

Convener

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IMPORTANT INFORMATION

The participants are to fill-up the trainee's registration form and submit online by clicking the link provided for registration or download the offline form and send duly filled and signed copies via e-mail or WhatsApp or via speed post to ICAR-CIFA address. The State Fisheries officials, Faculty or Technical Staff of College of Fisheries and Research Institutes should submit the application through proper channel. The fish farmers, entrepreneurs and NGO personnel working in similar lines should send their application with recommendation from the Fisheries / Line Departments.

The registration fees for the selected participants will be borne by NFDB (Aquaponics project), ICAR-CIFA. The participants will be provided training kit, session tea, working lunch and certificates by the host organization, but they have to bear TA/DA, accommodation charges and food charges other than working lunch during training program.

Training Date	Submission Deadline
22-24 September 2026	18 September 2026

Registration Fee: Rs.1000/-
apply through www.cifatraining.com

COURSE HIGHLIGHTS:

The training programme will cover the following theory topics:

- Aquaponics systems
- Horticultural crops
- Water quality
- Different plastic materials
- Fish species and their rearing
- IoT in aquaponics system
- Fish-plant health monitoring
- Economics of aquaponics system

The training programme will cover the following practical and exposure visits:

- Visit to ICAR-CIFA Farm & Aquaponics unit
- Planting methods and materials used in aquaponics system
- FRP fabrication, etc.

ABOUT BHUBANESWAR

Bhubaneswar derived its name from Tribhubaneswar, which literally means the Lord (Eeswar) of the Three World (Tribhuban), which refers to Shiva. Along with the old town, the present-day Bhubaneswar has often been illustrated as the Ekamra Khetra (Temple City). It is a confluence of Hindu, Buddhist and Jain heritage boasting of some of the finest Kalingan temples.

How to reach ICAR-CIFA?

ICAR-CIFA is near Dhauli or Dhauligiri, a hill located on the bank of the river Daya. The distance from railway station is 10 km, airport 06 km and Baramunda bus stand 17 km.

Google Map Location

https://goo.gl/maps/FhA3MF196TsmMB8oT7g_st=aw

Weather Condition in March: March in Bhubaneswar mark a pleasant transition from winter to summer, with moderate climate and more comfortable weather (up to 31-36°C).

For further details, please contact to:
The Director, ICAR-CIFA / ICAR training cell
WhatsApp: 7790007797
Email: cifa.training@gmail.com

National Training Programme on Design, Operation and Management of Aquaponics Systems

(22-24 September 2026)



FUNDED BY



National Fisheries Development Board
Department of Fisheries,
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Hyderabad

ORGANIZED BY



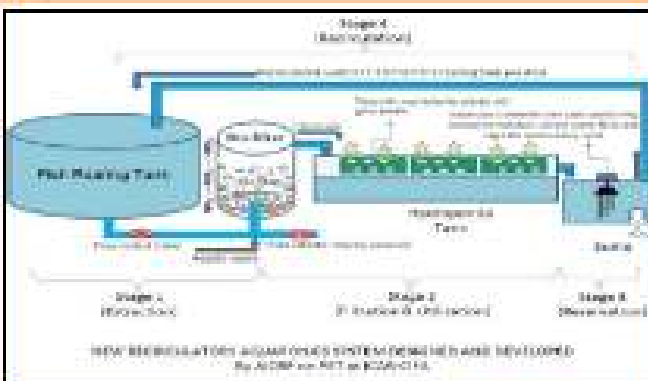
ICAR-Central Institute of Freshwater Aquaculture
Kausalyaganga, Bhubaneswar - 751002, Odisha

Introduction

ICAR-Central Institute of Freshwater Aquaculture (CIFA) is under the administrative control of the Indian Council of Agricultural Research (ICAR), New Delhi. It has the mandate that focuses on sustainable freshwater aquaculture through research, training and extension. The key elements include research on sustainable culture systems, species and Human Resource Development (HRD) like providing training, education and extension for farmers, students and entrepreneurs to improve skills and technology adoption.

The ICAR-CIFA predominantly been working for the last seven years in the field of aquaponics through the AICRP on PEASEM & has also developed the NFT and DWC (Raft) aquaponic systems for the benefit of the end users.

Presently one more project "Development of state of the art industrial aquaponic systems for production of fish and plant biomass" is being financed by the NFDB, Hyderabad and operating at ICAR-CIFA, Bhubaneswar.



Aquaponics

Aquaponics is a sustainable food production system that integrates aquaculture with hydroponics, the soilless cultivation of plants in water. In this closed-loop setup, fish waste provides organic nutrients, which beneficial bacteria convert into forms plants can absorb, while plants filter the water for reuse by the fish.

Here in ICAR-CIFA our research is mainly with two techniques:

Nutrient Film Technique (NFT)

NFT is a decoupled aquaponic systems where plant & fish cultured in separate systems. The system's ability to produce high yields with minimal use of water, nutrients, land and energy, while maintaining environmental, economic and social viability which in turn relies on circulating water mechanism appropriate for crop - fish association. NFT system requires a high initial investment but in due course of time it results in very good returns and increased crop productivity per unit area.



Deep Water Culture (DWC) Synonymous to Raft Aquaponics

DWC is an aquaponic method of plant production by means of suspending the plant roots in a solution of nutrient-rich water primarily the fish rearing tanks. Also known as deep flow technique (DFT) or floating raft technology (FRT). The plants in Raft aquaponics helps to reduce nitrogenous load in the fish rearing tanks.



ACKNOWLEDGMENT

The financial support from NFDB, Hyderabad is duly acknowledged under the project entitled "Development of state of the art industrial aquaponic systems for production of fish and plant biomass" operating at ICAR-CIFA.