

Sasya Smart Biofloc Culture Management

Product Brochure

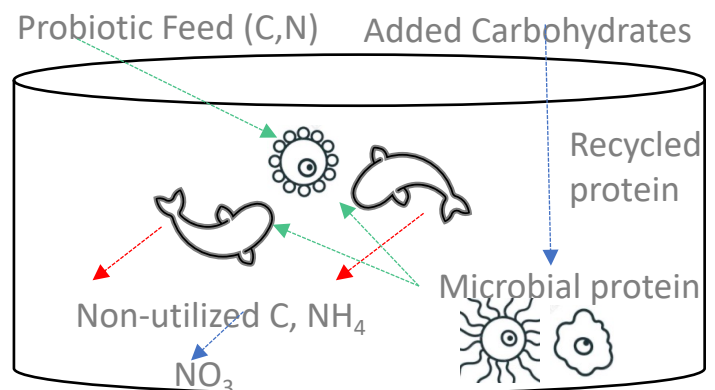
New Possibilities

Do you worry about your Biofloc (BFT) parameters and fish health?
Do you need a scientific & data driven approach that helps you measure key parameters, and also provide alerts on mobile?

In densely populated, low-filtered BFT cultures, the optimum growth and sustenance of the fish and shrimp is dependent on the quality of the water ('culture').

Measurement of key parameters - pH, EC, temperature, Nitrates, Ammonia and Dissolved O₂ is vital.

Sasya provides a low-cost, indigenously designed Biofloc Culture Management, based on sensors and IoT principles to provide real time measurement of these parameters.



Parameter	Ideal / Observed ranges
Dissolved Oxygen	Above of 4.0 mg L ⁻¹ (ideal)
Temperature	28–30° (or tropical species)
pH	6.8–8.0
Nitrite	Less than 1 mg L ⁻¹ (ideal)
Nitrate	0.5–20 mg L ⁻¹
TDS (SS/TSS)	Different for different types

Fit Sasya Smart Biofloc Culture Management and forget about worries to monitor your Fish or Shrimp tank's parameters

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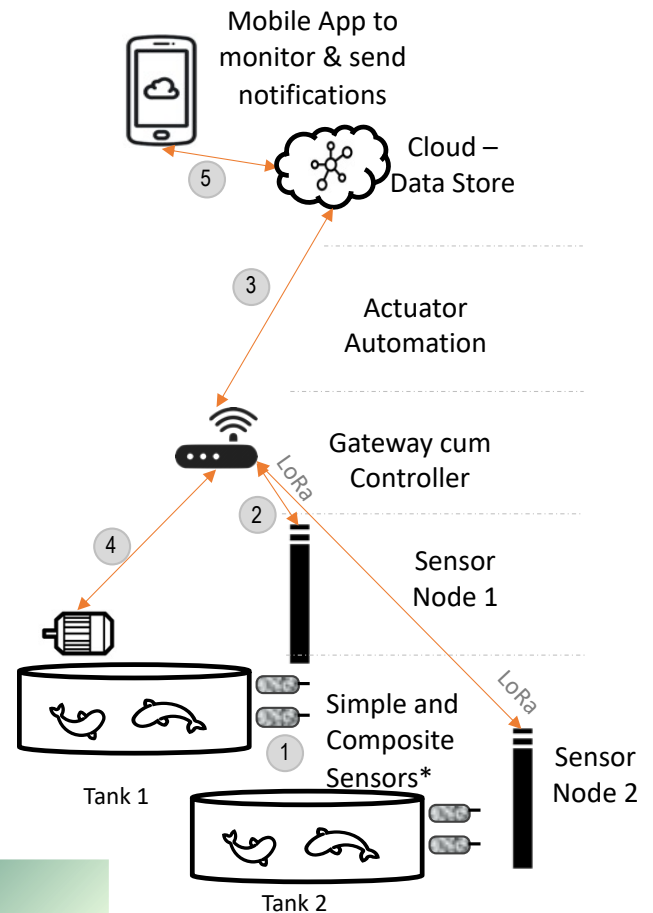
IoT based system with sensors for constant monitoring and alerts

Sensors: pH, EC, TDS, Temperature, Dissolved O₂, Sensors & dispensers for Ammonia, Nitrate/Nitrite (in-making)

Sensor Nodes: Battery & Solar powered multi-zone Sensor Nodes.

Gateway-Controller: Receives data from sensor nodes on LoRa, provides local brain

Mobile App: Mobile app is provided to set limits and check status of each key water parameter



Highlights



Multi-zone Sensor node for many fish tanks connected to same Gateway



Full IoT stack in action for Measure and Control, and provision for automation



Solar powered to ensure parameter tracking and alerting is ON, even in-case of power failure



Wifi connected, can be programmed, monitored and troubleshoot remotely.

Benefits

Most of the key parameters are already tracked through simple & composite sensors, a few others in making

Reduce fish mortality

Improve food intake and faster growth.

Tie up with Probiotic companies for feed supply



www.sasyasystems.com | SASYA SYSTEMS | IoT Measure-Control-Automate
426, 9th Main, 23rd Cross, HSR Layout, Sector 7, Bangalore 560102



santosh@sasyasystems.com | +91 8197239206