

**Bid Package for the purchase of
Self-Contained Breathing Apparatus
and Related Equipment for
Weathersfield Township, Village of Cortland,
Village of Lordstown, and Village of McDonald
Fire Departments**

All bids must be received at

Weathersfield Township

1451 Prospect Street, Mineral Ridge, Ohio 44440

No later than: Tuesday, November 20th, 2019 at 2:00 P.M. EST

All envelopes must be clearly marked on the outside: SCBA Bid

LEGAL NOTICE

ADVERTISEMENT FOR BIDS

The Board of Trustees of Weathersfield Township, Trumbull County, Ohio, is seeking bids for the purchase of eighty-three (83) self-contained breathing apparatus (SCBA) and associated accessories that meet NFPA 1981 (2013 ed.). Bids will be accepted until 2:00 P.M. EST on Tuesday, November 20th, 2018, at the Township Administration Building located at 1451 Prospect Street, Mineral Ridge, Ohio 44440, and will be publicly opened immediately thereafter.

Copies of the Invitation to Bid, specifications, bid bond and contract forms are available at the Township Administration Building and on the Township website www.weathersfieldtwp.org.

This procurement is funded in part with federal funds through the FY17 Assistance to Firefighters Grant through FEMA. All bidders shall be held to specific federal conditions of this purchasing process, outlined in the bidding documents. The Township reserves the right to accept or reject any or all proposals, to waive any informalities or irregularities in the bids received and will award the contract to the lowest and best bidder, as determined by the Board.

Fred Bobovnyk, Fiscal Officer
Weathersfield Township Board of Trustees

Instructions for Submitting Bids

1. Weathersfield Township, Village of Cortland, Village of Lordstown, and Village of McDonald seek bids for the furnishing and delivery of eighty-three (83) self-contained breathing apparatus (SCBA) and associated accessories that meet NFPA 1981 (2013 ed.) on the terms and conditions specified herein. This procurement is funded in part with federal funds through the FY17 Assistance to Firefighters Grant through FEMA. The Weathersfield Township Board of Trustees is the contracting party for this Invitation to Bid ("ITB").
2. All bids must be received at Weathersfield Township, 1451 Prospect Street, Mineral Ridge, Ohio 44440. All bids must be received no later than: Tuesday, November 20th, 2018 at 2:00 P.M. EST Each bid must be submitted in a sealed envelope marked "SCBA Bid". Each bid must be properly completed, signed by the bidder and accompanied by one copy of all necessary support documentation, including the executed non-collusion and other required affidavits. Signature on a bid certifies that the bidder has read and fully understands all bid specifications, terms, and conditions. Bids must be printed for legibility.
3. Once opened, all bids are firm and cannot be altered. Once a contract is awarded, the vendor shall deliver at the prices and terms quoted. Unless otherwise stated, all bids shall remain valid for a period of sixty (60) calendar days after the bid opening date.
4. Bids may be withdrawn in writing on company letterhead and signed by an authorized representative received prior to bid opening deadline. Bids may also be withdrawn in person before bid opening upon presentation of appropriate identification.
5. A copy of the Invitation to Bid may be obtained at the Weathersfield Township Administration Building, 1451 Prospect Street, Mineral Ridge, Ohio 44440 or on the Township website www.weathersfieldtp.org.
6. Bids shall be publicly opened at the Weathersfield Township Administration Building, starting at the scheduled date and time of opening. All bids will be opened and read. Bids are subject to the Public Records Law, Section 149.43 of the Ohio Revised Code.
7. Weathersfield Township reserves the right to accept or reject any or all bids, in whole or in part, and may determine that any irregularities or deviations from the specifications do not result in the bid being non-responsive, provided however, that Weathersfield Township determines that this does not affect the amount of the bid or result in a competitive advantage to the bidder.
8. The Contract shall be awarded to the lowest and best bidder who meets or exceeds the bid specifications, as determined by the Weathersfield Township Board of Trustees. The lowest price shall be determined based on the lump sum bid. The individual unit item prices shall be utilized only as optional add-ons to the contract.
9. Any pre-bid questions or inquiries must be submitted via email to Dave Rouan, Weathersfield Township Administrator, drouan@weathersfieldtp.com and received no later than seventy-two hours prior to the scheduled bid opening. The issuance of an addendum is dependent upon the information received and the impact on the competitive bid process. All pre-bid inquiries must contain the following information:
 - Name of Sender
 - Company Name
 - Phone Number
 - A Detailed Description of the Question
 - Any other Pertinent Information.

Bidders are not to contact any other office for responses to pre-bid questions.

