member named as additional insured; and
3. Insurance Service Office Business Auto Liability coverage form number CA 0001 (Ed. 10/90 or newer), Symbol 01 "Any Auto".
4. Workers' Compensation as required by the Labor Code of the State of Illinois and Employers' Liability insurance.

#### **B. Minimum Limits of Insurance**

Contractor shall maintain limits no less than:

1. Commercial General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. The general aggregate shall be twice the required occurrence limit. Minimum General Aggregate shall be no less than \$2,000,000 or a project/contract specific aggregate of \$1,000,000.
2. Business Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage.
3. Workers' Compensation and Employers' Liability: Workers' Compensation coverage with statutory limits and Employers' Liability limits of \$1,000,000 per accident.
4. Builder's Risk: Shall insure against "All Risk" of physical damage, including water damage (flood and hydrostatic pressure not excluded), on a completed value, replacement cost basis.

### **C. Deductibles and Self-Insured Retentions**

Any deductibles of self-insured retentions must be declared to and approved by the member. At the option of the member, either: the insurer shall reduce or eliminate such deductibles of self-insured retentions as respects the member, its officials, agents, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration and defense expenses.

### **D. Other Insurance Provisions**

The policies are to contain, or be endorsed to contain, the following provisions:

#### **1. General Liability Coverage and Automobile Liability Coverage**

- a. The member, its officials, agents, employees and volunteers are to be covered as insureds as respects: liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, leased or used by the Contractor; or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the member, its officials, agents, employees and volunteers.
- b. The Contractor's insurance coverage shall be primary as respects the member, its officials, agents, employees and volunteers. Any insurance or self-insurance maintained by the member, its officials, agents, employees and volunteers shall be excess of Contractor's insurance and shall not contribute with it.
- c. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the member, its officials, agents, employees and volunteers.
- d. The Contractor's insurance shall contain a Severability of Interests/Cross Liability clause of language stating that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with the respect to the limits of the insurer's liability.

#### **2. Workers' Compensation and Employers' Liability Coverage**

The insurer shall agree to waive all rights of subrogation against the member, its officials, agents, employees and volunteers for losses arising from work performed by Contractor for the municipality (negotiable—may not be needed on smaller contracts with limited exposure).

### 3. All Coverages

Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, cancelled, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the member.

#### E. **Acceptability of Insurers**

Insurance is to be placed with insurers with a Best's rating of no less than A-, VII and licensed to do business in the State of Illinois.

#### F. **Verification of Coverage**

Contractor shall furnish the member with certificates of insurance naming the member, its officials, agents, employees and volunteers as additional insureds, and with original endorsements affecting coverage required by this clause. The certificates and endorsements may be on forms provided by the member and are to be received and approved by the member before any work commences. The attached Additional Insured Endorsement (Exhibit A) shall be provided to the insurer for their use in providing coverage to the additional insured. Other additional insured endorsements may be utilized, if they provide a scope of coverage at least as broad as the coverage stated on the attached endorsement (Exhibit A). The member reserves the right to request full certified copies of the insurance policies and endorsements.

#### G. **Subcontractors**

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

#### H. **Indemnity/Hold Harmless Provision**

To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify and hold harmless the member, its officials, agents and employees, against all injuries, deaths, loss, damages, claims, patent claims, suits, liabilities, judgements, cost and expenses, with may in anywise accrue against the member, its officials, agents and employees, arising in whole or in part or in consequence of the performance of this work by the Contractor, its employees, or subcontractors, or which may in anywise result therefore, except that arising out of the sole legal cause of the member, its agents or employees, the Contractor shall, at its own expense, appear, defend and pay all charges of attorneys and all costs and other expenses arising therefore or incurred in connections therewith, and, if any judgment shall be

rendered against the member, its officials, agents and employees in any such action, the Contractor shall, at its own expense, satisfy and discharge the same.

Contractor expressly understands and agrees that any performance bond or insurance policies required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the member, its officials, agents and employees as herein provided.

**Does Your Bid Comply?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_

## **NONDISCRIMINATION AND EQUAL EMPLOYMENT OPPORTUNITY**

A. This Equal Employment Opportunity Clause is required by the Illinois Human Rights Act and the Rules and Regulations of the Illinois Department of Human Rights published at 44 Illinois Administrative Code Section 750, et seq.

In the event of the contractor's non-compliance with the provisions of this Equal Employment Opportunity Clause or the Act, the contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance of this contract, the contractor agrees as follows:

- 1) That he or she will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status or an unfavorable discharge from military service; and, further, that he or she will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any underutilization.
- 2) That, if he or she hires additional employees in order to perform this contract or any portion of this contract, he or she will determine the availability (in accordance with this Part) of minorities and women in the areas from which he or she may reasonably recruit and he or she will hire for each job classification for which employees are hired in a way that minorities and women are not underutilized.
- 3) That, in all solicitations or advertisements for employees placed by him or her or on his or her behalf, he or she will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental

disability unrelated to ability, military status or an unfavorable discharge from military service.

- 4) That he or she will send to each labor organization or representative of workers with which he or she has or is bound by a collective bargaining or other agreement or understanding, a notice advising the labor organization or representative of the contractor's obligations under the Act and this Part. If any labor organization or representative fails or refuses to cooperate with the contractor in his or her efforts to comply with the Act and this Part, the contractor will promptly notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations under the contract.
- 5) That he or she will submit reports as required by this Part, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Act and this Part.
- 6) That he or she will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Act and the Department's Rules and Regulations.
- 7) That he or she will include verbatim or by reference the provisions of this clause in every subcontract awarded under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply with the provisions. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

B. Contractor shall comply with Executive Order ("E.O.") 11246, "Equal Employment Opportunity," as amended by E.O 11375, and as supplemented by regulations at 41 CFR Part 60, in the event that this contract is subject thereto.

**Does Your Bid Comply?**

**Yes:** \_\_\_\_\_

**No:** \_\_\_\_\_