

Tank Systems for Fish farming

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 high-density rearing of species like catfish and tilapia, with regular sorting needed. Success hinges on excellent water quality and year-round availability.



A concrete tank for raising catfish



This technology is **TAAT1 validated**.

8-8



Scaling readiness: idea maturity 8/9; level of use 8/9

Gender assessment

4

Climate impact

7

Problem

- **Resource and Environmental Challenges:** Limited land and water resources, difficulty in maintaining optimal water conditions, and significant environmental footprint of traditional methods.
- **Production and Efficiency Issues:** Limited capacity for high-density rearing, high death rates due to cannibalism, and inefficient feed use leading to slow growth.
- **Market Accessibility:** Increased costs and reduced freshness due to distance from markets

Solution

- **Resource and Control Efficiency:** Less land and water usage with optimal environmental control.
- **Intensive Rearing and Survival:** High-density fish production with minimized cannibalism.
- **Market Proximity and Feed Optimization:** Close to markets with maximized food conversion.
- **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



Technology from

ProPAS

Commodities

Fish

Sustainable Development Goals



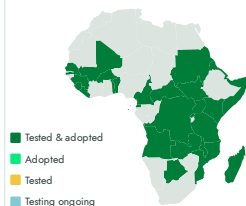
Categories

Production, Equipment,
Aquaculture Systems

Best used with

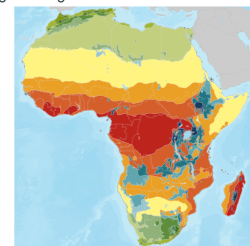
- [All Male Tilapia Fingerlings with Greater Yield and Uniformity >](#)
- [Fast Growing and Hybrid African Catfish >](#)

Tested/adopted in



Where it can be used

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



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Last updated on 30 September 2024, printed on 10 December 2024

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