10. Modification(s), amendment(s), and/or supplements to this ITB will only be by written addendum issued by the Board. The Board will furnish modification(s), amendment(s), and/or supplement(s) to all prospective bidders who have notified Dave Rouan, Weathersfield Township Administrator, drouan@weathersfieldtwp.com that they are interested in bidding. Should the Board issue a modification, amendment, and/or supplement, the submission deadline, at the discretion of the Board, may be extended, if appropriate, to accommodate changes in bid content.
11. Weathersfield Township, Village of Cortland, Village of Lordstown, and Village of McDonald Fire Departments are exempt from federal excise taxes and all state and local taxes.
12. Each prospective Bidder shall be an equal opportunity employer. In fulfilling the obligations and duties of the Contract, the Contractor shall comply with all federal, state, and/or local non-discrimination laws. The Contractor shall not discriminate against any employee or applicant for employment on the basis of race, religion, national origin, color, creed, gender, sexual orientation, age, Vietnam-era Veteran status, handicap, or disability, as defined in the Americans with Disabilities Act.
13. The Contractor agrees to comply with all applicable state and federal laws regarding drug-free workplace and shall have established and have in place a drug-free workplace policy.
14. Small and Minority Businesses and Women's Business Enterprises are encouraged to respond to this ITB.
15. Equipment manufactured by a Company that is headquartered in the United States of America is preferred. Systems that are built using 100% American parts supplied from American vendors are preferred. A Buy America Affidavit must be provided.
16. Each bid must be accompanied by a proposal Guaranty comprised of a Bid Bond or a cashier's check, certified check, or irrevocable letter of credit equal to 5% of the bid price conditioned that the bidder, if the bidder's bid is accepted, shall execute a contract in conformity with the ITB. Bid security furnished in bond form shall be issued by a surety company or corporation licensed in the State of Ohio to provide said surety. All security shall be in favor of the Weathersfield Township Board of Trustees, Trumbull County, Ohio. The successful bidder shall execute and deliver, within ten (10) days of the award, a Performance and Payment Bond in the amount of 100% of the bid price. The Bond shall provide for a 100% guarantee that the bidder provides the SCBAs pursuant to the specifications bid.
17. By submitting a bid, the Bidder certifies that it has no outstanding findings for recovery pending or issued against it by the State of Ohio.
18. Campaign Finance Certification. Ohio Revised Code Section 3517.13 I(3) and J(3) require that no political subdivision shall award any contract for the purchase of goods or services with a cost aggregating more than ten thousand dollars in a calendar year to a corporation, business trust, individual, partnership or other unincorporated business, association, including, without limitation, a professional association organized under Chapter 1785 of the Revised Code, estate, or trust unless the political subdivision has received for that calendar year, or the Contract includes, a certification that the individuals named in Revised Code Sections 3517.13(I)(1) and (J)(1) are in compliance with the aforementioned provisions. The successful bidder, therefore, will be required to submit a certificate/affidavit entitled "Certification/Affidavit in Compliance with O.R.C. Section 3517.13."
19. Exceptions to the specifications of the SCBA's shall be listed on a separate sheet(s) specifying any exception to a particular item or section of the specifications. Exceptions and deviations

shall be described in full detail. If an exception or deviation would result in a substitution of a similar product, part, or item, the substituted product, part, or item should be explained in detail. Exceptions or deviations shall reference the paragraph and page of these specifications where the excepted specification appears. Drawings, photographs, and technical information about the exception or deviation and any substituted product, part, or item shall be included with the bid. The exceptions and deviations will be considered as a part of the evaluations of the bids. Decisions concerning exceptions are within the sole discretion of the Board and shall be final.

