



Hamburg Township Public Safety Department

PO BOX 157 · HAMBURG, MICHIGAN 48139
PHONE: (810) 231-9391 · FAX: (810) 231-9401

EMAIL: HATP@hamburg.mi.us

RICHARD DUFFANY, DIRECTOR OF PUBLIC SAFETY



TO: Hamburg Township Board
FROM: Chief Richard Duffany
DATE: February 1, 2023
RE: Agenda Item Topic: **Purchase of SCBA Fill Station**
General Ledger #: **206-000.000-980.000**
Number of Supporting Documents: 1
NEW/OLD BUSINESS: **XXX** New Business

Requested Action

- Motion to approve the purchase of an SCBA Fill Station as outlined in the RFP specifications from Allied Fire Sales & Service of Spring Lake, MI at a cost of \$65,250.00.

Background

The fill station at Station 11 used to refill Self-Contained Breathing Apparatus (SCBA) equipment for firefighters is scheduled to be replaced in FY 22/23. On December 12, 2022, three RFP packets were sent out to preferred vendors as determined by Deputy Director Newton and Deputy Chief Jordan Zernick. Each vendor was emailed the bid specification. The vendors chosen were:

1. Allied Fire Sales & Service
16194 144th Ave
Spring Lake, MI 49456
2. Breathing Air Systems
8855 E Broad St
Reynoldsburg, OH 43068
3. Macqueen Emergency Equipment
350 Austin Circle
Delafield, WI 53018

The vendors were given until Friday, January 13, 2023 to submit a bid to the Township. As of the date/time of closing of acceptance of bids, three bids were received. One from each of the listed vendors. On January 18, 2023, the three bids were opened and discussed by the Hamburg Township Fire command staff. The three vendors submitted the following bids:



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1. Macqueen Emergency Equipment
Arctic Air 1500 Compressor System; \$52,124.36

2. Allied Fire Sales & Service
Eagle Air Systems – Baron Compressor \$65,250.00

3. Breathing Air Systems
Bauer Unicus4 \$66,310.00

The RFP that was sent to each vendor contained a number of specific requirements in order to be an acceptable bid. After our discussion, the command group agreed that the bid provided by Macqueen Emergency Equipment should be removed from consideration because it failed to meet several of our bid specifications. Specifically, their system:

- a. Is not UL Listed.
- b. Has no auto shut-off.
- c. Comes as three standalone components (instead of one).
- d. Does not include a mechanism for containment of fragments if there was an explosive condition with the air storage bottles.

After deciding to remove the Macqueen bid, the Fire command staff discussed the pros & cons of the remaining two bids. HTFD currently utilizes an Eagle Air Systems fill station at Station 11. We have successfully used this system for over 20-years. Based on our successful past experience with Eagle Air Compressors and Allied Fire Sales & Service, as well as being the next lowest bid, I respectfully request that we accept their bid of \$65,250.00 and enter into a contract for this service.

Budget Impact

The cost of this purchase is included in the adopted FY 22/23 budget (206-000.000-980.000 – Capital Equipment) and will not adversely affect the FY 22/23 budget.

Respectfully,

Chief Richard Duffany
Director of Public Safety



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Hamburg Township Public Safety
Fire Division
Specifications and Request for Proposal 2022

Issue Date: December 5, 2022

Proposal Deadline: January 13, 2023 at 3:00 PM

Hamburg Township Public Safety - Fire Department
Deputy Director Jeffrey Newton
10100 Veterans Memorial Dr. PO Box 157
Hamburg, MI 48139
jnewton@hamburg.mi.us



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EQUIPMENT SPECIFICATIONS AND INSTRUCTIONS FOR BID

GENERAL BID REQUIREMENTS

The Hamburg Township Public Safety Department is accepting sealed bids for the furnishing of all necessary labor, equipment and material necessary for the purchase, installation and delivery of a Self-Contained Breathing Apparatus (SCBA) Fill Station (Cascade System). Pricing shall be submitted in an itemized format.

Description of Project:

We are seeking a standalone self-contained unit that meets the following specifications:

1. Meets NFPA 1989: Standard on Breathing Air Quality for Emergency Services Respiratory Protection, 2008 and NFPA 1500: Standard on Fire Department / Occupational Safety and Health Program); the Occupational Safety and Health Administration; UL; and the Compressed Gas Association.
2. Must meet or exceed the requirements of CGA Pamphlet G-7 (Grade "E"), Compressed Air for Human Respiration, ANSI/CGA G-7.1, Commodity Specification for Air, Grade E and Grade D, and any other recognized standards for SCBA breathing air.
3. At a minimum, the air storage system should consist of four interconnected storage banks and be designed to fill three (3) or more SCBA cylinders either independently or simultaneously.



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4. The cylinder fill stations should include a minimum of three fill hoses — two with connectors for both 2,216-psi and 3,000-psi SCBA cylinders; and one 4,500-psi connector necessary for refilling SCUBA cylinders.
5. Each fill hose is equipped with a bleed valve and SCBA fill adapters that can accommodate the cylinders listed above.
6. Air-cooled reciprocating four-stage compressor powered by at least a 10-HP motor.
 - a. The compressor must be capable of continuous duty at 6,000 psi working pressure with a charging rate of at least 14 scfm (standard cubic feet per minute).
 - b. The compressor must not vent oil-contaminated air to the atmosphere.
 - c. Must have a separator at each stage of compression.
 - d. Must have a coalescing separator after final stage of compression
 - e. Each separator must have an Automatic Condensate Drain System (ACDS)
 - f. The ACDS must unload the compressor on shutdown
 - g. Must include manually operated valves that can override the ACDS
7. The electrical control system and all electrical components must be approved by UL, the National Electrical Manufacturers Association or the International Electrotechnical Commission.
8. The "on/off" selector switch that, when in the "on" position, automatically starts and stops the compressor motor to maintain the system's operating pressure between the high and low set points of the final pressure switch.
9. The electrical panel must monitor the oil pressure using a pressure switch and pressure gauge; should the compressor's oil pressure drop below the factory preset value during operation,



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10. The compressor should shut down and a fault light on the instrument panel should illuminate
11. The control panel should include, at a minimum:
 - An automatic storage bypass system
 - A manual control valve and pressure gauge for each storage bank
 - An adjustable regulator for SCBA cylinder fill pressure with a pressure gauge for inlet and regulated pressure, and a relief valve to protect the SCBA cylinders from overfilling
 - A manual control valve and pressure gauge for each fill position, and provisions for factory or field modification to allow a different fill pressure at each fill position.
12. The system must include a mechanism to contain the cylinder and any fragments of the cylinder and vent the expanding air away from the operator in the unlikely event of a cylinder rupturing while being filled.



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SUBMISSIONS

Those wishing to be considered for this contract shall submit two (2) written copies and (1) electronic (PDF) copy of their bid. Sealed bids must be received at the following location no later than **3:00 p.m. January 13, 2023**

Physical Address:
Hamburg Township Clerk's Office
C/O Jeffrey Newton,
Deputy Director - Hamburg Twp. Fire
PO Box 157
Hamburg, MI 48189

Telephone: (810) 222-1100 Ext. 104
Direct Line: (810) 222-1104
Email: jnewton@hamburg.mi.us

Mailing Address:
PO Box 157
Hamburg, MI 48139

Questions regarding these specifications should be directed to Hamburg Township Deputy Director, Jeffrey Newton, at the above listed contact information.

PROPOSAL SEQUENCE

Bid specifications shall be submitted in the same sequence as these specifications for ease of checking compliance. There shall be no exceptions allowed to this requirement.