

REGISTRATION FORM

Full Name (Block Letter) :
Designation :
Address for communication :
Mobile number :
Email :
Date of birth :
Gender :
Academic qualification :
Working experience :

PAYMENT DETAILS

Demand Draft No. -----
dated ----- in favour "ICAR Unit,
CIBA" for an amount
of ----- drawn on bank -----
----- payable at State
Bank of India, Santhome Branch, Chennai –
600028.

CERTIFICATE

It is certified that the information furnished
above has been verified and found to be
correct.

Place:
Date:

**Name and signature of
the applicant**

Course Director: Dr. K. K. Vijayan,
Director ICAR-CIBA, Chennai

Course Co-ordinator: Dr. M. Muralidhar, Principal Scientist and SIC-
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Course Co-coordinators: Dr. R. Saraswathy, Dr. N. Lalitha, Dr. P. Kumararaja,
Dr. S. Suvana, Dr. A. Nagavel



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Environmental and Climate Change Issues in Brackishwater Aquaculture Sustainability



1-5 Aug, 2017 Chennai

**Organized by
ICAR-Central Institute of
Brackishwater Aquaculture,
Chennai**

About ICAR-CIBA

ICAR-Central Institute of Brackishwater Aquaculture (CIBA) established by Indian Council of Agricultural Research (ICAR), New Delhi under the Ministry of Agriculture, Government of India serves as the nodal agency for the development of brackishwater aquaculture in the country. Strategic and basic research is carried out at the Institute for the development of economically viable and environmentally sustainable culture technologies to maximize economic and social benefits. The developed technologies have been transferred to farmers and cascaded to other related departments. CIBA provides consultancy services on environmental assessment, setting up of labs, disease diagnostics and feed mills. CIBA conducts demonstrations and regular training programs.

Course Background

Globally it is widely recognized that aquaculture sector is the major food production sector which can meet the ever increasing food and nutritional requirements for the man's platter in the years to come. Climate change (CC) is projected to impact broadly across ecosystems, societies and economies, increasing pressure on all livelihoods and food supplies, including those in the fisheries and aquaculture sector. India is highly vulnerable to extreme weather events such as storms, cyclones, floods and drought and these events could cause extensive damage to land based aquaculture in terms of structural damage, stock escapes and loss of livelihoods of aquaculture farmers. Besides, seasonal changes in temperature and precipitation may bring deterioration in pond soil and water parameters resulting in growth inhibition, vulnerability to diseases and ultimately mortality. Maintaining a good pond environment through use of Better Management Practices (BMP) will reduce the vulnerability of rearing animals to CC impacts. The impacts of CC will not affect aquaculture in all the areas or indeed all aquaculture farmers, in the same way. The focus on the technical, farmers and policy aspects of adaptation will decrease the vulnerability of aqua farmers to CC.

Aquaculture practices like other agricultural activities constitute a largely undefined source of GHGs. Although a relatively small global contributor, aquaculture sector has a responsibility to limit GHG emissions as much as possible. Carbon labelling places more emphasis on greenhouse gas emissions, issuing guidance and standards. Organic certification schemes through carbon labelling data ensures that responsible producers are able to benefit directly from potential price premiums associated with adopting mitigation and adaptation through low-carbon products. There are opportunities to mitigate the CC through carbon sequestration and minimizing carbon dioxide and nitrous oxide emissions from aquaculture sector.

Course content

- IPCC AR5 assessment report and Changing Climatic scenarios for the country
- Vulnerability of aquaculture to Climate Change
- Impact of CC on sea level rise scenarios and implications for aquaculture
- Impact of Extreme Weather Events on aquaculture
- Impact of changing weather parameter as a result of CC on source waters and pond environmental parameters (soil and water quality)
- Climatic change induced abiotic stress impacts on breeding/reproduction, culture and immunity of aquatic animals
- Better management practices for environmental sustainability of Brackishwater aquaculture
- Green House Gas collection and emission from different aquaculture systems
- Mitigation measures to reduce GHGs emission and carbon foot print
- Carbon budgeting and sequestration in aquaculture
- Farmers, Science & Technology and Policy
- adaptation measures for climate resilient aquaculture

Target Audience: Academicians, Department officials, Research Scholars, Students who are keen to learn about aquaculture pond environment management and related climate change issues.

Fees details: The training fee is Rs. 3,000 + 18% GST (Total: Rs. 3540/-) per person, which includes application fee, course fee, course material, working lunch and refreshments.

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 24th July 2017 for consideration. 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 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 & Lodging: Since the 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.