

Background

Brackishwater aquaculture dominated by shrimp farming is fast-growing food-producing sector of India characterized by high growth rate and export potential. Sustainable growth of aquaculture is very important in meeting food security needs of the fast-growing population.



However, the major hindrance to the growth of aquaculture is production loss due to various diseases. Since 1990, White spot disease (WSD) has been playing a havoc in the shrimp industry of the World including India. Of late, the disease caused by the microsporidian parasite *Enterocytozoon hepatopenaei* (EHP) has severely affected the shrimp industry. In addition to the above, Infectious hypodermal and haematopoietic necrosis (IHHN), Loose shell syndrome (LSS), Infectious myonecrosis, Hepatopancreatic parvovirus infection, White faecal syndrome, Running mortality syndrome, White patch disease, Monodon slow growth syndrome, Muscle cramp, etc. very often affect shrimp farms. The risk of occurrence of exotic diseases like Early mortality syndrome, Taura syndrome, Yellow head disease has been increased due to introduction of exotic shrimp *Penaeus vannamei*.

Brackishwater finfish culture, especially the Asian seabass culture, is very often affected with Viral Nervous Necrosis (VNN). Thus, for prevention and control of diseases, surveillance for the disease is highly required. Hence proper education and awareness among farmers are highly essential. Keeping these aspects in view, the present short-term training programme has been designed to increase the awareness on different diseases among brackishwater aquaculture farmers.

At the eastern coast of India, West Bengal and Odisha hold major share of brackishwater aquaculture. At the same time, different diseases especially, WSD and EHP caused a set back to the shrimp industry. Lack of proper biosecurity measures and awareness among the farmers on 'Better management practice (BMP) and disease management are doubling the impact. As a result, very

often, farmers fall prey to the unscrupulous businessmen of the aquaculture industries.

Keeping the above-facts in view, the present training programme has been designed to educate the farmers and other stakeholders of brackishwater aquaculture sector on various aspects of disease management.

About Kakdwip Research Centre (KRC)

With its humble beginning in 1968 as a brackishwater experimental fish farm under ICAR- CIFRI, this Centre is considered as pioneer in training on brackishwater aquaculture sector. Later, on 1st April 1987, it was brought under the aegis of ICAR- CIBA, which is the nodal institute to cater the needs of the brackishwater aquaculture sector. KRC has completed 53 years of dedicated service to the brackishwater sector of the nation, especially eastern region of India. The Centre has highly skilled scientific and technical manpower, biosecured farm facilities, well equipped laboratories, and feed mill facility to cater the needs of brackishwater aquaculture research and training.

Resource personal / Faculty

The training will be of lectures from well-experienced scientists from ICAR- CIBA as well as eminent scientist / professor from other institute with prolonged experience in brackishwater fish disease and their control.

Course content

- Disease of farmed crustaceans: diagnosis, prevention and control
- Finfish Diseases: diagnosis, prevention and control
- Sampling methods for shellfish and finfish disease diagnosis
- Demonstration of PCR based diagnosis techniques
- Prophylactics in brackishwater aquaculture.
- Better management practices for disease prevention in aquaculture
- Monitoring and management of water and soil quality parameters.
- Feed management in brackishwater aquaculture
- Biosecurity and Quarantine measures for Aquaculture
- Exposure to research activities of Kakdwip Research Centre.

Duration

The duration of the training will be for a period of six days from **January 29 to February 3, 2024.**

Important Dates

Last date for receipt of application: 25th January, 2024

Training date: **January 29 to February 3, 2024**

Eligibility

Brackishwater aquafarmers, Fishery officials of State & Central Govts, Students (Fishery Sciences or related field), Aquaculture entrepreneurs, Scientists / teachers of Research organization & State Agricultural Universities and any other person who wants to take Brackishwater aquaculture as Profession.

Nomination & Registration

Registration form should be submitted to the Head, KRC or the Conveners within the prescribed date. The last date for receiving nominations / application is **25th January, 2024.**

Selection & conformation of participants

The total number of participants will be restricted to 20. Selection will be as per the criteria developed for the course and intimation will be sent by mail.

Training fee, travel, boarding & lodging

The participants have to bear the course fee of ₹ 3,500 plus 18% GST. The expenditure on travel, TA, DA etc. has to be borne by the sponsoring authority or by the candidates themselves. There is no course fee for ICAR employee. Limited number of accommodations can be provided in KRC of CIBA Trainees hostel on payment basis. No accompanying persons will be allowed.

How to reach KRC, Kakdwip

KRC is well connected with road, rail and air communication facilities. Netaji Subhash Chandra International Airport, Dum Dum, Kolkata is 130 Km away from the center. Kakdwip is plugged in the local train route between Sealdah and Namkhana. Frequent bus services are also available from Dharmatala (Esplanade) to Kakdwip through NH 117

REGISTRATION FORM

1. Full Name (in Block letters):
2. Designation:
3. Present Employer & Address:
4. Address to which reply should be sent (in block letters) with E-mail ID:
5. Permanent Address:
6. Mobile No:
7. Date of Birth:
8. Gender (Male / Female):
9. Marital status:
10. Professional Experience:
11. Mention if you have participated in any training course during the previous years:
12. Academic Records:

Examination passed	Subjects Main/ subsidiary	Year of passing	Class, Ranks, distinction etc.	University or Institutions
Bachelor's degree				
Master's degree				
Any other				

Certify that the information furnished above is correct to the best of my knowledge and my records

Date:

Place:

Signature of the applicant

13. Recommendations of forwarding Institute:

Signature with seal

Designation:

Date:

Address:



Course Advisor

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

Course Director

Dr. Debasis De
Head, Kakdwip Research Centre

Course Coordinators

Dr. Sanjoy Das, Principal Scientist
✉ : sanjoy125@yahoo.co.in / Sanjoy.das1@icar.gov.in
☎ : +91 7584840823

Dr. N.S Sudheer, Scientist

✉ : sudheer.s@icar.gov.in
☎ : +91 9446414797

Contact

Head, Kakdwip Research Centre

ICAR-Central Institute of Brackishwater Aquaculture
(Indian Council of Agricultural Research)
Kakdwip, South 24 Parganas, West Bengal – 743 347, India

Disease Diagnosis and Management in Brackishwater Aquaculture Farming

29th January, 2024 to 3rd February, 2024



Central Institute of Brackishwater Aquaculture Kakdwip Research Centre

(Indian Council of Agricultural Research)

Kakdwip, South 24 Parganas

West Bengal – 743 347, India

☎ : 03210 – 255072, Fax No.: 03210 - 257030

✉ : krckakdwip@gmail.com