# OPEN CALL FOR BID

**Town of Gander**

**Open Call for Bid**

Bids will be received up to the date and time indicated below for the following:

**Open Call Number:** OC24-07 Supply & Delivery of 26 Breathing Apparatus -SCBA

**Closing:** Tuesday , March 19 , 2024, at 1:00:00 p.m. local time

**Opening**: Tuesday , March 19 , 2024, at 1:30:00 pm local time

Detailed specifications for this Open Call for Bid may be obtained from the Procurement Officer, Town of Gander, 100 Elizabeth Drive, Gander, NL, A1V 1G7, Tel. 709.800.4543

The Town of Gander does not bind itself to accept the lowest or any bid for this Open Call.

**Suzanne White**
**Procurement Officer**

# TOWN OF GANDER

## OPEN CALL FOR BID OC24-07

### SUPPLY & DELIVERY OF 26 BREATHING APPARATUS -SCBA

**Closing date and Time: Tuesday, March 19 , 2024 1:00 p.m. local Time**
**Opening date and Time: Tuesday, March 19 , 2024 1:30 p.m. local Time**

**GENERAL CONDITIONS**

1. Bids which are incomplete, conditional, or obscure may be rejected as invalid.

2. Deviations from specifications must be noted with the bid proposal. Deviations will be considered informalities in bidding which may or may not be accepted by the Town. It will be the Town's sole right to determine the acceptability or otherwise of any and all deviations.

3. The bidder agrees that it will not claim damages in excess of an amount equivalent to the reasonable costs incurred by the bidder in preparing its quote for matters relating to an agreement or in respect of the competitive process, and the bidder, by submitting a bid, waives any claim for loss of profits if no agreement is made with the bidder.

4. All costs associated with the preparation and submission of this quote will be the responsibility of the bidder only.

5. Quoted unit price below must be FOB Gander Fire/Rescue, 85 Raynham Ave, Gander, NL

**Disclosure of Information**

By Submitting a bid, the proponent acknowledges that:

a) The Financial value of a contract resulting from this procurement process will be publicly

Released as part of the award notification process.

b) This Procurement process is subject to the Access to information and Protection of Privacy Act, 2015.

c) The bidder agrees that any specific information in its bid that may qualify for an exemption from disclosure under subsection 39(1) of the Access to information and protection of Privacy Act, 2015 has been identified. If no specific information has been identified it is assumed that, in the opinion of the bidder, there is no specific information that qualifies for an exemption under subsection 39(1) of the Access to information and protection of privacy Act, 2015

d) This procurement is subject to trade agreements, such as the Canada Free Trade Agreement and the Canada European Union Comprehensive & Economic Trade Agreement, where applicable

**Regulatory Approvals**

- The SCBA shall be certified to NFPA 1981, Standard on Open-Circuit Self-Contained Breathing Apparatus for Emergency Services, 2018 Edition.
- The SCBA shall be certified to NFPA 1982, Standard on Personal Alert Safety Systems, 2018 Edition, when configured with a PASS device.
- All Components shall be approved for Intrinsic Safety under UL 913 Class I, Groups C and D, Class II, Groups E, F and G.
- The SCBA shall be approved to NIOSH 42 CFR, Part 84 as an open circuit, pressure-demand self-contained breathing apparatus.
- The SCBA shall maintain all NIOSH standards with any of the types of cylinders listed as provided by the SCBA manufacturer.

**Required Components**

**Facepiece Assembly**

- 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 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 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 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 the 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 (e.g., airline respirator or negative pressure respirator with filters/cartridges) 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 the 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 Editon standard for radiant heat and elevated temperature heat and flame resistance tests.
- The facepiece shall meet the penetration and impact requirements of ANSI Z87.

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**

- Ther 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.
- 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 between 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 reactive 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 integral 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 status.
- The mask-mounted regulator shall incorporate a latch mechanism to enable 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.
- The pressure reducer shall have a means of activating the low-pressure alarm devices in the mask-mounted regulator.

**End-Of-Service Time Indicator (EOSTI)**

- The SCBA shall have two end-of-service time indicators (EOSTI). One shall be both a tactile and audible alarm, and one shall be a Heads-Up Display (HUD).
- The primary EOSTI shall be located in the positive pressure mask-mounted regulator.
- This alarm device shall indicate either low cylinder pressure (35% +/- 2%) or a malfunction of the primary pressure reducer.
- The HUD shall serve as the secondary EOSTI.
- The HUD shall be powered by the SCBA's single power supply.
- The HUD shall be mounted in the user's field of vision on the positive pressure mask-mounted regulator.
- The HUD shall display cylinder pressure in increments of 100%, 75%, 50% and 35% (+/- 2%).
- The display shall not have a numerical representation of cylinder pressure.
- At greater than three quarters cylinder pressure, two green Light Emitting Diodes (LED) shall be illuminated.
- Between three quarters and one-half cylinder pressure, one green LED shall be illuminated.
- Between one-half and 35% (+/- 2%) cylinder pressure, one yellow LED shall be illuminated and flash at a rate not less than one time (1x) per second.
- At 35% (+/- 2%) or less cylinder pressure, one red LED shall be illuminated and flash at a rate to exceed ten times (10x) per second.
- The HUD shall have a low battery indicator that is distinct and distinguishable from the cylinder pressure indications.

