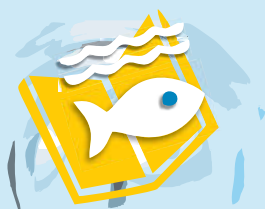




6 Extension Achievements



ICAR-CIFE



Highlights

	Nos.	Participants
Exhibitions	7	
Farmers' Meet	6	395
Visitors		2495
TSP	8	666
Maharashtra	4	205
Assam	1	293
Mizoram	1	50
Meghalaya	1	55
Jharkhand	1	63

ICAR-CIFE

EDUCATION

Post-graduate Programmes

The following programmes were offered for M.F.Sc. and Ph.D. programmes:

1. Aquaculture (AQ22)
2. Aquaculture (AQ23)
3. Aquaculture (AQ24)
4. Fish Biotechnology (FBI2)
5. Fish Genetics (FG2)
6. Fish Pathology and Biochemistry (FPIB)
7. Fish Nutrition (FNI2)
8. Fish Nutrition and Feed Technology (FNT2)
9. Fish Nutrition and Feed Technology (FNT3)
10. Fish Nutrition and Feed Technology (FNT4)
11. Fish Nutrition and Feed Technology (FNT5)

Enrollments

A total of 188 students for the M.F.Sc. and 102 students for Ph.D. programmes were admitted to various disciplines during the year 2019-2020.

Students

Discipline	Available positions	Selected	Percentage
Aquaculture	79	73	92
Aquaculture	49	44	90
Fish Processing	18	17	94
Fish Nutrition	22	22	100
Fish Health	54	36	67
Fish Genetics	23	23	100
Aquaculture	1	1	17
	2	2	15
	8	8	83

ICAR-CIFE Agricultural Research Service

Discipline	Available positions	Selected	Percentage
Aquaculture	79	73	92
Aquaculture	49	44	90
Fish Processing	18	17	94
Fish Nutrition	22	22	100
Fish Health	54	36	67
Fish Genetics	23	23	100
Aquaculture	1	1	17
	2	2	15
	8	8	83

Prestigious Fellowships availed by CIFE students

1. DST- INSPIRE
2. Rajiv Gandhi National Fellowship
3. Maulana Azad Fellowship
4. ICCAR Fellowship
5. Indian African Fellowship
6. SERF and JRF of ICAR



6.1. Tribal Sub Plan (TSP)

Programme Director: Gopal Krishna

Nodal Officers: Kiran Dube Rawat, K.A. Martin Xavier

Under the TSP component, Institute has undertaken tribal related activities for community development in Maharashtra, Jharkhand, Assam, Meghalaya and Mizoram. Total 8 training programmes were conducted from April to December 2019 and the details are given below.

1. Awareness Workshop on “Advances in Ornamental Fish Culture & Aquarium Management Techniques for Livelihood Security” at Shillong, Meghalaya.

Coordinators: Paramita Banerjee Sawant, B. K. Mahapatra



ICAR-CIFE organized an Awareness Workshop at Shillong, Meghalaya, on 27-28 April, 2019, for tribal fisherfolk of Meghalaya, in association with the Directorate of Fisheries, Meghalaya. A total of fifty-five tribal men and women participants from 11 districts were trained in various topics related to the aquarium management. Important technical details were explained and a course manual-cum-resource book as well as four pamphlets were released and distributed to the stakeholders on the occasion. They were sensitized to adopt ornamental fish culture, fabrication and setting of aquariums, water quality management in aquariums, aeration and filtration in aquariums, the role of feed and feeding habits of fishes as well as beautification of the aquarium using accessories and aquarium plants, as a vocation and as an alternative livelihood option. This was followed by a group discussion with the staff of the Directorate of Fisheries in order to take the venture forward and to help them kick start their enterprises.

2. Awareness Workshop on “Fresh water Integrated Multi Trophic Aquaculture (FIMTA) at Dimbhe Reservoir, Maharashtra”

Coordinator: Kiran Dube Rawat

The one-day Awareness Workshop was conducted on 20 September, 2019 for the fisherfolk of the Dimbhe reservoir. A group of 95 fishers from the villages in and around Dimbhe participated in the program. The people were given a brief introduction to the concept of FIMTA, its components and application. FIMTA works on the concept of integration of various components namely aquatic animals, plants, shellfish and bivalves. FIMTA can be implemented in freshwater reservoirs where cage culture is already being practiced or it can be a novel method to utilise the huge potential in the numerous reservoirs of the country. The participants were shown the ornamental aquatic plants, leafy vegetables, ornamental fishes, food fishes, mussels and prawns which were raised in the trial systems of FIMTA developed in the floating cages in Dimbhe reservoir.





