

TAAT e-catalog for dev partners

In-Pond Raceway Systems for Fish Farming

Revolutionize your fish farming with IPRS for maximum yields and sustainability.

The In-Pond Raceway System (IPRS) is an advanced aquaculture technology that maintains optimal water quality through continuous water flow and waste management, allowing for high-density fish farming.





Technology originally documented by

ProPAS

Commodities

Fish

Sustainable Development Goals







Categories

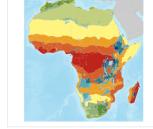
Production, Practices, Production system

Best used with

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







This technology is **TAAT1** validated.



Gender assessment



Climate impact



Problem

- Traditional pond farming limits fish productivity per area, reducing profits.
- Inadequate waste removal causes pollution and harms fish health.
- Traditional methods demand extensive land and labour, raising costs.
- Inadequate water circulation and oxygen levels lead to inefficient feed conversion.

Solution

- The In-Pond Raceway System (IPRS) enables stocking densities of up to 150 kg per cubic
- IPRS recreates the fish's natural environment, promoting faster growth and keeping them free from diseases and stress.
- · Production of higher-quality fish in less water and often exceeding traditional pond production by 200 to 300%.

Cost: \$\$\$) 4 000 USD IPRS of 5 m long, 1.2 m wide, and 1.2 m deep ROI: **\$\$**\$

30 %

Profit margin increased

0.5882 kg of fish

1.57 USD

0.31 usp

 \bigcirc_{IP}

for 1kg of feed

8-month total variable costs per kg

8-month total fixed costs per

Patent granted