#### SHORT COURSE On

# Recent Advances in Livestock Fish Integrated Farming System

10th to 19th February 2016





Sponsored by **Education Division**Indian Council of Agricultural Research

Organized by

Division of Livestock and Fisheries Management
ICAR Research Complex for Eastern Region
Patna-800014 (Bihar)

The present economic pressure for maximizing food production and minimizing production cost with a general concern for energy conservation has led to the development of integrated farming system. Integrated fish farming (IFS) is a diversified and coordinated method of faming system, where agriculture and animal husbandry are integrated along with fish farming. The main objective of this system of farming is that, wastes or by-products generated from each sub-system are used as inputs to other sub-systems to improve the productivity and to reduce the cost of production of the outputs of the various sub-systems. Integrated fish culture with livestock or cash crops holds a considerable potential for augmenting production of animal protein and generation of employment opportunities in the rural areas. In the present course, recent advance techniques related to integrated fish farming will be discussed for refreshing and updating the knowledge of faculties/scientists of SAUs, CAUs, ICAR Institutions and KVKs.

### **Eligibility**

Admission is limited to teachers, researchers or supervisor/ demonstrators / technical officers having Master Degree in Agriculture/ M.V.Sc/ M.F.Sc and allied disciplines. Participants should be from SAUs/ CAU/ I.C.A.R. Institutes/ Deemed University/ SMS of KVKs/ Central or State Govt. Departments. Competent authority of the above mentioned institutes can nominate 2-3 persons for attending the training programme. A total of 25 participants will be accommodated in this short course.

#### **Travel allowance & Accommodation**

Selected participants will be getting reimbursement for to and fro travel expense as per their entitlement, restricted to the maximum of AC II Tier fare by the shortest route. Participants are required to produce the original tickets in support of their claim. Free lodging and boarding arrangements will be made for the participants in the guest house.

#### **Course Contents**

The course contents include lectures, hands-on practical sessions and field visits on important topics. Few are listed below:

- Principle, scope and components of an ideal IFS in India.
- Scientific strategies for feeding and water quality management in IFS pond.
- Recent advancement in fish culture practices and livestock management.
- Rice-fish and different livestock based IFS systems.
- Stress management, defence mechanism and disease management in integrated fish farming.
- Economical analysis of different integrated fish farming systems.

# Field trips and exposure visits

Field trips/ exposure visits will be made to important integrated fish farming sites located at Patna/Vaishali/Samastipur.







#### **Host Institute**

Eastern region is endowed with rich natural resources; however, its potential could not be harnessed in terms of improving agricultural productivity, poverty alleviation and livelihood improvement. There is a large gap between potential and productivity of major crops, horticulture, fisheries etc. Keeping in view the potential of the region, the ICAR Research Complex for Eastern Region (ICAR-RCER) was established in 2001 to address diverse issues relating to land and water resources management, crop husbandry, horticulture, agro-forestry, livestock, fisheries, poultry, agro-processing and socio-economic aspects in a holistic manner for enhancing the productivity, sustainability and livelihood status for the poor and under privileged farmers of the eastern region. ICAR-RCER is a multi-commodity and multidisciplinary institute designed to address multiple, complex factors affecting the agricultural production in the region. During the last one and half decade, many farmers friendly technologies and varieties have been developed. Apart from the institute headquarter located at Patna, it has regional stations at Darbhanga, Bihar and Ranchi, Jharkhand and two KVKs at Buxar, Bihar and Ramgarh, Jharkhand.

### The Patna city

Patna is the capital and largest city of the state of Bihar with an estimated population of 1.68 million. The city of Patna is situated on the southern bank of the Ganges. The city also straddles the rivers Sone, Gandak and Punpun. This is one of the most important pilgrim centres for Buddhist, Hindu, Jain and Sikhs religion and is well connected by road and train. Weather during the programme is expected to be pleasant within 26-32°C.

## How to apply

Application in prescribed format may be sent to the Director after approval from competent authority. The complete list of selected participants will be available in ICAR-RCER website www.icarrcer.in.

#### How to reach

Institute is located near Bihar Veterinary College, Jaiprakash Narayan International Airport, Patna and Phuwari Camp Jail. It is around 8 km from the Patna Junction Railway Station. Prepaid auto / taxi are available at the station itself.

### **Important Information**

1. Duration of the short course : 10 days

2. Last date of submission of application : 10.01.2016

3. Applicants can also apply online using ICAR CBP por-tal at www.iasri.res.in/cbp

Patron

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Director

ICAR Research Complex for Eastern Region Patna 800014

Course Director

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Director

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For any other update log on www.icarrcer.in

#### APPLICATION FORM

(to be sent to Director, ICAR-RCER, Patna)

1.	Full name (in BLOCK letters):
2.	Designation.
3.	Present employer and address:
4.	Correspondence address :
	(in BLOCK letters)
	Mobile No
	and E-mail
5.	Permanent address
6.	Date of birth
7.	Sex: Male/Female
8.	Teaching/ research/ professional experience:
9.	Marital status: Married/Un-married:
10.	Mention if you have participated in any winter School/ Short course, during the previous years under ICAR/ other organizations:
11.	Postal order/DD No Dated of Rs. 50/-for registration (in favor of ICAR-RCER, Patna)
12.	Academic record: (Degree onwards)
	<ul> <li>Examination passed, Subjects, Year of passing, Division, Rank, University or institution etc.</li> </ul>

Signature of the applicant (Date & Place)

Recommendation of forwarding institute:

Signature & Designation of the Sponsoring Authority (With address & Office seal)

NOTE- Those who have already submitted need not apply again.