3. Training programme on “Cage culture for tribal fishers of Nandurbar, Maharashtra”

Coordinator: Kiran Dube Rawat

A two-days training programme on Cage Aquaculture was organized at CIFE, Mumbai, for the fish farmers of Nandurbar district, Maharashtra from 12-13 September, 2019. A group of 18 tribal fish farmers from two villages i.e. Patibedki and Khoksa of Nandurbar district participated in the programme. A brief background about the importance of cage culture, site selection, cage structure, construction and installation of cages and species selection was covered. Fishers were shown cage structure by using cage models and a small cage was also tied and floated by them in the pond. They were learned about the water quality parameters & testing for cage aquaculture. Fish seed stocking in cages, feeding and maintenance of cages, materials required for cage construction, fish feed ingredients and feed preparation, were explained and practically demonstrated. Certificates were distributed and a manual in Marathi was also given to the Participants.

4. Awareness training programme on “Fish culture for tribal farmers of Palghar, Maharashtra”

Coordinator: Babitha Rani. A. M.

A training programme was organized for tribal farmers at Rajshri Shahu Maharaj Ashramshala, Adoshi, Khodala, Mokhada, District Palghar on 28th September 2019. This programme was conducted in association with the Energy and Resources Institute, TERI, Mumbai. A total of 61 participants from 4 villages attended the programme. The faculty interacted with farmers on various queries related to aquaculture and farmers' welfare. The participants were given a bilingual manual on Fish Farming Techniques in English and Marathi. A field visit to the nearby farm was also arranged for the participants and they had a fruitful interaction on various aspects of fish culture.



5. Awareness programme on “Sustainable Fisheries in flood-affected areas in Assam”

Nodal Officer (NEH): P. P. Shrivastava
Coordinator: Megha Bedekar

The ICAR-Central Institute of Fisheries Education, Versova, Mumbai organized an awareness programme on “Sustainable Fishery in flood-affected areas of Assam” in collaboration with the Directorate of Extension Education, Assam Agricultural University, Guwahati and Jeeva Suraksha, an NGO and the State Department of Fisheries, Assam from 27-29 September, 2019, at different districts of Assam. Under this activity four programmes were conducted at various parts of Assam in which, a series of lectures and seed distributions were given.

A) Uttar Dharmatul, Morigaon District, Assam

The awareness programme conducted on 27 September, 2019, at Uttar Dharmatul in Morigaon District which was selected as a model district by the Governor of the Assam for the agriculture sector during the post-flooded period including fisheries. Dr. Gopal Krishna, Director & Vice-Chancellor, addressed the gathering. Mr. Rituraj Bora, the Deputy Commissioner of Morigaon spoke on the laudable initiative taken by ICAR-CIFE, Mumbai and AAU, Khanapara for marginal and tribal farmers of Morigaon during the function, fish feed and fingerlings were also distributed among 100 farmers.



B) Mayong, Hatimuria

The second programme was organized on 28 September, 2019, at Mayong in Morigaon District. Dr. Atul Borgohain, Associate Director Extension, Assam Agriculture University addressed the gathering. Dr. B. K. Mahapatra, Principal Scientist delivered lecture on aquaculture to the farmers. Dr. Nalini Poojary, CTO explained about fish diseases and their control in aquaculture. During the function, fish feed and fingerlings were also distributed among the 58 farmers.



C) Tribal Village Baska, Dist. Baksa

The third programme was conducted on 28 September, 2019 at Baska village of Baksa District. Dr. Gopal Krishna, the Director, addressed the gathering. The program was attended by Mr. Jayant Dutta, Executive Magistrate, Baksa, Mushalpur; Mr. Rabindra Muchahary, Project Director; Dr. Gajen Baro, District Veterinary Officer and Mr. Bipul Khataniare, District Fisheries Development Officer. They appreciated the distribution of fish fingerlings for tribal farmers of Baksa. Dr. P. P. Srivastava, Principal Scientist delivered a lecture on "The need for fish feed in aquaculture". Dr. Megha Kadam Bedekar, Principal Scientist explained about the fish disease and their control in aquaculture. In the function the fingerlings and was distributed among more than 60 farmers.





