



केंखा ज पा असं
CIBA

Pond water and soil analytical techniques and interpretation of results

7-9 OCTOBER 2026

ICAR – Central Institute of Brackishwater
Aquaculture (CIBA)
Indian Council of Agriculture Research
(Ministry of Agriculture and Farmers Welfare)

Successful aquaculture largely depends on providing animals with a satisfactory growing environment. The water and soil quality in culture ponds deteriorates due to intensified farming practices. Maintaining a good pond environment through proper management practices will reduce the stress, risk of disease, and increases production. To understand the condition of pond environment, proper soil and water sampling is essential to get representative samples for laboratory analysis. Many procedures are available to test the soil and water parameters starting from onsite measurements with kits and meters to laboratory analysis with sophisticated instruments. Recently, online sensors are used for continuous monitoring of critical parameters such as dissolved oxygen.



Aquatic Animal Health and Environment Division has the expertise to look into all aspects of abiotic parameters related to brackishwater aquaculture. The laboratories of the institute are equipped with highly sophisticated instruments and portable meters to analyze vital soil and water parameters. A pond soil core sampler was fabricated by the Institute for the collection of soil samples during culture period. Portable multiparameter water analysis kits and artificial intelligence based potassium kit were developed for on-site measurement.

The proposed training disseminate knowledge on suitability of soil and water for aquaculture. sampling techniques and analytical procedures for important soil and water parameters, soil and water treatments to mitigate the inadequacies, and recommendations based on the interpretation of results for the better pond environment in aquaculture farms.

Course Content

- Soil and water sampling techniques from new and existing culture ponds
- Analytical procedures for soil and water parameters (Physico-chemical, microbial and biological)
 - * Laboratory analysis
 - * Onsite measurement of parameters with portable kits and meters
 - * AI based estimation of water parameters
 - * Soil and water suitability for aquaculture
- Interpretation of results for better management of shrimp farms
 - * Treatments for the improvement of soil and water quality
 - * Minerals and their significance in low saline/inland saline aquaculture systems



Target Audience

Aquaculture farmers, Technicians, Academicians, Research Scholars, Students engaged in pond environment management.

Nomination and course fee

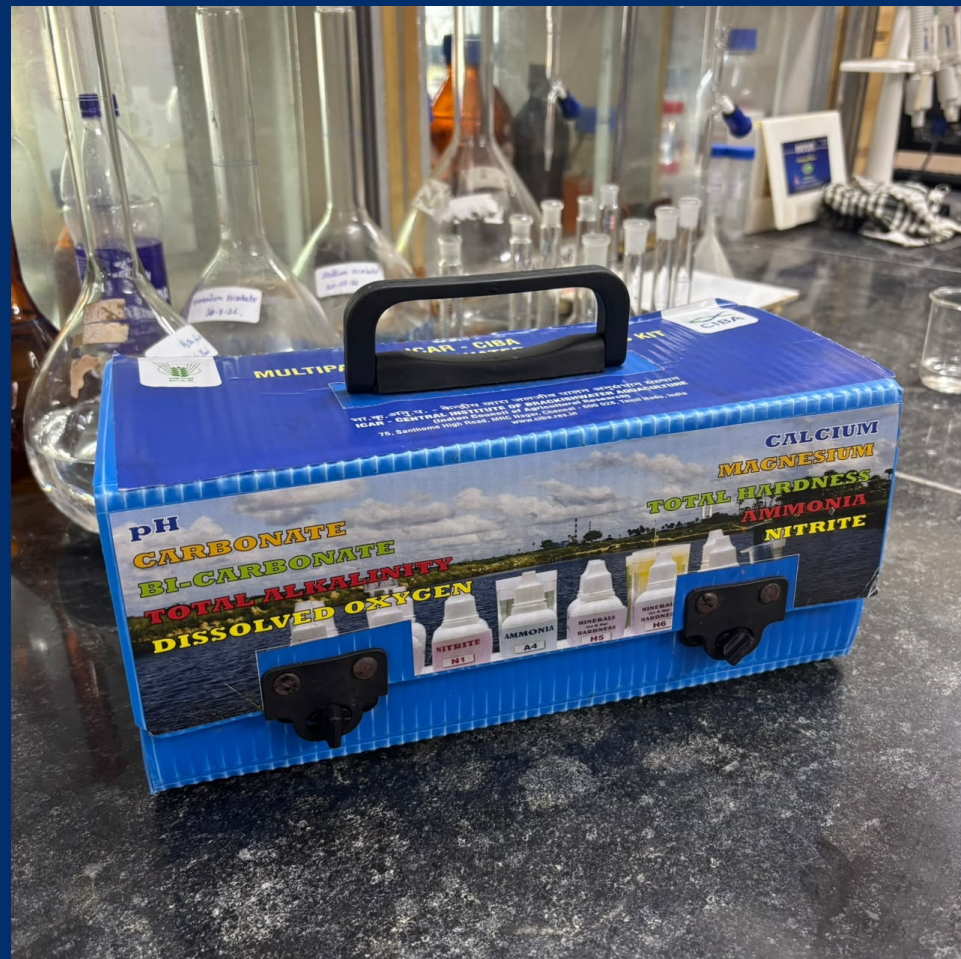
Fill Nomination / Registration form with fee details.

Fee details

The training fee is Rs. 5900 (including 18% GST) per person, which includes application fee, course fee, course material and working

Travel and boarding

The expenditure on travel, TA, DA, etc., has to be borne by the sponsoring authority / or by the candidates themselves. Institute has limited hostel facilities, suitable accommodation will be arranged on payment basis either in hostel or in a hotel nearby to the Institute on advance intimation / and on availability.



PATRON

Dr. M. Kailasam
Director, ICAR-CIBA

Conveners

Dr. M. Muralidhar, Principal Scientist, AAHED
Dr. M. Shashi Shekhar, Head, AAHED

Course Directors

Dr. P. Kumararaja, Senior Scientist, AAHED
Dr. R. Saraswathy, Principal Scientist, CCD

Contact:

Dr. P. Kumararaja
Senior Scientist, AAHED, ICAR-CIBA
Email: kumararaja.p@icar.org.in / kumararajapss@gmail.com
Phone: 044-24616948 Extn: 602
Fax: 044-24610311
Mob:08667813792



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75, Santhome High Road, R.A.Puram, Chennai-600028
Phone: +91-44-24618817, 24616948, Telefax: +91-044-24610311
Email: director.ciba@icar.org.in / icarciba21@gmail.com, Website: www.ciba.res.in



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