

**ITB 32801-13683**  
**FOR LAW ENFORCEMENT STEPPED HULL PATROL BOAT**  
Specifications

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This event is for the manufacturing and procurement of a Bay Boat style, performance Outside-Chine Stepped Hull Patrol Boat. This will be a one-time purchase procurement with a single award.

**A. General Information:**

Contractor shall include the cost of assembling, adjusting, and testing the specified boats, trailers, and motors. The trailers and motors shall be adjusted and installed per the manufacturers' specifications for the boats specified. All services necessary to satisfy the intent of receiving a boat, motor and trailer that is ready for use at the time of delivery shall be included in the total price.

**B. Delivery**

1. Delivered in sixty (60) days from receipt of purchase order.

2. Contact Matt Majors three (3) business days prior to delivery so that arrangements can be made.
3. Matt Majors at [Matt.Majors@tn.gov](mailto:Matt.Majors@tn.gov) or 423-693-6852

## **C. Patrol Boat**

1. Finished Edge Center Console Law Enforcement Patrol Boats.
  - a. Finished edged boats are also known as “liner” boats and are constructed so they incorporate a separate, fully molded fiberglass liner that fits inside the hull of the boat resulting in a design that has two distinct layers. Bay Boat design, self -bailing cockpit with non-skid decking.
  - b. Boats must comply with all federal standards for recreational boats and shall have a minimum limited lifetime manufacturer’s hull warranty against structural failure.
  - c. Boats shall contain no wood (including stringers, transom, decks, or compartments and lids) and shall be commercial grade construction for continual harsh service.
2. The Contractor shall provide the following boats:
  - a. Acceptable Boat Model: Bay Boat with center fiberglass console. Style Performance Outside-Chine Stepped Hull
    1. Boat Dimension: Length 23’0” (minimum) – 25’0 (maximum)
    2. Beam 102” minimum, Transom Height – 25” (minimum)
    3. Fuel Tank shall be 90-gallon minimum capacity.
    4. Fresh Water Tank 8-gallon minimum capacity
3. Boat Requirements:

- a. Shall be 100% Hand Laminated Fiberglass Construction.
- b. The Hull support system shall be composite construction material (no wood allowed).
- c. Hull- Outside-Chine Stepped Hull design for stability and High-Speed Performance. Insides and bottom shall be filled with closed cell foam flotation to the extent possible.
- d. Driver seating shall be leaning post with footrest and back rest, all welded construction. Foam padding for seats shall be a commercial grade density.
- e. The color shall be white.
- f. Deck shall be an anti-skid gel coat.
- g. Instrument Panel to include:
  - 1. Tachometer
  - 2. Speedometer
  - 3. Engine water pressure gauge
  - 4. Voltmeter
  - 5. Navigation/Anchor light switches
  - 6. Cigarette lighter receptacle or similar device for running portable electric equipment.
  - 7. Fuel gauge
  - 8. Power trim indicator
  - 9. Other switches for optional equipment as specified.

10. A compass is not required. If a compass is provided as standard equipment, it shall be lit.

11. Engine hour meter.

12. Rub Rails shall be equipped with rubber-lined inserts.

- h. Tilt Steering Wheel with power knob, and hydraulic steering.
- i. Two (2) 1500 gph Bilge pumps (1 automatic with switch, 1 manual)
- j. Navigation lights, electric meeting requirements of U.S. Coast Guard. Red/Green bow light shall be included even if not standard.
- k. Batteries: Boats shall be equipped with two (2) heavy duty marine cranking batteries (850 Amp Minimum). Boats shall be equipped with a battery selector switch (allowing it to be started from either battery) or a battery isolator so that the alternator shall charge both batteries regardless of battery switch position.
- l. Center Console with glass windshield, with a passenger seat forward of console. Stainless steel grab rail, footrest, and leaning post.
- m. Storage: minimum of two (2) compartments forward and aft with additional storage under console and seat, any additional compartments such as "live wells" shall be converted to dry storage. In deck storage/fish boxes below the waterline shall be filled with high density foam flotation and sealed
- n. Boats shall have a built in, or added on, commercial grade boarding ladder attached to the transom that can be folded or stowed out of the way when not in use.
- o. Boats shall be operationally water tested, and any required adjustments made. All operational features of boats as specified shall be tested to deliver a boat ready for use.
- p. A keel guard shall be provided and installed by the Contractor.