D) Mandira Village, District Kamrup

The fourth programme conducted on 29 September 2019, at Mandira in Kamrup District. Dr. Atul Borgohain, Associate Director, Extension, Assam Agriculture University addressed the gathering and appreciated the initiative taken by ICAR-CIFE, Mumbai and AAU, Khanapara for tribal farmers of Kamrup. Dr. P. P. Srivastava, Principal Scientist delivered a lecture on “The need for fish feed in aquaculture”. Dr. Megha Kadam Bedekar, Principal Scientist and Dr. Nalini Poojary, CTO explained the fish disease and their control in aquaculture. Dr. B. K. Mahapatra, Principal Scientist delivered a lecture on “Aquaculture management to the farmers”. The fingerlings and fish feed were distributed among the 75 farmers.





6. Training programme on “Fabrication, Setting and Maintaining a Freshwater Aquarium” at Warungshi village, Ahmednagar, Maharashtra

Coordinator: Paramita Banerjee Sawant

A three-days training programme was conducted at Warungshi village, Taluka Akole, District Ahmednagar, Maharashtra, for tribal women during 9 – 11 December, 2019. A total of 31 women, belonging to ten Women Self Help Groups (Mahila Bachat Gat), of



Warungshi and adjoining villages participated in the training programme. They were sensitized about the opportunity of achieving economic independence through fabrication, setting and maintenance of freshwater aquariums and ornamental fish keeping. The participants gave positive feedback and showed a keen interest in setting up their own small units with the help of leading public sector financial organisations.

7. Skill Development Programme on “Modern Methods of Freshwater Aquaculture” at Mamit, Mizoram

Coordinator: G. H. Pailan, B. K. Mahapatra

The training was organized by the CIFE Kolkata Centre in collaboration with the Department of Fisheries, Government of Mizoram, Aizawl during 10-12 December 2019 at Zawlnuam Town, Mamit, Mizoram. The objective of the programme was to impart knowledge on pond preparation and management for Aquaculture, share the knowledge of feed and feeding strategies, sensitize the farmers about the importance and practical knowledge among fish farmers on analysis of water quality. About 50 tribal farmers and field level extension officials from different districts have attended the training. The practical demonstration of water quality testing was conducted using the water samples collected by fish farmers. The training manuals were distributed to all the trainees. A field visit also arranged to a feed mill located in Zawlnuam Town, Bawrai, Mamit to learn the procedure of feed preparation & mechanism of feed mill to the farmers for improving their fish productivity through feed-based aquaculture.



8. Demonstration of Farm made leaf meal based aquafeed preparation and on-farm feeding management at Jharkhand

Coordinators: Parimal Sardar, Sikendra Kumar, Dilip Kumar Singh

Two days training demonstration was organized by ICAR-CIFE, Mumbai in collaboration with State Fisheries Department, Jharkhand at District Fisheries Office, Purbi Singhbhum, Jamshedpur, Jharkhand during 27-28 December 2019. Total 63 farmers participated in the training and they were trained on pelleted feed preparation using locally available ingredients including leaf meals, feeding management and water quality testing etc.



6.2. Exhibitions Organized

Event	Date	Venue
Asian Pacific Aquaculture -2019 Conference and Trade show	19-21 June, 2019	Chennai Trade Centre, Chennai
23 rd National Agriculture Exhibition	28-31 August, 2019	Amarabati Maidan, Sodepur, Kolkata
National Symposium on "Coldwater Fisheries Development in India: Innovative Approaches and Way Forward for Enhancing Hill Farmers Income"	24-25 September, 2019	ICAR-DCFR, Bhimtal
Inland Saline Aquaculture, Environmental Challenges and Eco-friendly Technologies/ Practices	05-06 October, 2019	ICAR-CIFE, Rohtak
Fourth Pillay Aquaculture Foundation (PAF)-2019 Congress on "Increasing Aquaculture Production in India Through Synergistic Approach Between Multinational Industries, Domestic Entrepreneurs and Aqua Culturists"	17-19 November, 2019	ICAR- CIFA, Bhubaneshwar,
One Health & Ecosystem Services (OHES-2019)	29-30 November, 2019	ICAR-NBFGR, Lucknow
Smart Aqua-India 2019	13-15 December, 2019	Hotel Nest, New Digha, West Bengal





