

# Snapshot Compilation of ICAR-CIFRI Activities on the ICAR Website

2016 - 2022



भा.कृ.अनु.प.-केन्द्रीय अंतर्स्थलीय मात्स्यिकी अनुसंधान संस्थान  
बैरकपुर, कोलकाता-700120, पश्चिम बंगाल

**ICAR-Central Inland Fisheries Research Institute**

Barrackpore, Kolkata - 700120, West Bengal

[www.cifri.res.in](http://www.cifri.res.in)

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**Year  
2016**





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### DG, ICAR Emphasized on Scientific Management of Natural Resources for Fisheries Growth

15<sup>th</sup> June 2016, Kolkata

Dr. Trilochan Mohapatra, Secretary, DARE and DG, ICAR visited ICAR-Central Inland Fisheries Research Institute, Barrackpore Kolkata today. In his address to scientists and staff of the Institute, he said inland fisheries growth in India is led by CIFRI and to move forward we must focus on changes occurred in size of the resources, habitat characteristics, biodiversity of the open water-bodies and the impact of pollution and climate change on these resources over the decades. He lauded the Institutes effort in mapping of open-water resources of different states on GIS platform. He emphasized that the Hon'ble Prime Minister has given the call for "Blue Revolution" and this institute has to play a very big role in this endeavor.



Dr. J. K. Jena, DDG (Fisheries Sciences) emphasized on the role played by this institute as the leader of inland fisheries during last seven decades.

Earlier, Dr. V. R. Suresh, Director (Acting) briefed on activities and achievements of ICAR-CIFRI.

Dr. Gopal Krishna, Director cum Vice Chancellor (Acting) ICAR-CIFE, Mumbai and Dr. P. G. Karmakar, Director, ICAR-CRIJAF, Barrackpore were also present on this occasion.

Dr. B. P. Mohanty, Head, FREM Division proposed the vote of thanks.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### Integrated farming system for the economic development of farmers emphasised

16<sup>th</sup> June 2016, Rahara, West Bengal

Dr. Trilochan Mohapatra, Secretary (DARE) & Director General (ICAR) visited Kalyani Field Station, Rahara RRC of ICAR-Central Institute of Freshwater Aquaculture, Bhubneshwar today.



Dr. Mohapatra in his address emphasized on integrated farming system for the economic development of the resource-poor farmers. Director General released two pamphlets, one on "Nutrition Facts" and the other on "Dissemination of freshwater Aquaculture technologies in Bali Island, Sunderban, West Bengal". He was accompanied by Dr. J. K. Jena, DDG (Fy. Sci), Dr. V. R Suresh, Director (Acting), ICAR-CIFRI.

Dr. P. Jayasankar, Director, ICAR-CIFA assured that the centre would address all issues related to aquaculture development in the region.

A Tribal Fish Farmers' Meet (*Jalabhumi Diwas*) was organized on the occasion. Fish Farmers from Sunderban, Naihati, Mursidabad and Hooghly participated in the meet

(Source: ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar)





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### International Yoga Day Celebrated at ICAR Institutes

Indian Council of Agricultural Research celebrated 'International Yoga Day' on 21st June 2016. ICAR Institutes across the country organized Yoga Sessions as per Common Yoga Protocol provided by Ministry of AYUSH, Government of India.

#### ICAR Headquarters

International Yoga Day was organized at Symposium Hall, NASC, New Delhi. Instructors from Morarji Desai National Institute of Yoga demonstrated various Yoga asanas. Dr. Gurbachan Singh, Chairman, ASRB was present on the occasion.



#### ICAR-Directorate of Floricultural Research, Pune and ICAR-Indian Veterinary Research Institute, Training and Education Center, Pune

On the occasion, Yoga experts from BKS Iyengar Institute of Yoga, Pune explained about the importance of yoga and informed us the common protocols to be followed while performing yoga.

All the scientific, administrative and temporary staff of ICAR-DFR and ICAR-IIVRI, TEC, Pune together performed yoga on this occasion.



#### ICAR-Indian Institute of Vegetable Research, Varanasi

Dr. Bijendra Singh, Director, ICAR-IIVR welcomed all the staff and emphasized on the importance of daily practicing yoga. Various exercises were demonstrated and conducted by Yoga expert. This programme was celebrated at ICAR-IIVR regional center sargate, Kushinagar and three ICAR-IIVR RVKs also.

#### ICAR-National Bureau of Fish Genetic Resources, Lucknow

#### Lucknow

Dr. Ravindra Kumar, Director (Acting), welcomed the participants and Team of Yoga Instructors. Vivekananda Kendra Kanyakumari, Branch- Lucknow demonstrated various Asanas and Pranamayas. All the staff members of the Institute participated in the occasion.



#### ICAR-Central Inland Fisheries Research Institute, Barrackpore

On the occasion Yoga Session was conducted under the guidance of eminent Yoga experts from of Yoga Kendra, Barrackpore based on the Common Yoga Protocol provided by Ministry of AYUSH, Government of India. Earlier, on 20th June, 2016 a Workshop on, "Health benefits of Yoga" and a practice session was also organized. Staff members of ICAR-CIFRI and their family members attended the program.



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### ICAR-CIFRI Celebrated National Fish Farmers Day, 2016

10<sup>th</sup> July 2016, Barrackpore

ICAR-Central Inland Fisheries Research Institute, Barrackpore celebrated National Fish Farmers' Day here today.

Prof. Purnendu Biswas, Vice Chancellor, West Bengal University of Animal and Fishery Sciences, graced the occasion as Chief Guest. In his address, he urged that State Government, ICAR-CIFRI, Universities, Entrepreneurs and Fish farmers to join hands for judicious utilization of the resources for the development of Fisheries Sector. He called for more interaction between innovative farmers of different States.



Sri Silbhadrha Dutta, Member of Legislative Assembly, West Bengal, Guest of Honour, emphasized on more collaborative work through Centre-State coordination for farmers' welfare and bringing research findings to for farmers field.

Dr. V. R. Suresh, Director ICAR- CIFRI (Acting) said scientists of CIFRI are striving for developing sustainable open water fisheries management in the country. He informed that CIFRI has organized capacity building programmes for about 500 farmers from various states of India viz. Bihar, West Bengal, Uttar Pradesh, Assam, Karnataka, Kerala, Jharkhad, etc during, 2015-16.

More than 100 farmers, State Government Officials, Scientists and staff of CIFRI attended the function.

Six progressive fish farmers, representing West Bengal, Bihar, Jharkhand were given "Best Fish Farmer Award 2016" by the Institute.



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### Bihar farmers trained on Inland Fisheries Management

Jabalpur, 22 August 2016.

A training programme was conducted for the farmers of Saran District of Bihar on "Inland Fisheries Management" during 22-28th August, 2016 at ICAR-CIFRI, Barrackpore, Kolkata. The training was inaugurated by Dr. B.K. Das, Director, CIFRI on 22nd August, 2016. In his Inaugural address, Dr. Das, Director, CIFRI gave an overview on the management measures for inland fisheries resources



Bihar farmers trained on Inland Fisheries Management

The training curriculum was designed after need assessment of the farmers, and include both classroom as well as field level demonstrations. The trainees were exposed to various technologies viz. Pen-culture technology in Akalpur Beel, North 24 Pargana and composite fish culture at Kalyani farm of ICAR- CIFA Kalyani Centre. An exposure visit to ornamental fish market as well as waste water fisheries in East Kolkata wetlands were also organised during the training programme. The course module was also aimed to increase the capacity of the farmers on inland fisheries production. A feedback session was also conducted and around 90% of the farmers expressed very high level of satisfaction from this skill development programme.

The valedictory programme was presided over by Dr. B.K. Das, Director, CIFRI and he requested the farmers to implement the skill they developed during this training. Dr. B.K Das also emphasized to strengthen the fishermen cooperative societies in that district to develop Chaur (seasonal floodplain wetlands) fisheries on collective basis. This training programme was coordinated by Dr. Aparna Roy, Scientist, Extension and Training Cell, CIFRI. The training programme was ended up with vote of thanks by Shri Ganesh Chandra, Co-Coordinator of the training programme.





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### 'Fish and Shrimp Disease Surveillance': Awareness Programme for fish farmers

East Medinipur, 25<sup>th</sup> August 2016

Dr B. K. Das (Director, CIFRI) inaugurated one-day Awareness Programme on 'Fish and Shrimp Disease Surveillance' at East Medinipur district of West Bengal at Central Inland Fisheries Research Institute, Barrackpore under National Fisheries Development Board sponsored 'National Surveillance Programme for Aquatic animal Diseases Project'. Dr Das emphasized on the Best Management Practices (BMPs) in Shrimp farming, and said that good quality fish and shrimp seed along with good water quality management and good quality shrimp and fish feed is very important for preventing the disease occurrence.



Dr B. P. Mohanty (Head, Fisheries Resource and Environmental Management Division, CIFRI) highlighted the nutritional significance of fish and shrimp in human health. Shri Ramkrishna Sardar (Assistant Director, Marine Fisheries of East Medinipur, Department of Fisheries, Government of West Bengal) opined that, Shrimp culture has become a profitable farming option for fishers of East Medinipur district, however there is an urgent need for sustainable shrimp aquaculture in the region.

There were deliberations on 'need of fish disease surveillance in aquatic organism in present context and Shrimp Diseases and its management'; the maximum loss in shrimp farming is attributed due to diseases and that occur due to lack of proper management and environmental problems; economic loss caused due to fish and shrimp diseases. Seventy-five shrimp farmers from West Bengal participated in this programme.

Shri Bibekananda Mallick (Aquaculture- Technical Professional of Novozymes) gave a brief presentation on Best Management Practices in Aquaculture.

Farmers-Scientist interactive session was also organized at Central Inland Fisheries Research Institute, Barrackpore. In this session, Shrimp Farmers asked questions on water quality management, remedial measures for shrimp disease, slow growth syndrome etc.



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### Bihar farmers trained on Inland Fisheries Management

Barrackpore, 28 August 2016.

Dr B.K. Das (Director, CIFRI) inaugurated a seven-day training programme for the farmers of Saran District of Bihar on 'Inland Fisheries Management' on 22 August 2016 at Central Inland Fisheries Research Institute, and focused on the management measures for inland fisheries resources.



The training curriculum was designed after need assessment of the farmers, and include both classroom as well as field level demonstrations. The trainees were exposed to various technologies viz. 'Pen-culture technology in Akaipur Beel', North 24 Pargana and composite fish culture' at Kalyani farm of Central Institute of Fisheries and Aquaculture, Kalyani Centre. An exposure visit to ornamental fish market as well as waste water fisheries in East Kolkata wetlands were also organised during the training programme. The course module was also aimed to increase the capacity of the farmers on inland fisheries production. A feedback session was also conducted and around 90% of the farmers expressed very high level of satisfaction from this skill development programme.

The Director, CIFRI inspired farmers to implement the skill they developed during this training, and emphasized to strengthen the fishermen cooperative societies in that district to develop *Chaur* (seasonal floodplain wetlands) fisheries on collective basis at the valedictory programme.





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### Fish Health Awareness Camp at East Kolkata Wetlands

5<sup>th</sup> November 2016, Kolkata

ICAR-Central Inland Fisheries Research Institute, Barrackpore organized a fish health awareness camp under National Aquatic Surveillance Programme on Aquatic Animal Diseases and Mera Gaon Mera Gaurav programme at Bantala village in East Kolkata Wetland area in collaboration with Department of Fisheries, Govt. of West Bengal today.



The East Kolkata Wetlands, a Ramsar site, is famous for sewage fed fish farming but susceptible to fish diseases outbreak which may cause severe losses to the fish farmers. The awareness camp was organized to sensitize about fish health and to secure sustainable livelihoods and nutritional security for them.

Dr. B.K Das, Director, CIFRI urged the farmers to introduce feeding management practices for better management of fish health for increases productivity.

Dr. Priyanshi, Environmentalist, Institute of International Water Management emphasized the importance of understanding the environmental and man-made changes in the wetlands to secure the livelihoods for the fishermen community.

Dr. V.V. Sadamate, former advisor, Planning Commission emphasized that such type of extension activities should be accelerated to minimize the research-farmer gap.

On spot fish disease diagnosis and water quality analysis was also done by team CIFRI, based on which proper recommendations were given to the farmers

More than, 70 fishermen including 9 fisher women, and members of four primary fishermen cooperative societies participated in the programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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### ICAR-CIFRI Celebrates World Fisheries Day

21<sup>st</sup> November 2016, Madigan, Sundarban, West Bengal

ICAR-Central Inland Fisheries Research Institute, Barrackpore celebrated world Fisheries Day at Nutri-smart village Madigan in Namkhana block of Sundarban, West Bengal today. A special programme was organized on this occasion for popularization of Small indigenous fish species for livelihood enhancement in Sundarban region.



In his address the Chief guest Dr. Purnendu Biswas, Vice Chancellor, West Bengal University of Animal Science and Fisheries, Kolkata said small fishes are important for children as it provides required micronutrients.

Dr B. K. Das, Director, ICAR-CIFRI in his welcome address emphasized that the small indigenous fish have more micronutrients than Indian major carp and exotic carp. He said intake of these fishes in daily meal provide the required quantity of micronutrients and vitamins to the family. He stressed that culturing these fishes will give more income to the fishers as they fetch more price than carp fish.

Publications entitled "Small Indigenous Fishes for nutritional security of the rural economy (in Bangla and English)" and "Hilsa calendar in Bangla" was released on this occasion.

Earlier Seed bank of Small Indigenous Fishes was inaugurated under the Nutritional village project at Madanganj in Namkhana block of Sundarban area by the Chief Guest.

More than 250 fishers and fisherwomen participated in this programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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### World Soil Day Celebrated at ICAR Institutes and Krishi Vigyan Kendras

5th December, 2016

ICAR- Central Inland Fisheries Research Institute, Barrackpore

Shri Madhusudan Ghosh, Member of West Bengal Legislative Assembly graced as the chief guest of the function. Shri Ghosh shared his experience of soil conservation and its importance in the life of rural people. He raised concern about the immense use of pesticides in agriculture.

Dr. B.K. Das, Director ICAR-CIFRI spoke about the status of soil health and raised issues of soil sustainability.

Students from APC college, New Barrackpore, Fish Farmers and Scientists of CIFRI participated in the programme.







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### National Consultation on "Higher Fisheries Education"

16<sup>th</sup> December 2016, Mumbai

ICAR-Central Institute of Fisheries Education, Mumbai organized a one-day National Consultation on "Higher Fisheries Education" here today.

In the inaugural address, Dr. Gopal Krishna, Director, ICAR-Central Institute on Fisheries Education, Mumbai expressed that "Blue Revolution" can only be achieved by strengthening the fisheries education on the country. Hence, there is a need to support the state fisheries colleges, who shoulder the responsibility of producing fishery graduates, to augment their basic need for improving the student quality.



Dr. G. Venkateswarlu, ADG (EQR), Education Division, ICAR presented a glimpse of various ICAR schemes launched recently to enhance the quality of higher education by supporting the students and faculties.

Dr. P. Jayasankar, Director-ICAR-CIFA advocated for incorporating the elements of entrepreneurship development programme in higher fisheries education.

Dr.A.K.Singh, Director, ICAR-DCFR, Bhimtal, Dr.Masood Balkhi, Dean, COF-J&K, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore also expressed their views to bring harmonization between UG and PG education.

The primary aim of the event was to support the education system of the fisheries colleges by facilitating through ICAR-fisheries research institutes.

The consultation meet was attended by Deans of Fisheries Colleges of Jammu & Kashmir, Gujarat, Maharashtra, Tamil Nadu, Karnataka, Uttar Pradesh, Uttarakhand, Madhya Pradesh, Odisha, West Bengal, Andhra Pradesh, Tripura and Rajasthan.

(Source: ICAR-Central Institute on Fisheries Education, Mumbai)



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### Capacity Building Programme for Fish Farmers of Mayurbhanj District of Odisha

ICAR-Central Inland Fisheries Research Institute, Barrackpore organized a 4-day training programme for the farmers of Mayurbhanj District, Odisha during 23-26 December 2016.



Dr. B. K. Das, Director, ICAR-CIFRI, in his inaugural address emphasized on the importance of the skill development of the farmers on various aspects of inland fisheries management to secure their life and livelihood.

Mayurbhanj District has lots of inland water bodies including reservoirs and canals. This training programme aimed at developing knowledge up-scaling, skill and attitude of the farmers towards inland fisheries management. The programme is further targeted to strengthen the practical skill of the farmers for enhancing the fish production in open waters viz., reservoirs, canals, ponds & tanks etc. through learning by doing, field practicals, field exposure visits, demonstrations and class room sessions.

About 31 fish farmers including two women, six tribal fishermen participated in this training programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



The image features three concentric squares. The outermost square is a light sage green, the middle square is a medium sage green, and the innermost square is a darker sage green. The text 'Year 2017' is centered within the innermost square in a white, bold, sans-serif font.

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### DG, ICAR emphasized to address regional issues with greater vigour

15<sup>th</sup> January 2017, Bengaluru

Dr. Trilochan Mohapatra, Secretary (DARE) & Director General (ICAR) visited Regional Research Centres of ICAR-Central Inland Fisheries Research Institute and ICAR-Central Institute of Freshwater Aquaculture here today..

Dr. Mohapatra, while addressing the scientists and staff of the Research Centers, emphasised to address regional issues with greater vigour and scientifically sound strategy for fisheries development in the southern states may be developed. He appreciated the recent work of the Centers on fish parasites, Fish Acoustics, Electronic data acquisition systems and fish larval feed development. DG also highlighted critical role of ICAR Institutes in conservation, propagation and induction of the many endemic fish species in the region.



He later visited the laboratories of the Centres and CIFA fish farm.

Dr. J. K. Jena, Deputy Director General (Fisheries Science) highlighted the rich biodiversity in the southern region and its conservation and propagation efforts being made at the Centres.

Dr. B. K. Das, Director, ICAR-CIFRI gave a brief overview of the major activities of the Centre.

Dr. J. K. Sundaray, Director, ICAR-CIFA spoke about the need information on fish species, culture status and regional uniqueness so that a can be planned for Karnataka

(Source: **ICAR-Central Inland Fisheries Research Institute, Barrackpore**)





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### TEZ- 2016 successfully conducted at ICAR- NRRI, Cuttack

The ICAR sports tournament for Eastern Zone (TEZ 2016) was successfully organized by the ICAR- National Rice Research Institute, Cuttack during 6 to 9 March, 2017 at the sports complex of the institute. The closing ceremony of TEZ 2016 was graced by Shri Chhabiliendra Roul, IAS, Additional Secretary, DARE and Secretary, ICAR as Chief Guest. Shri Roul hailed the efforts of the institute for organizing the event successfully and appreciated the sportsman spirit shown by all the participants during the tournament. He also declared that the council is planning to organize Sports event as Sports and cultural event in which participants of cultural activities will also be competing with each other.



Dr. Himanshu Pathak, Director, NRRI thanked the Chief Guest, the participants and all the staff of NRRI who contributed towards the successful organization of the tournament. Dr.(Mrs) Jatinder Kishitwaria, Director, ICAR-CIWA, Bhubaneswar and Dr. J.K. Sundaray, Director (Acting), ICAR-CIFA, Bhubaneswar also graced the occasion. The ICAR-NRRI was adjudged the overall champion of the tournament, while the ICAR-IVRI, Izatnagar bagged the runner-up trophy. Mr. Pradeep Parida of ICAR-NRRI was adjudged as the Best Athlete (Men) while Ms. Sibna Moisi, ICAR-CIFRI was adjudged as the Best Athlete (Women). A total of 375 participants from thirteen ICAR institutes of Eastern Zone participated in the event.



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### Work plan signed between ICAR and World Fish

3<sup>rd</sup> May, 2017, Krishi Bhawan, New Delhi

Dr. Trilochan Mohapatra, Secretary (DARE) & Director General (ICAR) and Dr. Gareth Johanstone, Director General, International Center for Living Aquatic Resources Management (ICLARM) also known as the World Fish of the CGIAR signed a collaborative work plan on fish agri- food system for the period 2018-19, on 3<sup>rd</sup> May, 2017 at Krishi Bhawan, New Delhi,



This work plan emanated out of the existing MoU between these two organizations signed in 1996. Under this work plan both parties have mutually agreed to promote and accelerate collaborative efforts for fisheries and aquaculture research and development.

By addressing the three interlinked challenges of sustainable aquaculture, sustainable small scale fisheries, and enhancing the contribution of fish to nutrition and health of the poor in priority geographies of Africa, Asia and the Pacific.

The commitment took place in the presence of Dr. Chadag Vishnumurthy Mohan, Senior Scientist – Aquaculture Sustainable Aquaculture, World Fish, Dr. Joy Krushna Jena, DDG (Fy Sci); Dr. P Pravin, ADG (Marine Fy); Dr. Sudhir Raizada, ADG (Inland Fy); Dr. B.K. Das, Director, ICAR-CIFRI, Kolkata; Dr. S.S. Mishra, Director, ICAR-CIFA, Dr. Ravishanker CN, Director, ICAR-CIFT, Cochin and other senior officials from DARE and ICAR.



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### Union Minister Sushri Uma Bharti Visits ICAR-Central Inland Fisheries Research Institute, Barrackpore

26<sup>th</sup> May, 2017, Barrackpore,

Sushri Uma Bharti, Union Minister of Water Resources, River development and Ganga Rejuvenation visited ICAR-Central Inland Fisheries Research Institute, Barrackpore Kolkata today.



Minister in her speech emphasized that the two scientific institutions in India namely ICAR-CIFRI, Barrackpore and Forest Research Institute, Dehradun are contributing significantly in the National Mission on Clean Ganga. She stressed that 'Nirmal Dhara' of river Ganga can be achieved only when original aqualife (fish, dolphin, etc.) of river Ganga can be restored in their own habitats. Role of ICAR-CIFRI is immense in this direction for biodiversity mapping and restoring original aqualife of river Ganga. Learning from experiences of other rivers in wholesome management of the river Ganga will certainly make the river Ganga as the best river maintaining its uniqueness as targeted, she added.

Naming Fishermen, Scientists and the people who are dependent on Ganga for their livelihood as the Ganga Parivar, she asked all to contribute towards making Ganga clean and incessant. She handed over fish nets to fish farmers of Sagar Island. She took keen interest in the exhibition showing fishes of River Ganga. Minister released a poster in Hindi on fishes of River Ganga.

Two main prized warm water fishes Rohu (*Labeo rohita*) and Catla (*Catla catla*) was released under the project by Sushri Uma Bharti, in river Ganga at Barrackpore, West Bengal.

Dr. B. K. Das, Director, ICAR-CIFRI apprised of the work done on fisheries in River Ganga and other rivers of the country by the Institute.

Shri U. P. Singh, IAS, Director General of National Mission on Clean Ganga, Shri B. K. Biswas, Chairman, Ground Water Board and Shri Madhusudan Ghosh, Local MLA were also present on this occasion.

ICAR-CIFRI under NMCG project on fish and fisheries of River Ganga is being assigned to understand both qualitative and quantitative distribution of fish species. A total of 158 fish species have already been recorded from the entire stretch of River Ganga. 1 endangered, 2 Vulnerable and 14 near threatened species have been recorded. In respect to the present scenario, contribution of major consumable fish species especially Indian Major Carps (IMC) have declined drastically all throughout the river Ganga due to various anthropogenic activities in past decades such as pollution, overfishing, use of destructive fishing gears etc. Two thousand and five hundred fingerlings (sized 8-10 cm) of Rohu (*Labeo rohita*) and Catla (*Catla catla*) has been released as per the ranching objective under the present NMCG sponsored project.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### Regional Consultation on "Open water fisheries development in NE region"

29<sup>th</sup> May 2017, Guwahati

ICAR- Central Inland Fisheries Research Institute, Barrackpore organized a Regional Consultation on "Open water fisheries development in NE region" here today.

Sjt. Parimal Suklabaidya, Minister Fisheries, Government of Assa, in his inaugural address, stressed on the need for making the NE region self-sufficient in fish production by utilizing all available fisheries resources. He urged all the state fisheries departments of the region to work unitedly with the common goal of achieving self-sufficiency in fish production through concerted efforts of all R&D agencies. He also highlighted the recent initiatives of the Government of Assam to bring about blue revolution in the state through the 'Ponds for all – fish for all' scheme launched by Govt. of Assam.



Prof. K. K. Saharia, GB Member of ICAR and Dr. J. Chauhan, National Convener for Extension Education, Ministry of Agriculture and Farmer's Welfare, Govt. of India commended the effort of the Institute and expressed the hope that the exercise will help in developing the fisheries sector of the region.

Dr. B. K. Das, Director, ICAR-CIFRI emphasized on the need for developing open water fisheries in the region and assured providing research support to the state fisheries department. He also stressed on the need to prepare an effective roadmap for developing openwater fisheries of the region through stakeholder consultation.

The Directors of Fisheries, Govt. of Assam, Mizoram and Manipur also addressed the gathering and thanked ICAR-CIFRI for initiating the exercise.

The delegates provided inputs and suggestions regarding state-specific roadmaps.

(Source: ICAR- Central Inland Fisheries Research Institute, Barrackpore)



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### ICAR celebrates International Yoga Day

Indian Council of Agricultural Research celebrated 'International Yoga Day' on 21st June 2017. ICAR Institutes across the country organized Yoga Sessions as per Common Yoga Protocol provided by Ministry of AYUSH, Government of India.

#### ICAR Headquarters

International Yoga Day was organized at Symposium Hall, NASC, New Delhi. Dr. Trilochan Mohapatra, Secretary (DARE) & Director General (ICAR) said Yoga helps to achieve balanced and peaceful life.



Shri Chhabilendra Roul, Additional Secretary (DARE) & Secretary (ICAR) briefed about various form of Yoga and their benefits.

Dr. A.K.Singh, Deputy Director General (Agricultural Extension), Dr. Joykrushna Jena, Deputy Director General (Fisheries Science) and Senior Officials of ICAR Headquarters attended the event.

Instructors from Morarji Desai National Institute of Yoga demonstrated various Yoga asanas.

