

GENERAL SPECIFICATIONS

Vendors are to include in their bids the cost of assembling, adjusting and testing the specified boat, motor, and trailer. The trailer and motor are to be adjusted and installed per the manufacturers' specifications for the boat 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 is to be included in the bid price.

Boat is to be delivered to 761 Emory Valley Rd., Oak Ridge, TN 37830

A. BOAT

Aluminum construction, center console, modified V Jon or bass/fishing style boat to be used in rivers and creeks for environmental sampling. Boat must comply with all federal standards for recreational boats and must have a minimum limited lifetime manufacturer's hull warranty against structural failure. Boat must contain no wood (including stringers, transom, decks, or compartments and lids).

1. Outboard engine shall be supplied and installed by dealer/manufacturer; dealer/manufacturer shall provide and install all controls. Engine controls and gauges must be as is standard for the engine manufacturer. Fuel filter/water separator of canister style, matched to engine, and readily accessible for servicing.
2. Boat dimension: Length 19'6" (minimum) to 21' (maximum), Beam 7'6" (minimum) to 9' (maximum).
3. Must be 100% aluminum construction.
4. Hull support system must be aluminum (no wood allowed).
5. Must have driver seating for a center console and must contain a dry storage. Must have passenger seating on both sides of driver seating and in front of center console.
6. Color must be matte finish in natural colors (tan, brown, grey, black, or shades of green, and camo is also acceptable).
7. Deck must be anti-skid.
8. Instrument Panel must include:
 - a. Tachometer
 - b. Speedometer
 - c. Bilge pump and LiveWell switches
 - d. Voltmeter (acceptable to be included in graph)
 - e. Navigation/Anchor light switches
 - f. Cigarette lighter receptacle or similar device for running portable electric equipment.
 - g. Fuel gauge
 - h. Power trim indicator

- i. Power switches and battery selector switch if multiple cranking batteries installed.
 - j. Other switches for optional equipment as specified.
 - k. If compass is provided as standard equipment, it shall be non-lighted. A compass is not required.
9. Steering must be hydraulic.
 10. Fuel tank must be built in with minimum fifteen (15)-gallon capacity.
 11. Must have bilge pump with minimum eight hundred (800) gallons per hour capacity.
 12. Navigation lights must be electric and meet the requirements of U.S. Coast Guard. Red/Green bow light must be included even if not standard.
 13. Must be equipped with heavy duty cranking battery.
 14. Center Console must have a Lexan windshield.
 15. Must have storage with a minimum of two compartments forward and aft with additional storage under console and seat
 16. Boat must 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.
 17. Boat and all features must be tested with engine tuned and ready for use.
 18. Manufacturer's standard keel guard must be provided and installed by manufacturer.
 19. State personnel will place necessary departmental decals on hull.
 20. Must have a minimum of four tie down cleats.
 21. Must have transom saver installed. "MotorMate" style preferred but brand is not required.

(B) OTHER EQUIPMENT

1. Two 8' blade power poles installed, and op checked.
2. Minn Kota Ultrex 112 MDI or larger if appropriate for boat with appropriate length shaft.
3. Electronics: Garmin Echomap Ultra 122SV Chartplotter installed on the bow. Garmin Echomap Ultra 106SV Chartplotter installed in console. Panoptix Livescope

Plus Scanning Sonar System with mounting pole kit independent of the trolling motor. Three deep cycle marine grade batteries with an onboard charging kit. All installed with parts and labor included.

Note to Bidders: Bid price must include all modifications necessary to meet all listed specifications.

C. BOAT TRAILER

1. Trailer must be tandem axle, drive-on type with load capacity sufficient to carry the full loaded boat as described above and adjusted to fit the boat as delivered.
2. Frame must be aluminum or galvanized.
3. Tires must be radial type (4 Ply) of sufficient size and load capacity to support the weight of fully loaded boat and trailer.
4. The trailer hubs must be five (5) lug with bearings capable of being greased without removing the wheels.
5. Trailer must be equipped with running lights, reflectors and turn signals/brake lights to meet federal safety standards and be submersible type. All lights must be LED.
7. Trailer winch must be heavy duty with web belt.
8. A spare tire and wheel must be mounted on the trailer.
9. Two or more carpeted bolsters must be mounted horizontally. Lumber must be treated for water resistance.
10. Ball Hitch must be Class 2 trailer, two-inch ball.
11. Safety Chain or coated cables must be Class 2.
12. Trailer must be equipped with two (2) rear tie down securing straps to secure stern of boat to trailer. Straps must be mounted, "quick", ratchet straps.
13. Trailer must meet all federal safety standards.
14. Trailer must have the manufacturer's standard new equipment warranty for boats in commercial service.

D. OUTBOARD MOTOR

1. The outboard engine with propeller must be supplied by and installed by the dealer and should be the maximum horsepower rating for the boat due to its use in

waters with a strong current. Acceptable manufacturers include Yamaha, Mercury, Evinrude, and Suzuki or equal.

2. All controls for the outboard engine must be supplied and installed by the dealer/manufacturer.
3. The engine and all controls and features must be tested, and the boat delivered in a ready to run condition.
4. Outboard engine must be a 4-stroke.