

CITY OF VICTORIA, TEXAS

PURCHASING DIVISION

REQUEST FOR QUOTE

FOR

ANNUAL CONTRACT FOR SELF CONTAINED BREATHING APPARATUS



BIDS WILL BE RECEIVED UNTIL 1:30P.M.

ON WEDNESDAY, APRIL 15, 2009

AT THE CITY OF VICTORIA PURCHASING OFFICE

1201 E. PINE STREET

VICTORIA, TEXAS 77901

AFTER 1:30P.M. ALL BIDS SHALL BE DELIVERED TO

700 MAIN CENTER, 702 N. MAIN STREET, SUITE 204

VICTORIA, TEXAS 77901

BIDS WILL BE PUBLICLY OPENED AND READ ALOUD

AT 2:00P.M. ON WEDNESDAY, APRIL 15, 2009

700 MAIN CENTER, 702 N. MAIN STREET, SUITE 204

VICTORIA, TEXAS 77901

INVITATION TO BID

Bids, addressed to the City of Victoria, Purchasing Department, will be received for:

ANNUAL CONTRACT FOR SELF CONTAINED BREATHING APPARATUS

in accordance with the specifications and contract documents. Bids will be received at the office of the City Purchasing Department, 1201 E. Pine Street, Victoria, Texas until 1:30p.m. on Wednesday, April 15, 2009. After 1:30p.m., all bids shall be delivered to the City of Victoria-700 Main Center, 702 N. Main Street, Suite 204, Victoria, Texas, 77901. Bids will be opened and publicly read aloud at the City of Victoria-700 Main Center, 702 N. Main Street, Suite 204, Victoria, Texas, 77901 on **Wednesday, April 15, 2009 at 2:00p.m.** Any bid received after 2:00p.m. will be returned unopened. The envelope containing the bid shall be clearly marked "**Bid for Annual Contract for Self Contained Breathing Apparatus.**"

Bid packages are available at the City of Victoria, Purchasing Office, 1201 E. Pine Street, Victoria, Texas 777901. Bid packages may also be downloaded in .pdf format at www.victoriatx.org/purchasing/bids.htm. Bidders must periodically check with the Purchasing Department and/or this webpage for modifications to bid specifications.

The City of Victoria reserves the right to reject any or all bids, to waive any or all formalities and to accept the one deemed most advantageous to the City of Victoria.

Lana Schultz
Purchasing Agent
City of Victoria

CITY OF VICTORIA, TEXAS

PURCHASING DEPARTMENT

GENERAL TERMS AND CONDITIONS

1. PURCHASE CONTRACT

The successful bidder will be asked to enter into a contract with the City of Victoria. The contract will include the specifications herein listed and any other pertinent information.

2. DESCRIPTION OF SUPPLIES

Any catalog or manufacturer's reference used is merely descriptive, and not restrictive, unless otherwise noted and is used only to indicate type and quality of material. Bidders shall state exactly what they intend to furnish, otherwise they shall be required to furnish the items as specified.

3. DISCOUNTS

Bids submitted will be considered as competitive and should reflect any and all discounts offered to the City of Victoria.

4. FIRM TIME OF BIDS

The Bidder shall state the length of time for which bid prices are firm. The City of Victoria requests a minimum of 90 days.

5. LEAD TIME

Lead time must be specified on the Bid Sheet as to the number of calendar days from receipt to release. Bids submitted on the basis of "as required" may be rejected as being non responsive.

6. PAYMENT

Full payment will be made within 30 days of the delivery of each completed order.

7. SALES TAX

These items will be exempt from payment of Sales and Local Sales Tax. The City of Victoria will furnish Exemption Certificate to successful bidder, if required.

8. TRANSPORTATION

All bids must include the cost of transportation, FOB Victoria, Texas.

9. FUNDING SOURCE

The purchases will be funded by the City of Victoria. Two complete Bid Documents which contains the Invitation to Bid, Bid Specifications and Bid Forms must be returned in its entirety.

10. ANNUAL SUPPLY CONTRACT

All quantities for Self Contained Breathing Apparatus specified for these specifications are merely estimates and not actual order amounts. The actual quantities ordered may be more than or less than the quantities specified. Prices to be held firm for one year from date of award with the option for renewal for an additional two – one year periods with a price increase margin based on the current-local Consumer Price Index if agreeable with both the successful bidder and the City of Victoria.

