

FORM N: DETAILED SPECIFICATIONS 26016

UNDERWATER SEARCH AND RECOVERY DIVE BOAT

1. INTENT

- 1.1 It is the intent of these specifications to describe a towable underwater search and recovery boat. The boat shall be a new 2026 model year or newer.
- 1.2 The towable boat, including all auxiliary equipment, shall be furnished complete and ready for use. All parts not specifically mentioned, but which are required for the complete unit shall conform in strength, quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.3 It will be the responsibility of the bidder to inform the City of any errors or omissions in these specifications, for under this contract the contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the unit.
- 1.4 The ratings specified herein merely state the minimum values acceptable to the City, not implying that those values are sufficient for the design of the particular equipment being bid.

2. OTHER SPECIFICATIONS AND STANDARDS

- 2.1 All applicable SAE Standards form an integral part of the vehicle specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The complete dive vehicle shall comply with the applicable regulations:
 - Manitoba Highway Traffic Act
 - Canadian Motor Vehicle Safety Standards, CMVSS Transport Canada
 - National Safety Mark, NSM
 - Canadian Standards Association, CSA
 - Under Writers of Canada, U/L
 - Society of Automotive Engineers, SAE
- 2.3 All welding and welding designs of the load supporting elements shall conform to the requirements of the Canadian Standards Association Standard (CSA) W47.1-03 and W59-03.
- 2.4 The completed unit shall include a Manitoba Government Inspection with Safety Sticker.

3. QUALIFICATIONS OF MANUFACTURER

- 3.1 The manufacturer of the boat and trailer shall have a minimum of five (5) years continuous experience manufacturing and installing equipment of the type being offered. The manufacturer shall have in effect a complete and documented quality control program ensuring the compliance with all applicable standards.

4. QUALIFICATIONS OF THE BIDDER

- 4.1 The Bidder shall be a manufacturer or authorized distributor/supplier of specialty boats and trailers.
- 4.2 For the purposes of Warranty and Mechanical repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or major portion thereof, shall be dedicated to the installation, service, and maintenance of customized specialty boats being offered.
- 4.3 Further to B12, Bidders shall provide a description of the facility including, but not limited to, number of qualified staff, years of service experience on specialty boats, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

- 4.4 If the Contractor is unable to perform warranty services within the City of Winnipeg, the Winnipeg Police Service will provide the service at a rate of \$125.⁰⁰/hour during normal business hours or \$166.⁰⁰/hour for after-hours or callouts, which shall be billed to the Contractor over and above the warranty related costs.

5. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 5.1 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation**, or give a reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specifications is used, the City will also consider deviations and/or equivalents.
- 5.2 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

6. REFERENCES

- 6.1 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

7. PERFORMANCE

- 7.1 The specialty boat shall be capable of operating safely and efficiently in a fresh water, water rescue and recovery environment, and shall be suitable for operation during the spring, summer and fall conditions normal to the City of Winnipeg.

8. MAKE AND MODEL

- 8.1 **State year, make and model of boat being bid.** _____
- 8.2 **State year, make and model of boat trailer being bid.** _____

9. BOAT SPECIFICATIONS

- 9.1 Length – 37 ft. approx., **state.** _____
- 9.2 Width – 16 ft. width approx., **state.** _____
- 9.2.1 Width (transport mode) – 8 ft. width approx., **state.** _____
- 9.3 Material – marine grade aluminum, **state.** _____
- 9.4 Weight (w/o motors) – 8500 lbs. approx., **state.** _____
- 9.5 Design – towable with four (4) hydraulically driven up/down rear wheels and tires, and one (1) jack style hydraulically driven foldable front tire for boat entry and egress of water. Front section to include work deck area, rear section to include operator controls and diver seating area. _____
- 9.6 Safety chains – CMVSS approved with clevis snap hook. _____

