

**Specifications to Build a 27' Dump Barge  
for Tennessee Wildlife Resources Agency (TWRA)**

**A. General Information:**

Bidder shall complete an all-welded aluminum flat bottom straight sided barge. This is for the barge only. Boat motor and trailer shall not be part of this bid. See example of boat in Appendix. Boat shall be built like Lifeyme Boats Dump Barge Model 27102 model or equivalent.

**B. Dump Barge Details:**

1. 27' Length plus Gill Bracket
2. 8'6" Beam
3. 36" sides
4. ¼" thickness Hull marine alloy 5086
5. 3/16" thickness Sides marine alloy 5052
6. ¼" thickness plate on dump bed marine alloy 5086
7. Flat bottom shall include ice runners every 12" (2"x 2"x3/16" aluminum angle) 6061/6063 marine alloy
8. Non-Skid tape on deck floor. Builder brand and specification.
9. Dump system shall be (Honda Hydraulic Pump) type or equal quality
10. Dump capacity approximately #8000 lbs.
11. Dump Bed length shall be 16'
12. Dump Bed sides shall be removable 16'
13. 16-Plastic Boards 5/4"x 6"x 16' Trex type or equal
14. Handrails 10' length stern to dump aluminum 5086 alloy or builder engineered specification.
15. Gill Bracket for single engine builder engineered specification.
16. Shall include motor cage around engine builder engineered specification.
17. 2"x 4" aluminum rub rail top and middle of gunnels 6061/6063 marine alloy or builder engineered specification.
18. 1-Deck Door ample size for ease of access approx. 2 feet by 2 Feet or size engineered by builder.
19. 4- T-bits to fit decking screws to anchor plastic Boards in line 13
20. Side Console: 30" width, 36-5/8" height, 17" depth all Aluminum 090-.125 material thickness 5052 marine alloy or builder engineered specification.
21. Box Seat with dry storage 30" width, 20" height, and 17" depth. All Aluminum 090-.125 material thickness marine 5052 alloy or builder engineered specification.
22. Flat bottom shall be constructed from 1 solid sheet of aluminum with no weld seems. Weld seems shall not be accepted.
23. 4 Capstans shall be placed 1 on each corner of non-dumping deck portion of boat. Shall be constructed from 3" aluminum pipe with cap plate and t lug for anchoring. 5086 or builder engineered specification.

24. 4 gooseneck hull vents shall be installed in line with handrails constructed from 1 ¼" pipe with vent screens, 5086 or builder engineered specification.
25. Rigging Items shall Be Included:
  - a. Fuel Tank 35 gallons aluminum, EPA Certified fuel system, hose kit, fill and vent, fuel gauge
  - b. Hydraulic steering Teleflex single engine or equal quality, Stainless Steel Steering Wheel
  - c. Electric control panel-all wiring shall be shrink wrapped
  - d. Navigation lights shall be Coast Guard approved
  - e. 1 battery, 1 battery case, 1 battery selector switch builder choice
  - f. 1- 12-volt receptacle
  - g. (2) Trim tabs shall be Electric Lenco 9" x 12" or equal quality
  - h. Bilge Pump shall be 1100 GPM builder choice
  - i. 1- Electric Horn
  - j. 1- Fuel Filter
  - k. Shall include 1 hydraulic jack plate (TH marine Atlas 4" setback) capable of handling up to 300 HP. Console gauge not necessary

**C. Special Notes:**

1. Boat shall be all aluminum all welded boat without any rivets.
2. Winning Bidder shall provide TWRA with information regarding Ice Runner measurements and placement within 1 week of award of bid so that TWRA can construct the boat's trailer.
3. All Specifications and Notes shall be considered as minimum.
4. All super structure framing components and design shall be provided by winning bidder and ensure that boat shall be sound and shall not fail.
5. Flat bottom shall be constructed from 1 solid sheet of aluminum with no weld seems. Weld seems shall not be accepted.
6. Bidders shall have a minimum of 5 years of working knowledge of dump barge construction and operation.
7. All specifications are considered minimum.

**D. Delivery:**

1. Boat shall be completed within 180 days of award.
2. Boat shall be picked up by TWRA representative on site at winning bidder's location of manufacture.
3. Bidder shall call 2 weeks before delivery so that arrangements can be made. TWRA Point of Contact: Adam Young [Russell.R.Young@tn.gov](mailto:Russell.R.Young@tn.gov) or 423.312.1660.

# Appendix