#### ICAR-Central Inland Fisheries Research Institute, Barrackpore



Yoga Session was conducted under the guidance of eminent Yoga experts, Mr. Sujit Ghorui and his group of Yoga Kendra, Barrackpore based on the Common Yoga Protocol provided by Ministry of AYUSH, Government of India. Around 150 members (Staff members of ICAR-CIFRI and their family members) attended the program in the morning.

(Source: Respective Institutes)



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### Secretary, DAHDF interacts with scientists, fish farmers at ICAR-CMFRI

22<sup>nd</sup> July 2017, Kochi

Shri Devendra Choudhary IAS, Secretary, the Department of Animal Husbandry, Dairying and Fisheries (DAHDF), Govt. of India visited the ICAR-Central Marine Fisheries Research Institute, Kochi today and interacted with the representatives of various central fisheries institutes and brackishwater fish farmers in Kerala.

Shri Choudhary said micro-level planning is required to promote the sea cage farming across the coastal belts of the country. He also assured the ICAR-CMFRI that the Department would look into considering the annual marine fish landing estimates being carried out by the institute as the authenticated data for country's policy formulations.



"DAHDF has approved a budget of Rs 9 crore to the ICAR-CMFRI for the establishment of the national brood bank for enhancing the production of cobia and pompano which will be a major breakthrough in the development of sea cage farming in the country", Shri Choudhary added.

During the interaction with the brackishwater fish farmers in Kerala, Shri Devendra Choudhary said the total fish production in the country should reach 15 million tonnes from the present 10 million tonnes by 2020.

Pointing out the emerging diseases in the brackish water fish and shrimp farming, Shri Choudhary said eco-labelling and organic farming would help to avoid wrong practices which cause disease outbreak.

Dr A Gopalakrishnan, Director, ICAR-CMFRI urged to take follow up action for finalising the National Plan of Action on Sharks for which a guidance document has been submitted by the CMFRI to the DAHDF.

Dr S Karthikeyan IAS, Director of Fisheries, Kerala and Dr L Sankar, Joint Commissioner of DAHDF also accompanied him.

Heads of the Divisions from the ICAR-CMFRI and representatives from ICAR-NBFGR, ICAR-CIFRI, MPEDA, KUFOS, CIFNET and FSI attended the interactive meet.

(Source: ICAR-Central Marine Fisheries Research Institute, Kochi)





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### Awareness Programme on conserving depleting fish species of River Ganga

Awareness Programme on Conserving Depleting fish species of River Ganga was organised by ICAR-Central Inland Fisheries Research Institute, Regional Centre, Allahabad on 1st August 2017 under National Mission for Clean Ganga project to restore and conserve the depleting fish species.



Shri Jai Prakash Nishad, Minister of State, Animal Husbandry and Fishery, Government of Uttar Pradesh inaugurated the programme with lighting of the lamp. In his address, the Minister emphasised on the importance of Ganga River and its biodiversity. He expressed great concern on low recruitment of fishes, over fishing of brooder stock during the breeding season and over fishing of the fingerling during rainy season which hampers the fish biodiversity and finally affecting the livelihood of fishermen community. He also released publication "Ganga Ko Aviral Bahne Do" as a guiding principle to restore Ganga and livelihood of fishermen community. As part of ranching programme fingerlings of Rohu, Catla and Mrigal species were released by Shri Nishad.

Dr. B. K. Das, Director, ICAR-CIFRI briefed stressed that ranching of all the important depleting fish species is scheduled to be done in the entire stretch of the Ganga River.

On this occasions, Professor, Scientists and officials from Allahabad University, WII, FRI, Forest Department, Uttar Pradesh, Fisheries Department Uttar Pradesh, Ganga Vichar Manch, NGOs were present and expressed their opinion. They suggested measures to reduce pollution and to increase the fishes in the river.

The event was attended by the students of Allahabad university, fishers of nearby villages, fish traders of Sadiapur, Daraganj & Mehdauri and local people living on the bank of the Ganga and Yamuna.



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### Training Programme on "Management of Wetland Fisheries" at Piprakothi, Motihari

ICAR-Central Inland Fisheries Research Institute, Barrackpore organized three-day training programme on "Management of Wetland (maun) Fisheries" at Krishi Vigyan Kendra, Piprakothi, Motihari for maun fishers of East Champaran district from 6-8 August 2017 under NFDB sponsored project "Fisheries development in four wetlands of East Champaran district of Bihar.



Shri Radha Mohan Singh, Union Agriculture and Farmers Welfare Minister was the Chief guest of valedictory session. Shri Singh said that a large number of fishers livelihood depends on the fisheries in 4 lakhs hectare wetlands in eastern and north eastern part of India, This project for development of four selected wetlands of East Champaran district of Bihar under central sector scheme on Blue revolution will double the production of these wetlands and help in doubling the income of wetland fishers. Six hundred and fifty fishers family will be benefitted from this project. He said that under this project, cage culture, pen culture will be installed and advance size fingerlings will be produced at the maun site for stocking in the maun.

Dr. B. K. Das, Director, ICAR-CIFRI briefed about the NFDB sponsored project and training programme. He emphasized that this training programme in four wetlands namely Kararia, Rulhi, Majharia and Sirsa will help in augmenting fish production in these natural water bodies.

78 fishers of Majharia and Sirsa maun participated in the training programme and got hands on training on different aspects of wetland fisheries management and development.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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### Midterm Review Meeting of ICAR Regional Committee II

13th November, 2017 at Barrackpore

ICAR-Central Inland Fisheries Research Institute, Barrackpore organized Midterm review meeting of Regional Committee (Region II) here today. The ICAR Region II, comprising the States of Andhra Pradesh, Telangana, Odisha, West Bengal and Union Territory of Andaman & Nicobar Islands and has enormous potentialities for agriculture development including livestock and fisheries.



Dr. J.K Jena, Deputy Director General (Fisheries Science) in his address said while food production scenario of the region has improved substantially over last one decade, the region is still deficit in pulses, oilseeds. Hence, concerted effort of Centre, State, NGOs and other stakeholders are required for a strong Research, Development and Extension Programme in the region to achieve self sufficiency in various sectors of agriculture and to double the income of the farmers by 2022 in line of the Vision of Government of India, he added.

Dr. B.K Das, Director, ICAR-CIFRI and Member secretary of Regional Committee-II presented the Action taken report. A total of 35 Action points were framed during last RCM-II at Hyderabad.

Directors from ICAR Institutes and officials from universities participated in the meeting.

Representatives from 26 ICAR-Institutes/RRCs, eight universities and State Departments of West Bengal, Telangana, Odisha, Andaman and Nicobar Island were present in the meeting.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### FAO/ICAR-CIFRI workshop on "Fish passage design at cross-river obstacles – experience from different countries, with potential reference to India"

The FAO/ICAR-CIFRI workshop on "Fish passage design at cross-river obstacles – experience from different countries, with potential reference to India", is being organised at ICAR-Central Inland Fisheries Research Institute, Kolkata from 29th November 2017 – 1st December 2017.



This workshop encompasses diverse aspects related to fish passes, viz., the current scenario of fish pass facilities around the globe, status of fish pass in India, behaviour of migratory fish species, fish pass design and efficacy of fish pass. The workshop brings together a multidisciplinary panel of experts working at different international organizations such as the Food and Agriculture Organization of the United Nations (FAO, Rome), Hydraulic Engineering and Environment (Germany) and the University of Natural Resources and Life Sciences (Austria).

Dr. Dilip Kumar, Former Director and Vice-Chancellor, ICAR-Central Institute of Fisheries Education, Mumbai in his address said fish pass design is one of the areas where FAO experience will immensely help in proper designing and construction of fish pass during the construction of new dams. Dr. Kumar emphasised that collaboration and working in partnership between various departments of governments is highly required for successful working of fish passages.

Dr. B. K. Das, Director ICAR-CIFRI emphasized that fish passes are of increasing importance for the restoration of free passage for fish and other aquatic species in rivers as such devices are often the only way to make it possible for aquatic fauna to pass obstacles that block their up-river journey. The fish passes thus become key elements for the ecological improvement of running waters, he added.

Dr. Gerd Marmulla, Fishery Resource Officer, Food and Agricultural Organisation in his address said that India is one of the biodiversity rich country having more than 900 freshwater fish species. One of the most important among them is Hilsa. Long distance migration is lifeline of many fish species for their physiological requirement like spawning, breeding, seasonal habitat change and related activities. Dams hampers free migration of migratory fish species and stocking alone is not a viable option as it does not replace natural reproduction of fish in long term.

Dr. B. P. Das, Former Engineer-in-Chief of Government of Odisha, FAO expert Consultant said during 1960-90s emphasis was on providing irrigation, power from multi-purpose dam projects. In 80s, after the decline of fisheries in Missouri and other rivers in US, the concept of fish passage and fish canals for lateral migration of fish initiated. Fish canal as fish passage enables fish migration in rivers.

The participants of the workshop represents several PSUs including NHPC, SJVN, ARUP, officials from State Water Resource Department, Gujarat, Central Water Commission, Ministry of Water Resources (MoWR) and Ministry of Environment, Forest and Climate Change (MoEFCC).

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





The image features three concentric squares. The outermost square is a light sage green, the middle square is a medium sage green, and the innermost square is a darker sage green. The text 'Year 2018' is centered within the innermost square in a white, bold, sans-serif font.

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### Farmers Sensitization Workshop on Climate Resilient Fisheries in Wetlands' and Demonstration of Climate Resilient Pen Systems

2nd February, 2018, Kachrapara, North 24 Parganas

ICAR-Central Inland Fisheries Research Institute, Barrackpore Farmers Sensitization Workshop on "Climate Resilient Fisheries in Wetlands" and demonstration of Climate Resilient Pen Systems (CRPS) for fish raising was organized at Mathura Beel, Kachrapara, North 24 Parganas, West Bengal on the occasion of World Wetland day. The programme was graced by Dr. Bipul Kumar Das, Dean, CoF, WBUAFS as Chief Guest and attended by more than 200 fishers of Kanchrapara Refugee Fishermen's Co-operative Society, Ltd (KRFCs), officials of Department of Fisheries, scientists and other staffs members of NICRA project, ICAR-CIFRI



Dr. B. K. Das, Director, ICAR-CIFRI emphasized on conservation and restoration of high value small indigenous species of wetlands. He said the climate change is exacerbating the problems posed to the wetland fisheries by anthropogenic stressors. For enhancing adaptive capacity of wetland fishers, ICAR-CIFRI Barrackpore has initiated demonstration of climate resilient adaptation strategies in wetlands. He also inaugurated the CRPS in Mathura Beel and released fish seed of IMCs, Bata, Mola, Puthi and Khoira in the pens. The demonstration of CRPS in Mathura beel, Kanchrapara aims to serve as a model for this region.

Dr Bipul Kumar Das, Chief Guest stressed upon depleted indigenous fish stock and supply of high priced fishes in local market. He appreciated ICAR-CIFRI for organising this programme which has the direct involvement with the local fishermen community.

On this juncture ICAR-CIFRI also signed a MoU with KRFCs Ltd. for demonstration of climate resilient adaptation strategies in Mathura beel. A stakeholder's interaction was also organised in which fishers raised their concern on siltation and weed proliferation in the wetlands.

(Source: ICAR-CIFRI, Barrackpore)



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### 24th ICAR Regional Committee –II Meeting

Bhubaneswar, 22 June 2018.

The 24th meeting of Indian Council of Agricultural Research (ICAR)-Regional Committee II comprising members from the states of West Bengal, Odisha, Andhra Pradesh, Telangana and UT of Andaman and Nicobar Islands, commenced today at DUAT, Bhubaneswar. The technical sessions are being held at Institute on Management of Agricultural Extension (IMAGE), Bhubaneswar, on 22-23 June 2018. The event is being organized by ICAR-CIPRI, Barrackpore in collaboration with ICAR-CIFA, Bhubaneswar. The Regional Committee provides a forum for the stakeholders to examine in depth the major gaps in current research and training efforts, to identify priorities and to decide agenda of research and extension in agriculture, animal husbandry and fisheries for a region for the coming year.



Dr T. Mohapatra, Secretary, DARE and Director General, ICAR, New Delhi, in his presidential address emphasized that the region offers tremendous scope and opportunities for multifaceted growth of agriculture sector, including animal husbandry, fisheries, horticulture, sericulture and others. The region is contributing significantly to the food basket of India. The states of this region are the major producers of rice, potato, tobacco, jute, poultry, fishes, oil-palm, vegetables and flowers. The country produces more than 280 million metric tonnes foodgrains despite the problems of climate change, loss of arable areas due to urbanization and a host of other problems. A right mix of technological breakthroughs and policy support has realized it. He called for concerted efforts of ICAR, SAUs and state governments to ensure that doubling of farmers' income becomes a reality.

Dr J.K. Jena, DDO (Fisheries Science & Animal Science) presented the background of RCN II and highlighted the major accomplishments of agricultural research and development in this region. Shri Chhabendra Rouli, Special Secretary (DARE) & Secretary (ICAR) emphasized the need for a paradigm shift in production system. The structural disconnect between consumer system and production system has to be bridged. Farmers need to be encouraged to produce for market in order to enhance their income and to lift out of distress.



Shri Binodhar Pradhan, Additional Secretary & Financial Advisor (DARE/ICAR) stressed on connecting farmers with e-NAM. He also advocated for state specific interventions for tackling problems of climate change.

Dr S. Garg, Principal Secretary, Agriculture and Farmers' Empowerment, Government of Odisha, also graced the occasion. He appreciated the close interaction with different stakeholders an agricultural research and development being organized by ICAR. He wished this unique initiative would go a long way in ensuring that research findings are grounded well for the benefit of farming community.

Sri G. B. Dhal, Agriculture Production Commissioner, Odisha, highlighted the use of robotics, genomics and nanotechnology in agriculture. He remarked that countries like Israel and USA are using 4G farming technologies whereas we in India are at 2G level. He urged the research fraternity to make available new generation farming technologies for the betterment of socio-economic condition of farmers.

Senior officers from ICAR hqrs. New Delhi; Directors of ICAR research institutes, Vice Chancellors of the State Agricultural Universities, Senior Officials (Principal Secretaries/Secretaries/Directors) of the State Departments of Agriculture, Animal Husbandry, Dairy and Fisheries participated in the discussion to prepare a roadmap for the development of agriculture including animal husbandry, dairying, fisheries, natural resource management and human resource development.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore and ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar)





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### National Fish Farmers' Day celebrated at ICAR-CIFRI, Kolkata

10th July, 2018, Barrackpore, Kolkata

ICAR-Central Inland Fisheries Research Institute celebrated National Fish Farmers' Day here today. The day is commemorated in remembrance of the revolutionary Induced breeding technology developed by Dr. Hira Lal Choudhury and Dr. Alikhuni, scientists of this institute on 10 July 1957.



Welcoming the gathering, Dr. B.K. Das said for last 72 years CIFRI is significantly contributing for generating dynamic knowledge base through interdisciplinary research and presently looking forward to work on major issues of natural resource management.

Dr. A. N. Roy, Director NIRJAFT emphasized upon the role of fisheries sector in livelihood security in West Bengal.

Prof. B. C. Mall, Vice Chancellor of JIS Group University, Kalyani and Guest of honour in his address shared his experience of 40 years working in aquaculture engineering sector. He congratulated the team CIFRI for immensely contributing in fish production enhancement in the country.

Shri Swami Atmapriyendaji, Vice Chancellor of Ram Krishna Vivekanand University and research institute, Belur Math and Chief Guest of the function stressed on the role played by nature for providing us food. In his address he praised the initiatives made by CIFRI for the beel and open water fisheries development in the country.

Around 150 fish farmers from various states, West Bengal, Bihar, Odisha, Jharkhand, Uttar Pradesh and Chhattisgarh participated in the event. Eleven fish farmers from West Bengal, Odisha, Telangana, Jharkhand, Bihar, Uttar Pradesh were awarded "Best Fish Farmer Award" at the function for their contribution to fisheries and aquaculture sector of India. The awardees also shared their experience in fish farming with the audience.

Two training programmes were organized under Skill development programme and tribal sub plan for the wetland fish farmers of west Bengal and tribal fish farmers of Sundarbans. was organized on the day aiming at providing solution to the problems faced by the fishers and fish farmers.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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### All India Network Project on Ornamental Fish Breeding and Culture Launched

28<sup>th</sup> July 2018, Kochi

In a major effort to develop the ornamental fish industry in the country, an all India network project on ornamental fish breeding and culture was launched by Dr J K Jena, Deputy Director General (Fisheries and Animal Sciences), ICAR at the ICAR-Central Marine Fisheries Research Institute today. The joint research initiative is mainly aimed at developing adequate technologies in breeding, seed production and culture of freshwater and marine ornamental species and helping maintain the sustainability of the industry. Seven ICAR fisheries research institutes are partnering in the project with the ICAR-CMFRI being the leading institute.



Speaking on the occasion, Dr J K Jena stressed the need for having a strong linkage between researchers and industry partners in the ornamental fish sector in the country to utilise the potential resources available in India. He also said that the network research project would address the issues being faced by the ornamental fish industry in India.

The project envisages scores of objectives including the development of ornamental fish villages with strong marketing ties. The project focuses on developing a value chain approach from seed collection, culture and export of various ornamental varieties by ensuring environmental and socioeconomic sustainability, product quality and overseas access to the ornamental fish industry in India. Technology for ornamental fish breeding and culture, a major thrust of the project, would provide additional income to rural and urban people as well and generate employment opportunities. Establishment of regional hatchery units and satellite hatcheries under public-private partnership (PPP) mode is one of the expected outcomes of the project.

The ICAR research institutes namely, Central Institute of Freshwater Aquaculture (CIFA), Central Inland Fisheries Research Institute (CIFRI); National Bureau of Fish Genetic Resources (NBFGRI); Central Institute of Brackishwater Aquaculture (CIBA); Central Institute of Fisheries Education (CIFE); and Directorate of Coldwater Fishery Research (DCFR) are the other partners in the network project.

Dr A Gopalakrishnan, Director of ICAR-CMFRI, Dr C N Ravishankar, Director of ICAR-CIFT, Dr Debajit Sarma, Director of ICAR-DCFR, Bhimtal, Dr Imelda Joseph and Dr K Madhu also spoke on the occasion.

(Source: ICAR-Central Marine Fisheries Research Institute)



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### Workshop on "Application of Biosensor Technology in Inland Fisheries"

A one-day workshop on "Application of Biosensor Technology in Inland Fisheries" organised on 1<sup>st</sup> August 2018 at ICAR-Central Inland Fisheries Research Institute, Barrackpore. The workshop aimed at sensitizing the professionals, working in inland fisheries sector, on the potentials of biosensing technology in aquatic health monitoring.



Dr. B. K. Das, Director, ICAR-CIFRI in his welcome address emphasised on the role of bio sensors in medical science and stressed on the likely use of bio sensors in the inland fisheries.



Prof. Vipul Bansal, RMIT University, Melbourne, Australia briefed on the use of bio sensors in bio medical sciences.

Dr. Nabarun Bhattacharyya, Director, C-DAC, Kolkata described bio sensors as a new field of research and wide applicability in different sectors.

The workshop was jointly organised by ICAR-CIFRI and Inland Fisheries Society of India (IFSI).

About 120 participants including scientist, research scholar and student attended the workshop.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### Ranching of native bred major carps in the river Ganga

2nd October 2018, Barrackpore

To commemorate the 150th Birth anniversary of Mahatma Gandhi and as a part of Namami Gange program, ICAR-Central Inland Fisheries Research Institute (ICAR-CIFRI) organized a fish ranching programme today at three consecutive Ganga ghats (Dopeisa ghat, Mangal Pandey ghat, and Gandhi ghat) at Barrackpore, Kolkata. Lucrative and important Indian Major Carp (like Rohu, Catla, and Mrigal) of the river Ganga have declined severely over the period due to several anthropogenic stresses. To re-establish these highly demanding fishes of Ganga through ranching in identified depleted stretches of Ganga.

Shri Nabin Naik, Director, Nehru Yuva Kendra Sangathan graced the event as a guest of honour. He briefed about the ongoing degrading situation of the holy river and urged the local people to initiate active coordination to make the Ganga clean.



Dr. B. K. Das, Director, ICAR-CIFRI and Principal Investigator, CIFRI-NMCG project highlighted the present project activities and need of ranching in the river Ganga.

A total of 2.8 Lakhs of native bred fingerling of Rohu, Catla, Mrigal has been released in river Ganga in different ghats.

Trilingual pamphlets distributed were among the fishermen and public present.

About 11 fish ranching --cum--awareness programme has been organized in different states like Uttarakhand, Uttar Pradesh and West Bengal so far.

More than 13 lakhs of juveniles of Rohu, Catla, Mrigal and Mahaseer has been released with an aim to restore and conserve the depleting fish stock of the river Ganga.

(Source: , ICAR-CIFRI, Barrackpore)





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### River Ranching-Cum-Fishers Awareness Programme at Nabadwip, West Bengal

6<sup>th</sup> November 2018, Nabadwip, Nadia

ICAR-Central Inland Fisheries Research Institute, Barrackpore organized a river ranching cum fishermen awareness programme today at Swarupganj Ghat, Nabadwip, Nadia, West Bengal under the 'Namami Gange' programme. The prime objectives of NMCG sponsored project includes exploratory survey of the riverine fish diversity, stock assessment & enhancement of the popular food fishes like Rohu, Catla, Mrigal, Calbasu and Mahaseer by ranching in the depleted stretches of river Ganga. Released fishes like Calbasu, Mrigal & Rohu will not only provide increased fish catch and improved livelihood but also help in maintaining the cleanliness of the river as they feed on organic remnants.



Dr. B. K. Das, Director, CIFRI, urged the fishermen community to adopt suitable management strategy like allowing the released fishes to grow and proliferate for restoration of the fish stock. He also mentioned about all the activities of the ongoing NMCG project like restoration of Hilsa at upstream of Ferkka barrage, continuous river ranching efforts during past two years in entire stretch of river Ganga, etc. He also highlighted about different sources of pollution of the river. Dr. Das requested the fishermen to actively take part in maintaining *nirmal dhara* of Ganga by preventing plastic and other pollution practices in river.

Shri. Haridas Debnath, Sabhapati Panchayet Samiti (Nabadwip) said the ill effects of sugar mill effluents coming from neighbouring districts of Bangladesh through adjacent river Jalangli (a tributary of river Ganga) causing large scale fish mortality.

Shri. Pundarikakshya Saha, MLA (Nabadwip) also graced the occasion.

Shri. Sirajul Seikh, Pradhan, Swarupganj Gram Panchayet, highlighted the need of improved coordination between central, state and local administration for better management of the river. He also urged the fishers not to use zero mesh seine net (locally known as *ber jaal*) which is highly detrimental to the fish diversity of the river.

As a part of the programme, 03 lakhs seed of fishes like Calbasu, Mrigal & Rohu were released in the river Bhagirathi (Ganga) in front of the holy ISKCON temple, Mayapur.

The programme was attended by more than 150 local active fishermen and their family members.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore )



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### MOU signed for installation of CIFRI Pen HDPE technology in reservoirs of Odisha

12th November 2018, Bhubaneswar

A Memorandum of Understanding signed between ICAR- Central Inland Fisheries Research Institute, Barrackpore and Directorate of Fisheries, Govt of Odisha for Installation of CIFRI Pen HDPE technology in various reservoirs of Odisha state here today.

Dr. B. K. Das, Director, ICAR-CIFRI, Barrackpore and Shri P. K. Senapati, IAS, Director, Directorate of Fisheries, Government of Odisha signed the MoU on behalf of respective organizations.



The ICAR-CIFRI developed CIFRI PEN HDPE technology will be installed in 100 ha of reservoirs for *in-situ* quality fish fingerlings production and table fish production in different parts of Odisha including naxal affected districts of Navrangpur and Malkangiri. Adoption of this technology will boost quality fish fingerlings availability in these reservoirs and boosting the fish production and productivity from these reservoirs, and in a long run improve the livelihood of the fishers of Odisha. The other reservoirs where this technology is going to be installed are in Cuttack, Mayurbhanj, Nayagarh, Gajapati, Ganjam, Kalahandi, Kandhamal, Koraput, Nuapada, Rayagada, Bargarh, Bolangir, Dhenkanal, Kendujhar, Sambalpur, Jharsuguda and Sundargarh districts.

The CIFRI PEN HDPE technology was developed for in-situ quality fish fingerling (seed) and table fish production in wetlands and reservoirs. The technology was commercialized on 17 March 2018 and licensed to M/s M. R. Aquatech, Bhubaneswar, Odisha.

(Source: ICAR- Central Inland Fisheries Research Institute, Barrackpore)



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### Union Minister of Agriculture and Farmers Welfare visits ICAR-CIFRI, Barrackpore

16 November, 2018, Barrackpore

Shri Radha Mohan Singh, Union Minister of Agriculture and Farmers Welfare visited ICAR- Central Inland Fisheries Research Institute, Barrackpore today.



Addressing the officers and farmers, Shri Singh said under the leadership of Hon'ble Prime Minister, during the last four and a half years, under the blue revolution programme for the development of fisheries sector in the country, many states have reached close to self-sufficiency in fish production. Fish production has increased by 26% in the last four years.

Shri Singh appreciated the work carried out by the institute and congratulated the institute for exceeding the revenue generation target and urged the scientific community to work hard to generate more revenue. He stressed on the need to doubling farmer's income through effective implementation of fisheries technologies developed by this institute.

The Union Agriculture Minister also inaugurated the skill development orientation training programme on "Inland Fisheries Management" for national service volunteers of Nehru Yuva Kendra, West Bengal. Under this programme, one thousand volunteers are being skill trained on inland fisheries. This programme is jointly organized by ICAR-CIFRI, Barrackpore in collaboration with Nehru Yuva Kendra, West Bengal.

Earlier, Dr. B. K. Das, Director, in his welcome briefed about the various research and extension activities carried by the institute towards enhancing income and livelihood of inland fishers in India. He also informed him about the various technologies developed by this institute and its impact on increase in inland fish production from different parts of India.

