



**Request for Quotes
GEFD-2024-01**

To Supply and Deliver

Scott X3 Pro Air-Pak SCBAs, AV3000 HT Facepieces,
RIT-PAK III, and Accessories

Closing Date: Friday March 29, 2024
Time: 12:00 p.m.

Contact: Jim Petrik, Fire Chief
519-546-7546
jpetrik@get.on.ca

Township of Guelph/Eramosa
8348 Wellington Road 124
P.O. Box 700
Rockwood, ON N0B 2K0

SEALED (or email) QUOTATIONS will be received by the Township of Guelph/Eramosa, until **Friday March 29, 2024 at 12:00 pm.**

**Township of Guelph/Eramosa Municipal Office
8348 Wellington Rd. 124
Rockwood, Ontario
N0B 2K0**

For supplying, complete as specified, Scott X3 Pro Air-Pak SCBAs, AV3000 HT Facepieces, RIT-PAK III, and Accessories

The lowest or any bid will not necessarily be accepted.

Email or fax responses WILL be accepted.

For more information about the specifications, please contact Jim Petrik, Fire Chief, 519-546-7546; jpetrik@get.on.ca

The bidder having carefully examined, read and understood the quote requirements and specifications relating to this quote, we hereby offer to supply, complete as specified, Scott X3 Pro Air-Pak SCBAs, AV3000 HT Facepieces, RIT-PAK III, and Accessories.

Price F.O.B. Brucedale Admin Office \$ _____
(Total from Tender Bid Form on Pg 5)

H.S.T. \$ _____

Total Price \$ _____

This quote is submitted by _____
(Firm/Corporation or Individual)

Signing officer's signature _____

Signing officer's Name (print) _____

Date _____

TOWNSHIP OF GUELPH/ERAMOSA

Scott X3 Pro Air-Pak SCBAs, AV3000 HT Facepieces, RIT-PAK III, and Accessories

The bidder declares that this quote is made without any connection, comparison of figures or arrangement with or knowledge of any other Corporation, Firm or Person submitting a quote for the same purchase.

The bidder agrees that this quote will remain open for acceptance and the prices herein quoted will remain firm and unchanged for a period of 45 days after the opening of quotes and the Township of Guelph/Eramosa may at any time within this period accept this quote whether any other quote has been previously accepted or not.

The bidder agrees to complete delivery of the Township order, if awarded, to the premises of the Township of Guelph/Eramosa and to complete all other work incidental to the execution of this contract within _____ calendar days from the date of notification of the acceptance of the quote.

The bidder has attached hereto all relevant information, literature, detailed specifications and other information relevant to the supplying and installing of the unit being offered in order to enable the Township of Guelph/Eramosa to properly evaluate this quote.

Dated at _____ this _____ day of _____ 2024.

Name of Corporation/Firm or Individual Quoting (Print)

Name of Authorized Signing Officer (Print)

Signature of Authorized Signing Officer

Address

Telephone Number

Cell Phone Number

Email address

TOWNSHIP OF GUELPH/ERAMOSA

**AIR-PAK SCBA's FACEPIECES and ACCESSORIES
TENDER BID FORM
QUOTE NO. GEFD-2024-01**

I/We understand that this offer, together with a written acceptance thereof by the Township, shall constitute a legal and binding contract between us for the supply of the equipment and training described in accordance with the attached specifications.

Supplier: _____

Item	ITEM DESCRIPTION	Unit	Quantity	Unit Price	TOTAL
1	X3 PRO Air-Pak SCBA (X8814021005304)	Ea	20		
2	X3 PRO Air-Pak SCBA (X8914021002304) Spare Harness Kit	Ea	4		
3	Chest Strap, X3 Pro Air-Pak (201612-01)	Ea	20		
4	4500 psi 45-Minute Carbon Fiber Cylinder w/ CGA Threaded Valve (804722-01)	Ea	12		
5	AV3000 HT Facepiece 4-Strap (Small) (201215-21)	Ea	10		
6	AV3000 HT Facepiece 4-Strap (Medium) (201215-22)	Ea	30		
7	AV3000 HT Facepiece 4-Strap (Large) (201215-23)	Ea	10		
8	Fleece Facepiece Bag (805534-01)	Ea	50		
9	RIT-PAK III 4500 PSI Ez-Flo UEBSS (200954-12)	Ea	1		
10	Carbon Cylinder 4500 PSI 60-Minute CGA (804723-01)	Ea	1		
11	Pak-Tracker Firefighter Locator (200266-04)	Ea	1		
12	Pak-Tracker Truck Mount Charger 12VDC (200433-01)	Ea	1		
13	On-site product training and Fit testing (up to 45 firefighters)	LS	1		
14	On-site Service Technician Level 1 Training (up to 6 technicians)	LS	1		
	Total				