**Backframe and Harness Assembly**

- A lightweight, lumbar support style backframe and harness assembly shall be used to carry the cylinder and valve assembly and pressure-reducing regulator assembly.
- The backframe shall be 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 an over-the-center, adjustable tri-slide fixture, a para-aramid strap and a double locking latch assembly to secure 30, 45 or 60-minute cylinders.
- 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 and contaminant absorption.
- The harness assembly shall incorporate parachute-type, quick-release buckles with an integrated bail to help secure the webbing.
- 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 contaminant exposure reduction.
- The harness 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 user's hips.
- The shoulder harness shall be fitted with a Drag Rescue Loop (DRL) capable of being deployed in an emergency to drag a downed wearer to safety.
- The DRL shall be sewn into the shoulder harness assembly and shall provide a horizontal pull strength of 1000 lbs.
- The DRL shall be stored in a manner to prevent accidental snag but maintain accessibility with gloved hands.

- The should 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 user in low-light conditions.
- The shoulder harness shall accommodate two distinct positions for a chest strap attachment.

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

- The SCBA shall incorporate a RIC/UAC fitting to be compliant with the NFPA 1981, 2018 Edition standard.
- The RCI/UAC shall be an integral part of the pressure reducer and protected by the backframe.
- The RIC/UAC inlet connection shall be within 4" ($-inches) of the cylinder valve.
- The self-resetting relief valve shall be color-coded to identify pressure rating of the SCBA.
- Ther RIC/UAC shall have a check valve to prevent the loss of air when the high-pressure air source has been disconnected.

**Cylinder and Valve Assembly**

- The cylinder valve shall be constructed of forged aluminum.
- There shall be no mandatory maintenance required on the cylinder valve.
- If the SCBA is equipped with a Compressed Gas Association (CGA) threaded cylinder connection, the cylinder valve outlet shall be a modification of the CGA standard threaded connection number 346 for breathing air for 2216 psig and CGA 347 for 4500 and 5500 psig systems.
- Each cylinder valve shall consist of the following: 1) ahand activated valve mechanism with a spring-loaded, positive action, ratchet type safety lock and lock-out release for selecting "lock open service", 2) an upsteam 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 SCBA shall maintain all NIOSH and NFPA standards with any of the types of cylinders listed as provided by the SCBA manufacturer.

Cylinder Type

- The cylinder shall be manufactured in accordance with US Department of Transportation (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 45-miinute duration based on the NIOSH breathing rate of 40 liters per minute (lpm).
- The cylinder shall be available in a 30-year life design as defined by the DOT Special Permit 14232.

**Personal Alert Safety System (PASS)**

- The PASS Device shall be certified to NFPA 1982, Standard on Personal Alert Safety Systems, 2018 Edition.
- Operation of this distress alarm shall be initiated with the opening of the valve of a charged SCBA cylinder.
- The system shall feature a "hands-free" reset 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.
- 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 able to be received by a separate hand-held receiver.
- When the PASS device goes into pre-alarm, the user shall be notified through a distinct light pattern in the HUD display located on the mask-mounted regulator.

Console

- The console shall be located on the user's right harness.
- The control console shall come with a mechanical (analog) pressure gauge that is angled at $30^0$.
- 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 LEDs;
    - Full Alarm: dual flashing red LEDs and a flashing PASS icon;
    - Low Battery: red flashing lights;
    - Normal System Operation: flashing green LED.
- The console shall contain a photo sensing diode that automatically adjust the brightness of the HUD as the ambient lighting conditions change.
- 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 reset.
- A red color-coded push button shall permit manual activation of the full alarm mode.
- The console shall be equipped with an LED "External HUD" allowing others to determine the user's cylinder pressure through the same color-coded scheme as the HUD display on the mask-mounted regulator.
- A green LED shall be illuminated across the gauge face to indicate a cylinder with greater than half cylinder pressure.
- A yellow LED shall be illuminated across the gauge face to indicate a cylinder with less than half cylinder pressure.
- A red LED shall be illuminated across the gauge face to indicate a cylinder with less than 35% (+/- 2%) of the rated cylinder pressure.