11. BID EVALUATION FACTORS

- A. The City retains the authority to award a bid based on findings in accordance with Texas Local Government Code § 271.905. If the City awards a bid based on Section 271.905, the City may condition such award on the awarded bidder providing additional requested information from the bidder and indemnifying the City for all costs of litigation arising from the use of said statute.
- B. **Partial Awards.** Bidders may furnish pricing for all or any portion of the bid invitation. Unless the bidder specifies otherwise in his bid, the City may award the contract for any item or group of items shown on the bid invitation. The City reserves the right to award a contract based on the “low total bid” for all items.
- C. **Reservations.** The City expressly reserves the right to:
 - 1. Waive as an informality minor deviations from specifications that do not impair overall functions;
 - 2. Waive any defect, irregularity or informality in any bid or bidding procedure;
 - 3. Reject or cancel any or all bids;
 - 4. Reissue a bid invitation;
 - 5. Extend the bid opening time and date;
 - 6. Procure any item by other means;
 - 7. Increase or decrease the quantity specified in the bid invitation, unless the bidder specifies otherwise;
 - 8. Consider and accept an alternate bid as provided herein when most advantageous to the City.
 - 9. Negotiate with any bidder after proposals have been made regarding price, warranty, or any other factor being considered in reference to this proposal.

12. INDEMNIFICATION

The successful bidder shall defend, indemnify and hold harmless the City of Victoria and its officers, agents, and employees from all suits, actions, or claims of any character, name and description including attorney’s fees/expenses brought for any injuries to persons or damages to property in connection with this contract including any claims for damages accruing during the delivery of the item supplied hereunder. Any money due the successful bidder under this Contract as shall be considered necessary to the City of Victoria may be retained for the use of the City to secure this indemnity. The successful bidder expressly agrees to defend, indemnify and hold harmless the City of Victoria and its officer, agents, and employees in accordance with this clause regardless of whether the injury or damage is caused in whole or in part by the acts of omissions, including negligence, of the City of Victoria, its officer, agents or employees.

**CITY OF VICTORIA, TEXAS
BID SPECIFICATIONS
FOR
SELF CONTAINED BREATHING APPARATUS**

1.0 GENERAL PROVISIONS

1.1 It is the intent of these specifications to describe a Self-Contained Breathing Apparatus (SCBA) Scott Air-Pak Model NxG7 or an approved equal in sufficient detail to solicit bids on comparable equipment. All parts not specifically mentioned, which are necessary to provide a complete unit shall be included in the bid and shall conform in strength and quality of material and workmanship to what is usually provided to the trade in general.

- 1.2 Each SCBA shall consist of the following major subassemblies:
- a. Cylinder and valve assembly for storing breathing air under pressure
 - b. Full-face piece assembly
 - c. Automatic, dual path, redundant pressure reducing regulator
 - d. Removable face piece-mounted, positive pressure breathing regulator with air-saver switch, low pressure alarm and purge valve
 - e. Harness and back frame assembly for supporting the equipment on the body of the wearer
 - f. Shoulder strap mounted remote gauge indicating cylinder pressure
 - g. Heads up-display redundant low pressure alarm
 - h. Rapid intervention crew/universal air connection
 - i. Firefighter Locator System

1.3 Any exceptions to these specifications must be detailed in a separate attachment, and failure to do so will automatically disqualify the bidder. Successful bidder must be a factory-authorized distributor to sell the equipment specified herein.

2. WARRANTY

2.1 The unit shall be covered by a warranty providing protection against defects in materials and workmanship. This warranty shall be for a period of eight years on the SCBA, except for the pressure reducer, which shall be covered for 15 years. No regularly scheduled overhaul or parts replacement shall be required in order to maintain the warranty. Any electronic components shall be warranted for one year.

3. APPROVALS

3.1 The SCBA will be certified by NIOSH/MSHA as conforming to the Code of Federal 42 CFR 84. This apparatus, without modification, shall be NIOSH/MSHA certified. The apparatus shall meet all requirements of NFPA-1981 Standard on Open-Circuit, Self-Contained Breathing Apparatus, 2007 Edition. All spare components, including cylinder and valve assemblies, face piece assemblies, or other spare components installed onto the SCBA will maintain all NIOSH/MSHA, and NFPA certifications. All components supplied in accordance with this purchase will be new.

4. TRAINING

4.1 Successful bidder agrees to provide, at his own expense, a factory-trained instructor for such time as the department head shall require for complete instruction in the operation and maintenance of the apparatus.

