

Engineering the Future of Aquaculture

Precision Construction for Biofloc Shrimp Nurseries & Grow-out Ponds



Aqua Mitra: Building Trust with Quality Work.



Infrastructure is Performance

At Aqua Mitra, we believe scientific design, engineering precision, and field practicality must work together. We do not simply construct ponds; we build controlled aquatic environments tailored to maximize shrimp growth and optimize feed conversion.

- ✓ Integration of aquaculture science with engineering discipline.
- ✓ Focus on water stability, biosecurity, and feed efficiency.
- ✓ Building Trust with Quality Work.





Global Scale, Proven Expertise

2,700,000

Square Metres of Biofloc
Shrimp Ponds Constructed

1,600+

Shrimp Nurseries
Built

10 - 10000

Tonnes Capacity Range
Per Project



Strong Harvests Begin with Strong Juveniles

The Nursery Advantage

A well-designed nursery is a controlled environment where post-larvae transition into uniform juveniles. Consistency at this stage directly influences survival rates and final harvest outcomes.





**AQUA
MITRA**

Precision Tank Engineering

Capacity Range: Custom solutions from **10 to 1,000** tonnes.

Design Shapes: Circular, rectangular, or raceway-style for uniform circulation.

Materials: Reinforced concrete & HDPE lining for leak-proof containment.

Sludge Management: Engineered slope design for gravity-assisted waste removal.

Life Support & Biosecurity

Aeration

Strategic positioning of diffusers and paddle wheels to maintain consistent Dissolved Oxygen.



Biosecurity

Controlled entry points, footbaths, and drainage segregation to minimize disease risk.



Water Exchange

Inlet/outlet systems designed to prevent cross-contamination.



The Biofloc Advantage

Converting Waste into Resources



- Improved feed efficiency
- Enhanced water stability
- Higher stocking densities
- Reduced water exchange



From Satellite Analysis to Site Design

1. Site Visit

Detailed technical evaluation of land contours and soil strength.

2. Data Analysis

Review of historical satellite data, tidal patterns, and local climatic conditions.

3. CAD Precision

Custom pond layouts designed to minimize dead zones and optimize depth.



Structural Integrity & HDPE Installation



- **HDPE Geomembrane**

Precision installation to prevent seepage, seepage, enhance biosecurity, and extend pond lifespan.

- **Dike Engineering**

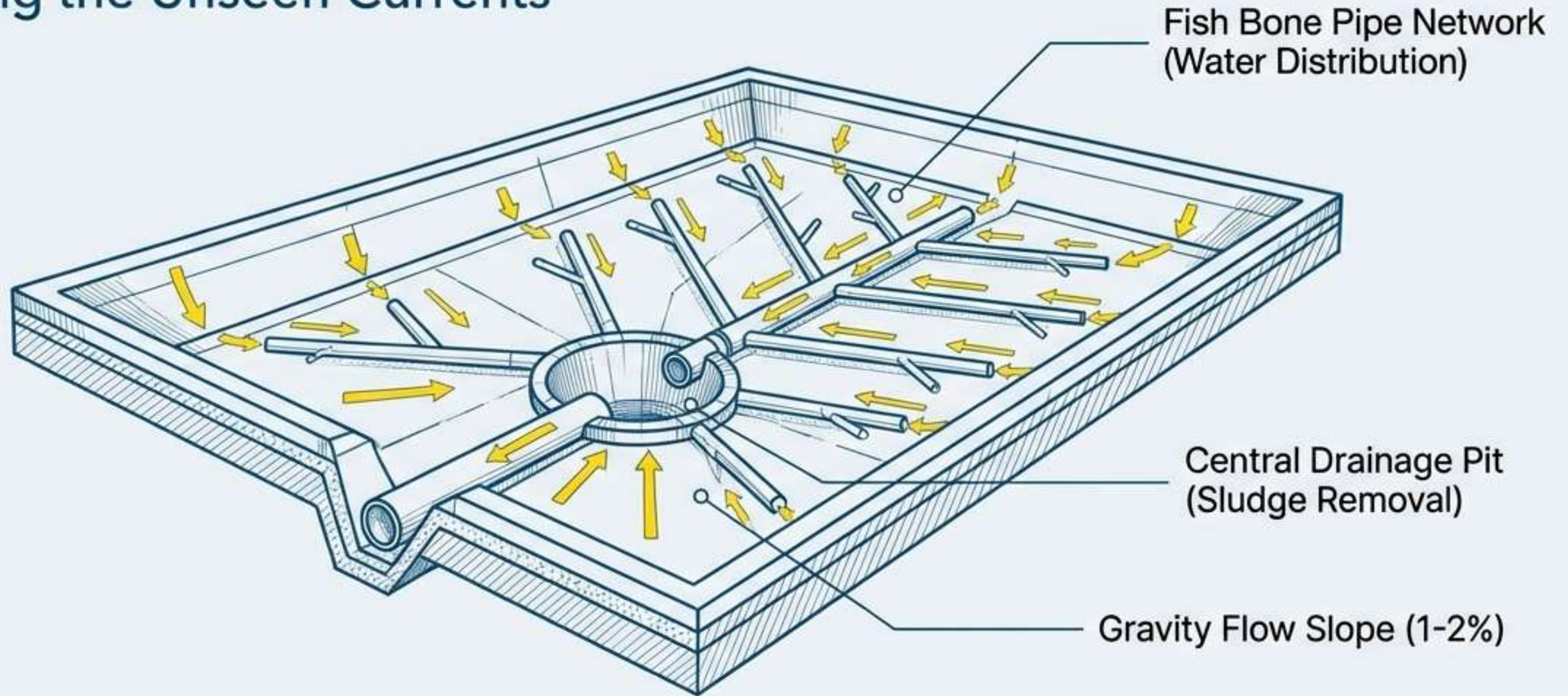
Evaluated for load-bearing requirements and flood protection.

- **Soil Stability**

Rigorous testing to ensure long-term durability.

Advanced Drainage & Circulation

Managing the Unseen Currents



Operational Efficiency & Safety



- **Galvanized Iron Catwalks:** For easy feeding and maintenance.
- **Biosecurity Barriers:** Crab and Bird Fencing.
- **Practical Layouts:** Reducing labour, improving access.

Beyond the Pond: Comprehensive Solutions



Effluent Treatment
Plants (ETP)



Hatchery Infrastructure
& Epoxy Painting



Microalgae &
Seaweed Projects

The End-to-End Client Experience



- Seamless Communication



- Multi-phase Job Management



- Operational Site Safety

“The entire team tactfully delivered a project of exceptional quality while staying on schedule and under budget.”

— Project Manager, Vaishnavi Hatcheries

Why Choose Aqua Mitra?

Scientific Foundation

Biology drives our engineering.

Holistic Approach

From CAD design to final execution.



Global Track Record

2.7M+ square metres of success.

Partnership

Functional, beautiful structures.



Build Your Future with Aqua Mitra

Bring our project management skills and extensive construction experience to your next project.

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