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Vannamei Shrimp Farming in Biofloc System Shows Promise for Andaman: ICAR-CIARI

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The Fisheries Science Division (FSD) of the ICAR–Central Island Agricultural Research Institute (CIARI) has successfully standardised a biofloc-based culture system for *Penaeus vannamei*, demonstrating strong potential for sustainable and high-yield shrimp production in the Andaman & Nicobar Islands.

The system was developed and validated using three indoor circular biofloc tanks, each measuring 4 metres in diameter with a water holding capacity of 10,000 litres. According to the institute, the results indicate that shrimp production through this method is economically viable, offering significant opportunities to enhance local livelihoods while boosting domestic shrimp availability in the Islands.

Scientists have also standardised biofloc management practices and harvest strategies, achieving an average shrimp yield of 30–33 kilograms per 10,000-litre tank during each harvest cycle.

The model is considered both scalable and resource-efficient, making it particularly suitable for island regions where land and freshwater resources are limited.

To promote the technology among farmers and stakeholders, ICAR-CIARI will showcase the biofloc shrimp farming system at the upcoming Andaman Food Festival, scheduled to be held from April 17 to 19, 2026. The demonstration is expected to provide practical insights into adopting sustainable aquaculture practices in the region.