

**Specifications
Amphibious Excavator
For Tennessee Wildlife Resource Agency (TWRA)
ITB 32801-13215**

This solicitation is for the procurement of 1 (one) John Deere Amphibious Excavator, all Welded Construction to perform work in and around the Agency's WMA areas.

A. General Requirements:

1. The Excavator shall be a John Deere 75 P-Tier Mid-Size Excavator with a Thumb.
2. The Excavator shall be 8 (Eight) metric tons with pontoons.
3. The excavator shall come with a Long Arm and 48" Bucket.
4. Shall have an Amphibious Undercarriage.
5. Speed shall be up to 1.5 mph on hard dry surfaces and 0.5 mph in water.
6. Grade shall be 100% (45°).
7. The Drive Chain shall be a heavy-duty double-crimped roller chain.
8. Drive axles and sprockets shall use splined shafts and hubs.
9. Track Chain shall be two strands of heavy-duty 4" pitch marsh buggy track chain per pontoon.
10. Bearings pontoons shall have bearing on all four corners No Bushings are used.
11. Track Chain Adjustment shall adjust the full life of the chain without the removal of track chain links or cleats. 15" minimum on the front and rear of the pontoon.
12. Paint shall be Blasted SP10, Zinced, primed, Poly Color coat ply Clear topcoat. Inside Pontoon primed to prevent rust. The standard pontoon color shall be Black.
13. UHMW (Teflon) Cleats shall have 3" x 2" Black Teflon Cleats.

B. Pontoon (Undercarriage) Requirements:

1. Pontoons shall have multiple compartments which provide watertight compartments.
2. Pontoon bottoms shall be reinforced for rough terrain operation.
3. Chains and pads shall be recessed to minimize side movement and jumping of tracks to keep mud and debris to a minimum.
4. Pontoon Tracks shall have the ability to be driven independently.
5. The undercarriage shall come equipped with manufactured hydraulic travel motors, brakes, and gearboxes.
6. Final reduction shall be chain and sprocket.