20. All bids shall include a complete set of detailed manufacturer's specifications. Submission of a bid constitutes the bidder's affirmation that the product bid meets all specifications of this ITB. All deviations, no matter how slight, must be clearly explained. These specifications are based upon design and performance criteria which have been researched and analyzed by the Fire Department. Therefore, major exceptions to these required specifications will not be accepted.
21. Any product that is bid must have current NIOSH and NFPA approval at the time of the bid opening. Any product that is not approved but is bid will be grounds for rejection of that bid.
22. Prices are to be based upon the products or services being delivered to the appropriate Fire Department, with all transportation and handling charges prepaid by the bidder. Responsibility and liability for loss or damage shall remain with the bidder until final inspection and acceptance. Delivery shall be made within 90 days of the award of the contract.
23. Products shall be delivered to Weathersfield Township, the Village of Cortland, the Village of Lordstown, or the Village of McDonald, as applicable.
24. All equipment shall be guaranteed new, of current new manufacture, to meet all requirements of these specifications, and be suitable for the intended use. All workmanship shall be of high quality and accomplished in a professional manner so as to ensure a functional SCBAs. The contractor selected warrants all equipment and supplies delivered to be free from defects in labor, material, and manufacture.
25. By submitting a bid, the Bidder certifies and warrants that the Bidder has obtained and maintains current all approvals, licenses, including operator licenses, certifications, and/or other qualifications (collectively "Licenses") necessary to provide all of the Services required pursuant to this ITB and to conduct business in the state of Ohio and that all such Licenses are operative and current and have not been revoked or are not currently suspended for any reason.
26. To ensure full dealer support for service after the sale, the selling dealer must be capable of providing full factory service when required. The bidder must state the location of its nearest authorized service center.
27. The Contractor may not sub-contract or assign any portion of this Contract without express written approval of the Board.
28. Before delivering the SCBA to the fire department, a function test shall be performed on each SCBA. This shall be a complete function test as required by CFR 29 1910.134. This shall be a complete function test; not just a flow test. This is to ensure the SCBA are in complete working order when delivered. Upon delivery, a copy of the computer-generated report shall be provided with each unit to verify that each unit has been tested.
29. The successful bidder shall prepare the equipment for operation including but not limited to the installation of batteries, attachment of brackets, and filling of cylinders.
30. The bid shall include certification documents that verify the units bid meet the current NIOSH

and NFPA standards in effect at the date of the bid opening.

31. The successful bidder shall provide initial fit testing for 157 members of the fire departments. The fit testing shall be done with an OHD machine and comply with quantitative fit testing protocol. A computer-generated report must be provided to the department.
32. The successful bidder shall provide basic operations/orientation training classes to all members of the four fire departments. A description of how this training will be performed shall be included in the proposal.
33. The successful bidder shall provide a field level and technician level maintenance training class to five (5) members of each department. An explanation of how this will be done shall be included in the proposal.
34. All Bidders must submit a Statement of Qualifications in the form attached.

General Specifications and Quantities

General Self-Contained Breathing Apparatus Requirements

The purpose of this bid specification is to establish the minimum requirements for an open-circuit self-contained breathing apparatus (SCBA). The SCBA shall consist of the following major sub-assemblies: (1) full facepiece assembly; (2) a removable, facepiece-mounted, positive pressure breathing regulator with airsaver switch; (3) an automatic dual path redundant pressure-reducing regulator; (4) end-of-service time indicators; (5) a harness and backframe assembly for supporting the equipment on the body of the wearer; (6) a shoulder strap mounted, remote gauge indicating cylinder pressure; (7) a rapid intervention crew/universal air connection (RIC/UAC); and (8) cylinder and valve assembly for storing breathing air under pressure.

The successful bidder agrees to provide, at their own expense, a factory trained instructor for such time as the respirator user shall require to provide complete instruction in the operation and maintenance of the respirator. Any exceptions to these specifications must be detailed in a separate attachment. Failure to do so will automatically disqualify the bidder.

The successful bidder must be a sales distributor, authorized by the manufacturer, to sell the equipment specified herein. A document from the manufacture confirming this must be included with the bid.

The SCBA shall maintain all NIOSH standards with any of the following types of cylinders listed as provided by the SCBA manufacturer.

Regulatory Approvals

1. The SCBA shall be approved to NIOSH 42 CFR, Part 84 for chemical, biological, radiological and nuclear protection (CBRN).
2. The SCBA shall be compliant to the NFPA 1981, 2013 Edition, Standard on Open-Circuit Self-Contained Breathing Apparatus for Emergency Services.
3. The SCBA shall be compliant to the NFPA 1982, 2013 Edition (if including optional PASS Device), Standard on Personal Alert Safety Systems.
4. If the SCBA is to include an optional integrated self-rescue device, the device shall be compliant to the NFPA 1983, 2012 Edition, Standard on Life Safety Rope and Equipment for Emergency Services.
5. All electronic components shall be approved for Intrinsic Safety under UL 913 Class I, Groups C and D, Class II, Groups E, F and G, Hazardous locations.