SPECIFICATIONS

Guelph Eramosa Fire Department 3M | Scott X3 Pro Air-Pak SCBA RFQ Document

3M | Scott X3 Pro Air-Pak SCBA Request For Quote Summary

Proponent must maintain a current 3M | Scott Authorized Service Centre in Ontario and employee 3M | Scott certified service technicians providing Mobile On-Site service. Demonstrate the capacity to manage an SCBA project of this scope through prior experience.

Include a detailed delivery plan and references where similar “Roll-Out” programs have been completed.

Delivery plan will include product training, quantitative fit testing of 40 firefighters and 3M | Scott Service Technician Level 1 training course for 4 firefighters at an agreed date on-site at a Guelph Eramosa Fire Hall.

The successful proponent will be responsible for removing and disposing of all current SCBA, Cylinders, Facepieces, Accessories and Options as identified in Appendix A.

Supply of the following products and services, quantities are approximate and subject to change:

(20) X8814021005304 X3 PRO Air-Pak SCBA, 4500 PSI, CGA Threaded Connection, EZ-Flo+ Regulator, Pak-Tracker

(4) X8914021002304 X3 PRO Air-Pak SCBA, 4500 PSI, CGA Threaded Connection, EZ-Flo+ Regulator, Pak-Tracker, Spare Harness Kit

(20) 201612-01 Chest Strap, X3 Pro Air-Pak

(12) 804722-01 4500 psi 45-Minute Carbon Fiber Cylinder w/ CGA Threaded Valve

(10) 201215-21 AV3000 HT Facepiece 4-Strap (Small)

(30) 201215-22 AV3000 HT Facepiece 4-Strap (Medium)

(10) 201215-23 AV3000 HT Facepiece 4-Strap (Large)

(50) 805534-01 Fleece Facepiece Bag

(1) 200954-12 RIT-PAK III 4500 PSI Ez-Flo UEBSS

(1) 804723-01 Carbon Cylinder 4500 PSI 60-Minute CGA

(1) 200266-04 Pak-Tracker Firefighter Locator

(1) 200433-01 Pak-Tracker Truck Mount Charger 12VDC

(40) on-site product training and fit testing

(4) Level 1 training course on site

SPECIFICATIONS

3M | Scott Air-Pak X3 Pro NFPA 1981/1982, 2018 Edition Self-Contained Breathing Apparatus

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) a removable, facepiece-mounted, positive pressure breathing regulator with AirSaver switch; (2) an automatic dual path redundant pressure-reducing regulator; (3) end-of-service time indicators; (4) a harness and backframe assembly for supporting the equipment on the body of the wearer; (5) a shoulder strap mounted, remote gauge indicating cylinder pressure; (8) a rapid intervention crew/universal air connection (RIC/UAC); and (9) cylinder and valve assembly for storing breathing air under pressure.

The successful bidder agrees to provide, at their own expense, a trained instructor for such time as the respirator user shall require 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 signed 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

The SCBA shall be approved to NIOSH 42 CFR, Part 84 for chemical, biological, radiological and nuclear protection (CBRN).

The SCBA shall be compliant to the NFPA 1981, 2018 Edition, Standard on Open-Circuit Self-Contained Breathing Apparatus for Emergency Services.

The SCBA shall be compliant to the NFPA 1982, 2018 Edition (if including optional PASS Device), Standard on Personal Alert Safety Systems.