6.3. Farmers Meet organised

Event	Venue	Date	No. of farmers
National Fish Farmers' Day	ICAR-CIFE, Mumbai	10 July, 2019	75
National Fish Farmers' Day	ICAR-CIFE, Kolkata Centre	10 July, 2019	72
National Fish Farmers' Day	Balabhadrapuram ICAR-CIFE FWFF, Kakinada Centre	10 July, 2019	50
National Fish Farmers' Day	ICAR-CIFE, Rohtak Centre	10 July, 2019	75
Mera Gaon Mera Gaurav (MGMG) Programme	Narendrapur, Kolkata	23 October, 2019	50
Increasing Carp Production Through Leaf-meal Based Farm Made Feed	ICAR-CIFE Motipur Centre, Bihar	04 December, 2019	73

6.4. Fishery Advisory Services/Consultancy etc.

Technical guidance to the farmers in the states of Haryana, Punjab, Rajasthan, Delhi and U.P. on various aspects of fish and shrimp farming

Technical guidance to the women SHG groups of Maharashtra for establishing unit for value-added fishery products

6.5. Print media

Title	Date	Name of newspaper	Language
Ornamental Fish Training Center for Women	29 June, 2019	Alipore Barta	Bengali
<i>Raithulatho krutrima chepa pilla utthpathi</i>	11 July, 2019	Eenaadu	Telugu
<i>Kheti ke saath matsya ke vyavasay kare kissan</i>	06 December, 2019	Hindustan	Hindi
Roadmap needed to tackle plastic pollution in the city	23 December, 2019	Hindustan Times Mumbai Edition	English
<i>Vanaspati se taiyar hoga matsya aahar lagat hogi kam</i>	28 December, 2019	Hindustan	Hindi



6.6. Visits coordinated

Visits coordinated by ICAR-CIFE, Mumbai

Date	Organization/University/College/ Category of Visitors	No. of Visitors
02 July, 2019	Sri Venkateswara Veterinary University College of Fisheries Science, Muthukur, Andhra Pradesh	26
07 August, 2019	Gundecha International School, Oshiwara, Mumbai	50
12 August, 2019	College of Horticulture, Karnataka	14
21 August, 2019	Students from University of Horticulture Science College of Horticulture, Bagalkot	11
26 August, 2019	Students from K. K. Wagh College of Agricultural Biotechnology, Nashik, Maharashtra	72
21 October, 2019	Students from College of Fisheries, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab	12
21 November, 2019	Students from Kerala University of Fisheries and Ocean Studies, Panangad, Kerala	59
21 November, 2019	Students from Karnataka Veterinary, Animal and Fisheries Sciences University	77
22 November, 2019	Students from College of Agricultural Information Technology, Anand Agricultural University, Gujarat	35
25-26 November, 2019	Students from COF, Assam Agricultural University, Raha, Assam	24
30 November, 2019	Students from University of Agricultural Sciences, Bangalore, Karnataka	51
27 Nov -01 Dec, 2019	Students from COF, G. B. Pant University of Agriculture and Technology, Pantnagar	121
08 December, 2019	Students from Department of Fish Processing Technology, COF, Shirgaon, Ratnagiri, Maharashtra	32
13 December, 2019	Students from College of Agricultural Information Technology, Anand Agricultural University, Gujarat	35
18 December, 2019	Students from Fisheries College and Research Institute, Tamil Nadu Dr. J. Jayalalitha Fisheries University, Tamil Nadu	49
21 December, 2019	NMIMS University MBA - Environmental Management Students, Mumbai, Maharashtra	16
27-29 December, 2019	Students from Tamil Nadu Veterinary and Animal Sciences University, Veterinary College and Research Institute, Tamil Nadu	33
31 December, 2019	Students from Agricultural Engineering & Post-Harvest Technology, Gangtok, Sikkim	31



Visits coordinated by ICAR-CIFE Kolkata Centre

Date	Organization/University/College/ Category of Visitors	No. of Visitors
16 April, 2019	B.F.Sc. students from College of Fisheries, Kishanganj, BASU, Patna, Bihar	28
14 May, 2019	B.Sc. Agriculture students from Institute of Agricultural Sciences, BHU, Uttar Pradesh	18
24 May, 2019	B.F.Sc. students from College of Fisheries, Mangalore, Karnataka	41
02-06 July, 2019	Students of IFTC, Govt. of Manipur	20
13 July, 2019	B.F.Sc. Students of College of Fisheries, Muthukur, Nellore, Andhra Pradesh	26
15-20 August, 2019	Fish farmers, Department of Fisheries, Assam.	21
01 November, 2019	B.F.Sc. students from College of Fisheries, GADVASU, Ludhiana, Punjab	12
01 December, 2019	B.F.Sc. students from College of Fisheries, Ratnagiri, Maharashtra	39
05 December, 2019	Students from Fisheries College and Research Institute, Thoothukudi, Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Tamil Nadu	45
16 December, 2019	B.F.Sc. students from Dr. M.G.R Fisheries College and Research Institute, Ponneri, Tamil Nadu	56

