

Registration form (Format)

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 :

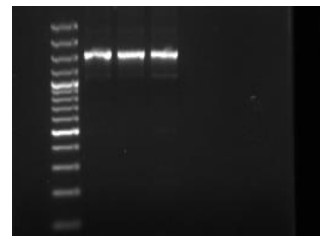
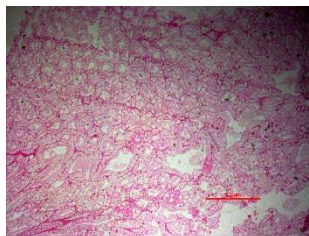
Address :

Date :

IMPORTANT DATES

Last date for receipt of nomination: **19th March, 2022**

Training date: **21-26 March, 2022**



CONTACT DETAILS

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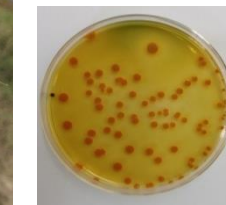
Officer-in-Charge

Kakdwip Research Centre

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

Disease Management in Brackishwater Aquaculture Farming

21-26 March, 2022



Central Institute of Brackishwater Aquaculture

Kakdwip Research Centre

(Indian Council of Agricultural Research)

Kakdwip, South 24 Parganas

West Bengal – 743 347, India

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

E-mail: krckakdwip@gmail.com

Brackishwater aquaculture dominated by shrimp farming is fast-growing food-producing sector of India characterized by its high growth rate and export earnings.

Sustainable growth of this sector is very much important in meeting food security of present as well as future generations. However, the major hindrance of the fast growth of this sector is occurrence of various diseases leading to production loss. Since the decade of 1990, White spot disease (WSD) played a havoc in the shrimp industry of the World and India is also not an exception to this. Of late another disease caused by a microsporidian parasite *Enterocytozoon hepatopenaei* (EHP) has severely affected shrimp industry of the country with retardation of shrimp. In addition to these, other diseases such as 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 of different regions of India with production loss of varying degree. The risk of occurrence of different exotic diseases like Early mortality syndrome, Taura syndrome, Yellow head disease has been increased due to introduction of exotic species *Penaeus vannamei*. Like shrimp, brackishwater finfish culture, especially the culture of Asian seabass is very often affected with various diseases, especially Viral Nervous Necrosis (VNN). Thus for prevention and control of different diseases, the thorough surveillance of the disease is highly required and for all these, proper education and awareness among farmer are highly essential.

At the eastern coast of India, two states i.e. West Bengal and Odisha hold very important position in brackishwater aquaculture. However at the same time, different diseases especially WSD and EHP caused a set back to the shrimp industry of both the states. Very often it is observed that lack of proper biosecurity measures at field level and lack of proper awareness among the farmers on 'Better management practice (BMP) and disease management are the main causes of disease outbreak and



crop loss. As a result very often, farmers fall prey to the unscrupulous businessmen of the aquaculture industries. Keeping these aspects in view, the present short-term training programme has been designed to increase the awareness of different diseases among brackishwater aquaculture farmers of these regions.

About the training venue

The training is scheduled to be organized at Kakdwip Research Centre (KRC) of ICAR- CIBA. 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 aquafarming, 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 consisting 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 shrimp with diagnosis, prevention and control.
- Diseases of brackishwater finfish with diagnosis, prevention and control
- Different Biosecurity and Quarantine measures of brackishwater for brackishwater Aquaculture
- Diseases of crab and their control
- Application of Probiotics and Immunostimulants in brackishwater aquaculture.
- Pond preparation and management practices with special reference to prevention of diseases in brackishwater aquaculture
- Monitoring water and soil quality parameters of brackishwater culture environment.
- Feed management in brackishwater aquaculture with special reference to aquatic animal health.

- Demonstration of molecular techniques for detection of diseases in brackishwater aquaculture system- PCR and Real time PCR
- Sampling of shrimp and finfish for bacteriological and histopathological examination
- Introduction to different research activities of Kakdwip Research Centre.

Training Duration

The duration of the training will be for a period of six days from **March 21-26, 2022.**

Eligibility

Brackishwater aquafarmers, Fishery officials of State & Central Govts, Students (Fishery Sciences or related filed), 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 Officer-in-Charge or the Conveners within the prescribed date. The last date for receiving nominations is **19th March, 2022.**

Selection & conformation of participants

The total number of participants will be restricted to 25. 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 ₹ 2,000 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 accommodation 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, Dumdum, 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 (Format)
Training on 'Diseases Management in Brackishwater Aquaculture Farming' at KRC of ICAR-
CIBA, 2022

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