The meeting was also attended by Shri Navin Nayak, Director, Nehru Yuva Kendra, West Bengal, Sikkim, Andman & Nicobar Islands, senior officers of ICAR-CIFRI and Nehru Yuva Kendra, Kolkata and hundred fish farmers of West Bengal.

(Source: ICAR- Central Inland Fisheries Research Institute, Barrackpore)





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### ICAR-CIFRI, Barrackpore celebrates World Fisheries Day - 2018

20<sup>TH</sup> November, 2018, Barrackpore

Observing the World Fisheries Day on 21<sup>ST</sup> November - 2018, as declared by the Food and Agriculture Organization (FAO), the ICAR-Central Inland Fisheries Research Institute organized World Fisheries Day - 2018 celebrations here today.



Shri Pradeep Bagela, Vice Chairman of Nehru Yuva Kendra, Ministry of Youth Affairs, Government of India marked his presence as the Chief Guest of the programme. He urged the fishermen and rural youth for taking up fish farming a career and entrepreneurial activity in the near future.

The programme witnessed the opening ceremony observing the releasing of 1.5 lakhs of fish seeds of Indian major carp in the river Ganga by the special guests, Dr. B.K. Das, Director, CIFRI and Ms. Madhvi Agarwal, Governing Body Member of Nehru Yuva Kendra Organization in continuation following the ranching programme under the "Namami Gange" project of the Government of India.

The aim of the programme was to create awareness among the fishermen about the new technologies that can be adopted for earning better livelihoods. The fishermen present during the event were also made available with an interaction session with the Director of the Institute and the special guests that helped them to understand about the various factors related to fish conservation and also the nutritional value of Small Indigenous Fisheries.

A total of 130 fishers from Sunderban, North 24 Paraganas, Howrah and Mayurbhanj district of Odisha participated in the event.

On the occasion of "Cooperative Week", the institute also started a special discussion session from 14<sup>TH</sup> November - 2018 that marked the participation by fishermen from the "Akaipur Darbasini Fishermen's Society" and "Hingalgunj Agricultural society".

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### Livestock-cum-Agriculture Mela at Ajodhya Hills

22<sup>nd</sup> November, 2018, Purulia

With an aim to promote and develop a better livestock situation for the tribal people living the area of West Bengal, the ERS of ICAR-National Dairy Research Institute under its TSP Project organized a "Livestock and Agriculture Mela" in the Tribal dominated Ajodhya Hills area of Purulia District of West Bengal today. The programme was supported by West Bengal Comprehensive Area Development Corporation, Government of West Bengal.



The Guest of Honor, Shri Sujoy Banerjee, President, Purulia Zilla Parishad, briefed the farmers about the various tribal beneficiary schemes being carried out by the state government in the hill areas.

Dr. Bimlesh Mann, Joint Director (Res.) highlighted the role of TSP Project works to boost the economic upliftment of poor tribal farmers in the district by improving livestock farming system. She also stressed up on the need of continued support by NDRI to tribal farmers of the area.

A veterinary health-cum-vaccination camp was also held during the event to distribute the veterinary medicines among the tribal farmers along with the livestock vaccination. Through the camp, the expert team of Scientists/Veterinary Officers attended a total of 857 Desi (Indigenous) cows, 20 heifers, 39 calves, 53 buffaloes, 1595 goats, 5 Sheep and 2243 birds.

An exhibition showcasing unique agricultural technologies was also organized.

Farmers were also awarded in Livestock Competition for possessing good quality animals (Cattle, buffalo and goat).

Earlier, Dr. T.K. Dutta, Head, ERS-NDRI, Kalyani briefed the importance of organizing "Livestock-cum-Agriculture Mela" in such tribal dominated area in Ajodhya Hills area of Purulia District.

The event registered a total footfall of around more than 700 people (including 600 tribal farmers) along with several other experts/staffs from ICAR-NDRI, ICAR-IVRI, ICAR-CRIJAF, ICAR-CIFRI, WBCADC, WBUAFS and NGOs who shared their expertise with the tribal livestock farmers.

(Source: ICAR-National Dairy Research Institute, Eastern Regional Station, Kalyani, West Bengal)



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### Workshop on "Metagenomics in Fisheries Research"

The ICAR-Central Inland Fisheries Research Institute, Barrackpore organized two-day workshop on "Metagenomics in Fisheries Research" from 1<sup>st</sup> to 2<sup>nd</sup> December - 2018. The workshop was jointly organized by Inland Fisheries Society of India, Barrackpore; ICAR-Central Inland Fisheries Research Institute, Barrackpore and ICAR-Indian Agricultural Statistical Research Institute, New Delhi.



The aim of the workshop was to cover the use of publicly available resources for the management, sharing, analyzing and interpreting NGS data in various fields of microbial community studies, viz., water, sediment and soil, gut and skin and antibiotic resistance microbiome.

Dr. George John, Former Vice Chancellor, Birsa Agriculture University, Ranchi marked his presence as the Chief Guest along with Dr. P.K. Agarwal, ADG, National Agricultural Science Fund, ICAR and Dr. Anil Rai, Head, Centre for Agricultural Bioinformatics, Indian Agricultural Statistics Research Institute as Guests of Honor.

Dr. B.K. Das, Director, ICAR-CIFRI and Convenor of the workshop highlighted the challenges being faced by the researchers in the field.

Some potential uses of Metagenomics in the study of microbial diversity, microbial roles in microcosms, antibiotic resistance genes, novel and potential pathogens, microbial communities forming biofilms, probiotics and other applications were also addressed during the workshop.

The workshop was attended by more than 70 researchers and scientists.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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### First record of Octopus in Narmada estuary

ICAR-Central Inland Fisheries Research Institute reported the availability of Octopus in Narmada estuary for the first time in Bag Net catch during the routine survey (3-5 December 2016) by the research team from ICAR-CIFRI, Vadodara. *Cistopus indicus* (Rapp, 1835), commonly known as old woman octopus, has been observed for the first time from the estuarine zone of Narmada river at Bhadbhut region (21°40'52"N, 72°50'42"E), which is about 35 km away from the sea.



*Cistopus indicus* caught from Narmada estuary through bag net

*C. indicus* comes under the Class Cephalopoda of Order Octopoda in the family Octopodidae. In an around 200 species of Octopidae are reported from world Oceans and 38 commercially important species reported from Indian seas. In India, octopuses are caught mainly as by-catch in trawl nets used for shrimp trawling, shore seines, boat seines, hooks and line and stake nets. Octopus contributed merely 0.72% of the total molluscan resource (61688 t) landed in Gujarat during 2017. The species is mostly distributed in the Indo-Pacific region mainly Philippines, China, Bangladesh, India and Pakistan. Other important species of Octopus occur in the West coast of India are *Octopus dollfusii*, *Octopus membranaceus*, *Octopus labensis* and *Octopus vulgaris*. Octopus is a marine benthic species occurring up to the depth of 50 m, which used to inhabit the coastal sea waters, but rarely observed in the estuarine waters.

A total of 17 specimens with the total length ranging from 190-320 mm have been recorded from the catches. The maximum total length of the species was recorded as 325 mm with a weight of 56.2 gram. The maximum length of this species was reported as 600 mm from the Bay of Bengal. The presence of Octopus species has been monitored in the bag net (10 mm cod and mesh size) fish catch at Bhadbhut village in the month of December 2016.

The bag net is locally known as 'Golava' fishery usually commenced at the winter season (October to March) composed mainly with the marine fish species including juveniles of Hilsa, while the occurrence of Octopus in the catches is reported for the first time from this water.

The salinity of the Bhadbhut (21°40'52"N, 72°50'42"E) and the adjacent Mahagam region (21°40'26"N, 72°45'23"E) was in the range of 18-20 ppt during the month of December 2016 and the high salinity along with the flow of flood tide may be the reason for the ingress of true marine species like octopus into the estuary.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





The image features three concentric squares. The outermost square is a light sage green, the middle square is a medium sage green, and the innermost square is a darker sage green. The text 'Year 2019' is centered within the innermost square in a white, bold, sans-serif font.

**Year  
2019**





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### Workshop to Improve Fish Production organised by ICAR-CIFRI at Agartala

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized an interactive workshop on "Management of Open-water Fisheries" at Agartala, Tripura from 4<sup>th</sup> to 5<sup>th</sup> January - 2019. The workshop was organized in collaboration with Directorate of Fisheries, Department of Fisheries, Government of Tripura.



In his inaugural address, the Chief Guest, Shri Narendra Chandra Debbarma, Minister of Fisheries, Government of Tripura outlined the habit of Tripura citizens being fish-eaters to be beneficial for the fisheries sector in the state. He also sought the intervention of CIFRI to improve fish production from natural water bodies to benefit the common people on a larger scale.

Shri G.R. Das, TCS, Director of Fisheries, Government of Tripura and Joint Convener of the workshop, in his welcome address, expressed his concerns with scientists from ICAR-CIFRI about the unavailability of small highly nutritious and delicious fisheries in inundated paddy fields of Tripura.

Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore and Convener of the workshop stressed on focus to be given by the Department of Fisheries, Government of Tripura on seed production of diversified fish species having local preference. He also gave assurance of every necessary support in terms of technology backstopping for managing the open water fisheries in the state.

The main objective of the workshop was to discuss and exchange the varied expert ideas and advises for improving the fisheries culture in Tripura. During the workshop, the major focus was on simple and low-cost technologies (such as pen and cage aquaculture) and guidelines (fish stock enhancement) that are to be popularized in Dumbur reservoir, large lakes, barrages, swampy areas and rivers of Tripura for improving fish production.

During the interactive-cum-plenary session, Shri Rameshwar Das, IFS, Secretary (Fisheries), Government of Tripura urged the scientists and departmental officials to seriously think out-of-box for making cage aquaculture practice in Tripura a success as is prevalent in other states of the country.

Scientists from ICAR Institutes, officers from fisheries college and state Govt. participated in the workshop.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Awareness Camp for Fisheries Tribals organized

6<sup>th</sup> January, 2019, West Bengal

The ICAR-Central Inland Fisheries Research Institute organized a two-day mass awareness camps at Amtoli and Kochukahall, Gosaba block of Sunderban, West Bengal from 5<sup>th</sup> to 6<sup>th</sup> January - 2019.



Awareness Camp for Fisheries Tribals organized

The camps were organized in collaboration with the local NGO "Sunderban Dream" under TSP.

During the occasion, Dr. B.K. Das, Director, ICAR-CIFRI urged the women participants to collectively start intervention of fisheries in the utilized canals of Sunderbans to enhance the production. He also emphasized on conserving fish diversity and importance of small indigenous fish on human nutrition.

The occasion also held Farmers-Scientists' Interaction Session at both the venues. During the sessions, the scientists of ICAR-CIFRI provided the solutions to several queries related to fisheries development.

The programme also sensitized the women participants about the importance of cleanliness and hygiene in daily life.

A tribal dominated district in Gujarat, one of the promising CIFRI technologies namely "CIFRI Pen HDPE" was demonstrated in Karjan reservoir in the Narmada District.

The occasion also marked releasing ceremony of fish seed in the CIFRI Pen HDPE installed in Karjan reservoir on 6<sup>th</sup> January - 2019, which will help in enhancing the fish production in Karjan reservoir and benefit 200 tribal fishers.

The awareness programmes registered a total footfall by more than 600 tribal fishers including mostly women participants.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### First Hilsa Ranching Station established by ICAR-CIFRI

24<sup>th</sup> January, 2019, Barrackpore

Shri Babul Supriyo, Union Minister of State (Ministry of Heavy Industry & Public Enterprises), inaugurated the Hilsa (*Tenualosa ilisha*) Ranching Station at Farakka, established by ICAR-Central Inland Fisheries Research Institute, Barrackpore here today.

The Minister also emphasized to replicate such ranching facilities in large scale to make its impacts visible. He also suggested installing floating cages at suitable locations to rear the hilsa juveniles prior to ranching in the river Ganga.



The ceremony marked the presence of administrative and management personnel from different water stakeholders, including Farakka Barrage Authority (FBA), Inland Waterways Authority of India (IWAI), Central Water Commission (CWC) and Fishermen societies under the National Mission for Clean Ganga (NMCG).

Dr. B.K. Das, Director, ICAR-Central Inland Fisheries Research Institute discussed about the ranching of a total number of 117 hilsa fish having an average length of 255 mm and average weight of 165 g from the station at the upstream of Farakka barrage in river Ganga. He also assured of achieving the target within the stipulated time frame.

Earlier, the station was conceived based on a short study carried out on hilsa population in the river Ganga funded by NMCG, Ministry of Water Resources, River Development & Ganga Rejuvenation, Government of India. The study indicated that migration failure is the major cause for decline of hilsa population in the upper stretch of river Ganga.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)

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### Trade Marks to ICAR-CIFRI, Barrackpore

ICAR-Central Inland Fisheries Research Institute has successfully registered trademarks of four technologies namely CAGEGROW<sup>®</sup>, CIFRI GI CAGE<sup>®</sup>, CIFRI PEN HDPE<sup>®</sup>, CIFLIN<sup>®</sup> in the name of "Indian Council of Agriculture Research" in the Trade Mark Registry of Government of India, Mumbai.

Trademark No. 3625921 CAGEGROW<sup>®</sup> (Certificate No. 1843046 sealed on 25 April 2018) was published in Trademark Journal No: 1827 in December 2017 and valid up to August 2027. CAGEGROW<sup>®</sup> is registered under the trademark Class 31, as fish feed, Animal feed.

Trademark No. 3852537 CIFRI GI CAGE<sup>®</sup> (Certificate No. 2085292 sealed on 27 January 2019) was published in Trademark Journal No: 1866 and valid up to June, 2028. CIFRI GI CAGE<sup>®</sup> is registered under the trademark Class 22, as Net pens for fish farming; fishing nets.

Trademark No. 3852538 CIFRI PEN HDPE<sup>®</sup> (Certificate No. 2085291 sealed on 27 January 2019) was published in Trademark Journal No: 1866 and valid up to June, 2028. CIFRI PEN HDPE<sup>®</sup> is registered under the trademark Class 22, as Net pens for fish farming; fishing nets.



Trademark no. 3852539 and 3852540 CIFLIN<sup>®</sup> (Certificate No. 2045488 sealed on 8 December 2018 and 2085290 sealed on 27 January 2019) were registered under two classes in trademark Journal No. 1859 and 1866 and valid up to June 2028. CIFLIN<sup>®</sup> is registered under the trademark Class 1, as Chemical used for detecting formaldehyde adulteration of fish and the trademark Class 9, as food analysis apparatus.

CIFRI GI CAGE, CIFRI PEN HDPE and CAGEGROW have been commercialized in the year 2017-18 and 2018-19.

(Source: CAR-Central Inland Fisheries Research Institute, Barrackpore)



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### Joint Efforts towards Re-establishing Hilsa Fishery in River Ganga after Four Decades

ICAR-Central Inland Fisheries Research Institute, Barrackpore in association with Inland Waterways Authority of India (IWAI), Central Water Commission (CWC), National Mission for Clean Ganga (NMCG) and Farakka Barrage Authority (FBA) under the Ministry of Water Resources, River Development and Ganga Rejuvenation are being involved in re-establishing HILSA fishery in the middle stretches of river Ganga viz. at Allahabad, Banaras, Patna, Bhagalpur and Farakka, since 2016.



Hamilton (1822) first recorded the hilsa near Kanpur and Agra in the river Ganga and Yamuna. The species was forming a good fishery in the river Ganga till construction of the Farakka barrage during 1975. Soon after the commission of Farakka barrage, the middle stretches of river Ganga particularly from Farakka to Allahabad experienced a sharp decline in Hilsa catch and reached to almost Zero in the recent years.

During a recent study carried out by ICAR-CIFRI, several recommendations have been brought out and provided to the policy makers and managers of important water stakeholders such as CWC, IWAI, and NMCG for re-establishment of Hilsa fishery in river Ganga. Two important recommendations were (1) Two fish locks provided in the Farakka Barrage should be operated regularly during monsoon months for upstream migration of the species to rejuvenate hilsa fishery in the upstream of Ganga river (2) A bypass channel should be created between the feeder canal and upstream of the Ganga river in the western side of the existing navigational channel to facilitate natural upstream migration of hilsa from the Hooghly-Bhagirathi river.

Realizing the importance of river biodiversity and Hilsa fishery, under the chairmanship of Union Minister of Shipping, Road Transport & Highways, Water resources, River Development and Ganga Rejuvenation, Shri Nitin Gadkari, two high level meetings were held in presence of representatives from IWAI, CWC, FBA and ICAR-CIFRI and it was decided that ICAR-CIFRI would provide scientific knowledge on Hilsa behavior and migration pattern for suitable design of fish passage.

Dr. B. K. Das, Director, ICAR-CIFRI and his team provided all the required biological information on Hilsa for smooth upstream migration in the river Ganga through the navigational lock, which is scheduled to be operated by IWAI in June 2019 announced during recent visit of the Union Minister Shri Nitin Gadkari to the Prayagraj. This new navigational lock facility will support in migration of Hilsa from Hooghly-Bhagirathi River to main channel of river Ganga for the FIRST time.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### Ranching-cum-Mass Awareness Programme organized at Kumbh Mela, Sangam, Allahabad

26<sup>th</sup> February, 2019, Allahabad

The ICAR-Central Inland Fisheries Research Institute organized the Ranching-cum-Mass Awareness Programme at Kumbh Mela, Sangam, Allahabad today.



Shri Prashanna Kumar Patshani, Member of Parliament and Chairperson of Parliamentary Committee on Official Language briefed the mandate of the Namami Gange Project in the contextual facts and circumstances that the river Ganga is facing threat like industrial and sewage effluents, abstraction in flow of water through constructions of dam and barrages, pollutant discharge, damage of basin that is affecting the ecosystem's health and loss of biodiversity. He expressed deep concerns for restoring the availability of indigenous fish in the entire stretch of river Ganga through the technology and policy initiatives.

He also inaugurated the releasing of 15,000 wild stock advance fingerling of the Indian Major Carp at the point of Sangam Nose, Prayagraj. He also appreciated the noble cause of the Mission Namami Gange.

Dr. Praveen, ADG (Inland Fisheries) urged on conducting the ranching programme in the entire stretch of river Ganga.

Earlier, Dr. R.S. Shrivastava, Head, ICAR-CIFRI, Allahabad Centre welcomed the dignitaries. He also underlined the CIFRI's role in conserving and restoring the biodiversity and fish diversity of river Ganga and ensuring the livelihood of the fishers.

Dr. B.K. Das, Director, CIFRI, Barrakpore highlighted the ranching programme's objectives and the target to release one crore wild stock seed during this year.

The Members of the Parliamentary Committee on Official Language, Officials of the State Department of Fisheries; Government of U.P.; Director, NMCG, U.P. Region; representative of NMCG, New Delhi, scientists of ICAR-CIFRI, Allahabad and various other dignitaries were also present during the occasion.

(Source: CAR-Central Inland Fisheries Research Institute, Barrackpore)





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### Training on Sensitisation of Nodal Officers of KVKs

26<sup>th</sup> February - 2019, Guwahati

The ICAR-Agricultural Technology Application Research Institute (ATARI), Zone - VI, Guwahati organized a one-day Training Programme for Sensitizing the Nodal Officers of District AgroMet Units (DAMU) under the Krishi Vigyan Kendras of ATARI Zone - VI, Guwahati at ICAR-CIFRI Regional Centre, Guwahati today.

During the technical sessions, Dr. Sanjay O'Neill Shaw, DDGM, RMC, Guwahati underlined observational system and network's importance for AgroMet Advisory Services (AAS), disseminating the AgroMet Bulletins and their outreach.

Dr. A.K. Tripathi, Director, ICAR-ATARI Zone VI, Guwahati highlighted the ICAR and IMD'S latest initiatives taken for implementing the DAMU in the KVKs under the ATARI Zone VI.

The scientists of ICAR institutes and Assam Agricultural University, Jorhat attended the Training Programme.

(Source: ICAR-Agricultural Technology Application Research Institute, Zone - VI, Guwahati)





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### ICAR-CIFRI celebrates Foundation Day

17<sup>th</sup> March, 2019, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore celebrated its 73<sup>rd</sup> Foundation Day here today. The Institute also organized the "Matsya Samridhi Mela" on the occasion.



The inauguration ceremony of celebrations marked the ranching of 30,000 advanced fingerlings of Indian major carp seeds in the River Ganga by the guests at the Barrackpore Ghat.

The Chief Guest, Dr. Vijayalakshmi Saksena, General President, Indian Science Congress applauded the Director and all staff members of ICAR-CIFRI on the momentous occasion. Dr. Saksena stressed that the ranching efforts are going to pave the way for the improved fish diversity in the river Ganga.

The Guest of Honor, Dr. N. Saha, Vice-Chancellor, Burdwan University applauded the ICAR-CIFRI for organizing Matsya Samridhi Mela on a large scale with the participation of more than 2,500 farmers.

The Guest of Honor, Dr. Ashok Kumar Saksena, Former General President, Indian Science Congress lauded the CIFRI's efforts to create the awareness among the farmers for the second green revolution.

Dr. Subrata Mandal, Chief General Manager, NABARD, Kolkata complimented the CIFRI's efforts and initiatives. He also extended and assured of every possible support by the NABARD for the various programmes.

Shri Navin Nayak, Director, Nehru Yuva Kendra, West Bengal and Andaman & Nicobar Islands briefed about the training of 800 youths by the ICAR-CIFRI in the Year - 2018-19. He said that around 1,000 youths will be sent to the ICAR-CIFRI for the training next year.

Shri Bablu Majumdar, Awardee Fish Farmer shared about his achievement through the help of ICAR-CIFRI. He also briefed that presently, many fishers are getting field training at his farm.

Earlier, in his welcome address, Dr. B.K. Das, Director, CIFRI, Barrackpore lauded the CIFRIans, Progressive fish farmers, fisheries industries, etc., for being the part of the momentous 72 Years journey of ICAR-CIFRI success story. The Director also briefed about the Institute's achievement and continuing efforts towards the second green revolution.

The occasion held Fisheries Exhibition. The stalls depicted encompassing live fish, Hilsa life story, ornamental fish unit, feed companies and fish health units, etc.

The Mela also held Farmers'-Scientists'-Interaction Session, Industry Interface Meet, Women fishers' Session, etc.

Around 2,000 farmers including 100 progressive fish farmers, 300 students of different universities, 200 youths, entrepreneurs, fish traders, fish processors, SHGs, ornamental fish growers and hatchery owners marked their participation in the event.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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### ICAR-CIFT organizes Industry Interface Programme at Kochi

27<sup>th</sup> March, 2019, Cochin

The Zonal Technology Management - Agribusiness Incubation (ZTM-ABI) Centre, ICAR-Central Institute of Fisheries Technology organized an Industry Interface Programme at its campus in Cochin, Kerala today.

The Chief Guest, Shri Alex Ninan, President, Seafood Exporters Association of India (Kerala Region), lauded the ICAR-CIFT's role in Indian fish export since the last 6 decades. Shri Ninan also urged the technological cooperation from the other research organizations for the holistic development of the sector.



The Guest of Honor, Shri Abraham J. Tharakan, Chairman, Amalgam Group of Companies urged the entrepreneurs to get benefited from the commercial technologies evolved by the ICAR's various fisheries research institutes.

Earlier in his welcome address, Dr. Ravishanker C.N., Director, ICAR-CIFT emphasized on the importance of organizing the Industry Interface Programme that can prove to be helpful as a conduit for establishing positive relationship between the public and the private organizations.

The inaugural meeting also witnessed the exchange of agreements in connection with the two technology transfer assignments and one contract research project undertaken by ICAR-CIFT.

The In-Charge (ITMU) of 8 Fisheries Research Institutions under the ICAR namely, ICAR-CIFE, Mumbai; ICAR-CIFA, Bhubaneswar; ICAR-CMFRI, Cochin; ICAR-NBFGR, Lucknow; ICAR-CIBA, Chennai; ICAR-CIFRI, Barrackpore; ICAR-DCFR, Bhimtal including ICAR-CIFT, Cochin participated in the programme.

The programme was organized as a part of the business promotion drive designed for the fisheries sector for promoting the entrepreneurs with the help of latest R&D facilities and vast knowledge available with ICAR.

Around 70 participants representing fisheries industry, processors, exporters, brackishwater / freshwater aquaculture / fish farmers, ornamental fish breeders, cage-culturists, startups, entrepreneurs, private investors and Government agencies, etc., participated in the programme.

(Source: ICAR-Central Institute of Fisheries Technology, Cochin)





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### Brainstorming Session organized at ICAR-CIFRI, Barrackpore

2<sup>nd</sup> May, 2019, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore organized a Brainstorming Session on "Social implication and fisheries of Ganga river basin with special reference to Hilsa" at its campus today.

The Chief Guest, Dr. B.K. Das, Director and Principal Investigator, National Mission for Clean Ganga (NMCG) highlighted the salient achievements on Hilsa fisheries improvement programme in the middle stretch of the river Ganga and the project activities on biodiversity and ecology of river Ganga under NMCG. He also underlined the impact of recent ranching programme of Hilsa in the river Ganga at above Farraka barrage location, which was recaptured at Sultaganj, Jharkhand, 78 km upstream of the barrage.



Dr. A.K. Saxena, Former General President, Indian Science Congress Association & Former Dean, CSJM applauded the ICAR-CIFRI for the research activities on Hilsa Fisheries and biodiversity in the river Ganga under the NMCG programme.

During the discussion, the following important points were brought out:

- To expand the Ban period of Hilsa to 120 days from the existing 60 days
- The river and estuaries mouth siltation, river poisoning, reduction of river flows due to barrages and erratic rainfall are among the major concerns that are responsible for decline in the Hilsa population in river Ganga.
- The proposal to create the Hilsa Sanctuary and PPP approach for Hilsa Fisheries management in the river Ganga.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### Awareness Programme on Hilsa Fisheries Improvement organized

17<sup>th</sup> to 23<sup>rd</sup> May, 2019, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore under the National Mission for Clean Ganga (NMG) Programme organized an Awareness Programme on "Hilsa conservation and improvement" from 17<sup>th</sup> to 23<sup>rd</sup> May, 2019.

