

Boarding and Lodging

Free boarding and lodging will be provided to the participants as per the approved ICAR norms for Winter School. Please note that no accommodation will be provided to the family members or guests of the participants.

About Mandapam

An entrance to the sacred island Rameshwaram, Mandapam is a two kilometer stretch of land situated between the Palk Bay and Gulf of Mannar. Mandapam is naturally blessed with quiet and beautiful sea beaches characterized by natural coral reefs and is surrounded by half a dozen islands which are considered to be the paradise of marine researchers. With splashing seashores, you can experience the taste of the life of rural fishing communities living in the island. November being the most pleasant month has a drizzling weather with a temperature range of 25 to 28°C at Mandapam.

Travel

Participants will be paid to and fro travel fare by the shortest route from their respective institutions to CMFRI, Mandapam Regional Centre, Mandapam Camp for the journey by AC-II tier/III tier class train fare or bus fare as the case may be. Travel allowance will be paid on production of the tickets by the participants.



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Applications may be sent to:

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Format of the Application Form for Winter School on MARICULTURE TECHNOLOGIES: PRINCIPLES AND PRACTICES TO AUGMENT THE SEAFOOD PRODUCTION IN INDIA

(06 – 26 November 2019)

1. Full Name :
2. Designation :
3. Present Employer and Address :
4. Address for communication :
5. Email Address and Mobile No. :
6. Date of Birth :
7. Sex :
8. Teaching/Research/Professional Experience (Mention posts held during last 5 years and number of publications) :
9. Mention about earlier attended any training program/seminar/summer/winter school/ short course, etc. (last 5 years) :
10. Details of Indian Postal Order or Demand draft (for Rs. 50/-) drawn in favour of "ICAR UNIT – MRC OF CMFRI" :

11. Academic Record (graduation onwards)

Examination passed	Subjects main/ Subsidiary	Year	Division	University/ Institution
Degree				
Post Graduate				
Doctoral				
Others				

Date:

Place:

(Signature of the Applicant with date)

Recommendations of the forwarding Institute:

(Signature of the sponsoring authority with seal and date)

Winter School on Mariculture Technologies: Principles and Practices to augment the seafood production in India

06 – 26 November 2019



Organised by

**Mandapam Regional Centre of
ICAR-Central Marine Fisheries Research Institute**

Marine Fisheries P.O., Mandapam Camp – 623 520
Tamil Nadu, India



About ICAR-CMFRI

The Central Marine Fisheries Research Institute (CMFRI) established in 1947, is a premier research institute undertaking marine fisheries research in the country and has been carrying out pioneering research and development work in the arena of marine fisheries. CMFRI functions with the objectives of ensuring fisheries resources, ecosystem and livelihood sustainability of over 40 lakh fisher-folk in the country. The Institute's multidisciplinary approach to research in marine capture and culture fisheries has won its recognition as a leading tropical marine fisheries research institute in the world during its glorious 72 years.

Importance of the Theme

In recent years, the marine capture fishery is declining due to overexploitation, overcapitalization and unsustainable fishing practices. Even though the capture fisheries will continue to be the mainstay of the Indian marine fisheries, it is evident that further increase in fishing pressure will not yield the required quantity of seafood to meet the increasing per capita requirement in the future years. In this context, mariculture is the only sunshine sector which can contribute substantially to the seafood production. Mariculture – the farming and husbandry of marine plants and animals of commercial importance, is an untapped sector of sea food production in India and it can offer plenty of scope to ensure the per capita availability of high quality animal protein to the rural poor in the country. With the advent of sea cage farming, the fisher-folk of the country will have an alternative sustainable livelihood option. Since mariculture is the only hope for increasing seafood production in the coming years, capacity building on the mariculture technologies is the need of the hour to enhance the seafood production thereby the farmers' income.



The Mandapam Regional Centre of CMFRI is involved in mariculture research for several years and developed technologies contributing to mariculture viz., captive broodstock development, induced spawning, seed production of cobia, silver pompano, blue swimmer crab & green tiger shrimp, mass scale production of planktons and marine ornamental fishes, sea cage farming of finfishes & shell fishes, integrated multi-trophic aquaculture, vaccines for hatchery produced seed, etc. Mandapam RC of CMFRI is also involved in transfer of mariculture technologies to fisher-folk including the women self-help groups and capacity building of officials, farmers and entrepreneurs throughout the country.

Contents of the Programme

- Potential species for mariculture
- Designing a marine hatchery
- Broodstock development and captive breeding of marine finfishes and shellfishes
- Genetic management of captive broodstock population
- Recirculating Aquaculture System (RAS)
- Hormonal induction of spawning in marine food fishes
- Marine Phytoplankton (Microalgae) production
- Marine Zooplankton (Copepods and Rotifers) production
- Nutritional requirement and feeding management for mariculture
- Hatchery techniques for larviculture of marine finfishes and shellfishes
- Hatchery production of marine ornamental fishes
- Nursery management of marine food fishes and ornamental fishes
- Fish diseases and health management
- Technology of sea cage farming and coastal mariculture
- Technology of seaweed farming
- Integrated multi-trophic aquaculture (IMTA)
- Capture based aquaculture (CBA)
- Marine biodiversity in mariculture



Eligibility

The ICAR sponsored winter school is open for participants from ICAR Institutes/State AUs/CAU/Agricultural faculty of AMU, BHU, Vishwa Bharti and Nagaland University in the cadre of Assistant Professors or equivalent and above. The applicants should possess Master's degree in Science from any of the recognized university in Fisheries/Animal Sciences/Zoology or Marine Biology related subjects, working in the relevant fields as mentioned above not below the rank of Assistant Professor or equivalent.

How to Apply

The eligible candidates should apply online. Login at <https://cbp.icar.gov.in/> using your User ID & Password. To create User ID, use "Create New Account" link on home page. If you have forgotten the password, click on "Forgot password" link. After login, click on "Participate in Training" link and fill the proforma. Take a printout of duly signed application form and send it by post to **Dr. M. Sakthivel, Winter School Director, MRC of CMFRI, Marine Fisheries P.O., Mandapam Camp, Ramanathapuram District, PIN 623 520, Tamil Nadu, India.** Upload a scanned copy of the application form approved by your competent authority in the CBP Portal as well as email to sakthivel.m@icar.gov.in and sakthicares@gmail.com. The last date for receipt of the application is 15th October 2019.

Registration Fee

The participants are required to pay a sum of Rs. 50/- (Rupees Fifty only) as registration fee (Non-refundable) along with the filled application in the form of an Indian Postal Order or Demand Draft (payable at Ramanathapuram) drawn in favour of "ICAR Unit – MRC OF CMFRI".

Dates to remember

Last date for receipt of application : 15th October 2019
Intimation of selection : 21st October 2019
Confirmation by applicants : 30th October 2019