5. HARNESS & BACK FRAME ASSEMBLY

5.1 Lightweight, lumbar support style back frame and harness assembly shall be used to carry the cylinder and valve assembly and the pressure reducing regulator assembly. The back frame shall be a solid, one-piece anodized aluminum frame that is contoured to follow the shape of the user's back. The back frame shall include a mounting for the pressure reducer. This mounting shall contain a slide-type bracket permitting positioning of the pressure reducer to accommodate connection to either an angled or straight type cylinder valve.

5.2 The back frame shall include an over-the center, adjustable tri-slide fixture, a Kevlar strap and a double-locking latch assembly to secure 30, 45 or 60 minute cylinders. The harness assembly shall consist of a one size black Kevlar strap with a yellow stripe. This harness shall include box-stitched construction with no screws or bolts. The harness assembly shall incorporate alligator, quick-release buckles and shall include shoulder and hip pads. The harness shall include a seat-belt type waist attachment. The back frame shall include accommodation and mounting spaces suitable for installation of a distress alarm integrated with the SCBA. These mounting spaces shall permit installation of an alarm sensor module in an area between the cylinder hanger locking mechanism and the back frame.

6. CYLINDER & VALVE ASSEMBY TYPE

6.1 The cylinder threads shall be snap change cylinder connection for quick change. 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 upper seat, thus preventing leakage past the stem. No adjustment shall be necessary during the life of the valve. The cylinder valve outlet shall be a modification of the Compressed Gas Association (CGA) standard threaded connection number 346 for breathing air (Proposed CGA connection NO. 347).

6.2 The valve shall be constructed such that damage will not occur if the coupling is over-torqued by hand. Each cylinder valve shall consist of the following: 1) a tri lobe 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. Each cylinder and valve assembly shall be equipped with a hanger bracket for positive locking attachment of the assembly to the back frame.

6.3 The SCBA shall maintain all NIOSH and NFPA Standards with any of the following types of cylinders listed as provided by the SCBA Manufacturer.

7. CARBON CYLINDERS

7.1 The cylinder shall be manufactured in accordance with DOT specifications and have a working pressure of 4500 psig. The cylinder shall be lightweight, composite type cylinder consisting of an aluminum alloy inner shell, with a total over wrap of carbon fiber, fiberglass and an epoxy resin.

They cylinder shall be 30 minutes in duration. The 30-minute duration cylinder shall have a water capacity of 283 cubic inches and a free gas capacity of 45 SCF.

8. **RAPID INTERVENTION CREW/UNIVERSAL AIR CONNECTION (RIC/UAC)**

8.1 The SCBA shall incorporate a RIC/UAC fitting to be compliant with the 2007 edition of the NFPA 1981 Self-Contained Breathing Apparatus standard. The RIC/UAC shall be an integral part of the high-pressure hose that attaches the cylinder valve to the first stage pressure reducer. 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 RIC/UAC shall have a check valve to prevent the loss of air when the high pressure air source has been disconnected.

9. **FACE PIECE-MOUNTED POSITIVE PRESSURE REGULATOR CBRN APPROVED**

9.1 This face piece-mounted positive pressure-breathing regulator shall supply and maintain air to the face piece to satisfy the needs of the user at a pressure greater than atmospheric by no more than 1.5 inches of water pressure. The breathing regulator shall maintain this positive pressure during flows of up to 500 standard liters per minute. The regulator shall also meet or exceed a dynamic flow requirement of remaining positive while supplying a minute volume of 160 liters.

9.2 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 back frame.

9.3 An optional regulator and low pressure hose assembly 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. The quick connect coupling shall be easily connected and disconnected by trained individuals with a gloved hand and/or in low light conditions. The coupling shall also be guarded against inadvertent disconnect during use of the equipment. The low-pressure hose shall be equipped with swivel attachments at both ends.

9.4 The breathing regulator outlet port shall be configured as the male half of a quarter (1/4) turn coupling which mates with face piece and shall be equipped with a doughnut-shaped gasket which provides the seal against the mating surface of the face piece. The regulator cover shall be fabricated of a flame resistant, high impact plastic.

9.5 The breathing regulator shall also have an integral low-pressure alarm device that shall combine an audible alarm with simultaneous vibration of the face piece. This alarm device shall indicate either low cylinder pressure or primary first stage regulator failure.