The programme was organized for more than 1000 fishermen of Ballia (Uttar Pradesh), Buxar, Patna and Bhagalpur (Bihar), Sahebganj (Jharkhand) and Malda (West Bengal) in the middle stretch of river Ganga.

The awareness programmes were organized in the middle stretch of the river Ganga from Farakka (West Bengal) to Ballia (Uttar Pradesh) during April to May, 2019 under the leadership of Dr. B.K. Das, Director, ICAR-CIFRI.



During the programme, the fishermen dependent on riverine fish catch and fish traders shared their experience on fish catch particularly on Hilsa in the river and in market since the last three to four decades. While, the ICAR-CIFRI shared the past and present research activities on Hilsa, especially on the availability of Hilsa during 1970s, the conservational measures of Hilsa and ranching programme activities being carried out in the river Ganga above the Farakka barrage.

The fishermen from Ballia, Patna, Bhagalpur and Sahebganj reported that since the last three decades, they were unable to catch the Hilsa but were surprised to catch Hilsa of 150g to 200g with very less number (one or two) during January and first week of May, 2019.

The early findings and reports from the fishermen and fish traders have opened up for detailed investigation and underlined for more awareness programmes to be carried out in the middle stretches of the river Ganga for the Hilsa population re-establishment.

Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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### Regional Consultation on "Open water fisheries development in NE region"

29<sup>th</sup> May 2017, Guwahati

ICAR- Central Inland Fisheries Research Institute, Barrackpore organized a Regional Consultation on "Open water fisheries development in NE region" here today.

Sjt. Parimal Suklabaidya, Minister Fisheries, Government of Assa, in his inaugural address, stressed on the need for making the NE region self-sufficient in fish production by utilizing all available fisheries resources. He urged all the state fisheries departments of the region to work unitedly with the common goal of achieving self-sufficiency in fish production through concerted efforts of all R&D agencies. He also highlighted the recent initiatives of the Government of Assam to bring about blue revolution in the state through the 'Ponds for all – fish for all' scheme launched by Govt. of Assam.

Prof. K. K. Saharia, GB Member of ICAR and Dr. J. Chauhan, National Convener for Extension Education, Ministry of Agriculture and Farmer's Welfare, Govt. of India commended the effort of the Institute and expressed the hope that the exercise will help in developing the fisheries sector of the region.

Dr. B. K. Das, Director, ICAR-CIFRI emphasized on the need for developing open water fisheries in the region and assured providing research support to the state fisheries department. He also stressed on the need to prepare an effective roadmap for developing openwater fisheries of the region through stakeholder consultation.

The Directors of Fisheries, Govt. of Assam, Mizoram and Manipur also addressed the gathering and thanked ICAR-CIFRI for initiating the exercise.

The delegates provided inputs and suggestions regarding state-specific roadmaps.

(Source: ICAR- Central Inland Fisheries Research Institute, Barrackpore)





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### Study on the impact of cyclone Fani on Fisheries of Odisha

5-11 June 2019, Odisha

The extremely severe cyclonic storm Fani in the Bay of Bengal had landfall on Puri district in Odisha coast on 3<sup>rd</sup> May 2019 with the wind speed of around 200 km per hour, resulting in considerable damage in 4 districts viz., Puri, Cuttack, Kendrapara and Jagatsinghpur. A team of Scientists from ICAR-Central Inland Fisheries Research Institute, Barrackpore assessed the damages, focusing on the fishery sector in the affected areas of Odisha. The team comprised of Scientists from different disciplines including Aquaculture, Fishery Resource Management, Agricultural Chemicals, Agricultural Economics, and Agricultural Extension. The study started with a field assessment of the damage done by the storm Fani.



To understand the impact of Fani in the Inland open waters, including fisheries and fishermen, rivers and estuarine (Mahanadi) and lagoon (Chilika) ecosystems were selected. The assessment was made analyzing all the biotic and abiotic parameters and comparing them with those of 2016. The preliminary analysis did not find any significant differences in the fish catch. It has also been recorded that the water quality aspects of the lagoon Chilika and rivers Mahanadi, Kathajodi-Devi have reached to their normalcy and are productive as usual to contribute in the production process. No major abnormalities were recorded in the fish catch composition and catch per unit effort, etc.

The team also visited around 15 fishermen villages of Mahanadi estuary in Jagatsinghpur district and different sectors of Chilika lagoon and Puri proper in Puri district. The team recorded that in Puri district extensive and severe damages have occurred to kutcha houses, fishing boats, nets, household articles of the fishers. Close to 90% of the fishing boats and nets have been severely damaged in the Satapada area of the Chilika outer channel. The kutcha houses were almost completely damaged and semi-pucca houses lost their roofs along the track of the storm. The household items and stored agricultural produce were also badly damaged. The residents are still continuing to struggle for basic needs like food, water and power in the worst-hit areas. Besides fisheries, the agricultural, horticultural crops like mango, cashew and plantation crops like coconuts were also hard hit. The cyclone has also damaged the agricultural land in the coastal areas. According to the state government's preliminary assessment, more than 30 per cent crop has been damaged in Odisha due to the cyclone. More than 1,00,000 hectares of agricultural land was badly affected in 14 districts of the state.

The damage has been massive and therefore, time is required to bring back normalcy, particularly in Puri district. However, due to the excellent efforts of the Government, including advance warning, aggressive announcement and evacuation it was possible to lessen the impact on fishermen assets. In the villages of Jagatsinghpur district the damage was relatively much less due to reduced intensity of the storm. The team observed that the Government is doing a great job in providing timely relief. The fishermen families were given rice, cash, solar light and polythene sheets in severely affected areas. Moreover, house building assistance as per relief code will also be provided, as reported.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### ICAR-CIFRI, Barrackpore organizes Mass Awareness Programme

7<sup>th</sup> June, 2019, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore organized a mass awareness programme for the reclamation of the "Keshapura-Paikasida" oxbow lake in Keshapura village of Jaleswar, Balasore, Odisha today.



Dr. B.K. Das, Director, ICAR-CIFRI stated about the work of ICAR-CIFRI on wetland management in many states namely West Bengal, Assam, Uttar Pradesh and Bihar. Dr. Das accentuated about the *in situ* rearing of fish seed in the pen culture system in the wetland that is capable to reduce the cost of fish seed. He sensitized the fishers on the community-based approach of fisheries development in the wetland.

Shri Dixit, Co-operative Inspector, Balasore, Department of Fisheries, Government of Odisha also marked his presence during the meeting. He emphasized on the whole hearted support of the community for the development of the wetland. He urged the Institute to sensitize and mobilize the fishers for realizing the freshwater lake for fishery enhancement by the community participation with the involvement of the Department of Fisheries, Government of Odisha through the PFCS.

Shri Atul Das, President and P.C. Nayak, Secretary, Trinath Primary Fisheries Cooperative Society of "Keshapura-Paikasida" wetland along with 300 villagers attended the mass awareness programme.

A Scientists'-Fishers'-Interaction was also organized during the occasion.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### ICAR-CIFRI organizes Mid-Term Review Meeting of ICAR-Regional Committee - II

12<sup>th</sup> June, 2019, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore organized the "Mid-Term Review Meeting of ICAR Regional Committee-II" (West Bengal, Odisha, Andhra Pradesh, Telangana and UT of Andaman and Nicobar Islands) at its campus today.



The Chief Guest, Dr. Joykrushna Jena, DDG (Fisheries Science & Animal Science), ICAR, New Delhi regarded the meeting as an excellent platform of ICAR for reaching out to the various states to solve their agricultural problems through the innovative technology and tools. Dr. Jena highlighted the importance and contribution of this region in the country's food grain production and animal and fishery resources.

He stressed upon the centre-state coordination's importance for the effective technology transfer. Dr. Jena opined to properly plan the agricultural system with the integration of animal husbandry, dairy and fisheries in order to fulfill the target to double-up the farmers' income.

Earlier, Dr. B.K. Das, Director, ICAR-CIFRI and Member Secretary welcomed the dignitaries and delegates. Dr. Das provided an overview of the region. He stated that the states of the region are the major producers of a number of crops like rice, potato, tobacco, jute, poultry, fishes, oil-palm, vegetables and flowers.

The main aim of the meeting was to discuss the progress of action taken reports and recommendations made in the 23<sup>rd</sup> and 24<sup>th</sup> Meetings of the Regional Committee that was held at The ICAR-National Academy of Agricultural Research Management (NAARM), Hyderabad and Institute of Management on Agricultural Extension, Bhubaneswar, respectively.

The Action Taken Reports of the 23<sup>rd</sup> Meeting were reviewed during the meeting followed by assessment of the progress of Action Taken Reports of the 24<sup>th</sup> Meeting.

Around 60 participants from the ICAR Institutes, State Agricultural Universities and State Agriculture/Animal Husbandry/Horticulture/Fisheries Departments of the States/UTs including Vice-Chancellors of BCKV, ANGRAU and 7 Directors of ICAR Institutes and ADG (TC)-ICAR participated in the review meeting.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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### ICAR CIFRI organizes Fish Harvest Mela

14<sup>th</sup> to 15<sup>th</sup> June, 2019, Bihar

The ICAR Central Inland Fisheries Research Institute, Barrackpore, Kolkata organised two-days "Fish Harvest Mela" at Karais and Sirsa Maun (Freshwater Wetlands) of Purvi Champaran District of Bihar from 14<sup>th</sup> to 15<sup>th</sup> June, 2019.



Shri Radha Mohan Singh, former Union Minister of Agriculture & Farmer's Welfare and Member of Parliament (Lok Sabha), Purvi Champaran inaugurated the Mela. Shri Singh stated that 800 to 900 fisher's families of five Wetlands of Purvi Champaran District have been benefitted by the on going NFDB Funded Programme by doubling their income through the scientific interventions made by the ICAR CIFRI.

Dr. B.K. Das, Director, ICAR CIFRI outlined the ICAR CIFRI's technological interventions of culture-based fisheries. Dr. Das stated about the management interventions made for getting the double-triple fish yield, viz., 180 kg/ha/yr to approximately 575 kg/ha/yr in Karais Maun; 140 kg/ha/yr to 320 kg/ha/yr in Sirsa Maun; 70 kg/ha/yr to 140 kg/ha/yr in Rulhi Maun and 60 kg/ha/yr to 120 kg/ha/yr in Majharla Maun.

Dr. Das underlined that the ICAR-CIFRI's technological intervention in the optimum exploitation of the under-exploited wetlands of Bihar with regard to the fish yield has been successfully demonstrated by the programme titled "Wetland Fisheries Development Projects of Bihar" under the Central Sector Scheme (CSS) - Blue Revolution.

The technological intervention has received a favourable response from the local fishers as it has not only helped to eradicate the unemployment, but has also shown positive results in reversing the youth migration in search of jobs.

The programme registered a total participation by more than 250 fishers.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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### Capacity Building of Tribal Women Self Help Groups of Mayurbhanj, Odisha on Inland Fisheries Management

28<sup>th</sup> June to 2<sup>nd</sup> July, 2019, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore organized a five-day Capacity Building Course-Sensitization Programme on "Ward Fisheries Management" at its campus from 28<sup>th</sup> June to 2<sup>nd</sup> July, 2019.

The main objective of the programme organized for the Women Self Help Groups (SHGs) of Mayurbhanj District, Odisha was to up-scale the rural tribal women's knowledge, skill and attitude towards the inland fisheries management to improve their livelihood.

The Capacity Building Programme was inaugurated by Dr. B. K. Das, Director, ICAR-CIFRI on 28<sup>th</sup> June, 2019. Dr. Das emphasized on the importance of skill development of the fishers and farmers on the various aspects of inland fisheries management to secure their life and livelihood. He stated that the programme has been targeted for strengthening the practical skill of the farmers to enhance the fish production in the open waters viz., reservoirs, canals, community tanks, etc.



The Government of Odisha is also working with the aim and mission to empower the rural women through the Self Help Groups under the Mission "Shakti". The World Fish Centre has assigned the development of the GP Tanks through scientific aquaculture. With an aim to support and enhance the livelihood, improvement of the weaker section of the society, the ICAR-CIFRI has joined hands with the Government of Odisha for building the capacity of the rural women in the inland fisheries management.



A total of 31 fishers including 25 fisher women of 12 Self Help Groups participated in the training programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### Successful demonstration of *Etropolis suratensis* in climate resilient pen culture system at Muhamma, Kerala backwaters

23<sup>rd</sup> September, 2019, Muhamma, Alappuzha

ICAR-Central Inland Fisheries Research Institute, Barrackpore successfully organized the harvesting of *Etropolis suratensis* (Pearl spot) in climate resilient CIFRI HDPE pens at Muhamma, Alappuzha today.



Two experimental pens of 100 sq.m in size was stocked with Pearl spot and Black clam (*Villorita cyprinoides*) in a multi-trophic system with Pearl spot occupying the water column and black clam, the bottom surface.

The pearl spot seeds purchased from Azhikode Government Hatchery and the clam seeds collected from Thycattussery region was stocked in these pens and cultured for four months. Each pen was stocked with 1500 fish seeds of 4 cm size and baby clams of 1.7cm total length and 3.2g total weight. The fishes were reared with regular feed supplies and managed with appropriate pen management measures such as cleaning of net meshes regularly. Overall the pens were stocked with 6kg of Pearl spot and 500kg of black clam.

The fishes attained a growth rate of 89.95% per month during the culture period, whereas the black clam recorded a growth rate of 98.33% per month indicating the success of a multi-trophic pen system in open waters. A total of 160 Kg of fishes were harvested and sold at an average price of Rs. 300/kg. The black clam was not harvested as it required another four months to obtain harvestable size of 40g total weight and during which another culture of *E. suratensis* may be carried out in these pens.

The study indicated that pen culture of pearl spot and black clam could withstand the adverse impact of devastating flood during August-September 2019. The demonstration showed that multi-trophic pen culture of Black clam and *E. suratensis* indicated a better growth of both the species in comparison to monoculture of both the species overcoming two episodes of flood in the region.

These climate resilient technologies and adaptation strategies will not only help to cope up with adverse impact of climatic variability but also helps increasing the production for sustainable livelihood and nutritional security to rural populace.

This work was carried out by a team led by Dr. B. K. Das, Director, ICAR-CIFRI and Dr. U.K. Sarkar, Principal Investigator (NICRA).

The meeting was presided over by Kochuthresia James, Block Ward Member who inaugurated the fish sales from Muhamma pens. The programme was attended by fifty fisherwomen and members of Vembanad Kayal Samarakshana Samithi.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)




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### ICAR-CIFRI tags Hilsa Broodfishes

The ICAR-Central Inland Fisheries Research Institute, Barrackpore has ranched 586 of Hilsa Broodfish in the upstream of Farakka barrage for improving the Hilsa Fisheries in the middle stretches of the River Ganga. The initiative was carried out under the National Mission for Clean Ganga (NMCG), Ministry of Jal Shakti, Government of India during the month of September to October, 2019.

During the process, a total of 372 fishes out of 586 Hilsa were tagged with a size range 223mm to 345 mm with Floy T-bar Anchor Tags of standard size with serial numbers printed. The tagged fishes were observed and showed fully active during the release indicating the suitability of the tags used.



The main objective of the tagging is to understand the current migration pattern of Hilsa Broodfish in the middle stretches of the River Ganga, particularly, from the Farakka to the Prayagraj (Allahabad) and above, under the background of current non-functional of Fish pass existing in the Farakka barrage.

Simultaneously, the ICAR-CIFRI team created the awareness among the fishermen on the reporting of tagged Hilsa and Hilsa conservation from Farakka to Prayagraj, all along the River Ganga namely Sultanganj, Rajmahal, Bhagalpur, Patna, Buxar, Ballia, Varanasi, and Prayagraj covering the states of West Bengal, Jharkhand, Bihar, and Uttar Pradesh. The fishermen were distributed the information on *Hilsa Life Story* and Leaflets on *Hilsa Conservation for future* in Hindi and Bengali for better understanding on the work activities. The team is carrying out the detailed activities under the guidance of Dr. B.K. Das, Director, ICAR-CIFRI.



During the Year - 1962, the ICAR-CIFRI conducted the Hilsa tagging for the first time at Allahabad, Varanasi and Buxar with an objective on understanding the migratory behavior of the Hilsa.

Further, the recent studies recorded that the Hilsa congregation in large number below the barrage and forming a good fishery ground. Therefore, the ranching and tagging of Hilsa Broodfish would support the current understanding on the Hilsa migration pattern after the Year - 1975. Accordingly, the policy decision could be taken to see the possibility of re-establishing/designing of fish passes or exploring other possibilities for upstream migration ensuring Hilsa fisheries improvement in the middle stretches of the River Ganga.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



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## Workshop on "Management of Wetland Fisheries of Bihar"

20<sup>th</sup> November, 2019, Patna

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata in collaboration with the Bihar Animal Science University, Patna organized a one-day "Workshop-cum-Training Programme" at the Bihar Veterinary College, Patna today.



The Chief Guest, Dr. Prem Kumar, Minister of Agriculture, Animal and Fisheries Resources, Government of Bihar emphasized on the productivity of 200 and 50 Kg/Ha/Year in Bihar's 9,000 ha Maun and 2,00,000 ha of Chaur Water Resources. The Minister stated about the enormous possibilities of increasing it by almost three times. He stressed that ICAR-CIFRI under Wetland Development Programme in 5 Mauns of East Champaran District has visibly shown it to the stakeholder.

Dr. Kumar highlighted that the Fish yield increase from 180 Kg/Ha/Yr to 675 Kg/Ha/Yr in Kararia Maun; 190 Kg/Ha/Yr to 320 Kg/Ha/Yr in Sirsa Maun; 70 Kg/Ha/Yr to 140 Kg/Ha/Yr in Rulhi Maun and 60 Kg/Ha/Yr to 120 Kg/Ha/Yr in Majharia Maun has proved that through the technological intervention, the wetland's production and productivity can be enhanced.

Smt. N. Vijayalakshmi, I.A.S., Principal Secretary, Animal and Fisheries Resources, Government of Bihar stressed on the replication of ICAR-CIFRI's model of Wetland Fisheries Development in other Districts of Bihar. She also outlined the various programmes run by the Fisheries Department of Bihar for the fishers' benefits.

Dr. Rameshwar Singh, Vice-Chancellor, Bihar Animal Science University (BASU), Patna highlighted about the signing of MoU between BASU, Patna and ICAR-CIFRI, Barrackpore for collaboration in the various facets of inland fisheries research and development. He stressed that the fish production in Bihar can be enhanced with the adoption of technologies. This will also reduce the dependence of import of fishes from the other states.

Shri Nishad Ahmad, Joint Director, Department of Fisheries, urged the project beneficiaries for continuing to practice the culture-based fisheries after the Project's completion.

Dr. B.K. Das, Director, ICAR-CIFRI outlined the workshop's objective and the importance of Wetland Fisheries Management in Bihar. He emphasized on the increase in productivity of the wetlands of East Champaran District of Bihar by 2 to 3 times through the ICAR-CIFRI's technological interventions. He mentioned that the production of Kararia Maun has increased from 18 tons to 57 tons.

The Senior Officials of ICAR-CIFRI and other Government Departments participated in the workshop.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Innovative Training Programme on Contract Farming and Linkages of FPOs / FPCs to Market

28<sup>th</sup> November - 1<sup>st</sup> December, 2019, Barrackpore, Kolkata

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized an *Innovative four-day Training Programme on "Contract Farming and Linkages of Farmers in Farmer Producer Organizations / Farmer Producer Companies to Market"* from 28<sup>th</sup> November to 1<sup>st</sup> December, 2019.

The Chief Guest, Shri Subrata Mandal, Chief General Manager, National Bank for Agriculture and Rural Development (NABARD), Kolkata had an inclusive interaction with the trainees on improving their efforts in effective marketing of their produce. He also sensitized them about the contract farming and establishing the active linkage with ICAR-CIFRI and NABARD for the holistic development of the culture-based fisheries management system in their FPOs and FPCs.



Dr. B.K. Das, Director, ICAR-CIFRI was the Course Director of the programme.

The programme was sponsored by the Chaudhary Charan Singh - National Institute of Agricultural Marketing (CCS - NIAM), Jaipur.

The main objective of the programme was to integrate the fishers with bulk purchasers including exporters, industries in fisheries and allied sectors, traders and entrepreneurs for better price realization through mitigation of market and price risk.

The Training Programme was organized for 39 trainees (36 men and 3 women), the members of various FPOs / FPCs involved in the different capacities in culture-based fisheries activities in the inland open waters along with the integrated farming systems in the Districts of Nadia, Purba Medinipur, Burdwan and Murshidabad of West Bengal.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### New Fish Species *Barilius torsai* (Teleostei: Cypriniformes: Cyprinidae) identified by ICAR-CIFRI

ICAR-Central Inland Fisheries Research Institute, Barrackpore identified a new freshwater fish species *Barilius torsai* (Teleostei: Cypriniformes: Cyprinidae), from Torsa River, Brahmaputra drainage (DOI: <https://doi.org/10.11609/jott.4746.11.14.14808-14815>).

*Barilius torsai* is distinguished from all its congeners by the presence of a complete lateral line with 52-53 scales, 29 pre-dorsal scales, pectoral fin notched, two well-developed pairs of barbels (rostral and maxillary), length of rostral barbel slightly larger than maxillary, which reaches the orbit. Tubercles on snout and lower jaw absent, 9-11 blue vertical bars along the body, dorsal fin hyaline with dark pigment concentrated along lower two-third of the dorsal-fin rays.



These fishes are highly relished as food and fetches maximum market price (Rs. 400-600/kg) in the Dooars region of West Bengal. Many of the *Barilius* species is having ornamental value and being exported from India.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)





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### Trade Marks to ICAR-CIFRI, Barrackpore

ICAR-Central Inland Fisheries Research Institute has successfully registered trademarks of four technologies namely CAGEGROW<sup>®</sup>, CIFRI GI CAGE<sup>®</sup>, CIFRI PEN HDPE<sup>®</sup>, CIFLIN<sup>®</sup> in the name of "Indian Council of Agriculture Research" in the Trade Mark Registry of Government of India, Mumbai.

Trademark No. 3625921 CAGEGROW<sup>®</sup> (Certificate No. 1843046 sealed on 25 April 2018) was published in Trademark Journal No: 1827 in December 2017 and valid up to August 2027. CAGEGROW<sup>®</sup> is registered under the trademark Class 31, as fish feed, Animal feed.

Trademark No. 3852537 CIFRI GI CAGE<sup>®</sup> (Certificate No. 2085292 sealed on 27 January 2019) was published in Trademark Journal No: 1866 and valid up to June, 2028. CIFRI GI CAGE<sup>®</sup> is registered under the trademark Class 22, as Net pens for fish farming; fishing nets.

Trademark No. 3852538 CIFRI PEN HDPE<sup>®</sup> (Certificate No. 2085291 sealed on 27 January 2019) was published in Trademark Journal No: 1866 and valid up to June, 2028. CIFRI PEN HDPE<sup>®</sup> is registered under the trademark Class 22, as Net pens for fish farming; fishing nets.



Trademark no. 3852539 and 3852540 CIFLIN<sup>®</sup> (Certificate No. 2045488 sealed on 8 December 2018 and 2085290 sealed on 27 January 2019) were registered under two classes in trademark Journal No. 1859 and 1866 and valid up to June 2028. CIFLIN<sup>®</sup> is registered under the trademark Class 1, as Chemical used for detecting formaldehyde adulteration of fish and the trademark Class 9, as food analysis apparatus.

CIFRI GI CAGE, CIFRI PEN HDPE and CAGEGROW have been commercialized in the year 2017-18 and 2018-19.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore)



The image features three concentric squares. The outermost square is a light sage green, the middle square is a medium sage green, and the innermost square is a darker sage green. The text 'Year 2020' is centered within the innermost square in a white, bold, sans-serif font.

**Year  
2020**






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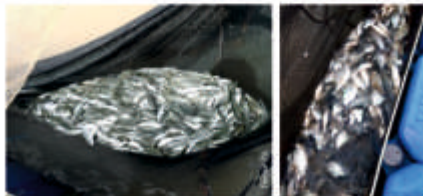

### ICAR-CIFRI successfully harvests high value fish species from cage culture in reservoirs of Odisha and Jharkhand

Owing to immediate need for diversification for increased adaptability and profitability of cage culture, ICAR-CIFRI has studied feasibility of several commercially important indigenous fish species and developed their production technology in ICAR-CIFRI model cages installed in reservoirs.



Successful demonstration and harvest of high value butter catfish, *Ompok bimaculatus* commonly known as patda and minor carp *Labeo patda* locally known as patda was successfully cultured to market size in cages at Mathon reservoir, Jharkhand. Stunted fingerlings of *O. bimaculatus* ( $8.05 \pm 1.56$ ) were cultured in varying stocking densities (15 to 35 Nos./m<sup>2</sup>) in cages (4m x 4m x 2m). Average size of 50-62g was achieved with more than 80% survival in seven months of culture period. Total 150kg of fishes were harvested.

*Labeo patda* ( $6.18 \pm 1.52$ g) was cultured in varying densities (50 to 100 Nos./m<sup>2</sup>) in cages (5m x 5m x 3m). After 6 months of culture period average weight of 45-52g with survival of more than 85% was achieved and a total 430kg fish was harvested.



Similarly high value, medium carp, *Puntius sarana*, a herbivore fish commonly known as puthi was undertaken in cages in four cages (6m x 4m x 4m) at Saha Dam, Ganjam district, Odisha. Advance fingerlings (25 x 3.6g) were stocked at the rate of 10 Nos./m<sup>2</sup>. After 3 months of culture period average weight of 150g and survival rate of more than 90% was achieved. Total 460 kg of fishes were harvested. Cages were devoid of biofouling organisms due to scavenging nature of the fish. Incorporation of *sarana* with other fish species like *pengasius* can enhance production efficiency besides controlling biofouling organisms. Owing to high market demand *P. sarana* can be a candidate fish species for diversification for cage culture in Eastern Indian reservoirs.

Diversification of cage culture with high value species will not only increase adaptability and profitability of cage culture it will also pave way for doubling farmers income through enclosure technology in reservoirs and wetlands of India.