If the SCBA is to include an optional integrated self-rescue device, the device shall be compliant to the NFPA 1983, 2017 Edition, Standard on Life Safety Rope and Equipment for Emergency Services.

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 Assembly (Model: AV3000-HT)

The facepiece shall have a large diameter inlet that enables both unrestricted breathing and voice communications, while also allowing for rehydration (oral) without having to remove the facepiece.

The facepiece shall enable connection of the mask-mounted regulator by way of a quarter (1/4) turn rotation in a single direction.

The facepiece shall interface with the mask-mounted regulator, without the use of tools, with an audible click to assure the user that the regulator is properly seated.

The full facepiece assembly shall be available in three sizes, marked “S” for small, “M” for medium and “L” for large.

The facepiece sizes shall be color-coded for ease of identification.

The facepiece nose cup assembly shall be available in three sizes, marked “S” for small, “M” for medium and “L” for large.

The facepiece assembly, including head harness, shall not be made with natural rubber latex.

The facepiece shall include a face seal that is secured to the lens by a U-shaped bezel using no more than two fasteners.

The facepiece shall contain inhalation valves that are contrasting in color and readily visible to enable quick visual inspection.

Multi-directional voicemitters shall be recessed on both sides of the facepiece and ducted directly to an integral silicone nose cup to enhance voice transmission around the user.

The facepiece shall meet the requirements of the NFPA 1981, 2018 Edition standard for nonelectronic communications.

The facepiece assembly shall be modular in design to enable ease of upgrading and serviceability.

The facepiece shall be capable of submersion for cleaning and disinfecting.

The facepiece shall be able to incorporate multiple electronic communications options (amplification, radio interface, radio direct interface) without affecting NIOSH approvals and/or NFPA certification, where applicable.

The facepiece shall enable the installation of communications bracket on either the right or left side.

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. Facepiece Lens

The lens is a component of the facepiece assembly and shall be a single, replaceable, modified-cone configuration, constructed of a high-temperature and radiant-heat-resistant, non-shatter type polycarbonate material.

The lens shall be coated to resist abrasion and meet the requirements of NFPA 1981, 2018 Edition standard for lens abrasion.

The lens shall have an internal anti-fog coating to reduce fogging of the lens.

The lens shall meet the requirements of the NFPA 1981, 2018 Edition standard for radiant heat and elevated temperature heat and flame resistance tests.

In accordance with NIOSH 42 CFR part 84, the facepiece shall meet the penetration and impact requirements, including compliance with ANSI Z87.1 – 2015. Head Harness
The head harness is a component of the facepiece assembly and shall have five points of suspension connection, four of which shall be adjustable, made in the fashion of a net hood to minimize interference between securing of the facepiece and the wearing of head protection.

The head harness shall be available in an optional, adjustable five-strap configuration.

The head harness shall be constructed of a para-aramid material for fire, first responder and CBRN applications.

The head harness shall include either a positioning strap or an integrated handle to assist with donning of the facepiece.

Two elastomeric straps, attached to the face seal in four locations, shall provide adjustment for proper seal to the face.

Regulator (Model: E-Z Flo+)

The mask-mounted regulator shall maintain positive pressure during flows of up to 500 standard liters per minute.

The mask-mounted regulator shall be available in a continuous hose configuration.

The low-pressure hose shall be equipped with a swivel attachment at the mask-mounted regulator.

The mask-mounted regulator shall connect to the facepiece by way of a quarter (1/4) turn rotation.

An audible click shall provide notification that the mask-mounted regulator is securely attached to the facepiece.

The mask-mounted regulator shall be equipped with a gasket to provide a seal against the mating surface of the facepiece.

The mask-mounted regulator shall contain an air-saver switch to prevent airflow when disconnected from the facepiece.

The mask-mounted regulator shall reactivate and supply air only in the positive pressure mode when the wearer affects a face seal and inhales.

The mask-mounted regulator shall have a demand valve to deliver air to the user, activated by a diaphragm responsive to respiration.

The diaphragm shall include an integrated exhalation valve.

The mask-mounted regulator shall include a purge valve for use as an emergency bypass.

The mask-mounted 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.