Visits coordinated by ICAR-CIFE Rohtak Centre

Date	Organization/University/College/ Category of Visitors	No. of Visitors
25 September, 2019	Integrated B.Sc. B.Ed. students from State Institute of Advanced Studies in Teacher Education, Jhajjar, Haryana	21
31 October, 2019	Kalpna Chaula Memorial Senior Secondary School, Jhojhu Kalan, Bhiwani, Haryana	21



Visits coordinated by ICAR-CIFE Kakinada Centre

Date	Organization/University/College/ Category of Visitors	No. of Visitors
15-16, July 2019	Students from MVKR Fisheries Polytechnic College, Bhavadevarapalli, Andra Pradesh	38
30 July, 2019	Students from Green Field School, East Godavari District, Andra Pradesh	136
17 August, 2019	Students from Nova P.G. and Degree College, Jangareddy Gudem, West Godavari District, Andra Pradesh	42
27 August, 2019	Officers of Department of Fisheries, Gujarat	12
16 September, 2019	Fish Producers Organization Members, Kakinada	40
16 September, 2019	Students from VSM college, Ramachandrapuram, East Godavari District, Andra Pradesh	120
20 November, 2019	Students from Pydah Fisheries Polytechnic, Yanam Road, Kakinada, East Godavari District, Andra Pradesh	52
20 December, 2019	Students from S.V.K.P. & Dr. K. S. Raju Arts & Science college, Penugonda, West Godavari District, Andra Pradesh	37
21 December, 2019	Students from Government Degree College, Ramachandrapuram, East Godavari District, Andra Pradesh	16
30 December, 2019	Students from P.R. Degree College, Kakinada, East Godavari District, Andra Pradesh	33

Visits coordinated by ICAR-CIFE Powarkheda Centre

Date	Organization/University/College/ Category of Visitors	No. of Visitors
10 April, 2019	Students from Agriculture, Agri-Clinics and Agri-Business Centre, Chuna Bhatti, Bhopal, M.P.	20
20 May, 2019	Students from Govt. Arts, Commerce and Science College Suktawa, Hoshangabad, M.P.	23
29 May, 2019	Farmers from Giasapur block, Vidisha (ATMA Scheme), M.P.	52
04 June, 2019	Farmers from Giasapur block, Vidisha (ATMA Scheme) M.P.	80
24 June, 2019	Fishermen from Sihor, M.P.	23
01 July, 2019	Students from Agriculture, Agri Clinics and Agri Business Centre, Bhopal, M.P.	34
22 July, 2019	Fishermen from Dahod, Raisen, M.P.	22
26 July, 2019	Farmers from Nasulaganj, Dist Sihor, M.P.	30
31 August, 2019	Students from Govt. Girls College, Itarsi, M.P.	21



11 September, 2019	Students from Agriculture, Agri Clinics and Agri Business Centre, Bhopal	35
17 September, 2019	Students from TISS, Pathrota, Itarsi, M.P.	12
27 September, 2019	Students from NGO Centre for Advanced Research & Development, Bagmugalia, Bhopal	35
05 November, 2019	Students from NGO, IECCI, Raksha Towers, Chuna Bhatti, Bhopal, M.P.	21
06 November, 2019	Fishermen from Sihor (State fisheries department sponsored) M.P.	51
27 November, 2019	Students from Kanya Sikhya Parisara, Hoshangabad, M.P.	112
30 November, 2019	Fishermen from Betul, Madhya Pradesh State Fisheries Department, M.P.	69
05 December, 2019	Farmers, NABARD Managers, Manager Central Bank of India, Hoshangabad, M.P.	23
05 December, 2019	Fishermen from Bhopal, M.P.	31
05 December, 2019	Fish farmer from Raisen, M.P.	27
12 December, 2019	Students from Centre for Advanced Research & Development, Arvind Vihar, Bagmugalia, Bhopal	28
16 December, 2019	Farmers from Sihor district, Madhya Pradesh under ATMA Pariyojna Scheme	40
21 December, 2019	Students from Agriculture, Agri Clinics and Agri Business Centre Scheme, Bhopal, M.P.	54
27 December, 2019	Students from Centre for entrepreneurship development (CEDMAP), Bhopal, M.P.	30
Total		873