Required Components

Facepiece (Quantity: 157)

1. The facepiece shall have a large diameter inlet serving as the female half of a quarter (1/4) turn coupling which mates with the positive pressure breathing regulator.
2. The facepiece shall be approved for use with multiple respiratory applications to enable the same user to switch from one application to another without the use of tools and without doffing the facepiece.
3. The full facepiece assembly shall fit persons of varying facial shapes and sizes with minimal visual interference.
4. The full facepiece assembly shall be available in three sizes marked "S" for small, "M" for Medium and "L" for large.
5. The facepiece sizes shall be easily identifiable through a color coding scheme.
6. The facepiece assembly, including head harness, shall be latex free.
7. The facepiece series shall have a faceséal that is secured to the lens by a U-shaped channel frame that is retained to the lens using two fasteners.
8. The faceséal shall be a reverse reflex design for enhanced fit and comfort.
9. The facepiece shall contain inhalation valves that are readily visible to enable quick visual inspection.
10. The lens shall be a single, replaceable, modified cone configuration constructed of a non-shatter type polycarbonate material.
11. In accordance with NIOSH 42 CFR part 84, the facepiece meets penetration and impact requirements, including compliance with ANSI Z87.1 – 2010.
12. The lens shall have a coating to resist abrasion and chemical attack and meet the requirements of NFPA-1981, for lens abrasion.
13. The lens shall have an internal anti-fog coating to reduce fogging of the lens.
14. Multi-directional voicemitters shall be mounted on both sides of the facepiece and ducted directly to an integral silicone nose cup to enhance voice transmission.
15. The facepiece assembly shall be able to incorporate multiple electronic communications options (amplification, radio interface, radio direct interface) without affecting NIOSH approvals or NFPA/CBRN approvals where applicable.
16. The facepiece shall enable the installation of communications bracket on either the right or left side.
17. The head harness shall be available in a five-point suspension made in the fashion of a net hood to minimize interference between securing of the facepiece and the wearing of head protection.
18. The head harness shall be available in a five-strap and four-strap configuration.
19. The head harness shall be constructed of a para-aramid material for fire, first responder and CBRN applications.
20. The head harness shall include either a positioning strap or an integrated handle to assist with donning of the facepiece.
21. Two flame resistant elastic straps, attached to the faceséal in four locations, shall provide adjustment for proper face sealing.

Mask-Mounted Regulator (Quantity: 83)

1. The facepiece-mounted positive pressure-breathing regulator shall supply and maintain air to the facepiece to satisfy the needs of the user at a pressure greater than atmospheric by no more than 1.5 inches of water pressure static.
2. The breathing regulator shall maintain positive pressure during flows of up to 500 standard liters per minute.
3. The regulator shall also meet or exceed a dynamic flow requirement of remaining positive while supplying a minute volume of 160 liters.
4. The breathing regulator shall have attached a low pressure hose which shall be threaded through the left shoulder strap to couple to the pressure-reducing regulator mounted on the backframe.
5. An optional regulator shall be available with a quick connect coupling in line for use with the optional outlet manifold and accessory hose to allow the breathing regulator to be disconnected from the unit and reconnected to the auxiliary hose of a second unit in the event rescue is required.

6. The optional quick connect coupling shall be easily connected and disconnected by trained individuals with a gloved hand and/or in low light conditions.
7. The optional quick connect coupling shall not allow the air hose to be connected without the HUD Connection.
8. The optional coupling shall also be guarded against inadvertent disconnect during use of the equipment.
9. The low-pressure hose shall be equipped with a swivel attachment at the facepiece mounted regulator.
10. The regulator shall connect to the facepiece by way of a quarter (1/4) turn coupling.
11. The user shall hear an audible sound when the regulator is attached correctly to the facepiece.
12. The regulator shall be equipped with a doughnut-shaped gasket which provides a seal against the mating surface of the facepiece.
13. The regulator cover shall be fabricated of a flame resistant, high impact plastic.
14. The breathing regulator shall have a demand valve to deliver air to the user, activated by a diaphragm responsive to respiration.
15. The demand valve shall use an extended temperature range dynamic O-ring seal composed of a fluorosilicone elastomer.
16. The diaphragm shall include the system exhalation valve and shall be constructed from a high strength butyl elastomer.
17. A purge valve shall be situated at the inlet of the breathing regulator and shall be capable of delivering airflow of between 125 and 225 standard liters per minute.
18. The breathing regulator shall be designed to direct the incoming air through a spray bar and over the inner surface of the facepiece lens for defogging purposes.
19. The components of the breathing regulator shall be constructed of materials that are not vulnerable to corrosion.
20. The flame resistant cover shall contain an air saver switch and pressure demand bias mechanism.
21. The regulator shall reactivate and supply air only in the positive pressure mode when the wearer affects a face seal and inhales.
22. This device shall not affect the breathing flow through the system while in operation.

