



**ADVANCED TRAINING IN
AQUACULTURE NUTRITION AND
FEED TECHNOLOGY**

From 27th February to 7th March 2020

Organized by

ICAR - Central Institute of Brackishwater Aquaculture (CIBA)

**#75 Santhome High Road, RA Puram,
Chennai 600028, Tamil Nadu
Phone: 044 – 2461 8817/ 2461 0565**

<p><u>Course Director</u> Dr. K.K.Vijayan Director ICAR-CIBA, Chennai</p>	<p><u>Course Co-ordinator</u> Dr. K. Ambasankar Principal Scientist and SIC-Nutrition Nutrition Genetics and Biotechnology Division, <i>ICAR-CIBA, Chennai</i></p>
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About ICAR-CIBA

Central Institute of Brackishwater Aquaculture (CIBA) is one among the 101 institutes under the nation's apex body, Indian Council of Agricultural Research (ICAR), New Delhi. Under the ICAR, CIBA, established on 1st April 1987 serves as the nodal agency for research and development of brackishwater aquaculture in the country. ICAR-CIBA with a vision of environmentally sustainable, economically viable and socially acceptable brackishwater aquaculture, it is involved in R&D related to fish seeds, cost effective feeds, environment monitoring, farm and hatchery management, disease diagnosis, disease monitoring and social research etc.

Course Background

Globally policymakers have recognized that aquaculture is the only option to meet the increasing demand for aquatic food products for the man's platter in coming days. India being the seventh-largest country by area is privileged to have the natural, monetary, governing and human resources to capitalise on the opportunity through sustainable production of superior aquaculture products for a competitive global marketplace. In farming of the fish, nearly 50 to 60% of the operation cost is spent for feed and feeding management. Therefore, aquaculture requires optimisation of nutrition to efficiently raise fish for the purpose of food production. Knowledge on nutrition is essential for formulating aqua feeds, which sustain best growth, good health with minimum waste output at reasonable cost for maximum profit. The Central Institute of Brackishwater Aquaculture (CIBA) is the nodal institute to cater to the needs of the brackishwater aquaculture sector in this country. In the recent past considerable progress has been made in feed development, which resulted in a mass transition from mash feeding to pelleted feeds and use of modern highly digestible extruded pellets. ICAR-CIBA has developed several such sustainable feed technologies and successfully commercialized them to commercial feed manufacturers. ICAR-CIBA has a well-equipped feed manufacturing and analytical facilities and wet laboratories of international repute for conducting fish nutrition research and feed development for all the life stages of fish and shrimp. The economics of fed aquaculture is directly controlled by the cost of feed and its biological and environmental performance in the rearing system. Still lot of research gap exist in feed development for many new and emerging aquaculture species, optimal nutritional requirements are unknown. Even in established species, access to alternative raw materials offers openings to improve the final product quality, reduce environmental footprints and lower feed costs. Considering all this gaps exist in the direction of feed technology development, ICAR-CIBA is organising this training program for the benefit of the various stakeholders in brackishwater aquaculture.

Course content

- ❖ Importance of nutrition and feeds in sustainable aquaculture
- ❖ Approaches to study feed and nutrient requirements
- ❖ Nutrient classes: physiological role and requirements for individual nutrients.
- ❖ Nutrition and its relation with health.
- ❖ Feed ingredients: nutrient digestibility and availability.

- ❖ Feed formulation : software assisted feed formulation and conventional practices
- ❖ Hands on Feed preparation using the state of the art facilities
- ❖ Hands on training for analysis of amino acids, fatty acids, major and minor mineral
- ❖ Methodologies in shrimp and fish Nutrition
- ❖ Feeds and quality of farmed fish
- ❖ Broodstock and Larval nutrition
- ❖ Functional and High health feeds
- ❖ Advances in aquaculture nutrition research

Target Audience

Scientist, Academicians, Research Scholars, Students, Entrepreneurs, Businessman, Start-ups etc., who are all keen to learn aquaculture nutrition and feed technology.

Nomination and course fee

The application for the training (registration form) must be accompanied by course fee in the form of Demand Draft drawn in favour of “**ICAR Unit, CIBA**”, payable at State Bank of India, Santhome Branch, Chennai-600028. Applications should reach this office latest by **7th February 2020** for consideration. The employed candidates should apply through proper channel. The soft copy of the application can also be submitted through e-mail. The selected candidates will be intimated by post/e-mail and they should report on the first day of the commencement of the training course. The selected trainees are requested to plan their journey on receipt of confirmation of their selection. Application along with the course fee is to be sent to Director, ICAR-Central Institute of Brackishwater Aquaculture, 75, Santhome High Road, Raja Annamalai Puram, Chennai – 600 028.

Fees details

The training fee is Rs. **10,030 (inclusive of GST)** per person, which includes application fee, course fee, course material, working lunch and refreshments.

Travel

The expenditure on travel, TA, DA, etc., has to be borne by the sponsoring authority / Organization or by the candidates themselves.

Boarding and Lodging

Since the Institute is having limited hostel facilities, guidance would be provided to find Suitable accommodation in hotels nearer to the Institute. However, accommodation for participants can be arranged in the farmers facilitation centre at Muttukkadu field centre subject to the availability. Transport facilities will be provided from Chennai to Muttukkadu Experimental Station whenever the training course is conducted at Muttukkadu Experimental Station of the Institute.

Contact address

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Nutrition Genetics and Biotechnology Division
Central Institute of Brackishwater Aquaculture,
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Course Co-coordinators Dr. J. Syama Dayal, Dr. K.P. Kumaraguru vasagam and Shri. K.P. Sandeep



REGISTRATION FORM

Advanced Training in Aquaculture Nutrition and Feed Technology

From 27th February to 7th March 2020

1. Full Name (Block Letter) :
2. Designation :
3. Address for communication :
4. Mobile number :
5. Email :
6. Date of birth :
7. Gender :
8. Academic qualification :
9. Working experience :

Course fee details: (Fee Rs.10030/- including GST)

DD. No :

Dated:

Name of the bank:

Declaration by Applicant

I hereby declare that I have read and understood the conditions of eligibility for the program. I fulfil the minimum eligibility criteria and I have provided the necessary information in this regard. In the event of any information being found incorrect or misleading, my candidature shall be liable to cancellation by the Director, ICAR, CIBA at any time and I shall not be entitled for refund of any fee paid by me.

Place:

Date:

Name and signature of the applicant