Cage Systems for Fish Culturing

Cage Culture: Dive Deep for a Sustainable Leap!

Cage Systems for Fish Culturing is a method where young fish are grown in submerged cages in large water bodies. The cages protect the fish, provide nourishment, and monitor their health. Once mature, the fish are harvested. This technique allows for natural, secure, and regulated fish farming, akin to a floating aquaculture facility.





| This technology is TAAT1 validated . | Scaling readiness: |
|---|--------------------|
| | |
| Gender assessment | Climate impact |

Problem

- Space and Control: Traditional fish farming requires large, expensive land and lacks control in open waters, leading to losses from predators and disease
- Water Quality: In other forms, especially in small ponds, water quality can deteriorate quickly causing problems like low oxygen levels and harmful substance buildup.
- Environmental Impact: Some methods can negatively impact the environment, such as causing pollution from waste products.
- Unpredictable Events: In open waters, upwelling events can drastically change conditions in the cage, affecting fish health.

Solution

- Space and Control: Cage systems efficiently use water bodies, reducing the need for large land areas and providing a controlled environment for the fish.
- Water Quality: They help manage water quality issues common in other forms of aquaculture.
- Environmental Impact: Cage systems aim to minimize the environmental impact of aquaculture.
- Upwelling Events: High-tech solutions have emerged to predict and mitigate upwelling events.

| Commodities |
|--|
| Fish |
| |
| Sustainable Development Goals |
| 1 Porting かいかいかい 2 Handler がいかいかい 5 5555 |
| |
| 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 >

Tested/adopted in



Where it can be used

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



Target groups

Fish Farmers

Key points to design your project

Cage aquaculture systems are transforming fish farming in Africa. They offer a scalable, eco-friendly solution that boosts income and aligns with sustainability goals.

Successful implementation requires farmer training, key partnerships (including cage system manufacturers, feed suppliers, aquatic veterinarians, certification bodies, and local fishermen communities), water source assessment, understanding of market demand, and logistics planning.

Research institutions play a crucial role in providing the latest research on cage system technologies and best practices. Each partner brings unique resources and expertise, ensuring the project's success and sustainability.

> 150 USD Fish cage of 8 cubic meter

> > \bigcirc IP

Open source / open access



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