

For further details please write to:

**Course Convenor**

**Dr. B. K. Das**  
Director

ICAR-Central Inland Fisheries Research Institute  
Barrackpore, Kolkata - 700120  
director.cifri@gmail.com

**Course Director**

**Dr. A. U. Muzaddadi**  
drarmaan@gmail.com

**Course Coordinators**

**Dr. A. K. Das**  
archandas50@gmail.com

**Dr. D. K. Meena**  
dkmeenacifri@gmail.com

**Course Co-Coordiators**

**Dr. Gunjan Karnataka**  
gunjankarnatak87@gmail.com

**Dr. Rahul Das**  
rahuldascifri2022@gmail.com

**Application Form of the Training Course**

**Enclosure Culture in Inland Openwaters for  
Productivity Enhancement and Livelihood**

1. Name of the Candidate:  
(in Capital letters)
2. Designation:
3. Age (yrs):
4. Affiliation:
5. Mobile No.:
6. Email:
7. Residence:
8. Educational Qualification:
9. Nature of present job:
10. Transaction ID of registration fee payment:
11. Whether accommodation on payment basis is  
required at ICAR-CIFRI:

(Recommendation of sponsoring authority with  
signature and office seal)

Date:

Place:

Signature of the Applicant

**Enclosure Culture in  
Inland Openwaters for  
Productivity Enhancement  
and Livelihood**

**22-26 September 2025**



*Organised by :*



**ICAR-Central Inland Fisheries Research Institute**

**(Indian Council of Agricultural Research)**

**Barrackpore, Kolkata - 700120**



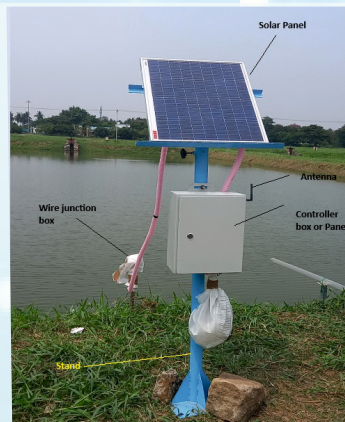
## ICAR-CIFRI



The ICAR Central Inland Fisheries Research Institute (ICAR-CIFRI) is a pioneer institute in India with significant contributions in the field of inland fisheries. ICAR-CIFRI has carried out benchmark studies on the fish and fisheries of major rivers, estuaries, lakes, reservoirs and wetlands spread along the length and breadth of the country. Since its inception, the institute strives for knowledge-based management of inland open waters for sustainable fisheries and conservation of aquatic biodiversity.

### Introduction to the Course

Cage aquaculture, a form of enclosure-based fish farming, is gaining importance as a practical way to increase fish production in India's inland open waters, including reservoirs and lakes. In this method, fish are reared inside floating cages placed in natural water bodies, making use of available water resources without the need for land-based ponds. With its rich network of inland water bodies, India has immense potential to expand fish production through cage farming. This approach can help improve food and nutritional security, create regular income for fish farmers, and strengthen rural livelihoods. It is relatively low-cost, requires modest investment, and can be scaled according to resources and demand. This course offers a clear introduction to cage aquaculture, covering its methods, benefits, and possible challenges. It shares practical know-how, real-life examples, and technical advice to help farmers, extension workers, and fisheries officials



adopt the practice effectively. When managed scientifically, cage culture can support eco-friendly, productive and sustainable inland fisheries across the country.

### Course Content

#### *Cage Fabrication and Installation*

- Explains the different cage designs used in inland and coastal aquaculture and the materials best suited for building cage frames, such as HDPE pipes, bamboo, galvanized iron, or treated wood, provides scientific guidance on cage management.

#### *Management of Floating and Sinking Feeds*

- Describes the main types of feeds, their characteristics, and when to use floating or sinking varieties, feed formulation, ration adjustment, basic feeding strategies, FCR etc.

#### *Fish Health and Disease Management in Cage Culture*

- Highlights preventive health measures, including maintaining good water quality and biosecurity practices, symptoms, early detection and control measures.

#### *Socio-Economic Aspects of Cage Culture*

- Discusses the role of cage culture in creating jobs, supporting small-scale enterprises, and improving

incomes in fishing communities, gender inclusion, licensing requirements.

### *Economics and Emerging Technologies in Cage Farming*

- Guides farmers on how to prepare cost-benefit analyses and develop simple business plans for cage aquaculture, IoT-based monitoring systems to improve feeding efficiency, water quality observation, and overall farm management.

### Eligibility and Selection Criteria

This training programme is open to all students, research scholars, scientists, and faculty members in fisheries science and allied fields.

### How to Apply

Interested personnel may apply through proper channel along with duly filled registration form. The fee can be paid in form of Demand draft/NEFT/RTGS in favour of "ICAR Unit CIFRI" payable at Bank Account Number: 11278713220 at State Bank of India, Barrackpore Branch (IFSC code: SBIN0000029), Kolkata-700120, West Bengal.

### Correspondence to

**Dr. D. K. Meena**

dkmeenacifri@gmail.com; M: 70037 66413

**Dr. Gunjan Karnataka**

gunjankarnatak87@gmail.com; M: 84209 67984

### Course Fee

**Registration fee: Rs. 2500/-**

No TA/DA will be provided. The participant may avail the boarding / lodging facility of the institute as per the tariff of ICAR-CIFRI.

### Important Date:

Last date of receipt of application at ICAR-CIFRI: **September 20, 2025.**