



केन्द्रीय अंतर्स्थलीय मात्स्यकी अनुसंधान संस्थान

( भारतीय कृषि अनुसंधान परिषद )

बैरकपुर, कोलकाता - 700 120, पश्चिम बंगाल

प्रोफेसर अनिल प्रकाश शर्मा

निदेशक

Prof. A. P. Sharma

Director

**Central Inland Fisheries Research Institute**

(Indian Council of Agricultural Research)

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F. No. CIFRI/Winter school/2011 2456

Date : 16.11.2011

To

1. Vice Chancellors of SAUs/Central Agricultural Universities
2. Director of ICAR Institute/NRCs/Project Directorates/Bureau

Sub : Winter School on "Aquatic Inland Resources and Environment Assessment through RS & GIS Application

Dear Sir,

I would like to inform you that Indian Council of Agricultural Research (ICAR) has approved organization of winter school on "Aquatic Inland Resources and Environment Assessment through RS & GIS Application during 10-30 January, 2011 at CIFRI, Barrackpore. The Winter School has been planned in recognition of the importance of RS & GIS for mapping, monitoring and management in fishery sector. This programme is designed to update the skill and knowledge of researchers/teachers/extension specialists involved in the field of RS & GIS .

Details of the programme are given in the enclosed brochure. The intake of this training programme will be around 25. I shall be grateful, if you could nominate one or two scientific personnel / faculty members of your institute / organization/ university engaged in the relevant field and who fulfill the eligibility criteria as given in the enclosed brochure for participation in the programme. The information brochure and nomination form are enclosed for your kind reference and wide circulation. The nominations should reach this office not later than 15<sup>th</sup> December, 2011. Selected persons will be informed by 25<sup>th</sup> December, 2011. For more details visit CIFRI Website [www.cifri.ernet.in](http://www.cifri.ernet.in)

With Kind regards.

*(Handwritten signature of A.P. Sharma)*  
20/11/11

Yours sincerely,

*(Handwritten signature of A.P. Sharma)*  
(A. P. Sharma) 16.11.11

Encl: As stated above

1616  
30/11/11

**Application Form for Participation in  
Winter School**

**(10-30, January, 2012)**

- 1. Full Name (in block letters) :**
- 2. Designation :**
- 3. Present employer and address :**
- 4. Address to which reply should be sent ( Give telephone, E-mail, mobile etc.) :**
- 5. Date of birth :**
- 6. Sex ( Male/Female ) :**
- 7. Teaching/research/professional experience (mention post held ) during last five years and number of publication :**
- 8. Postal Order/DD no. :**
- 9. Academic record :  
( Master's Degree, PhD Degree,  
Other Certificates etc. ) :**
- Signature of the applicant :**
- Date :**
- Place :**
- 10. Recommendations of Forwarding  
Institute :**
- Signature :**
- Designation :**
- Address :**

**Travel to CIFRI**

The Institute is located in the Monirampur area of Barrackpore in the northern part of the Kolkata city. The participants can reach the institute through Barrackpore by rail (from Sealdah) and taxi/auto rickshaw/bus (route no 81) or through Sheoraphuli by rail (from Howrah) and ferry over the river Hoogly. The institute may not provide transport facilities and hence, the participants should make their own arrangement to reach the Institute. The Institute guest houses are located in the Institute campus itself.

**Nominations/Applications may  
be sent to**

Prof. A. P. Sharma  
Director / Course Director  
Central Inland Fisheries Research  
Institute, Barrackpore  
Ph:033-25920177, Fax;033-25920388  
Email: [cifri@vsnl.com](mailto:cifri@vsnl.com);  
[director@cifri.ernet.in](mailto:director@cifri.ernet.in);  
[apsharmal@gmail.com](mailto:apsharmal@gmail.com)

**For further information, contact**

Shri. S. K. Sahu, Scientist &  
Shri. D. Karunakaran, Scientist  
Course Coordinators,  
CIFRI, Barrackpore, Kolkata - 700120  
Email: [sksahu\\_2k@yahoo.com](mailto:sksahu_2k@yahoo.com),  
[karunakaran\\_tn@rediffmail.com](mailto:karunakaran_tn@rediffmail.com)  
Phone:033-25921190-91(PABX)Ext-225  
Fax:033-25920388, [www.cifri.ernet.in](http://www.cifri.ernet.in)

**Winter School**

on

**Aquatic Inland Resources and  
Environment Assessment  
through RS & GIS Application**

**10-30, January, 2012**



**Central Inland Fisheries Research  
Institute  
Barrackpore  
West Bengal-700120  
[www.cifri.ernet.in](http://www.cifri.ernet.in)**

## Background

To conserve and manage inland fisheries resources and its environment, it is important to have aquatic resource map with relevant fisheries information, catchment characteristics etc. Maps are very strong tools to relate the features, monitoring and quantifying change within a time period. Remote sensing and geographical information system is a modern technique and is considered as an essential tool for viewing, analyzing, characterizing and making decision about water, land and their association. Natural resource managers are increasingly using remote sensing and GIS as resource management tools on global level. The present course aims to develop qualified human resource for the management of inland fisheries using RS and GIS.

## Objectives

The major objectives of the winter school are

- To introduce basic concept of Remote Sensing and GIS along with their applications in fisheries sector.
- To enable the participants to learn latest RS & GIS software and hands on training.

## Course Content

- Fundamentals of RS
- Principles and concepts of Image interpretation and analysis
- Basic concepts of GIS
- Thematic mapping, Spatial analysis
- Global Positioning system
- Web-GIS and e-Atlas
- Applications and case studies pertaining to fisheries and aquatic inland resources and environment assessment
- Hands on training on software tools

## Duration

Twenty-one days from 10-30, January, 2012

## Eligibility

The participants from ICAR Institutes/State Agricultural Universities/Central Agricultural Universities/Krishi Vigyan Kendras possessing, a Masters degree from any of the recognized university having two years teaching / research experience will be eligible for selections for the winter school. The number of the participants for the programme will be limited to 25 on first-cum-first serve basis, subject to maximum of two participants from one institute.

## How to apply

Eligible and interested participants are requested to send their nomination in the prescribed format through proper **channel to the Course Director** along with non-refundable Demand Draft / Postal Order of Rs. 50/- as Registration Fee in favour of **ICAR-UNIT, CIFRI** payable at Barrackpore.

Last date of receiving nominations is 15<sup>th</sup> December, 2011. The selected candidates will be intimated by post and mail before 20<sup>th</sup> December, 2011 and wait listed ones would be confirmed by 30<sup>th</sup> December, 2011.

## TA and DA

The participants will be paid travel fare for to and fro journey by rail or bus or other means of transport as the case may be, on production of certificate for travel by shortest route. The payment will be made as per entitlement class of travel but restricted to maximum of AC II tier train fare. Participants are required to produce photocopy of rail and bus ticket (only by public transport) for reimbursing the travel expenditure.

## Boarding and lodging

The participants will be provided rent free accommodation in the CIFRI guest houses and meals and refreshment as per the rules of winter school. The participants are requested not to bring their family/accompanying persons with them.