Pressure Reducer with Snap-Change Cylinder Connection (Quantity: 83)

1. The pressure-reducing regulator shall be mounted at the waist on the backframe and be coupled to the cylinder valve through a patented stainless steel quick connect snout for engagement and sealing within the cylinder valve outlet.
2. The cylinder shall be secured to the pressure-reducing regulator with two pull-rings 180° from each other.
3. A stainless steel rod shall secure each of the pull-rings to prevent removal of the cylinder while the SCBA is pressurized.
4. The stainless steel rods shall be actuated when the cylinder is opened and when cylinder pressure is above 30 psig.
5. In lieu of a manual by-pass, the pressure-reducing regulator shall include a back-up pressure-reducing valve connected in parallel with the primary pressure-reducing valve and an automatic transfer valve for redundant control.
6. The back-up pressure-reducing valve shall also be the means of activating the low-pressure alarm devices in the facepiece-mounted breathing regulator.
7. This warning shall denote a switch from the primary reducing valve to the back-up reducing valve whether from a malfunction of the primary reducing valve or from low cylinder supply pressure.
8. A press-to-test valve shall be included to allow bench testing of the back-up reducing valve.
9. The pressure-reducing regulator shall have extended temperature range dynamic O-ring seals composed of fluorosilicone elastomer.
10. The pressure-reducing regulator shall have incorporated a reseatable over-pressurization relief valve which shall prevent the attached low pressure hose and facepiece-mounted breathing regulator from being subjected to high pressure.

End-of-Service Time Indicator (EOSTI) (Quantity: 83)

1. The SCBA shall have two end-of-service time indicators (EOSTI). A tactile alarm and a Heads-Up Display (HUD).
2. The primary EOSTI shall be the integral low-pressure alarm device that shall combine an audible alarm with simultaneous vibration of the facepiece.
3. The primary EOSTI shall be located in the Facepiece-Mounted Positive Pressure Regulator.
4. This alarm device shall indicate either low cylinder pressure (33% +5%, -0%) or a malfunction of the primary pressure-reducing valve (first stage regulator).
5. The HUD shall serve as the secondary EOSTI.
6. The HUD shall be powered by the SCBA's single power supply.
7. It shall be mounted in the user's field of vision on the Facepiece Mounted Positive Pressure Regulator.
8. It shall display cylinder pressure in increments of 100%, 75%, 50% and 33%.
9. The display shall not have a numerical representation of cylinder pressure.
10. At full cylinder pressure, two green Light Emitting Diodes (LED) shall be illuminated.
11. At three-quarter cylinder pressure, one green LED shall be illuminated.
12. At one-half cylinder pressure, one "yellow" LED shall be illuminated and flash at a rate not to exceed one (1x) time per second.
13. At one-third cylinder pressure, one "red" LED shall be illuminated and flash at a rate not to exceed ten (10x) times per second.
14. The HUD shall have a low battery indication that is distinct and distinguishable from the cylinder pressure indications.

Harness and Backframe Assembly (Quantity: 83)

1. A lightweight, lumbar support style backframe and harness assembly shall be used to carry the cylinder and valve assembly and the pressure-reducing regulator assembly.
2. The backframe shall be a solid, one-piece black powder-coated aluminum alloy frame that is contoured to follow the shape of the user's back.
3. The backframe shall include a shroud to streamline hose and wire management by minimizing exposure of the low pressure hose and electronics molded cable.
4. The backframe shall include a mounting for the pressure reducer located at the waist.
5. The backframe shall include an over-the-center, adjustable tri-slide fixture, a para-aramid strap and a double-locking latch assembly to secure 30, 45, 60, or 75 minute cylinders.
6. The backframe shall include a mounting area suitable for installation of a distress alarm integrated with the SCBA.
7. The mounting area shall permit installation of a distress alarm sensor module in an area between the pressure reducer and the backframe.
8. The harness assembly shall include a waist pad and shoulder pads constructed of an outer shell material and incorporating a closedcell foam design to minimize water absorption.
9. The harness assembly shall incorporate parachute-type, quickrelease buckles with an integrated bail to prevent the webbing from loosening. Optional spring (alligator) clips shall also be available.
10. The harness assembly shall consist of a one size black para-aramid strap with two red stripes along the outer edges and a reflective stripe in the center.
11. The harness assembly shall include a seat-belt type waist belt attachment.
12. This harness assembly shall include box-stitched construction with no screws or bolts.
13. The harness assembly shall be easily removable from the backframe without the use of tools.
14. The harness assembly shall be machine washable to help reduce contamination.
15. The harness assembly shall accommodate a waist belt extension.
16. The waist pad shall be attached to the backframe such that movement by the wearer provides natural articulation.
17. Articulation shall be accomplished without the use of mechanical devices.
18. The waist pad and belt shall freely wrap around and conform to the wearers' hips.
19. The shoulder harness shall be fitted with a Drag Rescue Loop (DRL) capable of being deployed in an emergency situation to drag a downed firefighter to safety.

