



# 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 from

Commodities

**ProPAS** 

Fish

Sustainable Development Goals







### Categories

Production, Equipment, Production System

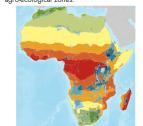
### Best used with

- 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.

7.7

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%.

## Key points to design your project

The In-Pond Raceway System (IPRS) technology offers significant benefits for food security and climate resilience. To integrate it into your project, consider these steps:

- Choose a design and size of raceway that matches your objectives and resources.
- Ensure access to quality water and electricity supply for continuous flow.
- Train staff to minimize operating costs.

By following these steps, you can successfully integrate the IPRS technology into your project, thus enhancing food security and climate resilience.

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

 $\bigcirc$ <sub>IP</sub>

for 1kg of feed

8-month total variable costs per kg

8-month total fixed costs per kg

Patent granted