Sensor Module

- 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.
- The senor module shall contain a motion sensor that is sensitive to user hip movement to reduce false activations.
- The sensor module shall contain redundant, dual sound emitters for the audible alarm and dual visual "buddy" indicator lights.
- The sensor module sound emitters shall be oriented in multi-directions for optimal sound projection.
- The sensor module sound emitters shall broadcast a unique alarm tone for the following conditions:
    - Pre-alarm PASS
    - Full-alarm PASS
    - Low battery
- The visual indicators on the backframe-mounted sensor module shall flash green during normal operation.
- The visual indicators shall flash red when the device is in pre-alarm and full-alarm.
- The visual indicators shall flash orange when the SCBA has reached one-half cylinder pressure.
- The visual indicators shall flash a combination of red, green, and white when the SCBA has reached 35% (+/- 2%) of the rated cylinder pressure.

**Universal Emergency Breathing Safety System (UEBSS)**

- The optional Universal Emergency Breathing Safety Systems (UEBSS) shall be certified to the NFPA 1981, 2018 Edition standard.

- The UEBSS shall have one of each of the following requirements; 1) a manifold with one each of a Rectus socket and Rectus plug, both of which have check valves, 2) 40” minimum low-pressure hose, 3) a pouch for storing the hose, 4) a dust cap for the socket and plug.
- The UEBSS shall be positioned on the wearer’s right side and shall be capable of allowing for six feet of hose between like systems.
- The manifold shall be made of aluminum and anodized.
- The socket and plug shall have spacing no less than $15^0$ off-center.
- The socket shall have a double action to disengage, noted as a “push-in/pull-back”.
- The plug and socket shall be equipped with a check valve.
- The hose shall be made of high temperature rubber capable of sustaining a maximum 250 psig of pressure.
- The containment system shall include a pouch and shall be made of para-aramid materials and shall be capable of storing 36” of hose.
- The pouch shall be attached to the SCBA by snap fasteners.
- The pouch shall have a pull-strap to Assist with opening of the flap and gaining access to the hose and manifold assembly.
- The pouch shall be marked “UEBSS” and constructed of reflective material.
- The pouch shall be removable from the backframe without the use of tools.

**Warranty**

- The SCBA shall be covered by a warranty providing protection against defects in materials and workmanship.
- The warranty period shall be for as long as the SCBA is owned by the original purchaser.
- The warranty shall not require a registration in order to activate.
- This warranty shall not be contingent upon completing mandatory overhaul or recommended preventative maintenance.

**TOWN OF GANDER**

**Supply & Delivery of 26 Breathing Apparatus (SCBA)**

Brand Quoted _____Delivery from date of award _____

**ALL ITEMS LISTED BELOW MUST MEET SPECS:**

**1) SCBA 4500psi NFPA 1981, 2018 Edition and NFPA 1982, 2018 Edition certified, threaded.**

Qty 26
Price per each _____x 26 = $_____Amount

HST 15% $_____

Total Cost – 26 $_____Hst Incl.

**2) Facepiece with nose cup, NFPA 1981, 2018 Edition Certified, Size Medium**

Qty 26
Price per each _____x 26 = $_____Amount

HST 15% $_____

Total Cost – 26 $_____Hst Incl.

**3) Cylinder and Valve Assembly, 4500 psi, 45-minute duration, NFPA 1981, 2018 Edition certified**

Qty 52
Price per each _____x52 = $_____Amount

HST 15% $_____

Total Cost – 52 $_____Hst Incl.

**4) Facepiece Bags**

Qty26

Price per each _____x26 = $_____Amount

HST 15% $_____

Total Cost – 26 $_____Hst Incl.

**Total Cost of items 1, 2, 3 & 4 (combined) _____Hst Included.**

The undersigned hereby agrees to provide the above Breathing Apparatus at the above quoted price. The undersigned agrees that by submission of this Quote the bidder agrees to all conditions indicated in these documents.

**Legal Name of Company** _____

**Authorized Signature** _____

**Address** _____

**Email:** _____**Fax:** _____

**Phone** _____ **Date** _____

Bids may be mailed, faxed, e-mailed (PDF format) or hand delivered in a sealed envelope to the Procurement Officer up to closing of Open Call, 1:00:00 pm, Tuesday, March 19th, 2024. Persons faxing bids are advised to contact the Procurement Officer at 709-800-4543 after faxing to confirm receipt of said transmission. Bid submissions must clearly identify Open Call Number and Company Name on outside of bid envelope or within subject line of email or fax. All bids are to be addressed to the following:

Suzanne White

Procurement Officer

Town Hall, 100 Elizabeth Drive

Gander, NL

A1V 1G7

Phone: 709-800-4543

Fax: 709-256-5809

Email: tenders@gandercanada.com

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