- q. Six (6) retractable style stainless steel cleats.
- r. Two (2) pull strings are installed running from bilge area to the console for future installations.

## **D. CUSTOM EQUIPMENT**

### **1. T Top:**

- a. Shall be made of 2-inch powder coated aluminum tubing mounted securely to the boat and console. Top shall be of sufficient height to allow operation of 6'4" tall operator while standing. Top shall be made of fiberglass.
- b. The top shall cover the area: width to within 8 inches of each gunwale and extend at least three feet in front of, and three feet behind the built-in electronics box.
- c. The T-top shall include a built-in electronics storage box constructed of fiberglass, minimum 1/8-inch thickness, white. (Approximate size: 30 inches wide, 14 inches deep and 12 inches tall). Power connections for radios shall be run to the box. A 12" Garmin Echomap or Hummingbird Helix shall be installed on the flush mount of the vessel. The supplier shall be responsible for installing wireless engine cut-off switches provided by TWRA.

### **2. Lights:**

- a. Enforcement (blue lights) Light Bar shall be permanently mounted on top of T Top. The 48-inch blue light bar shall be provided by TWRA so consideration shall be made in the construction of the T-Top to allow the manufacturer the responsibility of installation.
- b. TWRA shall be responsible for final switch/controller installation for blue lights. The T-Top shall have three permanently mounted L.E.D. spreader lights mounted to illuminate forward, aft of boat, spreader light switches for each light shall be labeled and mounted on the console.

3. Electronic devices:

- VHF marine radio: Garmin VHF 215 or Raymarine Ray 52 or similar. Supplied by the Contractor and installed in the overhead electronics box.
- Sonar Display - Garmin 1243XSV MFD installed in console.

## **E. BOAT TRAILERS**

1. The contractor shall provide a custom fitted boat trailer. The trailer shall meet the following requirements:
2. Trailer Requirements:
  - a. Standard Trailer shall be tandem axle, drive-on type with load capacity sufficient to carry the fully loaded boat as described above and adjusted to fit the boat as delivered.
  - b. Frame shall be I beam construction with stainless steel hardware and load bearing fenders.
  - c. Tires shall be radial type (4 Ply) of sufficient size and load capacity to support the weight of a fully loaded boat and trailer.
  - d. The trailer axles shall be torsion axles.
  - e. Lights: shall be equipped with running lights, reflectors and turn signals/brake lights to meet federal safety standards and be submersible type. All lights shall be L.E.D.
  - f. Equipped with swing-away tongue jack with rolling wheel and minimum of 400-pound capacity. The axles shall be positioned to balance the load. The tongue weight shall not exceed 200 pounds.

- g. Winch; heavy duty with web belt.
- h. Spare tire and wheel with pre-services quick change hub assembly.
- i. Two or more full-length carpeted bolsters of 2 X 6 lumber or composite material, mounted horizontally. Lumber shall be treated for water resistance, or Cypress wood.
- j. Ball Hitch: Class 2 trailer, two-inch ball (or heavier).
- k. Safety Chain or coated cables: Class 2.
- l. Trailers shall be equipped with two (2) rear tie down securing straps to secure stern of boat to trailer.
- m. Trailers must meet all federal safety standards.
- n. Brakes: shall be equipped with hydraulic surge disk brakes.
- o. Warranty: shall be supplied with the manufacturer's standard new equipment warranty for boats/trailers in commercial service unless other warranties are required by this specification.

## **F. OUTBOARD MOTORS**

1. Outboard motors shall be supplied and installed by the Contractor; Contractor shall provide and install all controls. Motor controls and gauges shall be the same brand as motor. Fuel filter/water separator of canister style, matched to the motors, and of same brand as the motors provided. Filter shall be readily accessible for servicing.
2. The outboard motors with propeller and controls shall be supplied and installed by the Contractor.
3. The motors and all controls and features shall be tested, and the boat delivered in a ready-to-run condition.

4. The Contractor shall supply one (1) 300 horsepower Yamaha VF300XB (preferred) or Mercury outboard motor with a stainless-steel propeller and 25" shaft.