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### ICAR-CIFRI conducts ranching programme on 71st Republic Day with Vivekananda State Police Academy, West Bengal

28<sup>th</sup> January, 2020, Barrackpore, Kolkata

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata celebrated the 71<sup>st</sup> Republic Day marked by a ranching programme by releasing 50,000 of fingerlings of Indian Major Craps in the River Ganga at Gandhi Ghat, Barrackpore.

Briefing about the ongoing degrading situation of the holy river, the Guest of Honor, Shri Deepankar Bhattacharya, I.P.S., DIG, Vivekananda State Police Academy urged the local people for initiating an active coordination to make the Ganga clean.

Dr. B.K. Das, Director, ICAR-CIFRI and Principal

Investigator, ICAR-CIFRI-NMCG Project highlighted the present project activities and need of ranching in the river Ganga.

The fingerlings were produced by artificial breeding of Gangetic carp brooders.

The fishermen and other stakeholders were distributed the awareness materials in Hindi, Bangla and English.

The ICAR-CIFRI ranched more than 22 lakhs of fish seed in the different depleted stretches of river Ganga covering four states.

The main objective of the programme was to sustain and conserve the biodiversity in the river under the Namami Gange Programme.

More than 150 senior officials from VSPA, NMCG project staffs and ICAR-CIFRI members were present during the river ranching programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### SC Community of remote Sundarbans empowered for Ornamental Fish Culture

7 - 8 February, 2020, West Bengal

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized the capacity building and knowledge strengthening through hands-on-training to the SC communities of remote islands of Sundarbans under Schedule Caste Sub Plan Programme on "Ornamental Fish Culture" practices at Amtoli and Kachukhali in remote Sundarbans, West Bengal from 7<sup>th</sup> to 8<sup>th</sup> February, 2020.



In his inaugural address, Dr. B.K. Das, Director, ICAR-CIFRI urged the fishers to come forward for adopting the noble activities that will empower them in earning additional livelihood and also make them stress free in their day-to-day lives.

Around 70 beneficiaries in two remote islands were distributed the Ornamental Fish Culture accessories like - FRP tanks, pumps, aerators, nets, cover nets, chemicals, aerator stones including fish seeds and feeds. They were also imparted with the live demonstration, hands-on-training in their homestead ground to utilize the accessories and the ways to overcome untoward situations with respect to water quality deterioration or stocked fish health, if any.

A total of 100 fishers, mostly, women fishers actively participated in the programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### Winter School on "Advances in Management of Inland Open-water Ecosystem Health" concludes at ICAR-CIFRI

10<sup>th</sup> February, 2020, Barrackpore, Kolkata

The ICAR-sponsored Winter School on "Advances in Management of Inland Open-water Ecosystem Health" organized at the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata from 21<sup>st</sup> January to 10<sup>th</sup> February, 2020 concluded today.



The Chief Guest of the valedictory ceremony, Dr. B.C. Mal, Vice-Chancellor, JIS University, Kolkata emphasized that at present, the fish production of the country is 13 Million Metric Tons and in his budget speech, the Finance Minister raised the target of 20 Million Metric Tons fish production by 2023-24. He told the participants to use the new technologies learned in the winter school in capacity building of farmers and students.

Dr. Mal also felicitated participants with the certificates.

Dr. B.K. Das, Director, ICAR-CIFRI stressed on the need of more collaboration between the ICAR Institutes and Universities for advance research in inland fisheries. He urged the participants for using the technology at their respective Institutions. He hoped that the new technology applications like GIS and remote sensing, proteomics, etc., will help the participants in the long run.

During the winter school, the participants were trained through laboratory demonstration and hands-on-training on modern analytical tools like 1-and 2-D electrophoresis, 1-and 2-D immunoblotting, PCR and associated techniques, microbial techniques, etc.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)




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### International Conference on "Ecosystem Health and Fisheries of Indian Inland Waters: Multiple Stressors, Management and Conservation" inaugurated

17<sup>th</sup> February, 2020, Pantnagar, Uttarakhand

Dr. Joykrishna Jena, Deputy Director General (Fisheries Science) ICAR inaugurated the International Conference on "Ecosystem Health and Fisheries of Indian Inland Waters: Multiple Stressors, Management and Conservation" organized by the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata at Govind Ballabh Pant University of Agriculture & Technology (GBPUA&T), Pantnagar, Uttarakhand today.



The conference is being jointly organized by the Inland Fisheries Society of India (IFSI), Barrackpore; ICAR-CIFRI, Barrackpore; College of Fisheries, GBPUA&T, Pantnagar; Aquatic Ecosystem Health & Management Society (AEHMS), Canada and Professional Fisheries Graduate Forum (PPGF), Mumbai from 17<sup>th</sup> to 19<sup>th</sup> February, 2020.

Dr. Jena emphasized on the importance of fisheries sector in Indian agricultural and rural economy. He highlighted about more than 55% contribution of inland fisheries and aquaculture in the fisheries basket of the country. He expressed his concerns over the stressed condition of the aquatic ecosystems, their biotic communities and fisheries due to the increasing water maneuvering, pollution, erratic rainfall and global warming, over-exploitation of aquatic resources and over-fishing. Dr. Jena stressed on the need for the proper management and conservation efforts restoring the ecosystem health of rivers and other open water bodies.

The Guest of Honor, Dr. Gopal Krishna, Director & Vice-Chancellor, ICAR-CIFE, Mumbai highlighted the importance of open water fisheries of the country. He hoped that the conference will bring out the recommendations to restore the ecosystem health of the inland open water resources.

Dr. Tej Pratap, Vice-Chancellor, GBPUA&T, Pantnagar hoped that the conference will provide an interdisciplinary forum for interaction among the experts, researchers, consultants, students and other stakeholders for exchanging the ideas, sharing information, building common platforms.

Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore briefed about the inland fisheries' status in the country. He outlined about the important ecosystem health topics, such as, climate change, invasive species, connectivity, wetlands, biodiversity and all aspects of aquatic pollution, restoration and management, etc., in India that will be dealt with during the conference.

Dr. M. Munewar, President, AEHMS, Canada accentuated on the importance of ecosystem health and its conservation. He regarded the management and conservation as important factors for maintaining the health and fisheries of rivers and other open water bodies.

The dignitaries also released the Conference Souvenir and Book of Abstracts along with Two Booklets namely - "Invasive species of River Ganga" and "In-situ conservation of wild Indian Major Carp germplasm of river Ganga" during the occasion.

More than 200 researchers, academicians including scientists from Canada and Bangladesh along with 150 farmers of Uttarakhand, Uttar Pradesh and West Bengal participated in the conference.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Programme on "Development and Management of Pen and Cage culture in Tripura" for Tribal Fishers of Tripura organized

25 - 29 February, 2020, Tripura

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized the Capacity Building Programme on "Development and Management of Pen and Cage culture in Tripura" for the fish farmers of Dumbur reservoir of Tripura from 25<sup>th</sup> to 29<sup>th</sup> February, 2020. The programme was sponsored by the Department of Fisheries, Government of Tripura.



In his inaugural address, Dr. B.K. Das, Director, ICAR-CIFRI stressed on the urgent need of doubling the fishers' income by 2022 on the line with the call Hon'ble Prime Minister for doubling farmers' income. Dr. Das emphasized that with the adoption of the two ICAR-CIFRI's technologies namely - Pen Culture and Cage Culture in the reservoir will double the fish production and help in augmenting the fishers' income. He urged the fishers of Tripura for sharing the knowledge with the other fishers of Dumbur Lake as well as the District.

During the occasion, the tribal fishers were trained on the different aspects of cage and pen culture technologies namely - design and construction of pen and cage, environmental consideration for sustainable enclosure culture, feed and feeding management in cage and pen culture, species selection, seed and table fish production in cage and pen. The participants were also exposed to the re-circulatory aquaculture system and ornamental fish hatchery unit of the Institute.

The ICAR-CIFRI commercialized and licensed two technologies namely - "ICAR-CIFRI GI Cage" structure and "ICAR-CIFRI Pen HDPE" in the Year - 2017.

A total of 42 tribal fishers (38 men and 4 women, belonging to Chakma and Tripura Tribes) and 2 Fisheries Officials of Dhalai District of Tripura participated in the programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### ICAR-CIFRI celebrates 74th Foundation Day

17<sup>th</sup> March, 2020, Barrackpore, Kolkata

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata celebrated its 74<sup>th</sup> Foundation Day today.



The Chief Guest, Dr. (Smt.) Vijayalakshmi Saxena, General President, Indian Science Congress urged everyone to be a part of the 108<sup>th</sup> Indian Science Congress to be held at Pune from 3<sup>rd</sup> to 7<sup>th</sup> January, 2021. She stressed that ranching efforts will pave the way for improved fish diversity in river Ganga.

The Guest of Honor, Dr. Ashok Kumar Saxena, Former President, Indian Science Congress Association applauded the scientists for creating awareness among the farmers for Second Green Revolution and doubling the farmers' income through enhancing the fish production.

Earlier, in his welcome address, Dr. B.K. Das, Director, ICAR-CIFRI highlighted about the pioneering role played by the Institute in ushering fisheries and aquaculture revolution and subsequent developments in fisheries in the country through its research and technology development. This has enabled the country to enhance the fish production by 10 times since 1950-51, thus making a visible impact on the national food and nutritional security.

Dr. U.K. Sarkar, HOD, Reservoir and Wetland Fisheries Division, ICAR-CIFRI stated that the Institute made possible the successful breeding of major carps induced by injection of pituitary gland hormones. It was an epoch making breakthrough in the annals of Indian Inland Fisheries Research. He also underlined about the development of relevant guidelines by the Institute for sustainable management of Inland Fisheries management.

Dr. Jivan Mitra, HOD, ICAR-CRIJAF, Nilganj highlighted about the support being provided by the Institute to the society through culture-based fisheries in open water bodies.

The dignitaries released two Publications namely - "Euryhaline fishes of river Ganga" and Hindi magazine "Nilanjali" during the occasion.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### FAO includes ICAR Advisories as Voluntary Guidelines for the benefit of fisheries sector across the globe

#### ICAR Institutes released Advisories to Fisheries sector in 12 languages

The Covid-19 pandemic that spread all across the globe leading to lockdown, has significantly affected the fisheries & aquaculture sectors in a multitude of ways in the country. Besides the disruption of fishing activities from open-water, and aquaculture in both freshwater and brackishwater systems, several associated activities like seed production, feed plant operation, supply and market chains, etc. have been greatly impacted. As a whole, the fishermen, fish workers, processors and their communities have been facing the threat of the pandemic, which is affecting the entire value chain and the livelihoods depending on it.

In order to ensure safety of all stakeholders associated in the agricultural sector, the Indian Council of Agricultural Research (ICAR), Department of Agriculture Research and Education (DARE), Ministry of Agriculture & Farmers Welfare, Govt. of India, through its research Institutes have taken several innovative steps to sensitize all concerned in different sub-sectors.

In fisheries sector, including capture fisheries, aquaculture and other associated activities, ICAR took lead in developing and issuing advisories through the Fishery Institutions, for safety of the workers and preventing the spread of the disease. In this endeavor, ICAR-Central Institute of Fisheries Technology (ICAR-CIFT), Kochi prepared advisories for the benefit of the fishermen, fishing boat owners, fishing harbour, fish market and seafood processing plants 10 different regional languages, besides in English and Hindi. ICAR-Central Inland Fisheries Research Institute (ICAR-CIFRI), Barrackpore prepared advisories for the stakeholders involved in fishing activities in rivers, estuaries, reservoirs and wetlands. These advisories were popularized through print & electronic media, circulated to State Fisheries Departments, developmental agencies, NGOs and SHGs, and also through social media. Such efforts have been received very well by the sector across the country.

Recognizing the importance of these timely advisories, the Food and Agricultural Organization (FAO), Rome has recommended these advisories prepared by ICAR-CIFT and ICAR-CIFRI by including them as Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries under the Asia-Regional initiatives for the benefit of fisheries sector across the globe (Webpage: <http://www.fao.org/3/ca8959en/ca8959en.pdf>). This is a huge acknowledgements of the efforts by the ICAR and its Institutes. The global fishery sector is expected to benefit from these efforts of the Council.

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### ICAR-CIFRI adopts Salia Reservoir in Post COVID-19 situation for Livelihood Enhancement of Schedule Caste Fishers of Odisha

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata in association with the Fisheries Department, Government of Odisha and Primary Fisheries Cooperative Society, Salia initiated an "Innovative Reservoir Enhancement Programme" in Salia Reservoir under the Schedule Caste Sub Plan Programme. The programme is aimed at improving the production from 30 tonnes to at least 60 tonnes from the reservoir to help more than 200 Schedule Caste households that are dependent on the reservoir for their livelihoods.



The Institute initiated the nursery raising programme for developing advanced fingerlings as the stocking material in the reservoir for production enhancement prior to the outbreak of the COVID-19. In two acres of nursery area 1 lakh IMC fish fries were stocked in the nursery with a stocking density of 0.50 lakh / Ac in the month of October, 2019. The fishers were advised to take care of the nursery and feed regularly to the stock during the lockdown period of COVID-19 pandemic situation.

The ICAR-CIFRI conducted a successful fish seed stocking programme in the reservoir on 21<sup>st</sup> and 22<sup>nd</sup> May, 2020. The stocked advanced fingerlings were approximately 30 gm in size. The objective of growing these fish seed in captive nursery is to develop stunted fingerlings. During this, 25,000 advanced stunted fingerlings of Indian Major Carps were stocked in Salia Reservoir. Approximately, 10 tonnes fish production can be additionally achieved from the reservoir. This is the first phase of seed stocking and the approximately 50,000 fish seeds in the nursery will be released in phased manner in the month of June.

The programme aimed at increasing the fishers' income in post COVID-19 era. Its implementation will generate an additional income of Rs. 30 lakh for the Scheduled Caste fishers of the Salia reservoir. Keeping the contingency posed by the COVID-19, the fishermen were distributed the face masks and sanitizers along with maintaining the practice of social distancing.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Enhancing Fishers' Livelihood through Wetland Fisheries Management in East Champaran District of Bihar

The call for an emergency lockdown in the country due to the outbreak of COVID-19 has led to the sharp declines in demands and supplies, lesser business and trade, transport and supply disruptions in the fish sector. The situation has affected the farmers' and fishers' life and livelihoods to a larger extent. During this challenging time of lockdown, the livelihood of fishers of Kothia maun of East Champaran District of Bihar was enhanced through increase in production and productivity and increase in fishing days.



Kothia maun, located 38 Kms of Motihari Town and typically "Oxbow" shaped in appearance has maximum water spread area of 60 ha and the depth ranged between 2 - 7 m. Around 200 fishers' families earn their livelihoods by carrying out fishing under the control of Tataria Block Fisherman Cooperative Society.

The fishing is being carried out in the wetland as per the ICAR-CIFRI's guidelines for the wetlands and reservoirs for COVID-19 management like using face cover, maintaining social distance of 1.5 meters between two fishers and a distance of 4 meters between two boats. The fishers harvested around 3.6 tonnes of fish in 10 days and sold them at the wetland site only. The fish catch includes Indian Major Carp Rohu, Catla, Mrigal, Exotic carps Amur carp, Grass carp and small fishes like Gudusia chapra. During the lockdown period, the Fisherman Cooperative Society earned Rs. 4 lacs through open water fisheries.

The ICAR-Central Inland Fisheries Research Institute, Barrackpore initiated development project at this wetland in August, 2019 for implementing the scientific management norms in a participatory mode. The programme "Wetland Fisheries Development Projects of Bihar under Central Sector Scheme (CSS) Blue Revolution" has successfully demonstrated the Institute's technological intervention in optimum exploitation of under-exploited wetlands of Bihar in respect of fish yield with financial assistance from NFDB, Hyderabad. The three prolonged strategies adopted by the Institute was input, infrastructure and information dissemination to implement fisheries enhancement protocol developed for oxbow lakes.

The ICAR-CIFRI's technological interventions in Kothia maun have brought several fold improvements in catch per unit effort, increase in fishing days from 30 days to 90 days and fish yield from 55 to 160 Kg/ha. The prolonged fishing days have also reduced migration of fishers for non-fishing jobs to other cities.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### A series of five consecutive River Ranching and Dolphin Awareness Programmes organized

11 - 16 June, 2020, Barrackpore, Kolkata

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata conducted a "Series of 5 consecutive River Ranching and Dolphin Awareness Programmes" from 11<sup>th</sup> to 16<sup>th</sup> June, 2020. The programmes were organized as a part of the "NAMAMI GANGE" Programme during the post lockdown situation.



Dr. B.K. Das, Director, ICAR-CIFRI and Principal Investigator, CIFRI-NMCG Project highlighted the importance of the day that calls for the sustainable fishery of open waters, conservation of aquatic biodiversity and restoration of fish habitat, etc.

The ranching programmes extended over four major Districts - Burdwan, Nadia, Hooghly and North 24 Parganas of West Bengal. A total of 2 Lakh advanced fingerlings were released during the entire ranching week at different stretches of the river Ganga namely Nabadwip, Kalna, Balagarh, Tribeni and Barrackpore.

The programme will focus on replenishing IMC (*Labeo rohita*, *Labeo catla*, *Cirrhinus mrigala* and *Labeo calbasu*) fish resource widely known as Rohu, Catla, Mrigal and Kalbasu in severely stressed area of fish availability. The programme can pave a way for stock enhancement in open water resources that is vital for restoration, conservation and upliftment of this declined fish fauna.

The local fishermen and stakeholders were sensitized about the various factors responsible for the declining fish biodiversity and total fish catch from the river Ganga. These were indiscriminate destruction of brooders and juvenile fishes through use of zero mesh destructive fishing gears.

The awareness programme on Dolphin conservation was also carried out along the Ganga coast from Nabadwip to Barrackpore during the occasion.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### ICAR-CIFRI tags Indian Major Carps under Namami Gange Programme

16<sup>th</sup> June, 2020, Barrackpore, Kolkata

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata tagged 100 Indian Major Carps and released in river Ganga for studying the migration behavior and movements of the fish under the "Namami Gange" Project today.



Dr. Basanta Kumar Das, Director, ICAR-CIFRI and Principal Investigator, ICAR-CIFRI-NMCG Project highlighted the importance of tagging process and sensitized the local fisherman about the purpose in tagging.

Due to the various man made and environmental factors, the native carp fishery has continuously declined for the past few decades. The ICAR-CIFRI, Barrackpore, Kolkata conducted a series of ranching programmes during the post Lockdown period. As a part of the ranching programme, the Institute initiated the tagging for monitoring and developing proper sustainable management of exploited IMC fish stock in the Ganga River system.

During the process of tagging, the adult fish more than 500g of Indian Major Carp (*Labeo rohita*, *Labeo catla* and *Cirrhinus mrigala*) popularly known as Rohu, Catla and Mrigal were tagged and released in the river Ganga. The Floy T-bar anchor tags of standard size with printed serial numbers were inserted in muscle just below the dorsal fin. The tagged fishes were further treated with antiseptic and potassium permanganate solution before releasing into the river for identifying the fundamentals of migration range. The tagged fishes were produced through artificial breeding of native fish species of River Ganga.

The whole process was carried out while observing the social distancing to contain the spread of COVID-19.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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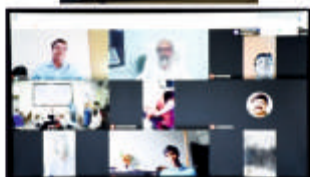
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## ICAR-CIFRE virtually celebrates National Fish Farmers' Day

28<sup>th</sup> Aug, 2020 | Barampore

The ICAR-Central Inland Fisheries Research Institute, Barampore, Kokate virtually celebrated the "National Fish Farmers' Day" today.

The Chief Guest, Shri Pratap Chandra Sarangi, Union Minister at State for Fisheries, Animal Husbandry & Dairying and MPRL, Government of India urged the fish farmers, scientists and other stakeholders to have a target for making the country as the largest fish producer country in the world. He stressed on new stimulus the fisheries sector has got under the leadership of Hon'ble Prime Minister, Shri Narendra Modi.



Highlighting the central government's programmes and schemes to boost production and productivity, the Union Minister registered the "Indian Natioal Fish Farmers' Day (INFFMD)" as a revolutionary programme launched by the Hon'ble Prime Minister. We have thousands of water bodies, rivers, lakes and reservoirs which are left unused. He also highlighted about the government's planning to increase the area under cage culture to 20% of the reservoir area.

In his welcome address, Dr. Jaykrishna Jena, Deputy Director General, (Fisheries Science), ICAR highlighted the Government of India's ambitious target of doubling the fish production and export revenues in the country. He also dwelt upon the scientist communities' contributions in developing the different fish breeds and advancing the production in the country in the last five decades.

Dr. B. K. Das, Director, ICAR-CIFRI outlined the works done by the Institute for the fish farmers' upliftment. He also stressed on achieving the fish production of 22 million tonnes in the next five years.

The senior officials of ICAR Institutes also addressed the fish farmers during the occasion.

The main objective of the programme was to rebuild the strategies for fishery livelihood for combating the Post COVID-19 situation, particularly, in the inland fisheries sector.

More than 100 fish farmers, entrepreneurs, students and fish producer groups from 14 different states namely - West Bengal, Bihar, Gujarat, Odisha, Assam, Kerala, Tripura, Meghalaya, Manipur and Arunachal Pradesh, Uttar Pradesh and Punjab virtually participated in the event.

(Source: ICAR-Central Inland Fisheries Research Institute, Barampore, Kokate)



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### Post-Amphan support extended by ICAR-CIFRI to the Tribal and SC fishers of Kultali, Sundarbans

17<sup>th</sup> August, 2020, Kultali, Sundarbans

The outbreak of the Cyclone Amphan into the coastal region of West Bengal on 20<sup>th</sup> May, 2020 affected the Sundarbans area of West Bengal the most. During the Cyclone, the wind speeds of 150-160 kilometers per hour were recorded in the coastal areas once it made landfall. Many of the Blocks - Basanti, Gosaba, Kultali, Kakdwip, Namkhana, Patharpramima in South 24 Parganas and Minakha, Sandeshkhali, Hingalganj and Hasnabad in North 24 Parganas were ravaged due to the Super Cyclone. The Basanti Block of South 24 Parganas District has a total population of 3,36,717 as per the Census - 2011.



With an aim to support the livelihoods of the fishermen of marginalized communities affected by the Cyclone Amphan in the Sundarbans area of West Bengal, the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata joined hands with the Kultali Milan Tirtha, a Non-Government Organization.

Dr. B.K. Das, Director, ICAR-CIFRI distributed 5,000 Kg lime, 2.5 tonnes fish feed and 900 Kg fish seed to the adopted 256 fishers' family (SC - 196 and ST - 60) under the Tribal Sub Plan and Scheduled Caste Sub Plan Programme. He also released the fish seeds in the ponds of the tribal fishers' beneficiaries.

Dr. Das highlighted the establishment of the three Ornamental Fish Units by the Institute for enhancing the livelihoods of the women of Schedule Castes and Tribes community in Kultali.

The Institute has also initiated the development of a pond of the Higher Secondary School of Kultali stocked with 6,000 fish seeds for the benefit of SC / ST students.

The Amphan's outbreak in the Sundarbans led to the huge fish mortality along with deteriorating the water quality. In the adopted villages, the Institute's technical team advised the beneficiaries for immediate cleaning of the ponds manually by removing all the fallen parts of trees and removing the bottom organic matter as much as possible. The team also recommended the dose of lime application according to the pond areas to restore the water quality. Due to COVID-19 Pandemic and lockdown situation, the fishers were provided with the technical advisories telephonically. To cope-up with the fragile state, the tribal populace of Gosaba (58) and Sagar Island (105) were also distributed with the fisheries inputs support.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)

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## International Webinar on "Enhancing Conservation of River Dolphins through Sub-Regional Cooperation" inaugurated

14<sup>th</sup> August, 2022, Bikaner, Rajasthan

Dr. Rajiv Kumar Mishra, I.A.S., Jointed Secretary to Government of India, National Mission on Clean Ganga (NMCG), Ministry of Jal Shakti, Government of India, inaugurated the two-day International Webinar on "Enhancing the status of Ganges Dolphin in the conservation needs of river and its aquatic population: Present status and future strategies for conservation in Indo-Bangladesh-Myanmar-Himal" today. The webinar has been jointly organized by the National Mission on Clean Ganga, India; Central Fisheries Society of India; International Primates Society, Bikaner, India and IAPNG, Canada.



In his inaugural address, Dr. Mishra stressed that the freshwater Conservation is one of the priority areas of the National River Conservation Directorate. Conservation with Ganga Rejuvenation and Ganga River Dolphin Conservation: National Programme. He also highlighted the proposal to include the "Project River Dolphin" by the Hon'ble Prime Minister in the first meeting of NMCG to save and enhance the Ganga Dolphin's population.

Dr. Jyotsnagopal Jais, Deputy Director General of Fisheries Services, ICAR, inaugurated the Webinar's status in the country. He also highlighted the working of two ICAR Fisheries Institutes that are working on Dolphin Conservation - ICAR CPRI, Bikaner, India and the River Dolphin and ICAR CPRI, Bikaner as the members of the Indian Ocean including Marine Dolphins.



Dr. Jitendra Kumar, Former Vice-Chancellor, ICAR-CPRI, Mumbai discussed about the Ganga population in the Indo-Bangladesh. He also outlined the social aspects of the River Dolphin in rural India. Bikaner, in that context, Dr. B. K. Jais, Director, ICAR Institute of Primate Research, Bikaner, India, outlined the major aim and objectives of the National Dr. Jais emphasized on the participation of the representatives from Bangladesh, India, Myanmar, Nepal and Indonesia in the sub-region for sharing the conservation of Dolphins. He also stressed that the webinar would strengthen the Indian's conservation in the South-East Asian Region and strengthen the North-East India's Project - River Dolphin.

The Webinar aims at the conservation of River Dolphins in the South-East Asian Region through the regional strategy and partnership.

The experts on Dolphin from the various countries, viz., India, Nepal, Myanmar, Bangladesh and Indonesia along with more than 1,000 participants from the various Research Organizations, Institutes, Universities of India and other countries have registered their participation for the Webinar.

