

## Background of ICAR-CIFRI



India is endowed with vast Inland fisheries resources such as rivers, estuaries, reservoirs, floodplain wetlands, lakes, coastal lagoons and backwaters, which play important role in enhancing fish production and livelihood security. The ICAR- Central Inland Fisheries Research Institute (ICAR-CIFRI) is a pioneer institute in India with significant contributions in the Inland fisheries sector. The Institute has carried out benchmark studies on the field of ecology and fisheries of major rivers, estuaries, lakes, reservoirs and wetlands spread across the country. The institute strives for knowledge-based management of inland waters for sustainable fisheries, conservation of biodiversity, integrity of ecological services and to derive social benefits from these inland open waters. The Institute is ISO 9001: 2008 certified and provide world class service standards.

## Theme

Understanding planktonic organisms is the first step towards a real positive response of the species diversity, stratification of organism, dominance pattern, structure, periodicity, fluctuations of abundance, stability, interactions, succession and ecological importance of aquatic life. Details knowledge of their collection, preservation, enumeration and identification particularly important since these organisms are often very delicate and

sensitive to enumerable change and can be used as early indicators of environment, can affect both the distribution and composition of plankton. This training provides a theoretical and practical understanding of collection, preservation and morphological and molecular identification of freshwater phytoplankton and zooplankton.

## Course Content

- Importance of plankton as Biomonitoring tool of open waters
- Collection and preservation of plankton from freshwater ecosystem
- Morphological identification of freshwater phytoplankton
- Taxonomy of freshwater zooplankton
- Enumeration and calculation of abundance of plankton
- Methodology of molecular identification of freshwater phytoplankton and zooplankton
- Methodology of preparation of sample scanning electron microscopic identification of phytoplankton
- Estimation of biovolume and biomass of plankton
- Introduction to freshwater algae culture in laboratory
- Assessment of diversity indices and its ecological significance
- Software application in plankton data analysis and interpretation

## Eligibility

The training programme is open to Scientists/ University professors/ Students (above Pgs), research scholar/technical staffs. A maximum of 20 participants will be selected based on their experience and area of work. One or two participants may be sponsored from each institute or organization.

## How to apply

Interested personnel may apply through proper channel along with dully filled registration form. Fee can be paid in form of Demand draft/NEFT/RTGS in favour of "ICAR UNIT-CIFRI" payable at State Bank of India, Barrackpore, Kolkata-700120, (Account No. 11278713220; IFSC code SBIN0000029).

## Course Fee

₹5000	Scientists/University professors/ research scholar/technical staffs
₹3000	Students (PG)

\* No TA/DA will be provided. Participants may avail the Boarding / lodging facility of the institute as per the tariff of ICAR-CIFRI. The approximate tariff for boarding and lodging is @ **Rs. 250** per day for students/ research scholar and @ **450** per day for entrepreneurs, Officials, Technical staffs, others.

## Venue and Duration

ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata – 700120, West Bengal.  
19-23 November, 2019

## Travel to ICAR-CIFRI

The Institute is located at Monirampur, Barrackpore in the northern part of Kolkata city. The participants can reach the institute from Barrackpore station by rail (from Sealdah) and taxi/auto rickshaw/bus (Bus no 81 or 81/1) or from Sheoraphuli by train (from Howrah). Participants are requested to make their own arrangement to reach the Institute. The Institute guest house/ trainees hostel are

located in the Institute campus itself. Nearest landmark is FISHERY GATE.

#### Course Director

#### Dr. B. K. Das, Director

ICAR- Central Inland Fisheries Research Institute  
Barrackpore, Kolkata, West Bengal, India  
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#### Coordinator

#### Dr. Suman Kumari, Scientist & Coordinator

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#### Co-coordinators

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#### Mr. Santhana Kumar V., Scientist

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Email: [sankumar1693@gmail.com](mailto:sankumar1693@gmail.com)

#### Dates to remember

Last date of receipt of application:

**08 November, 2019**

Communications to the participants:

**16 November, 2019**

*For the further detail, please contact to*

#### THE DIRECTOR

ICAR-Central Inland Fisheries Research Institute,  
Barrackpore, Kolkata – 700120,  
Phone:033-25921190-91; Fax:033-25920388

#### Published by

Dr. B. K. Das, Director, ICAR-CIFRI, Barrackpore

## Application Form for Participation in

### Training on

### Advances in enumeration and taxonomic identification of plankton community in inland open waters

**19-23 November, 2019**

1. Full Name (in block letters):
2. Designation:
3. Present employer and address:
4. Address for correspondence (phone, fax, mobile, e-mail):
5. Permanent address:
6. Date of birth:
7. Sex (Male/Female):
8. Professional experience:
9. Marital status:
10. Demand draft/NEFT/RTGS (Rs.....) No..... dated .....in favour of "ICAR-UNIT, CIFRI" payable at Barrackpore.
11. Academic record:

Degree	Discipline	Year	Grade	University/Institution
Bachelor				
Masters				
Doctorate				
Others				

Place:

Date:

Signature of the applicant

12. Recommendations of Forwarding Institute:

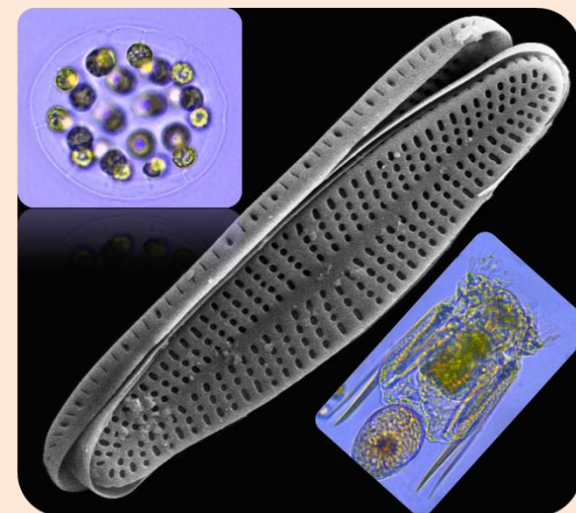
Signature

Designation of the Sponsoring authority

## Training on

### ADVANCES IN ENUMERATION AND TAXONOMIC IDENTIFICATION OF PLANKTON COMMUNITY IN INLAND OPEN WATERS

**19-23 November, 2019**



## Organised by



ICAR-Central Inland Fisheries Research Institute  
Barrackpore, Kolkata-700120, West Bengal  
<http://cifri.res.in/>