20. The Drag Rescue Loop (DRL) shall be sewn into the shoulder harness assembly and shall provide a horizontal pull strength of 1000 lbs.
21. The Drag Rescue Loop (DRL) shall be stored in a manner to prevent accidental snag, but maintain accessibility with gloved hands.
22. The shoulder harness shall be attached to the backframe such that the harness presents itself for ease of donning.
23. The shoulder harness shall include reflective material to enhance the visibility of the wearer in low-light conditions.
24. The shoulder harness shall accommodate two distinct positions for a chest strap attachment.
25. The shoulder harness shall accommodate a mounting clip for attachment of a handheld radio remote speaker microphone.
26. Rapid Intervention Crew / Universal Air Connection (RIC/UAC)
27. The SCBA shall incorporate a RIC/UAC fitting to be compliant with the 2013 edition of the NFPA 1981 Self-Contained Breathing Apparatus standard.
28. The RIC/UAC shall be an integral part of the pressure reducer and protected by the backframe.
29. The RIC/UAC inlet connection shall be within 4" (4-inches) of the tip of the CGA threads of the cylinder valve.
30. The RIC/UAC shall consist of a connection for attaching a highpressure air source and a self-resetting relief valve allowing a higher pressure than that of the SCBA to be attached to the SCBA.
31. The self-resetting relief valve shall be color-coded to identify pressure rating of the SCBA.
32. The RIC/UAC shall have a check valve to prevent the loss of air when the high-pressure air source has been disconnected.

Cylinder (Quantity: 166)

1. The cylinder threads shall be straight with an O-ring or quad-ring gasket type seal.
2. The cylinder valve shall be a "fail open" type, constructed of forged aluminum and designed such that no stem packing or packing gland nuts are required.
3. It shall contain an upper and lower seat such that the pressure will seal the stem on the upperseat, thus preventing leakage past the stem.
4. No adjustment shall be necessary during the life of the valve.
5. The cylinder valve shall be designed with a patented stainless steel quick connect snout that delivers air directly to the first stage pressure-reducing regulator. The quick connect snout shall be an integral part of the cylinder valve, rather than an adapter that threads onto the CGA fitting.
6. The cylinder valve shall be offered with a CGA 346 or CGA 347 fitting for the purposes of filling the cylinder only.
7. The fill fitting shall have a check valve to prevent flow from the cylinder.
8. The fill fitting shall be provided with a dust cover to protect threads from damage and prevent interior surfaces from being contaminated when not in use.
9. The dust cover shall be retained to the cylinder valve.
10. Each cylinder valve shall consist of the following: 1) a hand activated valve mechanism with a spring-loaded, positive action, ratchet type safety lock and lock-out release for selecting "lock open service" or "non-lock open service"; 2) an upstream connected frangible disc safety relief device; 3) a dual reading pressure gauge indicating cylinder pressure at all times; 4) an elastomeric bumper; 5) an angled outlet.
11. The cylinder valve shall have an RFID tag molded into the elastomeric bumper with a universal RFID marking embossment.
12. The RFID tag shall be capable of storing product specific information, including serial number, manufacture date, hydrostatic test date, pressure rating, life expectancy, and fill logs.
13. The SCBA shall maintain all NIOSH and NFPA standards with any of the following types of cylinders listed as provided by the SCBA manufacturer.
14. The cylinder shall be manufactured in accordance with DOT specifications and meet the Transport Canada requirements with working pressures of 2216, 4500, or 5500 psig.
15. The cylinder shall be lightweight, composite type cylinder consisting of an aluminum alloy inner shell, with a total overwrap of carbon fiber, fiberglass and an epoxy resin.

16. The cylinder shall have a 2D barcode located under the protective gel coat programmed with the following information, at a minimum: serial number, manufacture date, and hydrostatic test date.
17. The cylinder shall be available in 45-minute duration based on the NIOSH breathing rate of 40 liters per minute (lpm).