(Source: ICAR-Central Inland Fisheries Research Institute, Bikaner, India)



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### ICAR-CIFRI establishes Ornamental Fish Farming Unit for SC Women Fishers of Khalsi Beel, West Bengal

Khalsi is a horseshoe-shaped floodplain wetland that is connected to the River Jamuna in Nadia District of West Bengal. Around 300 Member Fishermen Cooperative Society manages the fisheries in the beel along with the involvement of 157 active fishers.



Under the leadership of Dr. B.K. Das, Director, ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata, an Ornamental Cluster has been developed in the beel area.

Keeping in view the increasing market demand, the cluster has been developed for ornamental fish in Kolkata. The Khalsi Beel Cooperative Society selected a 25 Scheduled Caste Fisher Women Group for the ornamental cluster development. The women were trained on ornamental fish keeping and breeding.

During the Meeting organized on 20<sup>th</sup> September, 2020, Dr. Das distributed the Ornamental Fish, Fish Feed and other accessories along with FRP Tanks to the fisher women beneficiaries.

Dr. Das also urged the women group for developing the skill of ornamental fish keeping and breeding for their livelihood improvement.

The Institute also organized the On-farm Training Programme for the "Women Fishers on Ornamental Fish Farming" for their skill up-gradation with a practical demonstration during 19<sup>th</sup> to 21<sup>st</sup> September, 2020.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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## Carp Seed ranching and Hilsa tagging in River Ganga for conservation and restoration of Fish

23 - 24 September, 2020, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata under the National Mission for Clean Ganga (NMCG) Programme carried out the ranching of more than 3,20,000 advanced fingerlings of Rohu (*Labeo rohita*), Catla (*Catla catla*), Mrigala (*Cirrhinus mrigala*), and Calbasu (*L. calbasu*) in river Ganga at Farakka, West Bengal on 23<sup>rd</sup> September, 2020 and Sahebganj, Jharkhand on 24<sup>th</sup> September, 2020, respectively. The Live Hilsa average size of 350 gm were tagged and ranched for understanding the migratory path in the middle stretch of the river Ganga from Prayagraj to Farakka, West Bengal.



During 2019-20, more than 3,000 adult Hilsa were ranched at the upstream of Farakka barrage and two tagged live Hilsa were caught at Ballia, Uttar Pradesh. The activities were carried out by following the measures to contain the spread of COVID-19 Pandemics for re-establishing the indigenous fish population and enhancing the livelihood of the fishermen of River Ganga.

Shri D.S.G.S.S. Babji, Executive Director, NTPC, Farakka, West Bengal; Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata; Shri R.K. Singh, Superintending Engineer, Farakka Barrage Authority and Shri Sanjeev Kumar, Assistant Director, IWAI were present as the Special Guests on the occasion.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Shri Pratap Chandra Sarangi visits ICAR-CIFRI Pen Demonstration Site at Rishia Reservoir, Balasore, Odisha

30<sup>th</sup> September, 2020, Balasore

Shri Pratap Chandra Sarangi, Union Minister of State for Fisheries, Animal Husbandry & Dairying and Ministry of Small and Medium Enterprises visited the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata's Pen Demonstration Site at Rishia Reservoir, Balasore, Odisha today.



In his address, the Minister emphasized on the cooperation and unity among the fishers for their livelihood development. He also stressed on adopting the pen technology for producing enough amount of advanced fingerlings (80 - 100 mm fish seed) for stocking in the reservoir to enhance the production from the reservoir.

The Institute is demonstrating the ICAR-CIFRI Pen HDPE® Culture Technology in Rishia Reservoir for *In-Situ* advanced fingerling production and stocking in the reservoir. The reservoir has an area of 300 ha and 112 fishers are involved in active fishing from the reservoir.

The Institute has recommended for stocking more than 80 - 100 mm size of fish seed for higher production from the reservoir. As the cost of bigger size fish seeds are very high and also not available in high quantity in the market, the reasons fishers' stock small size fish seed in the reservoir. For this, the Institute has developed a low-cost *In-Situ* fish seed production technology through the ICAR-CIFRI Pen HDPE for reservoirs and wetlands. The reservoir has been equipped with installation of two Pens of 0.1 ha.

The Minister released 32,000 fish seeds in the Pens. He also distributed the ICAR-CIFRI CAGEGROW® fish feed to the fishers for feeding in the Pen Culture.

In his welcome address, Dr. B.K. Das, Director, ICAR-CIFRI apprised the Minister about the Institute's activities carried out in Odisha. He also stressed that the intervention will help in carrying out atleast 20 tonnes additional fish production from the reservoir.

Dr. Das released 80,000 fish seeds in 4 pens of Jalaswar Wetland in Paikasidha and Keshapura Villages. The demonstration will help to enhance the livelihoods of more than 300 families. The Director also released 40,000 fish seeds in Sunei Dam of Mayurbhanj District, Odisha benefitting 157 fishers of the reservoir.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Post-Amphan support for Sustainable Fisheries Development of SC Fishers of Sagar Island, West Bengal

20<sup>th</sup> October, 2020, Barrackpore

In the midst of COVID-19 Pandemic situation, the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata in collaboration with local NGO, SKSVYCS distributed 9,000 Kgs of fish feed, 5,000 Kgs of lime and 800 Kgs of fish seed to the 250 SC beneficiaries of Sagar Island today.

The Sagar Island or Gangasagar is situated in the Sundarban Delta, West Bengal. Most of the people living in the Island are economically backward. The Island is highly vulnerable to cyclone and other natural disasters. The super cyclone Amphan in the recent past caused severe damage in the Island, destroyed several homes and other infrastructures. The heavy tidal waves during the Amphan caused saltwater inundation in several fish ponds and agricultural lands leading to a huge loss of fisheries and agricultural crops in the Island.

The Institute extended the advisory and distributed fisheries inputs to the villagers of Sagar Island, Sundarban for fisheries development. Around 250 SC beneficiaries of the Island were distributed the Lime, Fish feed and fish seed during the occasion.

Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata advised the fishers on the scientific fish culture and also motivated them for an integrated farming system which will provide not only plant-animal protein, but also sustainable livelihood for the individual households. The beneficiaries were also provided the mango sampling for their kitchen gardens.

The fishers of Gangasagar were also empowered on the Dolphin Conservation and their importance for the biodiversity in the Dolphin Awareness Programme organized during the occasion.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)







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### Ornamental Fish Unit in Bhadrak, Odisha inaugurated

24<sup>th</sup> October, 2020, Bhadrak, Odisha

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata established an *Ornamental Fish Culture Unit* at Ramakrishna Sevashram, Bhadrak, Odisha for Scheduled Caste women of the different villages of Bhadrak, Odisha under the Scheduled Caste Sub Plan Programme. The Unit was inaugurated by Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata and Swami Shri Ashrananda, Centre Head, Ramakrishna Sevashram, Bhadrak, Odisha today.

In his inaugural address, Dr. Das highlighted the Ornamental Fish Culture's importance and opportunity. He also outlined benefits for earning an alternative income and increasing the earning basket from the sector for the rural women.



The Ramakrishna Sevashram also conducted a seven-day training programme 18<sup>th</sup> to 24<sup>th</sup> October, 2020 prior to establishment of the Unit for strengthening the theoretical and practical skills of SC Women for Ornamental Fish Culture through learning by doing practical demonstrations and class room sessions. In the first phase, the Institute provided 25 fish holding tanks of 350 L capacity along with Ornamental Fish, plants, medicines, heaters, air blowers and pipes to the SC Women.

The programme was jointly organized by ICAR-CIFRI, Rotary Club, Bhubaneswar Royal, Odisha and Ramakrishna Sevashram, Bhadrak, Odisha.

The programme was aimed at empowering the Scheduled Caste Women and making them self-employed by providing alternative sources of income.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### Webinar on "Enhancing Conservation of River Dolphins" organized

24<sup>th</sup> November, 2020, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata in collaboration with the National Mission for Clean Ganga, Inland Fisheries Society of India and Professional Fisheries Graduates Forum organized a one-day International Webinar on "Enhancing Conservation of River Dolphins" today. The Webinar was organized on the occasion to celebrate the International Freshwater Dolphin Day - 2020.

Dr. Rajiv Ranjan Mishra, I.A.S., Special Secretary & Director General, National Mission of Clean Ganga (NMCG), Ministry of Jal Shakti, Government of India inaugurated the Webinar. In his inaugural address, stressed on the pressure of urban population along with pollution load on rivers that is posing challenges not only on the dolphin, but also the other aquatic lives. He emphasized that the Dolphin's conservation needs good mix of scientific ecological approach with community participation.

Dr. Joykrushna Jena, Deputy Director General (Fisheries Science), ICAR discussed about the River Dolphin status in India and South Asia. He outlined the working of the ICAR-CIFRI, Barrackpore, Kolkata in collaboration with the NMCG ecological restoration of fisheries through ranching and other means. He highlighted the declaration of River Dolphin as the National Aquatic Animal of the country by the Government of India.

Earlier, in his welcome address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata briefed about the International River Dolphin Day and the need of its conservation. He outlined the Institute's efforts in Ganga fisheries including Hilsa restoration and ranching of IMC in River Ganga.

Dr. Dilip Kumar, Former Vice-Chancellor, ICAR-Central Institute of Fisheries Education, Mumbai, Maharashtra discussed about the stakeholders' role in Dolphin Conservation in Rivers. He also stressed on the local community's participation for its conservation.

Dr. Syed Istiak, Director, Deep Sea Fishes Ltd. & ASAP Healthy Food Ltd., Bangladesh presented his paper on River Dolphin in Bangladesh River.

Dr. Madhav Pantha, Former Director (Fisheries), Nepal presented a case study on Dolphins in the Nepalese rivers.

The experts on dolphins from the various countries, viz., India, Nepal and Bangladesh participated and shared their experiences during the Webinar.

Around 1,000 participants virtually participated in the Webinar.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### ICAR-CIFRI & ICAR-CIFA jointly Ranched Minor Carps Seeds in Mahanadi River

28<sup>th</sup> November, 2020, Bhubaneswar

The ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha in association with the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata; State Department of fisheries and Rotary Club, Bhubaneswar organized a River Ranching Programme in the Mahanadi River today.

The ICAR-CIFA, Bhubaneswar, Odisha is involved in the research and development of different Minor Carps Species over the past 20 years. The Endemic fisheries resources of the river Mahanadi have been depleted due to the severe anthropogenic pressure, fish ranching can aid in the revival and enhancement of the native fish population in such river systems. In this regard, both the Institutes have jointly planned for the Seed Ranching Programme.

Following this, about 50,000 Seeds Minor Carps *L. fimbriatus*, *S. sarana*, *L. calbasu* were released in the Mahanadi river.

Dr. Saroj Kumar Swain, Director, ICAR-CIFA, Bhubaneswar, Odisha; Dr. Basant Kumar Das, Director ICAR-CIFRI, Barrackpore, Kolkata; along with the other scientists from both the Institutes and Shri Pratap Rout, Joint Director, Department of Fisheries, Government of Odisha were present during the programme.

(Source: ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha)





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### "Stakeholders' Meeting-cum-Awareness Programme" organized

16<sup>th</sup> December, 2020, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized a "Stakeholders' Meeting-cum-Awareness Programme" at Media Beel, North 24 Parganas today.

Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata inaugurated the programme by releasing 45,000 Fish Fingerlings of Indian Major Carps, bata (*Labeo bata*), puti (*Puntius sarana*) and Tengra (*Mystus sp.*) to boost the culture-based fisheries production from the wetland and conservation of indigenous fishes. Dr. Das also emphasized on the need to conserve the wetlands.



In his address, Dr. U.K. Sarkar, Head, Reservoir and Wetland Fisheries Division & Principal Investigator, NICRA briefed about the programme and outlined the various climate smart adaptation strategies.

The programme was aimed at creating the awareness on climate change and its deleterious impacts on wetland fisheries under the Project "National Innovations on Climate Resilient Agriculture (NICRA)".

The Fisher's Cooperative was also handed over 3 FRP coracles and 2.5 tonnes ICAR-CIFRI CageGrow feed during the occasion.

The programme registered a total participation by 100 fishers and Project Investigators from the Institute.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### ICAR-CIFRI provides livelihood support to Wetland Fishers of Borkona Beel, Assam under WorldFish Project: A Post-COVID-19 initiative

As a part of the implemented Project "Small Scale Fisheries in Wetlands for livelihood and nutritional security" in collaboration with the WorldFish, Penang, Malaysia, the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata demonstrated its technologies (ICAR-CIFRI Pen HDPE® and Fish Stock Enhancement) in the selected floodplain Wetlands (Beels) of West Bengal and Assam with community participation,



As a part of Project's Assam Component, Borkona Beel, the Institute selected a seasonally open floodplain wetland located near Sarthebari in Barpeta District, Assam for the technology demonstration. The Beel managed by Bampara Fishery Co-operative Society has 65 active members belonging to Scheduled Caste community and a total of 350 fisher families who depend on the Beel for livelihood support. Borkona Beel is an unstocked beel with low fish production (average fish yield rate:  $180 \text{ kg ha}^{-1} \text{ yr}^{-1}$ ). The ICAR-CIFRI initiated the Supplementary Stocking with Fingerlings of major and minor carps (40,000) in the Beel for the first time on 28<sup>th</sup> December, 2020. The main objective of the programme is to enhance the fish stocks in the Beel, improve fish yield rate and provide livelihood support to the Beel Fishers Post-COVID-19.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



The image features three concentric squares. The outermost square is a light sage green, the middle square is a medium sage green, and the innermost square is a darker, muted sage green. The text is centered within the innermost square.

**Year  
2021**





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### Virtual Training Programme on "Hilsa Fishery Conservation for livelihood improvement" organized

12<sup>th</sup> January, 2021, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized a Virtual Training Programme on "Hilsa Fishery Conservation for livelihood improvement" today.

In his inaugural address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata highlighted the Institute's interventions and research activities on Hilsa carried out from 2012 to 2020. Dr. Das urged scientists, fishermen and administrative officials to work as a team towards Mission Hilsa. He also highlighted the youths' involvement in the Hilsa conservation programme.



Dr. Sandeep Behera, Senior Consultant, Biodiversity Conservation, National Mission for Clean Ganga, Ministry of Jal Shakti, Government of India highlighted the role of regional research collaboration particularly for the trans-boundary aquatic animals and ICAR-CIFRI's role for scientific involvement and outputs.

Prof. Abdul Wahab, Team Leader, ECOFISH Project-USAID, WorldFish, Bangladesh outlined the important role of science-based community participation for Hilsa production improvement in Bangladesh.

The main objective of the training programme was to make the stakeholders aware and highlight the community participation in the biodiversity conservation plan specific to Hilsa fishery.

More than 260 participants representing fishermen, students, fisheries officials from different states and personnel from Universities and Research Institutes virtually participated in the programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Ranching & Tagging in River Ganga: An Initiative for Wild Fish Germplasm Restoration

26<sup>th</sup> January, 2021, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized the Fish Ranching and Tagging Programme to mark the celebrations of Republic Day - 2021 at Daspara Ghat Barrackpore, Kolkata, West Bengal under Namami Gange Programme today.



Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata & Principal Investigator, ICAR-CIFRI-NMCG highlighted the present Project activities and the need of ranching in river Ganga.

Shri D.K. Mahajan, Executive Engineer and Shri Joy Krishna Praharaj, Assistant Engineer, Indira Gandhi Water Treatment Plant (IGWTP), Barrackpore, Kolkata graced the event as the Guests of Honor.

Around 35,000 Advanced Fingerlings of Rohu, Catla, Mrigal, Calbasu were released in the river Ganga. Besides ranching, about 100 fishes were tagged (External floy tag) to know the migration pathway for taking the management measures to conserve the natural fish genetic resources. A mass Dolphin Awareness Programme was also organized during the programme for conserving the National Aquatic Animal of the country.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### ICAR-CIFRI demonstrates Pen Culture in two Wetlands of West Bengal under SCSP Programme

21<sup>st</sup> February 2021

The ICAR-CIFRI adopted Sindrani and Duma Wetlands located in the bordering areas of Indo-Bangladesh Border in West Bengal under the Scheduled Caste Sub Plan Programme for demonstrating the Pen Culture for the production enhancement. The Sindrani and Duma having an area of 46 ha and 227 ha areas, respectively are horse-shoe shaped wetlands disconnected from River Ichhamati. The Wetlands are low productive and managed by the primary co-operative societies.



A total of 271 and 934 fishers were registered to the Sindrani and Duma Wetland Cooperatives, respectively. The Institute signed a Memorandum of Understanding (MoU) with the two Wetlands Cooperatives for the demonstration programme. As per the MoU, the fishers were provided with coracle, CIFRI pen HDPE®, CIFRI Cagegrow® fish feed, etc. The pens were erected with community participation in both the wetlands.

The Institute organized a Scientists'-Fishers'-Interaction at Sindrani today. The major problems of the Wetlands development were discussed with more than 50 fishers during the occasion.

Encouraging the fishers for pen culture, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata outlined the beneficial impacts of pen culture for production enhancement from the Wetland.

Around 60,000 fish seeds were stocked in the pens of Sindrani Wetlands with a target of additional 30 tonnes production from the Wetland. The other aspects and strategies for production enhancement from the reservoir were also discussed.

A total of 52 fishers participated in a meeting held at Duma Wetland. The key steps for the production enhancement approaches from the Wetland were also discussed during the occasion.

Dr. Das released 90,000 fish seeds in the pens of Duma Wetland with the target of additional 40 to 50 tonnes from the pen culture demonstration. In his address, he stressed on the community participation and cooperation for the success of any intervention. Dr. Das also highlighted the importance of pen culture for *In-Situ* raising the fish seeds in the Wetland and its role in production enhancement.

The ICAR-CIFRI intervention will help in improving the livelihoods of 1,205 fishers of both the Wetlands. The ICAR-CIFRI Pen HDPE® and ICAR-CIFRI Cagegrow® are the registered trademarks of ICAR and the two technologies were commercialized in 2018.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### ICAR-CIFRI establishes Ornamental Fish Units for Tribal Women

26 - 27 February, 2021

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized the Awareness-cum-Demonstration Programmes at Risia Nilagiri Village in Balasore District and Chakuli, Damana Village in Bhubaneswar, Odisha for the Tribal Women under Tribal Sub Plan Programme on 26<sup>th</sup> and 27<sup>th</sup> February, 2021. To empower the tribal women and make them self-employed by providing alternative sources of income, the Institute initiated to develop an Ornamental Unit in the tribal villages of Odisha.



In his address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata highlighted the importance and opportunity of the *ornamental fish culture*. Dr. Das also distributed 50 Ornamental Fish Units in both the villages (35 Units in Risia, Nilagiri Village and 15 Units in Chakuli, Damana Village) to the tribal beneficiaries.

The women from both the villages were trained on Ornamental Fish keeping and breeding to strengthen the theoretical and practical skills for ornamental fish culture at the Institute prior to the establishment of the Unit.

The programme was jointly organized by the ICAR-CIFRI, Barrackpore, Kolkata and the Rotary Club of Ekamra Kshetra and Rotary Club of Bhubaneswar Royal, Odisha.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### Workshop on "Strategic planning for nutritional security and productivity enhancement in Hirakud Reservoir, Odisha: An approach to community mobilization" organized

1<sup>st</sup> March, 2021, Sambalpur, Odisha

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized a Workshop on "Strategic planning for nutritional security and productivity enhancement in Hirakud Reservoir: An approach to community mobilization" at Sambalpur, Odisha today.

The Workshop was organized in collaboration with the NGO (BANO Charitable Trust, Odisha) and State fisheries Department, Government of Odisha.



The Chief Guest, Shri S. Saxena, I.A.S., District Magistrate, Sambalpur, Odisha stressed on the potential of the Hirakud Reservoir and urged the local authorities to extend all the support for the development of the fishermen community of the Hirakud Reservoir.

Shri B.P. Dwivedy, Deputy Director Fisheries, Government of Odisha highlighted the Department's commitment to work with the ICAR-CIFRI for Hirakud Reservoir production enhancement.

Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata highlighted the importance of the strategic scientific planning of the Hirakud Reservoir for the sustainable production to bridge the gap between present production and its potential. He also emphasized on the ICAR-CIFRI's technologies namely ICAR-CIFRI GI Cage and ICAR-CIFRI Pen HDPE that will play an important role for producing the advanced fingerlings as a suitable stocking material to enhance the Reservoir's production.

Earlier, in his welcome address, Dr. A. Rashid, Chairman, (BANO Charitable Trust, Odisha) outlined the main objective of the workshop that was aimed at motivating the fishers on sustainable reservoir management and its scientific planning.

Around 120 fishermen from 6 Primary Fishermen Cooperative Societies participated in the workshop.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Climate-resilient Wetland Fisheries Programme organized

12<sup>th</sup> March, 2021, Assam

Under the Climate-Smart Inland Fisheries initiative, the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata stocked a total of 6,000 fingerlings of indigenous carps (comprising of *L. catla*, *L. rohita*, *C. mrigala*, *L. beta*, *L. gonius*) and *Ctenopharyngodon idella* (grass carp) in a Pen enclosure constructed for raising the advanced fingerlings and for table-fish production today. This will increase the adaptive capacity of the fishers and provide additional livelihood security to the Beel Fishers.



The Beels (Floodplain Wetlands) of Assam are known as repository of a variety of fish species. The recent climatic variability and anthropogenic threats in North-East India is a challenging issue faced by the Wetland Fishers of the region. It has considerably impacted the income and livelihood accrued from the resources. This requires region-specific appropriate mitigation and adaptation strategies to maintain sustainability.



To deal with the problem effectively, the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata has been demonstrating the Pen Culture as a Climate-Resilient Technology for the Wetland (Beel) Fishers in 47-Morakolong Beel, Morigaon District, Assam during the past two years under the National Innovations in Climate Resilient Agriculture (NICRA) Project. In the past, the Pen Culture of Indian major carps *Labeo catla*, *Labeo rohita* and *Cirrhinus mrigala* along with Small Indigenous Fish (SIF) species *Amblypharyngodon mola*, *Gudusia chapra* and *Puntius sophore* in the Beel resulted in considerable increase in production of the SIFs benefiting the fishers' community of the adjoining villages.

Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata along with the Heads of different Divisions of ICAR-CIFRI, Barrackpore, Kolkata; Beel Manager and Field Staff of Assam Fisheries Development Corporation Ltd., Guwahati were also present during the occasion.

More than 30 active fishers participated in the event.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)




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## ICAR-CIFRI celebrates 75th Foundation Day

17<sup>th</sup> March, 2021, Barrackpore

Swami Shri Viswamayananda Ji, Secretary, Rama Krishna Mission Ashram, Sargachi, Murshidabad highlighted the importance of Integrated Fish Farming Technology. Shri Viswamayananda Ji was addressing the "75<sup>th</sup> Foundation Day" celebrations of the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata held today. He emphasised that innovation and invention should reach each and every door of common people.



Dr. Joykrushna Jena, Deputy Director General (Fisheries Science), ICAR appreciated the Institute's work during the COVID-19 Pandemic.

Dr. B.S. Mahapatra, Vice-Chancellor, Bidhan Chandra Krishi Viswavidyalaya, West Bengal emphasized on the integration of fish culture, especially, nutrient dense small indigenous fishes with agricultural activities.

Dr. D.S. Shakyawar, Director, ICAR-National Institute of Natural Fibre Engineering and Technology, Kolkata appreciated the Ganga Fishery Rajuvaran and conservation activities taken-up by the institute under the NMCG Project.



Dr. Gauranga Kar, Director, ICAR-Central Research Institute for Jute and Allied Fibres, Barrackpore, Kolkata lauded the Institute's developmental activities during the COVID-19 period. He highlighted the issues like declining availability of water and stressed on increasing per unit water productivity and decreasing water footprints of agricultural activities.

Dr. V.V. Sugunan, Consultant, FAO & Former ADG, (Inland Fisheries), ICAR also appreciated the Institute's work.

Earlier, in his welcome address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata outlined the generation of useful Inland Fisheries Technologies on Induced Breeding and Fish Seed Production; Composite Fish Culture; Fish Seed Prospecting and Spawn Collection in rivers; Reservoir and Floodplain Wetland Fisheries Management and In-Situ Fish Seed Production in cage and Pen by the Institute. Dr. Das also emphasized on development of relevant guidelines for sustainable management of Inland Fisheries Management.

The various publications of the Institute were also released during the occasion.

More than 150 fishers participated in the Farmers-Scientists-Interaction Session organized on the occasion.

[Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata]



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### Workshop-cum-Training Programme on "Wetland Fisheries Development for fishers of East Champaran, Bihar" organized

22 - 23 March, 2021, East Champaran

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized the Workshop-cum-Training Programme on "Wetland Fisheries Development for fishers of East Champaran, Bihar" at the Krishi Vigyan Kendra, Dr. Rajendra Prasad Central Agricultural University, East Champaran, Bihar from 22<sup>nd</sup> to 23<sup>rd</sup> March, 2021.

Shri Pramod Kumar, Minister of Sugarcane Industries and Law Department, Government of Bihar graced the occasion as the Chief Guest. The Minister also released the Manual "Wetland Fisheries Development in Bihar" during the occasion.



Shri Prakash Asthana, Member, Board of Management, Dr. Rajendra Prasad Central Agricultural University, Pusa, Bihar applauded the Institute's efforts towards development and fisheries enhancement in the region. He also urged for extension of the programme in the other Wetlands of the region.

Shri Sanat Kumar Singh, DFO, East Champaran, Bihar appreciated the teamwork by the scientific team of the Institute for creating awareness and imparting the training to the fishers to enhance their livelihood and strengthen the infrastructure.

Earlier, in his welcome address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata outlined the working of the Institute for the last four years in 5 Wetlands for doubling the farmers' income.

Shri Ravindra Sahani, Mukhiya, Piprakothi & President, Piprakothi Fishermen Cooperative Society expressed his gratitude to the Central and State Governments for sanctioning the Projects through NFDB.

