



भा.कृ.अनु.प. - केन्द्रीय मीठाजल जीवपालन अनुसंधान संस्थान

ICAR - Central Institute of Freshwater Aquaculture

आईएसओ ९००१ : २०१५ प्रमाणित संस्थान

An ISO 9001:2015 Certified Institute

**ICAR-CIFA Organizes National Training Program on  
“Genetic Management of Carp Broodstock for Quality Seed Production”  
for Officials of the Department of Fisheries, Government of Bihar  
during 26-30 January 2026**

The Fish Genetics and Biotechnology Division, ICAR-CIFA, organised a 5-day national training program on “Genetic Management of Carp Broodstock for Quality Seed Production” from 26 to 30 January 2026 to increase awareness regarding the genetic management of carp broodstock hatcheries. Dr J. K. Sundaray, Principal Scientist and Head, FGBD, Dr K. Murmu, Principal Scientist, and Mr Avinash Rasal, Scientist, were the course directors for the training program. A total of 15 Fisheries Extension Officers (FEO) and Fisheries Development Officers (FDO) from 11 districts of Bihar participated in the training program.

During 5 days training resource persons from ICAR-CIFA has delivered theory lectures which include all the aspects of genetic management of carp broodstock, freshwater aquaculture technologies by ICAR-CIFA, selective breeding for increasing fish production, effect of inbreeding on performance traits, early breeding using carp broodstock diet (CIFABROOD™), cryopreservation of milt and multiple breeding, fish hybrid identification using molecular tools, structure of carp hatchery and its management, nursery management for carp seed rearing, soil and water quality management and fish disease management, etc. In practical classes, they have given hands-on training on PIT tagging of rohu and catla fingerlings.

They were taken to various ICAR-CIFA facilities, such as the Biofloc facility, Magur RAS hatchery, Freshwater prawn hatchery, and ornamental fish breeding unit, during which they interacted with the respective scientists available in the units. They were taken to see the intensive aquaculture system developed by a progressive fish farmer, Mr Saurav Kumar Biswal, at Jagatsinghpur, who is also a multiplier unit of Jayanti rohu and improved catla. Trainees have seen the In-pond Raceway System (IPRS), the IMC hatchery, the Nursery, and the grow-out ponds, and have interacted with him. The trainees were also taken to see the National Freshwater Fish Brood Bank (NFFBB) facility of NFBD eastern regional centre in Kausalyaganga, Odisha.

The participants appreciated the training support received from all resource persons and division scientists. The training program was coordinated by Dr. Laxman Sahoo, Principal Scientist, Dr. Mohan Badhe, Scientist, and Dr. Uday Kumar Udit, Scientist of the Fish Genetics and Biotechnology Division.



### Field Visit to different facilities at ICAR-CIFA, NFFBB and Farmers' Field



### Theory and Practical Sessions during the Training Program

5 days Training on  
**“Genetic Management of Carp Broodstock for Quality Seed Production”**  
during 26-30 January 2026



Line-1: Mr. Shashi Ranjan, Mr. Abhay Ranjan Gupta, Mr. Avinash Kumar, Mr. Dhanjeet Tiwari, Mr. Yashvant Kumar, Mr. Rajesh Kumar Ram, Mr. Arvind Kumar Singh, Mr. Surya Kumar Prabhakar, Dr. J. K. Sundaray, Dr. P. K. Sahoo, Mr. Sujeet Kumar, Mr. Vikas Kumar Singh, Mr. Sunil Kumar Sahani, Mr. Kumar Saurav, Mr. Abhishek Kumar, Mr. Satyam Kumar, Mr. Yesbir Kumar Choudhary, Dr. Avinash R. Rasal, Dr. Uday Kumar Udit, Dr. K. Murmu, Dr. Mohan Ramesh Badhe.

**Trainee Participants with Resource Persons**