Console (Quantity: 83)

1. The console shall be located on the user's right shoulder harness.
2. The console shall contain an integral edge lit mechanical pressure gauge that is automatically turned on by opening the cylinder valve.
3. The console shall display to the user the following:
4. Pre-Alarm: alternating red flashing LED's;
5. Full Alarm: dual flashing red LED's and a flashing PASS icon;
6. Low Battery: red flashing LED's;
7. Normal System Operation: flashing green LED.
8. The console shall contain a photo sensing diode to dim and brighten the HUD as the ambient lighting changes.
9. The console shall contain an integrated RFID tag.
10. The console shall contain push buttons for user interface.
11. The push buttons shall be designed to minimize accidental activation.
12. A yellow color-coded push button shall permit system re-set.
13. A red color-coded push button shall permit manual activation of the full alarm mode.
14. The console shall be equipped with a LED "External HUD" allowing others to determine the wearer's cylinder pressure through the same color-code scheme as the regulator-mounted HUD.
15. A green LED shall be illuminated across the gauge face to indicate a cylinder with greater than half cylinder pressure.
16. A yellow LED shall be illuminated across the gauge face to indicate a cylinder with less than half cylinder pressure.
17. A red LED shall be illuminated across the gauge face to indicate a cylinder with less than one-third cylinder pressure.

Sensor Module (Quantity: 83)

1. The system shall include a sensor module mounted to the SCBA backframe and located in an area between the cylinder and backframe in a manner designed to protect the assembly from damage.
2. The sensor module shall contain a motion sensor that is sensitive to user hip movement to reduce false activations.
3. The sensor module shall contain redundant, dual sound emitters for the audible alarm and dual visual "buddy" indicators.
4. The sensor module sound emitters shall be oriented in multidirections for optimal sound projection.
5. The sensor module sound emitters shall broadcast a unique alarm tone for the following conditions: Pre-alarm PASS, Full-alarm PASS, EVAC, System Integrity, PAR, and Low-battery.
6. The visual indicators on the backframe mounted sensor module shall flash green during normal operation.
7. The visual indicators shall flash red when the device is in prealarm and full-alarm.
8. The visual indicators shall flash orange when the SCBA has reached one-half cylinder pressure.
9. The visual indicators shall flash a combination of red, green, and white when the SCBA has reached one-third cylinder pressure.
10. The sensor module shall have a Bluetooth chip set integral to the unit to provide wireless connectivity to external devices.

Warranty

1. The unit shall be covered by a warranty providing protection against defects in materials or workmanship.
2. This warranty shall be for a period of 10 years on the SCBA, except for the pressure reducer, which shall be covered for 15 years.

3. This warranty shall not have any exclusions other than consumables and carrying cases.
4. This warranty shall not require a registration in order to activate.
5. This warranty shall not be contingent upon completing mandatory overhaul or recommended preventative maintenance.

Certification

The bidder certifies that all of the General Self-Contained Breathing Apparatus Requirements, the Regulatory Approvals, and the Required Components Specifications have been met or are exceeded.

WEATHERSFIELD TOWNSHIP FIRE DEPARTMENT SELF-CONTAINED BREATHING APPARATUS AND RELATED EQUIPMENT PROPOSAL

The Bidder hereby proposes to provide the **WEATHERSFIELD TOWNSHIP FIRE DEPARTMENT SELF-CONTAINED BREATHING APPARATUS AND RELATED EQUIPMENT** :

Company Name _____

Address _____

Item	Quantity
Facepiece	157
Mask-Mounted Regulator	83
Pressure Reducer with Snap-Change Cylinder Connection	83
End-of-Service Time Indicator	83
Harness and Backframe Assembly	83
Cylinder	166
Console	83
Sensor Module	83
Warranty, Training, Delivery etc.	
<u>Total Bid Price</u> \$ _____	

The following pricing is offered for individual items which will be optional add-ons if additional quantities are purchased.

Item	Unit Price
Facepiece	\$
Mask-Mounted Regulator	\$
Pressure Reducer with Snap-Change Cylinder Connection	\$
End-of-Service Time Indicator	\$
Harness and Backframe Assembly	\$
Cylinder	\$
Console	\$
Sensor Module	\$

Signed: _____

Print Name: _____ Title: _____

Phone Number: _____ Email: _____

STATEMENT OF BIDDER'S QUALIFICATIONS

1. Name of Bidder _____

2. Bidder's address _____

3. When organized? _____

4. Where incorporated? _____

5. How many years have you been engaged in the business of providing SCBA equipment under the present firm name? _____ Years

6. Have you ever failed to complete any work awarded to you?

Yes _____ No _____. If "Yes", attach a statement showing where and why.

7. Have you ever defaulted on a contract with a public entity?

Yes _____ No _____. If "Yes", attach statement showing where and why.