Around 500 Wetland Fish Farmers of East Champaran, Bihar attended the Workshop-cum-Training Programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Tagging-cum-Awareness Programme on High Altitude Fish Species in River Tons for operational functionalities of Fish Pass towards conservation organized

The Dams / Barrages are one of the major threats along with the pollution and climate change to the River ecology and fisheries. The River Tons is a major tributary of the Yamuna River in the Ganga basin and home for both the indigenous and exotic fish species. The Himalayan Rivers are mostly preferred for the hydropower projects due to the geomorphologic advantages. The Sutlej Jal Vidyut Nigam Limited (SJVN) has proposed a 60 MW Naitwar Mori Hydro Electric Project on River Tons.

As a technical consultant, the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata has carried out a detailed investigation on the fish diversity, abundance and particular focus on the migratory fish species and their reproductive biology. Based on the study, the Institute has proposed Fish Pass Design suitable for the migration of the identified fish species.



To advocate the operational functionalities of the proposed Fish Pass Design, the tagging of 5 different migratory fish species namely - *Schizothorax richardsonii* (Snow trout), *Schizothorax progastus* (Dinnawah Snowtrout), *Schizothorax labiatus* (Kunwar Snowtrout), *Salmo trutta* (Brown trout) and *Oncorhynchus mykiss* (Rainbow trout) of total 50 numbers were done in the stretch of the River from 19<sup>th</sup> April to 3<sup>rd</sup> May, 2021. The tagging was done with an external T-bar anchor floy of 45 mm coded with ICAR-CIFRI.

The Institute also organized the Awareness Programmes on the "Conservation of native fish fauna in River Tons and Tagging methods for fish migration" among the local fishermen, anglers and official staffs of the Hydropower Project. More than 200 participants attended the programme at different locations.

During the investigation, the tagged fish was recovered 4.5 Km upstream from the released site, after 42 Hrs. of tagging, indicating the provision of Fish Pass in the proposed Dam that would facilitate the migratory behavior of the fish species for their sustenance in the River. This is the first study carried out towards tagging of 5 different migratory fish species of high altitude Himalayan River.

The programme was carried out under the guidance of Dr. B.K. Das, Director, ICAR-CIFRI; Dr. A.K. Sahoo, Senior Scientist & Investigator and the Project Staff.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### Livelihood improvement through Ecosystem-based Wetland Management

To support the livelihoods of the wetland-dependent community of Beledanga Beel, the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata initiated an 'Ecosystem-based Wetland Management Programme' under the ICAR V3 Project and the Scheduled Caste Sub Plan.

The Beledanga Beel is an Oxbow Lake managed by the Beledanga Barrackpore Fishermen's Cooperative Society Ltd. since 1958. Being Horseshoe-Shaped with an area of 62 ha in minisize, the Beel is Eutrophic in nature and highly infested with macrophytes. Keeping the scenario in mind, the ICAR-CIFRI commenced a participatory demonstration of Pen Culture Technology. The main objective was production enhancement in the Beel for supporting the livelihood of the fisherman of Beledanga Beel.



For enhancing the fish production and supporting the socio-economic conditions of the adjoining villages, the Institute adopted the Beledanga Beel in 2019. After collecting the baseline data and chalking-out the initial interventions, the Institute installed around 5 ICAR-CIFRI Pen HDPE® of 0.1 Ha and stocked with Advanced Fry of Indian Major Carps while the Grass Carp Fry was stocked in one Pen. These Pens were scientifically managed with all prophylaxis measures including feeding.

The Institute also organized the capacity building programmes for the fishers. After three months, the fingerlings were released in Beel. The Institute also extended technical support and inputs like fish seed, ICAR-CIFRI Cagegrow® fish feed, Coracles to the Fishermen Cooperative Society (FCS).

In 2020, by harvesting around 28,307 Kg fish with productivity of 829 Kg / ha, the FCS achieved around 32% increase in production. Gaining a good weight within a year, the Grass Carp was also very effective for controlling the macrophytes in a natural way. Experiencing better harvest, the Beledanga fishers installed two more Pens in the same Beel for In-Situ Seed Rearing. With the active participation of the Beledanga Society people, 7 Pens were stocked with Advanced Fry.

In the first quarter of 2021, the Society harvested 8,190 Kg which is 27.6% more than the last year's quarterly production. Though the fishing days were reduced due to COVID-19, still the production status showed a rise in the curve.

An increase in production proportionately contributed to an increase in the fishers' income that will ultimately help to uplift the socio-economic status of the Beel dependent fishers. On conducting a study about the consumption pattern of the Beel dependent community, it was found that on an average the per capita fish consumption in Beledanga adjoining villages was 53 gm / day / person, which is more than the national average. Thus, if the Beledanga Beel is managed scientifically, the livelihood and nutritional needs of the adjoining community will be secured.

The need-based scientific interventions and community mobilization by the ICAR-CIFRI has brought a ray of hope to the vulnerable fisherman community. The better production from the Beel will lead to more secure livelihood which will lead to the fisher's less migration and subsequently, also reduce the social tension.

The ICAR-CIFRI team is also trying to mobilize the fishers and their women counterparts for establishing good governance for sustainable Wetland Management which will ultimately provide livelihood and nutritional security to the wetland-dependent community.

The 'ICAR-CIFRI Pen HDPE®' and 'ICAR-CIFRI Cagegrow®' fish feed are the registered trademarks of the Indian Council of Agricultural Research. The two technologies have been commercialized by the ICAR-CIFRI in March, 2018.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Virtual Training Programme on "Sampling Techniques for Fish Catch Estimation in Inland Open Water Bodies for State Government Officials" organized

6<sup>th</sup> July, 2021, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized a *Virtual Training Programme on "Sampling Techniques for Fish Catch Estimation in Inland Open Water Bodies for State Government Officials"* today.



In his address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore & Course Director stressed on the need of such training programmes. He also outlined about devising a single platform for documenting the fish catch estimation developing Online Apps for greater visibility. In his Lecture on "*Overview of inland open water fisheries and fish catch pattern*", Dr. Das emphasized on Cost Benefit Analysis and importance of preventing germplasm depletion.

The training programme was aimed at exploring the concepts of sampling techniques & its applications and familiarizing data collection & catch estimation methods.

Around 125 participants participated in the training programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### ICAR-CIFRI signs Technology Transfer License Agreement of "ICAR-CIFRI ARGCURE" with Glaucus Agrochem Pvt. Ltd.

7<sup>th</sup> July, 2021, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata signed the *Technology Transfer License Agreement* of "ICAR-CIFRI ARGCURE" with the Glaucus Agrochem Pvt. Ltd. today.

The Chief Guest, Dr. Joykrushna Jena, Deputy Director General (Fisheries Science), ICAR stated that the ICAR-CIFRI ARGCURE will surely provide respite from the parasitic outbreak in the inland fisheries and aquaculture. Dr. Jena also stressed on safety issues, keeping the condition of the formulation.



Dr. B.P. Mohanty, ADG (Inland Fisheries), ICAR accentuated that the technology developed through nano-formulation is effective in Argulus control.

Dr. Sudha Mysore, C.E.O., Agrinnovate India Ltd, also virtually participated in the event.

Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore and Shri Sariful Islam, Managing Director, Glaucus Agrochem Pvt. Ltd., Kolkata signed the agreement on the behalf of their respective organizations.

Dr. B.K. Das, Director, ICAR-CIFRI briefed about the revolutionary technology "ICAR-CIFRI ARGCURE" used for controlling the Argulus parasite. Dr. Das emphasized that after the three successful commercialized technologies namely - ICAR-CIFRI GI CAGE, ICAR-CIFRI PEN HDPE and ICAR-CIFRI Cagegrow Fish Feed, this is the fourth technology that is going to be commercialized by the Institute.

Shri Sariful Islam hoped that the partnership with the ICAR-CIFRI will strive and continue in future.

As per the Technology Commercialization Guidelines of the Indian Council of Agriculture Research, the commercialization of ICAR-CIFRI ARGCURE Technology has been facilitated by the Agrinnovate India Ltd. (a Government of India Enterprises).

#### CIFRI ARGCURE

The ICAR-CIFRI has developed an innovative product - ICAR-CIFRI ARGCURE using polymeric nanomicelle approach. The experimental results show that the technology is effective in controlling the fish parasite *Argulus bengalensis* at a low dose as compared to the conventional formulations.

The technology's application results in the disruption of the hatching process of the parasite. The field evaluations depicted that it performed well in the field conditions and retained the water bodies' parasite-free for longer time duration.

The present innovation is directed towards better performance of anti-parasitic molecules against fish parasites through nano-technological interventions and to improve food and environment safety through lowering the anti-parasite application dose.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### Dr. S. Ayyappan, Former Secretary (DARE) & DG (ICAR) delivers First ICAR-CIFRI Platinum Jubilee Lecture @Bharat Ka Amrut Mahotsav

3<sup>rd</sup> August, 2021, Barrackpore

To celebrate its 75<sup>th</sup> Year of Platinum Jubilee, the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata has organized a Series of Lectures by the Eminent Personalities.

The First Lecture of the Platinum Jubilee Lecture Series was delivered by Dr. S. Ayyappan, Former Secretary (DARE) & Director General (ICAR) today.

In his lecture, Dr. Ayyappan outlined the Institute's journey and its vision of reaching the new horizons in the Inland Fisheries Sector. The potential areas that the Institute has the scope of expanding in both in terms of reach and further progress was also emphasized in Dr. Ayyappan's lecture. He accentuated on the Vision - 2030 and 2050 that aims to increase the production and the fish farmers' income. The fusion of technologies, innovation and Start-Up in fisheries sector, COVID-19 and its impact on fisheries and aquaculture, PMMSY components, key targets and schemes related to inland fisheries were also stressed in his lecture. Dr. Ayyappan applauded the Institute for bagging the prestigious Sardar Patel Best ICAR Institution Award - 2020 and Rafi Ahmed Kidwai Award.



Dr. Joykrushna Jena, Deputy Director General (Fisheries Science), ICAR accentuated on the importance of the sector in the present days.

Dr. A. Eknath, Former DG, NACA; Dr. M.V. Gupta, Former ADG, World Fish & World Food Laureate and Dr. Dilip Kumar, Former Vice-Chancellor & Director, ICAR-Central Institute of Fisheries Education, Mumbai, Maharashtra also marked their presence during the event.

Earlier, in his welcome address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore briefed about the Institute's journey.

The senior officials of ICAR Headquarters and Institutes also participated in the event.

The programme was also organized as a part of the "Bharat Ka Amrut Mahotsav" to commemorate 75 Years of India's Independence.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### ICAR-CIFRI organizes National Campaign on "System Diversification in Aquaculture" @Bharat Ka Amrut Mahotsav

1<sup>st</sup> September, 2021, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized a Webinar on "Enclosure Culture for Fish Production enhancement in Inland Open Waters" today.



In his inaugural address during the Webinar, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore briefed about the Institute's works and achievements in system diversification by the adoption of Enclosure Culture through the culture based fisheries in reservoirs and wetlands. The scope for increasing the fish production through seed rearing and table fish production by reducing the pressure on land-based fish farms by the Enclosure Culture (Cage and Pen) of Fish in Reservoirs and Wetlands was emphasized in the Director's address.

The Webinar registered participation by more than 200 participants including Entrepreneurs and Progressive Farmers.

The ICAR-CIFRI, Regional Centre, Guwahati, Assam organized an Awareness Programme on "Enclosure Culture for Beels of Assam" at Ghorajan Beel, Kamrup Rural District, Assam. The Centre also organized the Fishers' Scientific Interaction on the occasion.

About 50 wetland fishers participated in the Awareness Programme.

The Awareness Programme organized at the ICAR-CIFRI, Regional Centre, Kochi at Kanjirapuzha Reservoir, Kerala registered participation by about 50 Tribal Fishers.

The programmes were organized as a part of the National Campaign on "System Diversification in Aquaculture" under the "Bharat Ka Amrut Mahotsav" to commemorate 75 Years of India's Independence.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



### Successful Adoption of Culture Based Fisheries and Pen Culture Technologies enhanced Tribal Fishers' income in Bamuni Beel, Assam

The ICAR-Central Inland Fisheries Research Institute, Regional Centre, Guwahati, Assam developed the protocols for the Culture Based Fisheries (CBF) and Pen Culture Technology for the Floodplain Wetlands (Beels) of North-East India. As a part of the outreach activities initiated by the ICAR-CIFRI under the North-Eastern Hills Component, the Institute demonstrated culture-based fisheries (CBF) and pen culture in Bamuni Beel (N 26° 15' 51" and E 91° 45' 50"), Kamrup Rural District, Assam.



The Bamuni Beel, a closed Floodplain Wetland of the Lower Brahmaputra Valley, is a Small Beel having 16 ha water spread area and roughly oval in shape. The water depth in the beel is 2.5 M to 3.7 M in Monsoon which gets reduced to 1.5 M to 2.5 M during winter making it suitable for both pen culture and CBF.

The livelihood of 65 Bodo Tribal Households of Samunigaon Village under the Beers Development Block depends on the Beel. Prior to 2006-07, the Beel supported purely capture fisheries and was annually leased to private parties for quite low amounts (Rs. 15,000 to Rs. 20,000/- per Month).



Little or no supplementary stocking was practiced in the Beel, resulting in low fish production (approximately 6.29 Tonne) and modest net annual income to the community members (@ Rs. 17,692 per Household) during 2019-20.

The Beel was selected to demonstrate CBF and Pen Culture through the community participation to enhance the income of the local tribal fisher families.

The programme was executed by ICAR-CIFRI, Regional Centre, Guwahati after conducting Awareness Programmes followed by Supplementary Fish Seed Stocking Programme in the Beel on 15<sup>th</sup> October, 2020 and Pen Culture using CIFRI-HDPE pens on 23<sup>rd</sup> February, 2021. The Institute stocked a total of 45,000 advanced fish fingerlings (@ 3,000 per ha, comprising of Indian major carps, minor carps and exotic carps in the Beel for CBF in consultation with the local community).

The CIFRI Pen HDPE (3,000 m<sup>2</sup> area) installed in the Beel was stocked with carp fingerlings (@ 3 to 9 per m<sup>2</sup>) and fed with CIFRI-Cagedrow floating feed (28% crude protein) for production of table fish as an additional income.

The fishes were reared for a period of 6 Months in the pens. The bigger sized fishes were harvested on 7<sup>th</sup> September, 2021 and smaller fishes were released in the Beel proper. The major harvest of fishes from the Beel was done during 12<sup>th</sup> to 13<sup>th</sup> January, 2022 and sold on the occasion of Magh Bihu (Assamese Community's Festival) to get a good price (average Rs. 230 per kg). A total of 13.32 Tonnes of fishes were harvested and sold from the Beel during 2021-22 (III data).

All the 65 Bodo tribal fisher families of the Village received an annual net income of Rs. 44,763 per family. The successful adoption of CBF and pen culture, thus, led to 117% increase in the total fish production and 153% increase in net income of the local tribal fishers compared to 2019-20.

The CIFRI Pen HDPE and CIFRI CAGEDROW are the registered trademarks in the name of Indian Council of Agricultural Research.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### Deputy Director General (Fisheries Science), ICAR visits Flood Driven - Moyna Fish Hub

Dr. Joykrushna Jena, Deputy Director General (Fisheries Science), ICAR visited the flood affected Moyna Fisheries Hub, Moyna, Purba Medinipur today. Around 8,000 ha of depressed lands including 6,000 ha of such lands in 7 Blocks of surroundings have been brought under the intensive fish culture providing the livelihood support to more than 5 Lakhs people directly or indirectly.



Dr. Jena was accompanied by Dr. B.K. Das, Director, ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata along with the Scientists of ICAR-CIFA & ICAR-CIFRI.

During his visit, Dr. Jena was apprised about the constraints faced by the fishers of Moyna In his interaction with the fishers during the *Aquafarmer's Interactive Meet*, Dr. Jena stressed on strengthening the knowledge & skill upgradation of fishers through the ICAR Fisheries Research Institutes like ICAR-CIFRI, ICAR-CIFA & ICAR-CIFT.

In his address, Dr. Das urged the stakeholders to get trained with the modern knowledge of fish culture at ICAR-CIFRI.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Awareness Campaign on "Hilsa and Dolphin Conservation in River Ganga" organized

20<sup>th</sup> September, 2021, Farakka, West Bengal

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized the Awareness Programme on "Hilsa and Dolphin Conservation in River Ganga" at Farakka, West Bengal today.

Shri R. Azhagesan, General Manager, Farakka Barrage Authority, West Bengal advised the fishermen not to use small size mesh net for Hilsa catching. The legal issues involved in destructive fishing like poisoning were also emphasized in Shri Azhagesan's address.



Shri Vineet Pande, Assistant Director, Inland Waterways Authority of India, Ministry of Ports, Shipping and Waterways, Government of India expressed his concern on the decreasing Hilsa population and pollution of the River Ganga.

Earlier, in his welcome address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore highlighted the recent activities on Hilsa Improvement Programme in the River Ganga at Farakka carried out by the Institute. The new initiatives for Dolphin Conservation were also underlined by Dr. Das. Outlining the Prime Minister's Flagship Programme on "Project Dolphin in River Ganga", Dr. Das urged the fishermen communities to stop killing the Dolphins and Juvenile Hilsa which is the major cause of declining in the Downstream of the Farakka Barrage.

The programme organized under the National Mission for Clean Ganga Programme was aimed at educating the fishermen towards Hilsa and Dolphin Conservation in the River Ganga particularly, at the Farakka and Cleaning of the River Ganga.

Around 216 Fishermen from the Upstream and Downstream Farakka Barrage and Feeder Canal directly involved in fisheries activities in the River Ganga participated in the programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Stakeholder's Meeting for Sustainable Management of Fisheries @Bharat Ka Amrut Mahotsav

22<sup>nd</sup> September, 2021, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized a "Stakeholder's Meeting for Sustainable Management of Fisheries" today.



In his address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, encouraged the stakeholders for coming forward with the Institute's support for improving the fisheries activities to ensure their livelihood security in a sustainable way.

The Women Beneficiaries from Sriniketan, Birbhum District of West Bengal and Beneficiaries from Sagar Island, Gosaba and Palot Ghat of Sundarban, West Bengal shared their success in achieving the greater production and profit from fisheries activities during the occasion.

The main objective of the Meeting was to deliberate with the stakeholders on the prospects and benefits under the Scheduled Tribe Component for their greater involvement in the fisheries activities and harness maximum productivity & profitability.

The Meeting organized as a part of the "Bharat Ka Amrut Mahotsav" to commemorate 75 Years of India's Independence registered participation by 76 Stakeholders (57 Women and 19 Male) from West Bengal, Jharkhand, Odisha, Gujarat and Kerala.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### ICAR-CIFRI celebrates "World Rivers Day"

26<sup>th</sup> September, 2021, West Bengal

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata celebrated the "World Rivers Day" in river Ganga at Farakka, West Bengal today.



The ICAR-CIFRI in association with the National Mission for Clean Ganga (NMCG), Ministry of Jal Shakti, Government of India celebrated the day with a special focus on *Dolphin Conservation* under the *Prime Minister's Flagship Programme on Project Dolphin*.

Around 78 Adult Hilsa of average weight 250 Gms. were ranched at the upstream of the Farakka Barrage. The fishermen were provided with the posters and leaflets on Dolphin and Hilsa Conservation.

The Institute's Staff Members underlined the impact of domestic and industrial sewage on the aquatic ecosystem and their impact on the aquatic biodiversity.

The programme was aimed at educating and creating awareness among the fishermen and public to keep the rivers clean and to conserving the aquatic biodiversity.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Dr. Trilochan Mohapatra inaugurates Multi-facility Training Complex and ICPMS Facility at ICAR-CIFRI

6<sup>th</sup> October, 2021, Barrackpore

"More technologies must be developed for effective data generation for systematic and scientific management of pollution and biodiversity of the riverine, reservoir and wetland systems", said Dr. Trilochan Mohapatra, Secretary (DARE) & Director General (ICAR). Dr. Mohapatra was delivering the address during his visit to the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata today.

On his visit, the Director General released 75,000 Fingerlings of Indian Major Carps during the River Ranching of Ganga River at Gandhi Ghat Barrackpore under the Namami Gange Programme. Around 50 Catla Fishes were tagged and released to study the migration and take conservation measures.



Dr. Mohapatra launched the Drone Facility for the sampling of water bodies as a part of use of Internet of Things in fisheries. The Facility will be used to take the water samples for analysis from open water bodies. The DG also inaugurated the Multi-facility Training Complex, ICPMS Facility and laid the Foundation Stone of 2<sup>nd</sup> Floor of the Main Building at the Institute.



In his address, Dr. Joykrushna Jena, Deputy Director General (Fisheries Science), ICAR urged for enhancing the production from the Inland Sector more by the effective utilization of the vast wetland & reservoir resources to benefit a large number of fish farmers.

Earlier, in his welcome address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore briefed about the Institute's activities and achievements. Dr. Das also underlined the commercialisation of four technologies by the Institute during the last five Years.

Dr. Anil Rai, ADG (ICT), ICAR along with the other Senior Officials of ICAR Institutes and State Agricultural Universities were also present on the occasion.

The dignitaries also released One Book "Fish Mapping of River Ganga: A GIS perspective" and One New Technology "FishTanavhari" during the occasion.

More than 100 farmers and farm women participated in the event.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### DDG (Fisheries Science), ICAR visits Digha Regional Centre of ICAR-CMFRI

7<sup>th</sup> October, 2021, Kochi

Dr. Joykrushna Jena, Deputy Director General (Fisheries Science), ICAR visited the Digha Regional Centre of ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala today.



During his interaction with the Institute's Scientists and Staff Members, Dr. Jena emphasized on a range of research activities like value-chain marketing of the Marine catch and their socio-economic status, exploring the Marine Cage Culture of important food fishes and collaboration with the ICAR-CIFRI on biology and stock status of Hilsa shad from the Marine environment.

The DDG also released three Monographs titled "*Sciaenidae Fishes of North-East Coast of India*", "*Elasmobranch Species of the North-East Coast of India - I*" and "*Elasmobranch Species of the North-East Coast of India - II*" during the occasion.

(Source: ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala)





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### ICAR-CIFRI, Barrackpore inks MoU with Directorate of Fisheries, Government of Odisha

29<sup>th</sup> October, 2021, Barrackpore

A Memorandum of Understanding was signed between the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata and the Directorate of Fisheries, Government of Odisha for the Consultancy Assignment on "Environmental and Aquatic Animal Health Monitoring in Hirakud Reservoir under Cage Culture Programme" here today.



Dr. Basanta Kumar Das, Director, ICAR-CIFRI, Barrackpore and Shri S.R. Pradhan, I.A.S., Director, Directorate of Fisheries, Government of Odisha signed the MoU on the behalf of their respective organizations.

Shri Devananda Bhanja, Additional Director; Shri Sashi Acharya, Joint Director and Shri Prasanta Panigrahi, ADF, Inland Fisheries, Directorate of Fisheries, Government of Odisha and along with the Staff Members of ICAR-CIFRI, Barrackpore were also present during the occasion.

The Consultancy Assignment is of 5 Years duration with the Project outcome of the environmental and ecological quality indicators for cage culture and Fish Disease Surveillance and Monitoring in the Hirakud Reservoir.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### National Campaign on "Climate-Resilient Inland Fisheries" @Bharat Ka Amrut Mahotsav

29<sup>th</sup> October, 2021, West Bengal

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata initiated a *National Campaign on "Climate-Resilient Inland Fisheries"* under the NICRA Project at Media Wetland, West Bengal today.

In his address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore briefed about the main objective of the Campaign.



Dr. U.K. Sarkar, Principal Investigator, NICRA Project & HoD, RWFD, ICAR-CIFRI, Barrackpore outlined the impact of climate change and stressed on the need for the climate-resilient inland fisheries.

The various issues and challenges faced by the stakeholders were discussed in the Scientists'-Fishers' Interaction Session held during the occasion.

More than 30 fishers including the Office Bearers of the Primary Fishermen Cooperative Society participated in the Campaign organized as a part of the "Bharat Ka Amrut Mahotsav" to commemorate 75 Years of India's Independence.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Doubling the Income of Cyclone-affected SC and ST Farmers of Gangasagar

10<sup>th</sup> November, 2021, Sundarbans

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata provided a helping hand for the Cyclone-trodden Fishers of the Sagar Island, Sundarbans.



As a gesture of concern, the Institute organized a programme to distribute the essential inputs like fish seed, lime, feed and medicine to a large group of Scheduled Caste and Scheduled Tribe beneficiaries (350 numbers) of Sagar Island. The programme was organized at the two places - Jibontala (150 Beneficiaries) and Krishnanagar (200 Beneficiaries) covering the beneficiaries of 14 Villages and 5 Gram Panchayats of Gangasagar today.

The fishers were provided with the inputs like 36 Tonnes of fish feed, around 100 Lakh fish seed and 350 Medicines (200 ml for fish).

Shri Bankim Hazra, Minister of Sundarbans Affairs & Development, Government of West Bengal marked his presence as the Chief Guest of the occasion.

In his address, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata apprised the Minister about the Institute's initiatives and strategy for the development and welfare of Gangasagar Fish Farmers. Dr. Das urged for doubling the farmers' income by the scientific fish farming and proper utilization of inputs from the ICAR-CIFRI through the Scheduled Caste Sub Plan / STC Programme.

Smt. Namita Hazra, Panchayat Pradhan, Rudranagar, Sagar applauded the Institute's efforts. She also urged the farmers for utilizing their resources and the Institute's support for enhancing their income.

The programme was organized by the Swami Vivekananda Youth and Cultural Society, Sagar and the Staff Members of ICAR-CIFRI, Barrackpore, Kolkata.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### National Awareness Campaign on "Climate-Resilient Inland Fisheries and Promotion of Climate-Resilient Fish Species in Chand Wetland, West Bengal" organized

4<sup>th</sup> December, 2021, West Bengal

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized a *National Campaign on "Climate-Resilient Inland Fisheries and Promotion of Climate-Resilient Fish Species in Chand Wetland, West Bengal"* at the Chand Wetland, Tehatta, Nadia, West Bengal today.



