



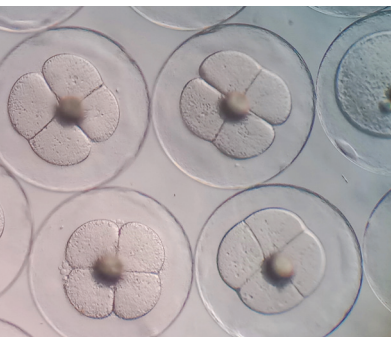
ICAR - CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE
भा .कृ.अनु.प- केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान



Hands on Training on

**IMPROVED TECHNOLOGIES FOR
BREEDING, SEED PRODUCTION
AND FARMING OF CANDIDATE
BRACKISHWATER FINFISHES**

9th – 13th September 2024



Organized by
Fish Culture Division
ICAR- Central Institute of Brackishwater Aquaculture
Chennai, India

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 e brackishwater aquaculture, is involved in R&D with focus on breeding and seed production technology for 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, social research etc.

About **ICAR- CIBA**



Course Background

Culture of brackishwater finfishes is emerging as promising area in brackishwater aquaculture sector, since it provides many options to farmers to choose suitable species out of diversified potential candidate species for farming practice. Species diversification is very essential for sustainability since the varying nature of brackishwater bodies in India require different finfish species with respect to its adaptation to different salinity regime, feeding habits, growth rate etc. To expand the brackishwater finfish culture on large scale basis, availability of quality fish seed in adequate quantity is very essential. The ICAR-Central Institute of Brackishwater Aquaculture has developed a comprehensive technology package for seed production of Asian Seabass (*Lates calcarifer*), milkfish *Chanos chanos*, Pearl spot *Etroplus suratensis* and taken lead role in standardizing seed production of Grey mullet *Mugil cephalus*, Mangrove red snapper *Lutjanus argentimaculatus*, Gold lined sea bream *Rhabdosargus sarba* and Rabbit fish *Siganus javus*. CIBA has developed breeding protocols for brackishwater ornamental fishes such as Silver moony *Monodactylus argenteus* and Spotted scat *Scatophagus argus*. CIBA has also successfully demonstrated farming of brackishwater finfishes such as seabass, mullets, milkfish and Pearlsport in the farmers ponds. In order to transfer the latest technology developed in this field, training programme is being conducted at ICAR- CIBA, Chennai for 05 days from **9th September to 13th September 2024** to provide hands on training on "Recent advances in seed production and farming of brackishwater finfishes". The presentations of the lectures are based on the field experience and knowledge gained by the distinguished scientists working in their specialized fields.



Objective

To impart knowledge on the latest technology developed in the field of brackishwater finfish breeding and culture

Contents

The training will consist of a blend of lectures, practical's, interactive discussion and hands on training on the following:

- Recent trends in Indian brackishwater finfish aquaculture.
- An overview of Induced breeding techniques of brackishwater fishfishes.
- Induced breeding, larval rearing and seed production of food fishes such as Asian seabass, Biology, milkfish *Chanos chanos*, grey mullet *Mugil cephalus*, pearlspot *Etroplus suratensis*, Mangrove red snapper *Lutjanus argentimaculatus*, brackishwater catfish *Mystus gulio*, brackishwater ornamental fishes such as Silver moony *Monodactylus argenteus*, Spotted scat *Scatophagus argus* and Orange chromid *Pseudotroplus maculatus*.
- Culture of live food organisms- algae, rotifer, artemia and copepods.
- Health management in brackishwater finfish hatchery.
- Recirculatory Aquaculture System (RAS) for broodstock maturation & grow-out farming.
- Nutrient requirement & feed preparation of cultivable brackishwater fishes.
- Genetic factors in broodstock management for finfish hatchery.
- Fish hatchery management with special reference to water quality parameters.
- Hormonal control of reproduction in brackishwater farmed finfishes .
- Nursery rearing and grow out culture of Asian seabass, milkfish, grey mullets, pearl spot & brackishwater catfish.
- Transportation methodology and mitigation of transportation and handling stress in fish and shellfish.
- Soil and water requirements & management for brackishwater finfish culture.
- Bioremediation approaches for enhanced finfish production.
- Discharge water treatment for environmentally sustainable brackishwater aquaculture.

Course Fee

A fee of **Rs. 7,080/- (Including 18% GST)** per candidate will be charged for the course. Course material and working lunch will be provided by the organisers. Travel and accommodation charges have to be borne by the participants only. **Last date for receiving the nominations is 31st August 2024.**

Payment

Digitally to the bank account (ICAR-Unit CIBA). **Account No. 10013240762 (Current A/c). IFSC Code: SBIN0005797.**

Accommodation

Limited accommodation on payment basis would be provided on nominal charges at the institute trainees' hostel. Course material and working lunch will be provided by the organisers. Travel and accommodation charges have to be borne by the participants only .

Application for Training Course

Registration



Scan here to register

- 1 Title of the course
- 2 Nature of training required in brackishwater aquaculture
- 3 Name of the candidate (in Capital Letters)
- 4 Sex Male Female Transgender 5 Date of Birth
- 6 Nationality
- 7 Highest Educational Qualification
- 8 Category
(Aqua Farmer / Fisher / Farmer / Aqua Technician / Input Dealer / Input Supplier / Aqua Industry / Aqua Marketing / State Government / Central Government / Development Boards/ Commercial Banks / Other Financial Institutions / Research Scholar / Student / Others (Please specify))
- 9 Designation if employed, name and address of the employer
- 10 Complete postal address with Pin code
- 11 Individual Email id
- 12 Mobile Number
- 13 Whether belong to SC/ST Category Yes No
(if yes, please attach the relevant proof)
- 14 Particulars of the course fee DD / NEFT UTR Number etc.
- 15 Are you being sponsored? Yes No
If yes please give the name and address of the sponsoring organization

Date:

Place:

Signature of the applicant

Kindly fill up the bellow google form



https://docs.google.com/forms/d/e/1FAIpQLSf9czl3TwM4R0vraE20Z4nQ1Wv88HQOgzpd_9vBCz5HTBSR5A/viewform?usp=sf_link

Course Advisor

Dr. Kuldeep K. Lal, Director ICAR-CIBA, Chennai

Course Director

Dr. M. Kailasam, Principal Scientist and Head, Fish Culture Division, ICAR-CIBA, Chennai
(Kailasam.M@icar.gov.in/9444234524)

Course Co-ordinators

**Dr. M. Makesh, Dr. R. Jayakumar, Dr. T. Senthil Murugan, Dr. Sherly Tomy, Dr. B. Sivamani,
Dr. Aritra Bera, Dr. Sandeep K.P., Mr. Dani Thomas and Dr. R. Subburaj**

Technical Support

Mr. D. Raja Babu, Mr. G. Thiagarajan, Mr. K. Karaian



For further details, please write to:

Director

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(Indian Council of Agricultural Research)**

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