9.6 An optional low-pressure alarm shall be integrated into the regulator purge body that provides a visual flashing LED alarm clearly visible to the individual wearing the SCBA. The breathing regulator shall have a demand valve to deliver air to the user, activated by a diaphragm responsive to respiration. This diaphragm shall include the system exhalation valve and shall be constructed from a high strength silicone elastomer. The demand valve shall use an extended temperature range dynamic O-ring seal composed of a fluorosilicone elastomer.

9.7 A purge valve shall be situated at the inlet of the breathing regulator and shall be capable of delivering airflow of between 125 and 175 standard liters per minute. The breathing regulator shall be

arranged to direct the incoming air over the inner surface of the face piece for defogging purposes. The components of the breathing regulator shall be constructed of materials that are not vulnerable to corrosion. The flame resistant cover shall contain an air saver switch and pressure demand bias mechanism. It shall reactivate and supply air only in the positive pressure mode when the wearer affects a face seal and inhales. This device shall not affect the breathing flow through the system while in operation.

9.8 Cleaning and disinfecting of the regulator shall be accomplished by spraying an EPA certified cleaner/disinfectant solution directly into the regulator. Disassembly of the regulator shall not be required in order to clean and disinfect the regulator.

10. END OF SERVICE INDICATOR (EOS) AND HEADS-UP DISPLAY (HUD)

10.1 The SCBA shall have two end-of-service (EOS) indicators. The primary EOS shall be the integral low-pressure alarm device that shall combine an audible alarm with simultaneous vibration of the face piece. The primary EOS shall be located in the Face Piece-Mounted Positive Pressure Regulator.

10.2 The HUD shall serve as the secondary EOS indicator. It shall be mounted in the user's field of vision on the second stage regulator. It shall display one-quarter bottle increments including full bottle pressure and continuing to 25% of maximum bottle pressure. The display shall not have a numerical representation of bottle pressure. At one-half bottle pressure, one "yellow" LED shall be illuminated and flash at a rate not to exceed one (1x) time per second. At one-quarter bottle pressure, one "red" LED shall be illuminated and flash at a rate not to exceed ten (10x) times per second. The HUD shall operate on one 9v battery for a minimum of 45 days. The HUD shall have a low battery indicator that is distinct and distinguishable from the bottle pressure indicators.

11. AV-3000 FACE PIECE ASSEMBLY (or City of Victoria Fire Department Approved Equal)

11.1 The full-face piece assembly shall fit persons of varying facial shapes and sizes with minimal visual interference. It shall be available in three color-coded sizes and maintain NIOSH/MSHA certification of the apparatus regardless of the size used. The color coded face seal shall be constructed of a blend of natural rubber/EDPM or silicone and be secured to the lens by a U-shaped channel frame that is retained to the lens using five fastener assemblies, four of which also serve as attachment points for the head harness.

11.2 The lens shall be a single, replaceable, modified cone configuration constructed of a non-shatter type polycarbonate material and be designed to meet the impact and penetration requirements of a face shield as specified in ANSI Z87.1 paragraphs 5.2.8.1 and 5.2.8.2, shall have a silicone based coating to resist abrasion, chemical attack and meet the requirements of NFPA-1981, 2002 edition for lens abrasion. The lens shall have an anti-fog coating to reduce fogging in stand-by mode.

11.3 The face piece 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. Multi-directional voicemitters shall be lens mounted on both sides of the face piece lens and ducted directly to an integral silicone nose cup to enhance voice transmission and minimize fogging of the lens. The voicemitters ducts and nose cup shall be easily removable without the use of tools.

11.4 The head harness shall be a four-point suspension made in the fashion of a net hood to minimize interference between securing of the face piece and the wearing of head protection and be

constructed of a Kevlar material. Two flame resistant elastic straps, attached to the lens in four locations, shall provide adjustment for proper face sealing. A four-point attachment rubber head harness shall also be available.

11.5 For the purposes of safety, ease of training, and reduce time and cost of fit testing, the same face piece that is utilized on the SCBA shall also be capable of being used with:

- a. 5 or 10 minute combination SCBA/Supplied Air Respirator (SAR)
- b. A powered air purifier with cartridges designed for protection against chemical and biological weapons
- c. Cartridges designed for protection against chemical and biological weapons in a negative pressure mode.
- d. NIOSH approved chemical cartridges designed for protection against a variety of hazardous chemicals and particulates in a negative pressure mode.

