



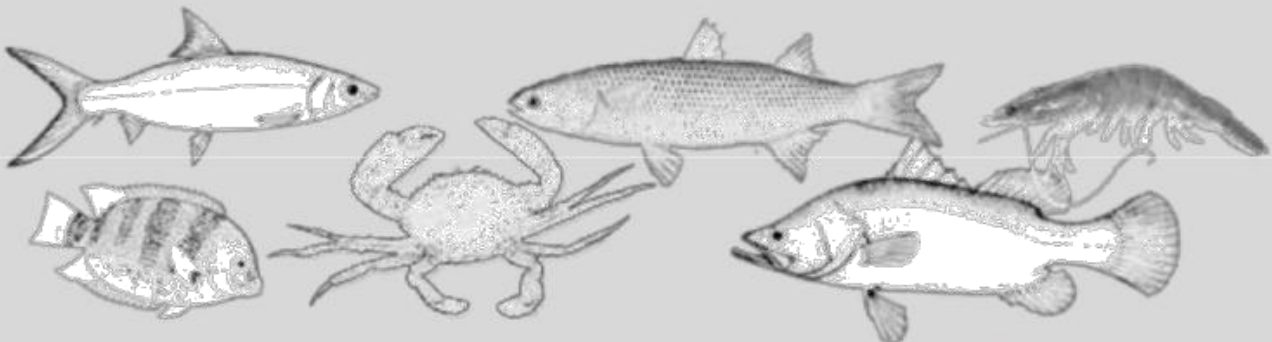
ADVANCED TRAINING ON AQUACULTURE NUTRITION AND FEED TECHNOLOGY



From 3rd to 12th January, 2018

Organized by

ICAR - Central Institute of Brackishwater Aquaculture
(CIBA) Chennai 600028, Tamil Nadu

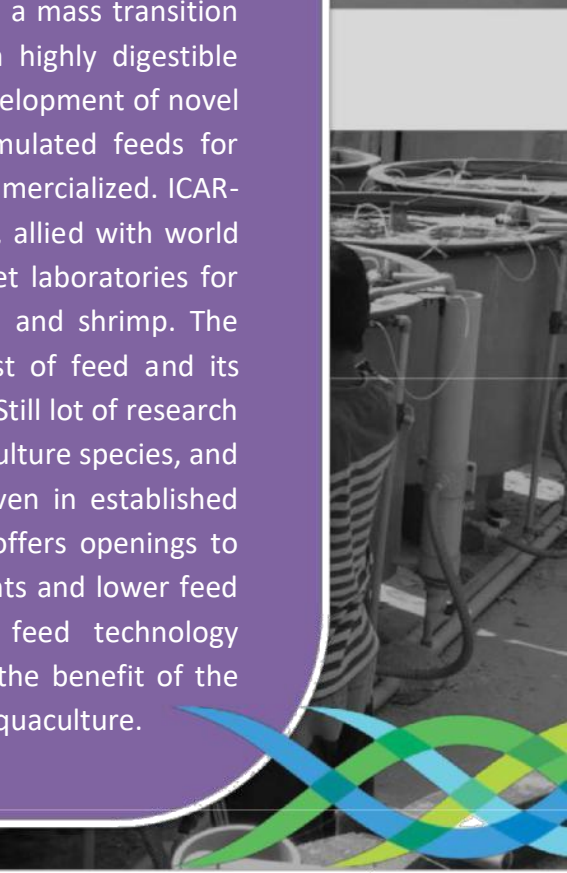


About ICAR-CIBA

Central Institute of Brackishwater Aquaculture (CIBA), Chennai is one of the national institutes under the nation's apex body, Indian Council of Agricultural Research (ICAR), Govt. of India. ICAR- CIBA, established on 1st April 1987 serves as the nodal agency for research and development of brackishwater aquaculture in the country. The institute with a vision of environmentally sustainable, economically viable and socially acceptable brackishwater aquaculture, is involved in R&D with focus on breeding and seed production technology on candidate brackishwater finfish and shellfish, cost effective indigenous formulated feeds, environment and fish health management , brackishwater farm and health management, population genetics and stock improvement and social research etc.

Course Background

Globally it is widely recognized that aquaculture sector is the major food production sector which can meet the increasing food and nutritional requirements for the man's platter in coming days. Indian sub-continent with huge water resources has potential to capitalise on the opportunity through sustainable production of superior aquaculture products for domestic and global marketplace. In farming of the fish, feed is the single major input, with 50 to 60% of the operation cost for feed and feeding management. Therefore, aquaculture requires optimisation of nutrition and feed biotechnology for efficient and sustainable rearing of shellfish and finfish farming. Knowledge on nutrition is essential for formulating aqua feeds, which can deliver best growth, good health with minimum wastage, providing the best in cost benefit terms. 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 traditional feeding to pelleted feeds and use of modern highly digestible extruded pellets. ICAR-CIBA has been playing a central role in development of novel feed biotechnologies leading to production of indigenous formulated feeds for candidate fish and shell fish species, which are subsequently commercialized. ICAR-CIBA has a well-equipped pilot scale feed manufacturing facility, allied with world class analytical facilities. Nutrition lab is also supported with wet laboratories for conducting fish nutrition research 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, and information on optimal nutritional requirements are limited. Even in established candidate farmed 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 conceived this training program for the benefit of the various stakeholders and academics interested 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

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

Fees details

The training fee is **Rs. 10030 (inclusive of service charges)** per person, which includes application fee, course fee, course material, working lunch and refreshments.

Course Director

Dr. K.K.Vijayan

Director

ICAR-CIBA, Chennai

Course Co-ordinator

Dr. K. Ambasankar

Principal Scientist and SIC-Nutrition

ICAR-CIBA, Chennai

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 **26th December 2017** 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. Application along with the course fee is to be sent to the course co-ordinator.

Travel

The expenditure on travel, TA, DA, etc., has to be borne by the sponsoring authority / or by the candidates themselves. Local transport facility will be provided for visiting CIBA's experimental station at Mutukkadu.

Boarding and Lodging

Since the Institute is having limited hostel facilities, suitable accommodations will be arranged on payment basis in hotels nearer to the Institute on advance requisite.

Course Co-coordinators

Dr. J. Syama Dayal, Dr. Debasis De., Dr. K.P. Kumaraguru vasagam, Shri. K.P. Sandeep and Shri T. Sivaramakrishnan

Contact address

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