Shri Tapas Saha, MLA, Tehatta, Nadia, West Bengal applauded the Institute's initiative for development of the SC Community through the Climate Smart Fisheries.



Dr. Uttam Kumar Sarkar, Principal Investigator, NICRA & HoD, Reservoir and Wetland Fisheries Division, ICAR-CIFRI, Barrackpore highlighted the various issues and innovative adaptation strategies for managing the fisheries of the Floodplain Wetland in the context of climate change. He also stressed on the need for the Wetland's conservation.

The Campaign was aimed at creating the public awareness on the Climate Smart Fisheries Management of Wetlands in the changing climate scenario under the NICRA Project.

A total of 45 Fishers of Chand Wetland participated in the Campaign.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Scientists'-Women SHG Group Members'-Interface Meet organized

7<sup>th</sup> December, 2021, Birbhum, West Bengal

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized the "Scientists'-Women Self-Help Group Members'-Interface Meet" at Rathindra Krishi Vigyan Kendra, Sriniketan, Birbhum, West Bengal today.



The Meet was organized in collaboration with the Rathindra Krishi Vigyan Kendra, Visva Bharati, Shanti Niketan.

Delivering the inaugural address, the Chief Guest, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore emphasized on the advantages of Inland Fisheries for nutrition and income. The sustainability of the livelihood improvement programmes conducted through the ICAR Schemes at the field level was also outlined by Dr. Das.

The Meeting aimed at sensitizing the participants about the Inland Fisheries Management for livelihood and nutritional security registered participation by a total of 152 beneficiaries of the Scheduled Caste and Scheduled Tribe Community from 16 Self-Help Groups of Birbhum District.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### Union Minister of State of Jal Shakti and Tribal Affairs inaugurates ICAR-CIFRI Pen Culture-cum-Reservoir Fisheries Enhancement Programme

11<sup>th</sup> December 2021, Odisha

"The Department of Fisheries, Government of Odisha and the fishers should join hands with the ICAR-CIFRI, Barrackpore for the holistic development of the Reservoirs in Odisha", said Shri Bishweswar Tudu, Union Minister of State for Jal Shakti and Tribal Affairs. Shri Tudu inaugurated the ICAR-CIFRI Pen Culture Demonstration-cum-Reservoir Fisheries Enhancement Programme at Balidiha, Mayurbhanj District, Odisha today.



The Minister stressed on disseminating the benefits of the Reservoir Fisheries Development Programme to the local community.

Shri Subrata Dash, District Fisheries Officer, Mayurbhanj District, Odisha underlined the various Schemes being run by the State Government for Fisheries development.

Earlier, welcoming the dignitaries, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore briefed about the activities being carried out by the Institute in Odisha. He also urged the fishers of Balidiha Dam to work together in a participatory mode for the success of the Reservoir Fisheries Enhancement Programme.

About 250 Fishermen participated in the programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### Interactive Regional Workshop on "Open Water Fisheries Enhancement of North-East Region of India" organized

20<sup>th</sup> December, 2021, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata virtually organized an *Interactive Regional Workshop on "Open Water Fisheries Enhancement of North-East Region of India"* today.



Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata & Coordinator, NEH Project highlighted the Institute's recent interventions and activities carried out in the North-Eastern States of the country.

Earlier, in his welcome address, Dr. B.K. Bhattacharjya, Head, ICAR-CIFRI Regional Centre, Guwahati & Principal Investigator, NEH Project underlined the main objective of the *Workshop*.

The Directors of Fisheries of the North-Eastern States and their representatives from Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura underlined the status of the Inland Fisheries and expectations from the ICAR-CIFRI.

The *Workshop* aimed at apprising the Officials of the State Department of Fisheries about the Open Water Fisheries Management Guidelines and Technologies developed by the ICAR-CIFRI; understand the research support requirements and explore collaborative work programmes registered participation by 80 participants.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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## Campaign on "Climate-Smart Inland Fisheries in Coastal Wetland, West Bengal" organized

29<sup>th</sup> December, 2021, Sundarbans

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized the Campaign on "Climate-Smart Inland Fisheries in Coastal Wetland, West Bengal" at the Coastal Wetlands of Bermajur - 1 Village, Sandeshkhali - 2 Block of Sundarbans, West Bengal today.



Dr. Uttam Kumar Sarkar, Principal Investigator, NICRA & HoD, Reservoir and Wetland Fisheries Division, ICAR-CIFRI, Barrackpore highlighted the various issues and innovative adaptation strategies for managing the fisheries of the coastal wetland. The need for conservation was also stressed by Dr. Sarkar.

Shri Tapan Sardar, Gram Pradhan, Bermajur - 1, North 24 Parganas, West Bengal appreciated the Institute's initiative for the development of the Scheduled Caste Community through the climate-smart fisheries.

The Campaign aimed at sensitizing the fishers and creating awareness on the climate-smart fisheries management in the changing climate scenario registered participation by 70 Scheduled Caste Fishers including 20 women.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





The image features three concentric squares. The outermost square is a light green color. Inside it is a medium green square, and inside that is a darker green square. The text "Year 2022" is centered within the darkest square.

**Year  
2022**





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### Successful Adoption of Culture Based Fisheries and Pen Culture Technologies enhanced Tribal Fishers' income in Bamuni Beel, Assam

The ICAR-Central Inland Fisheries Research Institute, Regional Centre, Guwahati, Assam developed the protocols for the Culture Based Fisheries (CBF) and Pen Culture Technology for the Floodplain Wetlands (Beels) of North-East India. As a part of the outreach activities initiated by the ICAR-CIFRI under the North-Eastern Hills Component, the Institute demonstrated culture-based fisheries (CBF) and pen culture in Bamuni Beel (N 26° 18' 91" and E 91° 45' 60"), Kamrup Rural District, Assam.



The Bamuni Beel, a closed Floodplain Wetland of the Lower Brahmaputra Valley, is a Small Beel having 16 ha water spread area and roughly oval in shape. The water depth in the beel is 2.5 M to 3.7 M in Monsoon which gets reduced to 1.5 M to 2.5 M during winter making it suitable for both pen culture and CBF.

The livelihood of 65 Bodo Tribal Households of Bamunigaon Village under the Bezera Development Block depends on the Beel. Prior to 2006-07, the Beel supported purely capture fisheries and was annually leased to private parties for quite low amounts (Rs. 15,000 to Rs. 20,000/- per Month).



Little or no supplementary stocking was practiced in the Beel, resulting in low fish production (approximately 6.29 Tonnes) and modest net annual income to the community members (₹ Rs. 17,692 per Household) during 2019-20.

The Beel was selected to demonstrate CBF and Pen Culture through the community participation to enhance the income of the local tribal fisher families.

The programme was executed by ICAR-CIFRI, Regional Centre, Guwahati after conducting Awareness Programmes followed by Supplementary Fish Seed Stocking Programme in the Beel on 19<sup>th</sup> October, 2020 and Pen Culture using CIFRI-HDPE pens on 23<sup>rd</sup> February, 2021. The Institute stocked a total of 45,000 advanced fish fingerlings (₹ 3,000 per ha, comprising of Indian major carps, minor carps and exotic carps in the Beel for CBF in consultation with the local community).

The CIFRI Pen HDPE (3,000 m<sup>2</sup> area) installed in the Beel were stocked with carp fingerlings (₹ 3 to 9 per m<sup>2</sup>) and fed with CIFRI-CageGrow floating feed (28% crude protein) for production of table fish as an additional income.

The fishes were reared for a period of 6 Months in the pens. The bigger sized fishes were harvested on 7<sup>th</sup> September, 2021 and smaller fishes were released in the Beel proper. The major harvest of fishes from the Beel was done during 12<sup>th</sup> to 13<sup>th</sup> January, 2022 and sold on the occasion of Magh Bihu (Assamese Community's Festival) to get a good price (average Rs. 230 per Kg). A total of 13.52 Tonnes of fishes were harvested and sold from the Beel during 2021-22 (till date).

All the 65 Bodo tribal fisher families of the Village received an annual net income of Rs. 44,763 per family. The successful adoption of CBF and pen culture, thus, led to 117% increase in the total fish production and 153% increase in net income of the local tribal fishers compared to 2019-20.

The CIFRI Pen HDPE and CIFRI CAGEGROW are the registered trademarks in the name of Indian Council of Agricultural Research.

(Source) ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### ICAR-CIFRI initiates "Fishers' Field School for Ecosystem-based Integrated Wetland Management"

18<sup>th</sup> February, 2022, Nadia

To promote the ecosystem-based Integrated Wetland Management, the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata initiated the *Fishers' Field School* at Khalsi Beel, Haringhata, Nadia, West Bengal today.



It is based on the principle of Farmers' Field School Approach of FAO, which is basically a group-based adult learning approach that may enlighten the fishers, farmers and community members to solve their problems by themselves.

Around 40 women beneficiaries from the Fishermen Community were selected for the two Interactive Learning Schools.

The ICAR-CIFRI has adopted the Khalsi Beel under a DBT Societal Sector Project and Scheduled Caste Sub Plan for up-scaling the socio-economic status of the fishermen community. The Components like Pen Culture, Culture Based Fisheries, Ornamental Fish Culture, Backyard Poultry Farming, Kitchen Gardening and Mushroom Cultivation have been introduced as the cost-effective technologies for the economic empowerment of the fishermen community.

A multi-disciplinary team of Scientists from ICAR-CIFRI and Bidhan Chandra Krishi Viswavidyalaya, Nadia, West Bengal initiated the Fishers' Field School at Khalsi Beel area to encourage self-confidence and self-reliance among the community members which will lead to the livelihood improvement of the Beel dependent community.

The Institute also organized a *Training Programme* on "Empowering Women of Wetland dependent Community through Cost-effective Technologies" during the occasion.

A total of 77 Fisherwomen and 35 Fishermen participated in the Training Programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### ICAR-CIFRI initiates Production Enhancement Programme in Small Reservoirs of Chhattisgarh

26<sup>th</sup> February, 2022, Chhattisgarh

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata in collaboration with the Department of Fisheries, Government of Chhattisgarh has initiated the *Production Enhancement Programme in Small Reservoirs of Chhattisgarh* by involving the Tribal Fishermen Cooperative Societies under the Scheduled Tribe Component today.



Under this, the 2 ICAR-CIFRI Pen HDPE, Boat with Engine and 2 Tonnes of ICAR-CIFRI Cagegrow Fish Feed for Pen Culture in 10 Reservoirs will be provided for the *In-Situ* raising of the Fish Seed.

Shri N.S. Nag, Director of Fisheries, Government of Chhattisgarh; State Fisheries Department Officers (ADF, Fisheries) and the Members of 10 Tribal Primary Fishermen Co-operative Societies (PFCS) of Chhattisgarh attended the Meeting.

Earlier, welcoming the dignitaries, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata highlighted the importance of pen culture in improving the fish production levels and productivity of the inland open waters of Chhattisgarh. The carrying out of around 20 Model Pen Demonstrations in 10 different Reservoirs of Chhattisgarh with the ICAR-CIFRI's Intervention for the first time was underlined by Dr. Das. He also underlined the initiation of the similar interventions by the ICAR-CIFRI in Jharkhand where the Reservoir productivity levels have been increased. Dr. Das stated that the installation of the Pen Culture Technology will enhance an additional 200 Tonnes fish production from the reservoirs.

The Institute also organized the Virtual Meeting to discuss the plan of action with the stakeholders.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### ICAR-CIFRI celebrates 76th Foundation Day

17<sup>th</sup> March, 2022, Barrackpore

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata celebrated its 76<sup>th</sup> Foundation Day today.

Delivering his address, the Chief Guest, Swami Shri Mahadevanand Maharaj Ji, Assistant Secretary, Bharat Sevashram Sangh highlighted the importance of the Integrated Fish Farming Technology. He also urged for disseminating the innovation and invention to the common people.



The Guest of Honor, Shri Rajiv Kumar, General Manager, Metal and Steel Factory, Ministry of Defence, Government of India stated that the technology developed by the Institute has revolutionized the fisheries and aquaculture sectors.

Dr. Gaurange Kar, Director, ICAR-Central Research Institute for Jute and Allied Fibres, Barrackpore, Kolkata stressed on increasing per unit water productivity and decreasing water footprints in the agricultural activities.

Prof. S.K. Sanyal, Former Vice-Chancellor, Bidhan Chandra Krishi Viswavidyalaya, Kalyani, West Bengal accentuated on the Institute's efforts even during the difficult period affected by the COVID-19 Pandemic.

Dr. A.P. Sharma, Former Director, ICAR-CIFRI, Barrackpore emphasized on the Institute's role in serving the nation since independence and providing the backbone of the aquaculture and inland fisheries revolution in the country.

Earlier, welcoming the dignitaries, Dr. B.K. Das, Director CIFRI, Barrackpore underlined the pioneer role played by the Institute in ushering the Fisheries and Aquaculture Revolution in the country through its research and technology developments. This has **enabled the country in enhancing the production of fish by 12 times**, since 1950-51, thus making a visible impact on the national food and nutritional security.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### Indian Fisheries Outlook 2022 "Priming Indian Fisheries in Attaining Sustainable Development Goals" Conference organized

22 - 24 March, 2022

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata in collaboration with the Inland Fisheries Society of India and Professional Fisheries Graduate Forum (PFGF), Mumbai, Maharashtra has organized the *Indian Fisheries Outlook - 2022 "Priming Indian Fisheries in Attaining Sustainable Development Goals" Conference* from 22<sup>nd</sup> to 24<sup>th</sup> March, 2022.



Delivering the Inaugural address, Shri Bankim Chandra Hazra, Minister of Sundarban Affairs and Development, Government of West Bengal highlighted the important role played by the Fisheries Sector in the economic development of West Bengal and India.

The Chief Guest, Dr. Joykrushna Jena, Deputy Director General (Fisheries Science), ICAR emphasized on the fisheries sector's importance in the Indian agricultural and rural economy. He highlighted the SDG Goals for fisheries and aquaculture sector. Dr. Jena underlined more than 65% contribution of the Inland Fisheries and Aquaculture in the fisheries basket of the country.

The Guest of Honor, Swami Suparnanada Maharaaj, Honorary Secretary, Ramakrishna Mission Institute of Culture, Kolkata delivered the 4<sup>th</sup> P.C. Thomas Lecture on "Civilization, Culture, Science and Religion". In his lecture, the various thoughts of civilizations, science and religion were discussed. He also emphasized that the Science and Culture are the two shades, while Science and Religion are the two opposite poles.

The Guest of Honor, Dr. Riji John, Vice-Chancellor, Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi, Kerala underlined the fisheries sector's importance in the country. He stressed that Fish is now not only recognized as a cheap protein but, also as healthier food.

Dr. B.B. Nayak, General Secretary, PFGF, Mumbai briefed about the Conference's Theme and its main objective.

Earlier, welcoming the dignitaries, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore & President, PFGF, Mumbai stressed that this conference will deal with the important fisheries and aquaculture related topics.

More than 500 Researchers, Academicians, Scientists, Students, Representatives of Industries and 100 Farmers of West Bengal participated in the Conference.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### ICAR-CIFRI organizes High Value Fish Seed Stocking in CRPS and On-Field Fishers' Sensitization Programme

4 - 5 May, 2022

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata organized the *On-Field Fisher's Sensitization Programme* on "Adaptation Strategies for Wetland Fisheries in Changing Land Use and Enviro-climatic Condition" at Fatepur, Chand Wetland in Nadia District and Katiganga & Benderaha Wetland, Murshidabad District, West Bengal from 4<sup>th</sup> to 5<sup>th</sup> May, 2022. The Programme was organized under the NICRA Project.



Around 8 CIFRI HDPE Pen (0.1 Ha each) were installed in 4 Wetlands of Nadia and Murshidabad Districts. The *On-Field Demonstration Programme on Climate Smart Wetland Fisheries* will be executed in a participatory mode and aims to enhance the adaptive capacity of the fishers in the context of changing climate and revive the declining small indigenous fish species in the floodplain wetlands.



Altogether, 186 Kgs *Labeo bata* and *Puntius sarana* seeds were stocked in 8 Pens and 13 Tonnes of CIFRI CageGrow Feed was distributed during the programme.

A total of 100 Fishers, NICRA Project Staff Members and Officials of the Department of Fisheries, Government of West Bengal participated in the programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### ICAR-CIFRI, Barrackpore organizes Mega Ranching Programme of the State Fish of Manipur (Pengba) in Loktak Lake (Ramsar Site)

11<sup>th</sup> May, 2022, Loktak Lake

Shri N. Biren Singh, Chief Minister, Government of Manipur inaugurated the *Mega Ranching Programme of Pengba*, the State Fish of Manipur in the largest Freshwater Lake, Loktak Lake - A Ramsar Site organized by the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata here today.



Shri Singh urged the citizens of the State to save Loktak Lake by stopping the encroachment, electric fishing and use of small meshed nets for fishing. He released one Poster on the List of Fishes in the Loktak Lake, 3 Leaflets providing information on the Management of the Open Water Bodies and Pengba Ranching for Sustainable Fisheries in Loktak Lake with Manipuri translation. The Chief Minister also distributed the Inputs like 10 Tonnes CIFRI CageGrow Floating Feeds to 4 Cooperative Societies, 10 Cage Nets and 10 CIFRI HDPE pens among 150 beneficiaries during the occasion.

Shri H. Dingo Singh, Minister (Fisheries), Government of Manipur suggested the fishers to carry out responsible fishing for the sustainable use of the lake.

Shri T. Robindro, MLA, Thanga A/C; Shri K. Robindro, MLA, Mayang Imphal A/C; Shri L. Rameshwar Singh, MLA, Keirao A/C; Shri Th. Shanti Singh, MLA, Moirang A/C and Shri H. Balkrishna Singh, Director of Fisheries, Government of Manipur were also present on the occasion.

Shri M. Asnikumar Singh, Chairman, Loktak Development Authority, Loktak, Manipur underlined the role of LDA in conserving the ecology of the Loktak Lake.

Earlier welcoming the dignitaries, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata highlighted the importance of Pengba Ranching in the Lake. He also apprised the participants about the ICAR-CIFRI's intervention in the State.

Around 1 Lakhs Fingerlings of Pengba were released in the Loktak Lake from Two sites - Sendra and Karang Island in Bishnupur District, Manipur.

The programme registered participation by the Representatives from LDA, Manipur; ICAR, Research Complex for North-Eastern Hill Region, Imphal Centre; Krishi Vigyan Kendra, Imphal West; Fisheries Students; Fisheries Entrepreneurs; Stakeholders and 150 Fishers.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)





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### Pen Culture Demonstration-cum-Awareness Programme organized at Taurenga, Gariabad, Chhattisgarh

13<sup>th</sup> May, 2022, Chhattisgarh

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata in collaboration with the Department of Fisheries, Government of Chhattisgarh organized the "Pen Culture Demonstration Programme" at Taurenga Reservoir today.



The programme was aimed at raising the *In-Situ* Fingerling in the Pen for enhancing the production of the Reservoir in a cost-effective manner.



Dr. B.K Das, Director, ICAR-CIFRI, Barrackpore and Shri N.S. Nag, Director of Fisheries, Department of Fisheries, Government of Chhattisgarh released the Fish Seeds in Pen installed in the Reservoir.

Dr. Das highlighted the importance of Pen Culture for fish production enhancement in the Reservoirs. Value of fish for livelihood and nutritional security was also underlined by Dr. Das.

Shri Nag apprised the tribal fishers about the Pen Culture Intervention as a tool to raise the *In-Situ* fish seed in the Reservoir which will not only improve the Reservoir's production; but, also reduce the production cost. It subsequently, will improve the fishers' livelihood.

A total of 56 Tribal Beneficiaries participated in the event.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### DG, National Mission for Clean Ganga inaugurates "National Ranching Programme"

14<sup>th</sup> May, 2022, Barrackpore

Shri G. Ashok Kumar, I.A.S., Director General, National Mission for Clean Ganga, Ministry of Jal Shakti, Government of India inaugurated the *National Ranching Programme* launched by the ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata here today.



The ICAR-CIFRI, Barrackpore launched the *Programme* by releasing 2 Lakhs Wild Fish Germplasm of IMC (*Labeo rohita*, *Labeo catla* and *Cirrhinus mrigala*) in the Ganga River at Gandhi Ghat, Barrackpore, West Bengal.

In his inaugural address, Shri Kumar stated that through the Arth-Ganga Initiative, the National Mission for Clean Ganga is not only trying to save the endangered species of fishes; but, also increasing the population of the native fishes to ensure sustained livelihood for the fishermen community. The importance of conservation & ranching and its impacts on the socio-economic development of the fishers of the Ganga River was highlighted by Shri Kumar.

Dr. B.K. Das, Director, ICAR- CIFRI, Barrackpore underlined the releasing of 20 Lakhs Wild Fish Germplasm of IMC under the *Programme* at 10 locations all along the Ganga River in Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal. During the *Mass Awareness Campaign* on "Hilsa and Dolphin Conservation" organized as a part of the *Programme*, Dr. Das sensitized the fishermen and made them aware about the significance of conserving the Gangetic Fishes including prized Hilsa.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### World Environment Day - 2022 celebrated

5<sup>th</sup> June, 2022

The "World Environment Day - 2022" is the biggest International Day for the environment. Led by the United Nations Environment Programme (U.N.E.P.) and held annually on 5<sup>th</sup> June since 1973, it has grown to be the largest global platform for environmental outreach. It is celebrated by millions of people across the world.

Contributing their bit towards ensuring a healthy environment, the ICAR Institutes celebrated the day with full zeal.

#### ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata

The Institute organized a *Plantation Programme* to celebrate the day.



Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore along with the other Senior Officials of the Institute planted the Plants like Amla (*Phyllanthus emblica*), Jamun (*Syzygium cumini*), Sabeda (*Manilkara zapota*) and Rudrakhsh (*Elaeocarpus ganitrus*), etc., during the occasion.

The Institute also held an *Awareness-cum-Sensitization Programme* at Sheoraphuli Ghat, Ganga River, Barrackpore to sensitize the general public about the importance of conserving and protecting the environment.





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### Awareness Programme on "Protection of Plant Varieties, Farmers' Rights and other IPR Issues" organized

18<sup>th</sup> June, 2022, Sundarbans

The ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata in collaboration with the Ramkrishna Ashram Krishi Vigyan Kendra, District South 24-Parganas, West Bengal organized the one-day Awareness Programme on "Protection of Plant Varieties, Farmers' Rights and other IPR Issues" at Nimpith Ashram, Sundarbans, West Bengal here today.



The Chief Guest, Swami Shri Sadanand Ji Maharaj, Secretary, Ramkrishna Ashram, Nimpith underlined the important role played by the agriculture technology in improving the livelihood of the people. He also commended the ICAR-CIFRI for its livelihood enhancement work carried out in the Sundarban Region.

The Guest of Honor, Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore, Kolkata highlighted the Gobindbhog Rice that has got the tag of Geographical Indicator. Delivering a Lecture on "Biodiversity Act and Conservation of Biodiversity", Dr. Das regarded the Sundarbans Region as a hotspot of biodiversity that supports the livelihood of a large population.

Dr. Chandan Kumar Mondal, Head, Krishi Vigyan Kendra, Nimpith outlined the KVK's role in helping the farmers to register their varieties.

Earlier, welcoming the dignitaries, Dr. A.K. Das, In-charge (Extension and Training Cell), ICAR-CIFRI, Barrackpore, Kolkata briefed about the importance of the Awareness Programme.

More than 100 participants including 70 farmers from the different parts of Sundarbans; Scientists of ICAR-CIFRI, Barrackpore; Scientists and Staff Members of RA KVK, Nimpith and AICRP on Sunflower, Nimpith participated in the programme.

(Source: ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata)



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### International Yoga Day - 2022 celebrated

21<sup>st</sup> June, 2022

To make the people aware about the health benefits of Yoga and encourage them for including it in their daily routine, the United Nations proclaimed 21<sup>st</sup> June as the "International Day of Yoga" to be observed across the globe every Year.

The ICAR Institute too observed the 8<sup>th</sup> Edition of the International Day of Yoga - 2022 on the Theme - "Yoga for Humanity".

#### ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata



The event registered participation by a total of 207 Staff Members of the Institute.



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### ICAR-CRIJAF organized Brainstorming Session on "Agricultural Water Management in West Bengal: Issues and strategies"

27th August 2022, Kolkata

Brainstorming Session on "Agricultural Water Management in West Bengal: Issues and strategies" was organized by ICAR-Central Research Institute for Jute and Allied Fibres, Barrackpore in collaboration with National Academy of Agricultural Sciences, Kolkata Chapter today.



Dr. Trilochan Mahapatra, President, NAAS, New Delhi delivered the inaugural address (online mode) highlighting the present-day concern about agricultural water management considering the climate change scenario. Dr. Mahapatra emphasized that the regional chapters must flag the regional problems and have scientific deliberation involving senior fellows, young scientists and students to frame specific guidelines for policy intervention by state Govts.

Prof. Biswapati Mandal, Convenor, NAAS Kolkata chapter delivered welcome address.

The technical session was chaired by NAAS Fellow, Dr. B.B. Jana, Former Professor, University of Kalyani. There were 06 lectures on different aspects of agricultural water management delivered by Dr. Gouranga Kar, Director, ICAR-CRIJAF, Barrackpore; Mr. Sujit Choudhury, Executive Director of PAN Network Pvt. Ltd.; Dr. Dibyendu Sarkar, Former Secretary, Department of Panchayati Raj and Self-Help Group, Govt. of West Bengal; Dr. Dhiman Barman, Head, CSSRI RRS, Canning; Dr. B.K. Das, Director, ICAR-CIFRI, Barrackpore and Dr. A.N. Chowdhury, Chemist, CGWB, Kolkata.

Based on the discussion, few recommendations on agricultural water management in West Bengal were provided for policy issues in future.

In total 52 distinguished NAAS Fellows, scientists from various ICAR institutes, universities attended the brainstorming session conducted in hybrid mode.

(Source: ICAR-Central Research Institute for Jute and Allied Fibres (CRIJAF), Barrackpore)