11.6 The pressure-reducing regulators shall be mounted on the back frame 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-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. The back-up pressure reducing valve shall also be the means of activating the low-pressure alarm devices in the face piece-mounted breathing regulator. 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 pressure.

11.7 Light weight units that can be mounted on all new and existing Scott AV3000 face pieces by means of a single mounting bracket. The unit is to be secured over the voicemitter housing. The amplifier shall meet all requirements of NFPA 1981. Amplifier will maintain NIOSH certification.

12. DISTRESS ALARM INTEGRATED WITH SCBA

12.1 The distress alarm shall be capable of integration with a NIOSH certified self-contained breathing apparatus and this integrated SCBA and distress alarm system shall retain NIOSH certification. The system shall meet all requirements of NFPA-1982 Standard on Personal Alert Safety Systems (PASS), 1998 Edition.

12.2 Operation of this distress alarm shall be initiated with the opening of the valve of an SCBA cylinder charged to a minimum pressure of 30 to 80 psig. A visual indication of automatic mode activation shall consist of a green flashing LED on the system's control module.

12.3 The system shall incorporate dual visual and audible alarms, which shall be activated in a pre-alarm mode when the system remains motionless for approximately 20 seconds. A full alarm shall be activated in the event the system remains motionless for approximately 30 seconds.

12.4 Visual signals shall consist of a green flashing LED when the system is in operation and red flashing LED's to indicate pre-alarm mode, full alarm mode and a low battery condition. The system's LED signals shall be situated on a control console assembly mounted on the user's right shoulder strap. The system shall have a visual LED indicator to check the battery condition while the system is not in use.

12.5 The alarm signal shall be in a frequency range of 1 kHz to 4 kHz and consist of three primary

frequencies. Sound pressure level shall be >95 dBA. The pre-alarm signal shall be in a frequency range of 1 kHz to 2 kHz and consist of two primary frequencies, the sound pressure level shall ramp up in two distinct steps from 60 to >100 dBA.

12.6 The pressure gauge shall become an integral part of the control module assembly. The control module assembly shall contain push buttons for manual operation of the distress alarm. 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. Both push buttons shall be recessed to minimize accidental activation. 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-alert mode.

12.7 Cables connecting the control console assembly and sensor module assembly shall be capable of withstanding approximately 150 pounds of tension.

12.8 The system shall include a sensor module mounted to the SCBA back frame and located in an area between the cylinder and back frame in a manner designed to protect the assembly from damage. The system shall be powered by 6 standard "AA" batteries. The batteries shall be housed in a battery compartment separated from sensor and control circuits and sealed with a gasketed cover. The sensor module shall contain dual sound emitters for the audible alarm.

12.9 The distress alarm system shall be ETL listed as intrinsically safe in accordance with ANSI/UL913 for use in Class 1, Division 1, Groups A, B, C and D Hazardous locations.

12.10 The system shall weigh approximately 1.9 pounds.

13. FIREFIGHTER LOCATOR SYSTEM (PAK-TRACKER or a City of Victoria Fire Department approved equal)

13.1 Two-part system consisting of a transmitter and a lightweight hand-held receiver to detect the signal of the firefighter's individually-worn transmitter. High frequency radio waves penetrate dense smoke and structural barriers with location distance greater than 900 feet line of sight.

13.2 Three visual and audible indicators. Automatic or manual activation of personal transmitter or the integrated system. High Intensity LED lights indicated battery power and signal strength.

13.3 The Firefighter Locator stand-alone personal transmitter is powered by three replaceable 'AAA' alkaline batteries. The stand-alone unit has a battery life of approximately 400 hours of normal use. The hand-held receiver is powered by a single rechargeable nickel-metal hydride battery pack, which provides approximately six hours of continuous operation. An LED indicates "Low Bat" when 20% of battery life remains. A desktop charger unit, for use with either a 110VAC or 12VDC power supply, is available for recharging the nickel-metal hydride battery pack. Full charge time is approximately two hours.

13.4 A truck charging 12 volt DC system that is horizontally or vertically mounted and designed for easy gloved-hand mounting or dismounting of the hand-held receiver/detector. It provides secure retention of the device and satisfies the NFPA Standard for Automotive Apparatus as specified in NFPA 1901.

Note: Any upgrades or changes to the NFPA requirements for 2009 and/or length of bid must be complied with.

14. VENDOR INFORMATION

Name: _____

Address: _____

Telephone No.: _____

Fax No.: _____

Signature of Authorized
Representative: _____

Signed: _____

E-mail Address: _____