The mask-mounted regulator shall incorporate a Heads-Up Display (HUD) to provide visual alerts to the SCBA user of air status and PASS alarm conditions.

The mask-mounted regulator shall incorporate a latch mechanism to enable removal from the facepiece.

The mask-mounted regulator shall require a quarter (1/4) turn rotation for removal from the facepiece.

Pressure Reducer with CGA Cylinder Connection

The pressure reducer shall be mounted at the waist on the backframe and be coupled to the cylinder valve through a short length of internally-armored, high-pressure hose with a hand coupling for engagement and sealing within the cylinder valve outlet.

In lieu of a manual by-pass, the pressure reducer shall include a back-up pressure reducer connected in parallel with the primary pressure reducer and an automatic transfer valve for redundant control.

The back-up pressure reducer shall also be the means of activating the low-pressure alarm devices in the mask-mounted regulator.

The low-pressure alarm warning shall denote a switch from the primary pressure reducer to the back-up pressure reducer whether from a malfunction of the primary pressure reducer or from low cylinder supply pressure.

A press-to-test valve shall be included to allow functional testing of the back-up pressure reducer.

The pressure reducer shall have incorporated a resettable over-pressurization relief valve which shall prevent the attached low-pressure hose and mask-mounted regulator from being subjected to high pressure.

End-of-Service Time Indicator (EOSTI)

The SCBA shall have two end-of-service time indicators (EOSTI). An audible / tactile alarm and a Heads-Up Display (HUD).

The primary EOSTI shall be the integral low-pressure alarm device that shall combine an audible alarm with simultaneous vibration of the facepiece.

The primary EOSTI shall be located in the facepiece-mounted positive pressure breathing regulator.

This alarm device shall indicate either low cylinder pressure (35% +/- 2%) or a malfunction of the primary pressure-reducing valve (first stage regulator).

The HUD shall serve as the secondary EOSTI.

The HUD shall be powered by the SCBA's single power supply.

It shall be mounted in the user's field of vision on the facepiece mounted positive pressure breathing regulator.

It shall display cylinder pressure in increments of 100%, 75%, 50% and 35%.

The display shall not have a numerical representation of bottle pressure.

At full cylinder pressure, two green Light Emitting Diodes (LED) shall be illuminated.

At three-quarter cylinder pressure, one green LED shall be illuminated.

At one-half cylinder pressure, one "yellow" LED shall be illuminated and flash at a rate not to exceed one (1x) time per second.

At one-third cylinder pressure, one "red" LED shall be illuminated and flash at a rate not to exceed ten (10x) times per second.

The HUD shall have a low battery indication that is distinct and distinguishable from the bottle pressure indications.

Harness and Backframe Assembly

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.

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.

The backframe shall include a shroud to streamline hose and wire management by minimizing exposure of the low pressure hose and electronics molded cable.

The backframe shall include a mounting for the pressure reducing regulator located at the waist.

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.

The backframe shall include a mounting area suitable for installation of a distress alarm integrated with the SCBA.

The mounting area shall permit installation of a distress alarm sensor module in an area between the pressure reducer and the backframe.

The harness assembly shall include a waist pad and shoulder pads constructed of an outer shell material and incorporating a closed cell foam design to help minimize water absorption.

The harness assembly shall incorporate parachute-type, quick release buckles with an integrated bail to help secure the webbing. Optional spring (alligator) clips shall also be available.

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 for enhanced visibility. The harness assembly shall include a seat-belt type waist belt attachment.

The harness assembly shall include box-stitched construction with no screws or bolts.

The harness assembly shall be removable from the backframe without the use of tools.

The harness assembly shall be machine washable to help with exposure reduction.

The harness assembly shall accommodate a waist belt extension.

The waist pad shall be attached to the backframe such that movement by the wearer provides natural articulation. Articulation shall be accomplished without the use of mechanical devices.

The waist pad and belt shall freely wrap around and conform to the wearers' hips.

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.

The Drag Rescue Loop (DRL) shall be sewn into the shoulder harness assembly and shall provide a horizontal pull strength of 1000 lbs.