- 9.7 Electrical and lighting – CMVSS approved including LED stop, turn and taillights, clearance lights (including mid-ship clearance lights), 3-light cluster, 7-spade RV style electrical connector. All wiring soldered and sealed with heat shrink tubing, colour coded and loomed. _____
- 9.8 Electric brakes – required, **state** make and model. _____
- 9.9 Trailer hitch – $\frac{5}{16}$ in. ball. _____
- 9.10 Axles and suspension – four (4) $\frac{1}{2}$ -axles with Timbren or equivalent suspension, 14,000 lbs. capacity. _____
- 9.10.1 Wheels and tires – ST235/80R16 Radial Trailer Tires, 16" Wheels, load range E. _____
- 9.11 Beam (in water) – 16 ft. approx., **state**. _____
- 9.12 Beam (on land) – 8 ft. approx., **state**. _____
- 9.13 Floatation – 36 in. diameter MDPE, closed-cell polyurethane foam filled. _____
- 9.14 Work deck area – 20' L x 16' W, fibreglass reinforced, non-slip, non-glare, Sunwalk 90 or equivalent. _____
- 9.14.1 Deck sections – twin 4' x 20' winch driven lift sections. _____
- 9.15 Payload capacity – 9,000 lbs. approx., **state**. _____
- 9.16 Moon pool – 4' x 4' moon pool with aluminum checkerplate cover, crane ready access to the water for heavy objects such as mooring blocks, pipe and cables. **State** location. _____
- 9.17 Gantry crane – overhead I-beam gantry crane and dolly, cantilevered over the bow, extending aft to the cockpit roof. _____
- 9.18 Diver lift elevator – front mounted, high capacity marine elevator, 1,500 lbs. capacity, 3-person, submersible, DiverLift or equivalent. _____
- 9.19 Retractable canopy – for forward deck, 15'L x 7'W marine grade retractable canopy, stowed above the cockpit roof. _____
- 9.20 Aft deck – 17 ft. approx. area for operator station, diver seating area and fuel tank storage, structural aluminum frame design for cabin roof, $\frac{1}{4}$ in. unpolished aluminum checkerplate roof. _____
- 9.21 Operator station – aluminum lower surround with removable canvas enclosure above. _____
- 9.22 Diver seating area – located in front of operator station, aluminum bench style with seating pads. _____
- 9.23 Depth gauge – Hawk-Eye helm-mounted multi-function depth gauge with alarm, water temperature and air temperature digital display. _____
- 9.24 Waterproof lock box – installed below helm. _____
- 9.25 Diver bottle rack – suitable for storing a minimum of twelve (12) diver bottle oxygen air tanks. _____

- 9.26 Wash down system – 35 US Gallon (132 L) approx. fresh water wash-down system c/w 50 ft. hose and reel. _____
- 9.27 Tie-down points – located throughout vessel, **state** quantity and locations. _____
- _____
- 9.28 Engines – two (2) 150 hp Mercury SeaPro outboard engines, 25 in. shaft or equivalent, **state**. _____
- 9.28.1 **State** other engine makes and models available and correlating price change. _____
- _____
- _____
- 9.29 Fuel capacity – 58 US Gallon (220 L) approx. _____
- 9.30 Police lighting – Whelen red and blue light bar, 360° visibility, **state** make and model being bid. _____
- 9.31 Work lights – required on all sides, suitable for night-time search and recovery, LED, adjustable. _____

10. TECHNICAL DOCUMENTS AND MANUALS

- 10.1 Bidders shall supply the following within five (5) working days of request of the Contract Administrator:
- 10.1.1 Service facility description. _____
- 10.2 Prior to final inspection of the unit, the Contractor shall provide the following:
- 10.2.1 Operator's manuals for the entire vessel – two (2) required. _____
- 10.2.2 Parts, repair and maintenance manuals – USB format preferred, required with the following comprising a set:
- i) Lubrication chart;
 - ii) Maintenance manual;
 - iii) Unit parts book;
 - iv) Electric wiring diagram; and
 - v) Hydraulic circuit diagram. _____

Note: The manuals supplied with this contract must be in English and shall be specifically for the unit supplied. General purpose manuals will not be acceptable. The Contract will not be considered complete until these have been delivered. Manuals must be supplied at the time the unit is delivered.

11. DELIVERY

- 11.1 The completed unit shall be serviced, ready for operation and delivered F.O.B with the freight prepaid to the City of Winnipeg, Winnipeg Fleet Management Agency, 185 Tecumseh Street, Winnipeg, Manitoba within

eighteen (18) calendar weeks from the date of award. The Contractor shall contact the Contract Administrator prior to delivery of the equipment. Equipment shall be delivered within 8:00 am and 3:00 pm on Business Days.

11.2 A pre-delivery inspection shall be performed by the Contractor on all equipment.

11.3 The Contractor shall contact the Contract Administrator prior to delivery of the equipment.

12. **WARRANTY**

12.1 The warranty on the entire vessel shall be a minimum of **two (2) years** from the time of acceptance of the equipment. The warranty for the complete boat shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction and materials. Any equipment that has become defective during said warranty period and has not proven to have been caused by negligence on the part of the user shall be repaired or replaced at no cost to the City.

12.2 The warranty shall be effective from the date the equipment has successfully placed into service by the City of Winnipeg.

12.3 The Contractor shall provide all detailed published warranty information (including all exclusions) at the time of delivery of the equipment. **State** the following warranties:

12.3.1 Boat motors – **state**.

12.3.2 Boat including structural construction, floats, steering components, wheels and wheel assemblies, etc. – **state**.

12.3.3 Electrical and lighting – **state**.

12.3.4 Hydraulics – **state**.

12.3.5 Provide details on any extended Warranty coverage available.