

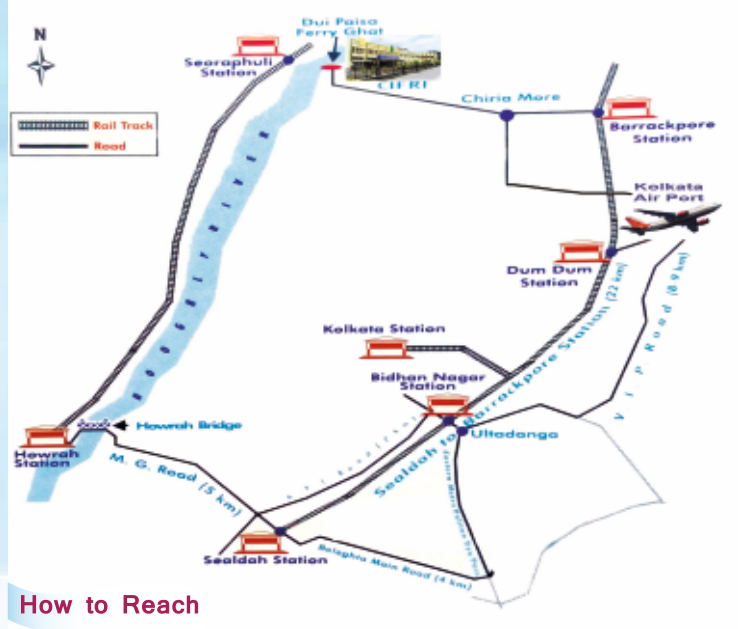
Important dates

Last date of receipt of application (at ICAR-CIFRI):
03rd January 2025

Last date of receipt of fee: 10th January 2025

How to Apply

The application as per the given format, complete in all respects and duly signed by the sponsoring authority should be sent to the co-ordinators.



How to Reach

Application form

Microplastics Pollution Assessment using μ FTIR

1. Name of the candidate (Capital letters) :
2. Date of Birth/Sex/Nationality :
3. Educational Qualifications :
4. Designation :
5. Postal address (E-mail) :
6. Mobile No. :
7. Previous training /experience in fisheries :
8. Particulars of Course fee/DD/Online :
A/c. No. :
Name :
Bank Name :
IFSC Code :
9. Are you being sponsored? If yes, name and address of the organisation

Recommendations of the sponsoring authority with signature and seal

Date/Place

Signature of the Candidate

Contacts:

Dr. Dhruba Jyoti Sarkar

✉ dhruba1813@gmail.com; ☎ Mob : 9968814890

Dr. Soma Das Sarkar

✉ soma.das@icar.gov.in; ☎ Mob : 7439199710

Published by:

The Director

ICAR-Central Inland Fisheries Research Institute
(An ISO 9001 : 2015 Certified Organization)
Barrackpore - 700120, Kolkata, West Bengal

Training Program

on

Microplastics Pollution Assessment using μ FTIR



Duration

13th to 17th January 2025

Course Director

Dr. Basanta Kumar Das

Course Co-ordinators

Dr. Dhruba Jyoti Sarkar and Dr. Soma Das Sarkar

Co-ordinators

Dr. Santhana Kumar V.



ICAR-Central Inland Fisheries Research Institute
Barrackpore, Kolkata - 700 120

Organized by



ICAR-CIFRI, Barrackpore

The ICAR- central Inland Fisheries Research Institute (ICAR-CIFRI) is a premier institute in India that has made remarkable contribution to the inland fisheries sector. The institute has conducted benchmark studies on the inland fisheries resources viz. rivers, estuaries, lakes, reservoirs and wetlands across the country. Since its foundation, the institute has worked relentlessly for knowledge based management of inland open waters for sustainable fisheries and conservation of aquatic biodiversity.

Background

Pollution is a significant environmental concern with potentially harmful consequences for the ecosystems, plant, animal and human health. Water bodies are the ultimate recipients of different polluting substances including microplastics.

Environmental pollution with plastic debris, more specifically microplastics (MP), has become an emerging threat to the viability and sustainability of various terrestrial and aquatic ecosystems and well reported in riverine, coastal and marine ecosystems across the globe. MPs are reported to be synthetic polymers (like fragment, fibre, pellet, film, bead or foam), in the size range 100 μm – 5 mm, which are directly/indirectly introduced into the environment through anthropogenic activities or derived from bigger plastic particles through environmental degradation process.

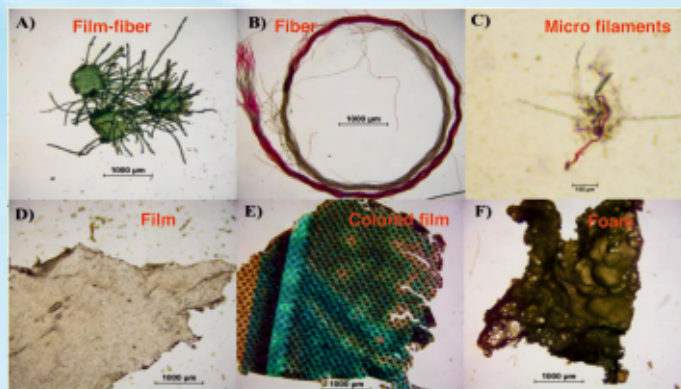
Hence the training programme aims to enhance the current understanding about microplastic pollution in environment and its analysis using μFTIR .

Objectives:

1. To upgrade the current knowledge on microplastics contamination in environment with special emphasis in aquatic ecosystem.
2. To provide hands on training on microplastics analysis using μFTIR .

Aim of Training:

Trainee will gain basic knowledge and skills needed for optimization and troubleshooting for analysis of microplastics using μFTIR . Laboratory exercises include experiments in controlling interferences, as well as procedures for developing methods. The training is useful for those who are planning to pursue their career in field of Research, Pharmaceuticals, Water Testing, as well as the Analytical Testing Laboratories and various others.



Optical microscope picture of MPs found from Ganga

Modules

- Basic Principles of μFTIR
- Components of an μFTIR
- Matrix Modification & Interferences
- Sample preparation for soil, plant, fish etc. for determination of microplastics
- Determination of microplastics in food, fish, water and soil/sediment samples
- Instrumentation
- Method development
- Routine maintenance and troubleshooting
- Calculation and interpretation (Indexing)
- Hands on session

Who can Apply:

Researchers, Academician, Students, Engineers, State Govt. Employees

Registration Fee:

Rs. 3000/- (Rupees Three thousand only) (Rs. 2000/- for students)
(TA boarding/lodging would have to be borne by the candidates themselves)

Mode of Payment:

The course fee can be paid through online transfer as given below or Demand Draft in favour of "ICAR Unit CIFRI, Barrackpore", payable at SBI, Barrackpore, Kolkata - 700120;

SBI A/c. No: 11278713220; Name: ICAR Unit CIFRI, Barrackpore; IFSI Code: SBIN0000029