



TOWN OF PLACENTIA
RFQ – SELF CONTAINED BREATHING APPARATUS

The Town of Placentia is requesting quotes for the supply of five (5) Self-Contained Breathing Apparatus Systems. Required specifications may be obtained on the Tender Page of Town of Placentia website: www.placentia.ca.

Delivery will be to: Town of Placentia P.O. Box 99 Placentia, NL A0B 2Y0
17-25 Patterson Drive

Closing Date: Pricing should be forwarded to Town of Placentia@placentia.ca and be received at this address before 4:00 PM NL time Sept. 19, 2024.

Contact Person: Gerry Hynes, Chief Administrative Officer
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The Town of Placentia is registered with Canoe Procurement Canada – Member # 1059.

BIDDERS PLEASE NOTE: EQUIPMENT MUST BE MSA COMPATIBLE.

1. TECHNICAL REQUIREMENTS:

Self-Contained Breathing Apparatus systems required, including any ancillary and/or associated equipment to have the system fully functional is described herein. The performance requirements shall be those given in the appropriate regulations or standards i.e., NFPA 1981 Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for Emergency Services, NFPA 1981 /1982, 2018 Edition.

2.1 General Specifications

The SCBA shall be approved by the National Institute for Occupational Safety Health (NIOSH) as a positive pressure breathing apparatus. The SCBA shall meet the latest edition of the NFPA 1982 and NFPA 2013 or newer standard,

1. The successful bidder shall provide complete manufacturer's overhauls of first stage, mask mounted regulators and the required flow testing for ten (10) years.
2. SCBA shall be compatible with the seat mounts on existing Fire Department vehicles.
3. All SCBA units shall be equipped with at least two (2) active end of service time indicators.
4. The design of the end of service time indicators shall be such that the failure of either shall not affect the activation and operation of the other indicators.

2.2 Face Piece

1. The face piece shall utilize two independent sealing edges, providing three sealing rings and made of silicone materials; open port design with cross contamination protection.
2. Face piece lens shall be poly carbonate material and allow > 90 % field of vision.
3. Face piece lens design shall minimize fogging and CO2 buildup.
4. Head harness shall be standard 5 pt mesh harness for greater comfort and be easily removed without the use of tools.
5. Nose cup assembly shall be included and easily removed for cleaning without the use of tools.
6. Exhalation valve shall be located at the lowest point of gravity in the mask and be easily removed for cleaning.
7. The exhalation valve will be made of silicone.

8. Face piece to be equipped with HUD capability and speaking diaphragm.

2.3 Pneumatics

1. SCBA shall include a luminous pressure gauge mounted within easy reach and viewing through the face mask.
2. SCBA shall include a quick connect mask mount regulator with a balance piston design with minimum resistance and noise.
3. Exhalation valve shall be part of the face piece assembly, not the mask mount regulator. At no time shall the SCBA allow inhaled air to be mixed.
4. Each SCBA unit shall be equipped with a built in PASS alarms. Failure or malfunction of this PASS alarm shall not render the SCBA unit out of service.
5. Face piece to be equipped with HUD capability and speaking diaphragm.

2.4 Back Plate and Harness Assembly

1. Waist belt and shoulder harness shall be pull forward type with quick release clips for loosening.
2. Harness assembly shall be removable from back plate for cleaning with the use of tools.
3. Waste belt shall contain a docking port for storage of mask-mounted regulator when not in use.
4. Harness assembly shall include an adjustable chest strap with quick release clips.
5. The harness shall be equipped with comfort style shoulder pads and waist belt padding to ensure user comfort.
6. The internal padding of both the shoulder and waist pad shall be waterproof.
7. The harness shall be constructed of a heavy duty high performance, high temperature Kevlar Nomex / PBI material.
8. A cam-lock mechanism shall be used to secure the cylinder strap in place to ensure simple and secure operation.
9. The cylinder strap shall accommodate the aluminum/fiber carbon cylinders as outlined in spec

2.5 Cylinder and Valve Assembly

1. Cylinders shall be constructed of carbon fiber walls with a pressure rating of 2216 PSI and time duration of thirty (30) minutes.
2. Cylinders shall be new and unused with a manufactures date not older than six (6) months.
3. Cylinders shall be complete with valve assembly to mate with the regulator.

2.6 Warranty

1. The successful bidder shall guarantee a forty eight (48) hour turnaround time for all repairs and service.
2. Qualified and certified technicians shall conduct all repairs and service.
3. Proof of certification shall be submitted with tender bid.
4. In the case of the manufacturer's representative defaults on the warranty the manufacture will be responsible for providing the full warranty of the units.

2.7 Warranty and Repair Facility

Service must be available within the province of Newfoundland and Labrador.