

### Eligibility

No special qualification or prior knowledge is required to attend the skill development program. Anyone who can read and write English and Hindi and has an interest to learn is eligible to attend. All applications duly forwarded by the Head of the Institution (not required in case of private candidates) should be sent to the Course Coordinator at the address provided. Photocopies of the format can also be used.

### Intake Capacity

A total of 20 participants will be selected after screening.

### Fees /Accommodation/Food Charges

Rs. 4000/person needs to be paid as course fees. The payment can be made online to the Coordinator before the program or in extreme emergency, at the venue on first day of program, either in cash or online. Accommodation and food charges will be extra and are to be borne by participants as per expenditure incurred.

Boarding and lodging is NOT available in the campus. Dormitory/twin sharing Non AC room (if available) - Rs.50-75/day while food charges would cost approximately Rs. 300/day.

### Programme Director

**Dr. Ravishankar C.N.**

Director / Vice-Chancellor

### Course Director

**Dr. Debajit Sarma**

Head, Division of Aquaculture

### Programme/Course Coordinator

**Dr. Paramita Banerjee Sawant**

### DATES TO REMEMBER

*Last date for submission of application through*

*Google form or physical mode*

**1 August, 2023**

*Communication of acceptance*

**5 August, 2023**



All future correspondence may kindly be directed to:

**Dr. Paramita Banerjee Sawant**

**Principal Scientist**

**ICAR - Central Institute of Fisheries Education**

Panch Marg, Off Yari Road, Andheri (W),

Mumbai - 400 061, India

Mob: 09820731336/8169189400

Fax. 022-26361573

**E-mail: [paromita@cife.edu.in](mailto:paromita@cife.edu.in)**



(NAIF – ABI Sponsored)  
**Skill Development Program**  
on

**ORNAMENTAL FISH CULTURE  
& AQUARIUM MANAGEMENT**



**18 – 25 AUGUST 2023**

**APPLY NOW by filling the form below:**

[https://docs.google.com/forms/d/e/1FAIpQLSfaHDZ7xmjWU5-GOREjdNAhAuQViAncno91FCjg3kQI5Wq99w/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSfaHDZ7xmjWU5-GOREjdNAhAuQViAncno91FCjg3kQI5Wq99w/viewform?usp=pp_url)



**ICAR - Central Institute of Fisheries Education  
(Deemed University)**

Panch Marg, Off Yari Road, Versova,  
Andheri (W),

Mumbai-400 061, INDIA

Ornamental fish trade is worth more than US\$ 15-20 billion globally, with an average annual growth of 9%. About 1,800 species of fish are traded (guppies and neon tetra alone commanding more than 25% of global market) and 30 out of 1200 varieties of freshwater origin, such as guppies, platys, swordtails, mollies, neon tetra, angel fishes, gold fish, zebra danio, discus and barbs, dominate the market. High value fishes such as Oscars, Discus and Arowana fetch higher profit. Top exporting countries (with % contribution to global trade) are Singapore (20%), Czech Republic (8%), Malaysia (7%), Israel (4%), Sri Lanka (3%) and China (1%). Main importers are USA, European Union and Japan. India's share in ornamental fish trade is estimated to be less than 1% of the global trade, majorly based on wild collection of indigenous varieties from the North Eastern States of India and the Western Ghats. Domestic ornamental fish market is worth around Rs. 500 Crore.

Aquarium keeping, a popular hobby among urban citizens, requires dedication and passion for these little jewels, who can light up any corner of your home with their graceful presence. They thrive well in brightly illuminated, clean and pollution free aquarium water, which calls for adequate feeding (with available pellets and live earth or bloom worms), siphoning, filtering (with undergravel/sponge or power filters) and periodic water exchange. These can either be kept alone or with other compatible species and various

aquatic plants. Aquarium making is an art in itself and so is the skill of aquascaping. Aquariums may be of various dimensions according to the place where they need to be stationed and good aquascapes add value to the small ecosystem inside the aquarium. Good management practices go a long way to ensure healthier aquariums so as to continue this visual treat for years to come. Considering relatively simple techniques involved, this activity has the potential to create substantial employment opportunities besides earning foreign exchange. As an answer to the ever increasing demand for aquarium management techniques and needs of this industry, the Division of Aquaculture is organizing a Skill Development Program on, "Ornamental Fish Culture and Aquarium Management", at the ICAR-Central Institute of Fisheries Education, Mumbai - 400061, from 18-25 August, 2023.

### **ICAR- CENTRAL INSTITUTE OF FISHERIES EDUCATION, MUMBAI**

The premier *alma mater* for fisheries in India, ICAR-CIFE, Mumbai, was established in 1961 as an in-service training centre, mainly to impart proficient training and education to the fisheries professionals; where trainees were exposed to various operative learning strategies so as to equip them to face the challenges of the fisheries sector. By the year 1979, CIFE came under the administrative control of the Indian Council of Agricultural Research. In recognition of its yeoman services and expertise, CIFE was deservingly conferred the Deemed-to-be-University status by University Grants Commission in 1989.

Subsequently, the scope and mandate have been widened to include education as well as research. CIFE has made its mark in knowledge - driven economy and in the process of enriching the quality of fisheries education, received accreditation from ICAR for its academic programmes and has been providing a need based curriculum, with tailor made extracurricular activities for the holistic development of fisheries professionals. The Institute is located about 9 km away from the domestic and international airports, 20 km from Dadar and 5 km from Andheri railway station. Mumbai, the financial capital of India, is well connected by air, rail and road with all cities of India. The climate is moderately cool during January and participants are advised to carry light warm clothing.

### **Topics to be covered**

- ◆ **Fabrication of an aquarium**
- ◆ **Setting up and maintenance of a regular aquarium**
- ◆ **Breeding and culture of popular high value ornamental fishes**
- ◆ **Water quality management for ornamental fish keeping**
- ◆ **Aquarium plants / aquascaping**
- ◆ **Feed and health management for ornamental fish keeping**
- ◆ **Entrepreneurship development in ornamental fish industry**

**FORMAT FOR APPLICATION**  
**Ornamental Fish Culture &**  
**Aquarium Management**  
**18 – 25 AUGUST 2023**  
**SKILL DEVELOPMENT PROGRAM**

**Name of the candidate**

---

---

**Full address of candidate for  
correspondence with  
phone/mobile/fax/email**

---

---

---

---

---

---

**Qualification (last degree attained)**

---

**Mode of payment and details of payment of  
registration feed (Rs. 4000/-)**

**Online / Cash / DD :**

**Reasons for attending the program**

---

---