ATTACH THE FOLLOWING ITEMS:

1. A statement of the Bidder's experience in the performance of work similar to this project.
2. Evidence of the Bidder's applicable technical experience.
3. Evidence of the Bidder's ability to provide the apparatus specified.
4. Evidence that the Bidder is in position to render prompt service and to furnish replacement parts for the apparatus.
5. A complete set of detailed manufacturer's specifications.
6. Certification documents that verify the units bid meet the current NIOSH and NFPA standards in effect at the date of the bid opening
7. A description of the batteries used by the SCBA. The description shall include the size of battery, recommended battery manufacturer, estimated battery life before the battery needs to be changed, current cost of replacement batteries, and how the battery is used in the SCBA.
8. A complete description of how warranty and/or service work will be accomplished. A description or photographs showing the bidder's in-house SCBA repair capabilities shall be included with the proposal. The bidders nearest authorized service center is located at:

9. Any exceptions to these specifications must be detailed in a separate attachment. Failure to do so will automatically disqualify the bidder.
10. The successful bidder must be a sales distributor, authorized by the manufacturer, to sell the equipment specified herein. A document from the manufacture confirming this must be included with the bid.

PERFORMANCE-PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

That we (1) _____ a
(2) _____, Hereinafter called "Principal" and
(3) _____ Of _____,
State of _____ hereinafter Called the "Surety", are held and firmly
bound unto (4) _____,
hereinafter called "Owner" in the penal sum of _____
Dollars (\$ _____) in lawful money of the United States, for the payment of
which sum well' and truly to be made, we bind ourselves, our heirs, executors, administrators, and
successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain
contract with the Owner, dated the _____ day of _____, 20____, a copy of
which is hereto attached and made a part hereof for the furnishing of:

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the
undertakings, covenants, terms, conditions, and agreements of said contract during the original term
thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the
Surety, and if he shall satisfy all claims and demands incurred under such contract, and shall fully
indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of
failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may
incur in making good any default and shall promptly make payment to all persons, firms, subcontractors,
and corporations furnishing materials for or performing labor in the prosecution of the contract, and any
authorized extension or modification thereof, including all amounts due for materials, lubricants, oil,
gasoline, repairs on machinery, equipment, and tools, consumed or used in connection with the
construction of such equipment, and all insurance premiums on said work, and for all labor, performed on
such work whether by subcontractor or otherwise, then this obligation shall be void, otherwise to remain
in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no
change, extension of time, alteration or addition to the terms of the contract or to the work to be
performed thereunder or the specifications accompanying the same shall in any wise affect its obligation
on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition
to the terms of the contract or to the work or to the specifications.

PERFORMANCE – PAYMENT BOND - (Continued)

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ () counter-parts, each of which shall be deemed an original, this the _____ day of _____ 20____.

SEAL

Principal

By _____

(Principal) Secretary

Address

Witness as to Principal

Address

ATTEST:

Surety

Surety

Secretary

By ATTORNEY-in-FACT

SEAL

Address

Witness as to Surety

Address

- (1) Correct Name of Contractor
- (2) A Corporation, a Partnership or an Individual, as case may be
- (3) Correct Name of Surety
- (4) Correct Name of Owner
- (5) If Contractor is Partnership, all Partners should execute bond.

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____
_____ as Principal, and _____

_____ for payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

The condition of the above obligation is such that whereas the Principal has submitted to _____ a certain bid, attached hereto and hereby made a part hereof to enter into a contract in writing for the _____

NOW, THEREFORE,

(a) If said Bid shall be rejected, or in alternate,

(b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid,

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the owner may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have cause their corporate seals to be hereunto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal _____(L. S.)
Surety _____

SEAL By _____

DELINQUENT PERSONAL PROPERTY TAX
(Must be Executed by the Successful Bidder)

A F F I D A V I T

STATE OF OHIO)
)
COUNTY OF TRUMBULL)

_____, being first duly sworn, deposes and says that he/she is the
_____ of _____, the successful
(sole owner, a partner, president, secretary, etc.)

bidder on the attached contract with the Weathersfield Township for Self-Contained Breathing Apparatus and Related Equipment and for the purpose of complying with Section 5719.042 of the Ohio Revised Code, states that at the time the bid for said contract was submitted, said bidder does not owe any delinquent personal property taxes on the General Tax list of personal property of a county in which the Weathersfield Township has territory (Trumbull County).

Affiant

Sworn to and subscribed before me this _____ day of _____, 20____

Notary Public

County

My commission expires:
_____, 20____

