

TAAT e-catalog for dev partners

Tank Systems for Fish Culturing

Aquaculture Innovation: Growing the Future, Nurturing the Waters

A tank system for fish culturing is a land-based, intensive aquaculture enclosure. Made from materials like concrete or plastic, it requires a complete feed diet and can operate on various water and air supply systems. It's designed for highdensity rearing of species like catfish and tilapia, with regular sorting needed. Success hinges on excellent water quality and year-round availability.





Technology originally documented by

Bernadette Fregene

ProPAS

Commodities

Fish

Sustainable Development Goals



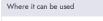
Categories

Production, Equipment, Aquaculture Systems

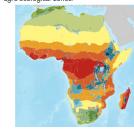
Best used with

- All Male Tilapia Fingerlings with Greater Yield and <u>Uniformity</u>>
- Fast Growing and Hybrid African Catfish >





This technology can be used in the colored agro-ecological zones



This technology is **TAAT1 validated**.

8.8

Scaling readiness: idea maturity

Gender assessment

Problem

methods.

leading to slow growth.



• Resource and Environmental Challenges:

maintaining optimal water conditions, and

• Production and Efficiency Issues: Limited

due to cannibalism, and inefficient feed use

· Market Accessibility: Increased costs and

Limited land and water resources, difficulty in

significant environmental footprint of traditional

capacity for high-density rearing, high death rates

reduced freshness due to distance from markets

Climate impact

Solution

- Resource and Control Efficiency: Less land and water usage with optimal environmental
- Intensive Rearing and Survival: High-density fish production with minimized cannibalism.
- Market Proximity and Feed Optimization: Close to markets with maximized food
- Environmental, Biosecurity, and Energy Solutions: Reduced footprint, disease risk, and energy use.

Cost: \$\$\$ 120 USD

Premade suspended tanks with a volume of 2000 liter

500 kg

harvest every 9months for a stocking rate of 50 fish per square meter

330 USD

Gross margin after deducting operating costs