The Drag Rescue Loop (DRL) shall be stored in a manner to prevent accidental snag, but maintain accessibility with gloved hands.

The shoulder harness shall be attached to the backframe such that the harness presents itself for ease of donning.

The shoulder harness shall include reflective material to enhance the visibility of the wearer in low-light conditions.

The shoulder harness shall accommodate two distinct positions for a chest strap attachment.

The shoulder harness shall accommodate a mounting clip for attachment of a handheld radio remote speaker microphone.

Rapid Intervention Crew / Universal Air Connection (RIC/UAC)

The SCBA shall incorporate a RIC/UAC fitting to be compliant with the 2018 edition of the NFPA 1981 Self-Contained Breathing Apparatus standard.

The RIC/UAC shall be an integral part of the pressure reducer and protected by the backframe.

The RIC/UAC inlet connection shall be within 4" (4-inches) of the tip of the CGA threads of the cylinder valve.

The RIC/UAC shall consist of a connection for attaching a high-pressure air source and a self-resetting relief valve allowing a higher pressure than that of the SCBA to be attached to the SCBA.

The self-resetting relief valve shall be color-coded to identify pressure rating of the SCBA.

The RIC/UAC shall have a check valve to prevent the loss of air when the high-pressure air source has been disconnected.

Carbon-Wrapped Cylinder

The cylinder threads shall be straight with an O-ring or quad-ring gasket type seal.

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.

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.

No adjustment shall be necessary during the life of the valve.

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.

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.

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.

The cylinder shall be available in a 30-minute, 45-minute, 60-minute or 75 minute duration based on the NIOSH breathing rate of 40 liters per minute (lpm).

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.

The cylinder valve shall have an RFID tag molded into the elastomeric bumper with a universal RFID marking embossment.

Warranty

The unit shall be covered by a warranty providing protection against defects in materials and workmanship.

This warranty period shall be for as long as the SCBA is owned by the original purchaser.

This warranty shall not require a registration in order to activate.

This warranty shall not be contingent upon completing mandatory overhaul or recommended preventative maintenance.

Personal Alert Safety System with Firefighter Locator

The PASS Device shall be compliant to the NFPA 1982, 2018 Edition Standard on Personal Alert Safety Systems.

Operation of this distress alarm shall be initiated with the opening of the valve of an SCBA charged cylinder.

The system shall feature a “hands-free” re-set capability that may be activated by means of a slight movement of the SCBA when the system is in a pre-alarm mode.

The system shall operate from a single power source-containing six “AA” batteries.

The battery life of the SCBA with PASS only shall be no less than 200 hours.

The system shall have a battery check function that provides an LED indication of battery status while the SCBA is not pressurized.

When the PASS is manually activated, the locator system shall immediately emit a 2.4 GHz signal to be received by a separate hand-held receiver.

When the PASS is activated due to lack of motion, the locator system shall have a ten second delay prior to emitting a 2.4 GHz signal to be received by a separate hand-held receiver.

The system shall utilize a 2.4 GHz signal to provide the best path to a “downed” firefighter.

The locating system shall be programmable with eight alphanumeric characters to provide identification information.

The PASS device shall contain two components: a Console and a Sensor Module.

When the PASS device goes into pre-alarm, the user shall be notified through a distinct light pattern in the breathing regulator-mounted HUD display.

Console

The console shall be located on the user’s right shoulder harness.

The console shall contain an integral edge lit mechanical pressure gauge that is automatically turned on by opening the cylinder valve.

The console shall display to the user the following:

Pre-Alarm: alternating red flashing LED’s;

Full Alarm: dual flashing red LED’s and a flashing PASS icon;

Low Battery: red flashing LED’s;

Normal System Operation: flashing green LED.

The console shall contain a photo sensing diode that automatically adjusts the brightness of the HUD as the ambient lighting conditions change.

The console shall contain an integrated RFID tag.

The console shall contain push buttons for user interface.

The push buttons shall be designed to minimize accidental activation.

A yellow color-coded push button shall permit system re-set.

A red color-coded push button shall permit manual activation of the full alarm mode.

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 breathing regulator mounted HUD.