

Affordable Fish Feed Production: Formulation and Pelleting of Low-Cost Feeds

Empowering Aquaculture with Affordable Feeds



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The technology "Formulation and Pelleting of Low-Cost Feeds" aims to reduce the cost of fish feeds in Sub-Saharan Africa, where fish farms spend about 60-70% of their budget on imported feed. It promotes the use of local resources to produce quality, cost-effective and balanced fish feeds. This innovation could enhance the profitability and sustainability of fish farming businesses.

This technology is **TAAT1 validated**.

8·8

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

Project adoption **1**

Technology integrated in the PROMAC project, in Benin.

Inclusion assessment **4**

Climate impact **7**

Technology from
ProPAS

Commodities
Fish

Sustainable Development Goals

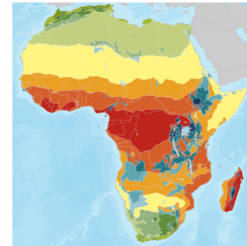
Categories
Pre-production, Inputs, Fertilizer

Tested/adopted in

■ Tested & adopted
■ Adopted
■ Tested
■ Testing ongoing

Where it can be used

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



Problem

- Fish farming in Sub-Saharan Africa is costly due to expensive feeds.
- A large part of the cost is for imported feed ingredients.
- Simple, unprocessed grains used in feeds lead to poor nutrient transfer and pollution.
- High costs and inefficiencies limit the profitability of fish farming.

Solution

- The technology makes affordable fish feeds using local products.
- Pelleted feeds improve nutrient transfer and reduce pollution.
- Pellets are easier to store and transport, reducing costs.
- The technology allows feed customization for different fish species.

Key points to design your program

Affordable Fish Feed Production improves the availability, affordability, and quality of fish feed manufactured from locally available ingredients, helping reduce production costs while strengthening local feed supply systems. Suitable for food security, aquaculture development, agribusiness, and blue economy programmes, the technology contributes to **SDGs 1 (No Poverty), 2 (Zero Hunger), 8 (Decent Work and Economic Growth), 12 (Responsible Consumption and Production), and 13 (Climate Action)** while creating business opportunities through local feed manufacturing and distribution. To successfully integrate this technology, consider the following key actions:

- Target priority aquaculture hubs with strong market demand and reliable access to locally available feed ingredients.
- Establish partnerships with WorldFish, research institutions, extension services, feed manufacturers, and aquaculture cooperatives to strengthen feed production, quality assurance, and technical support.
- Invest in feed production equipment, strengthen local ingredient supply chains, and build technical capacity for feed manufacturing enterprises.
- Promote species-specific feed production, integrate improved fish strains with locally produced feeds, and monitor feed quality, enterprise performance, and programme outcomes.

Target groups
Breeders

85,000 usd
Equipment of production



<https://taat.africa/wtg>

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