6.7. TV/ Radio talks delivered

Name of faculty who delivered the talk	Topic Aired on	Language	Programme
Dr. Gayatri Tripathi	Breeding, Culture & Health Management of Ornamental Fishes (https://youtu.be/iD80MYk4ULQ)	Hindi	The Public Report Channel 28 June, 2019



6.8. Technology demonstration

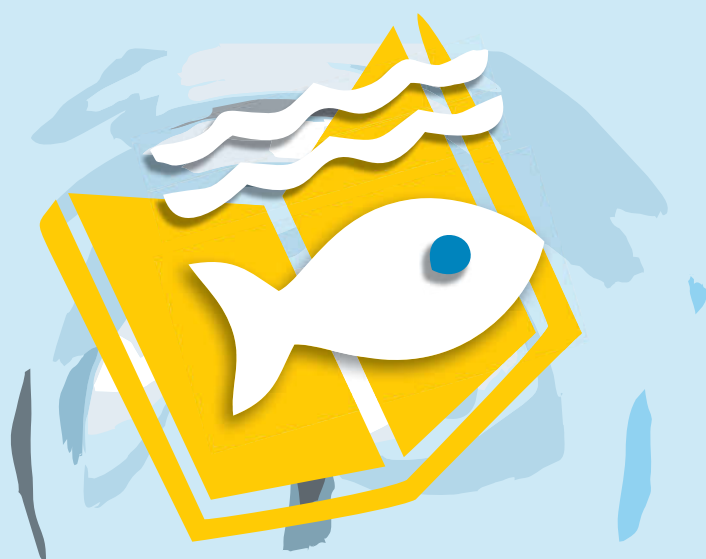
Name of the technology	: Cage culture for rearing carp fingerlings
Place of demonstration	: Nandurbar, Dimbhe
Beneficiaries	: Tribal farmers
Impact	: Fishers of Dimbhe are regularly stocking the reservoir with >100 mm carp fingerling, therefore earlier they were able to catch <1 kg fish but now they are able to catch 5 to 8 Kg of fish.
Name of the technology	: <i>L. vannamei</i> culture in salt affected Inland Saline Water
Place of demonstration	: Haryana, Punjab, Delhi, Rajasthan, Western UP region
Beneficiaries	: Farmers & stakeholders
Impact	: Intensive technology demonstrations and trainings were given to farmers in the three extensively salt-affected states of Haryana, Punjab and Rajasthan in collaboration with their respective State Fisheries Departments. In addition, continual technical guidance and monitoring of each farm by ICAR-CIFE throughout the culture period gave enough confidence to farmers and the lure of big profit resulted in widespread adoption of shrimp farming by 2019. The technology has so far been adopted by 300 farmers in Haryana, 100 in Punjab, 40 in Rajasthan and 2 in Delhi with almost 1000 acres under culture with an average productivity of 2.8 tonnes/acre and a survival rate of 70%. The wide spread adoption of the technology by farmers resulted in the huge production of <i>L. vannamei</i> over the years, generating in the cumulative revenue of around 200 crores.

District wise details of commercial inland saline shrimp farms demonstrated by ICAR-CIFE Rohtak Centre during 2019

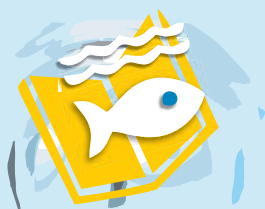
State	Major districts covered
Haryana	Rohtak, Jhajjar, Bhiwani, Jind, Hisar, Fatehabad, Sirsa, Sonapat, Mewat, Gurugram, Charki Dadri, Rewari
Delhi	South West Delhi
Punjab	Sri Muktsar Sahib, Fazilka, Batinda, Mansa, Faridkot
Rajasthan	Churu, Hanumangarh
Western UP	Agra, Mathura







07 Honours and Awards

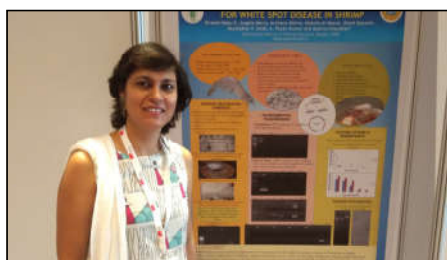




Dr Gopal Krishna, Director & Vice-Chancellor with Shri Bhagat Singh Koshyari, Hon'ble Governor of Maharashtra

National Conferences/Symposia (Best Oral /Poster presentation)

Dr. Aparna Chaudhari, Principal Scientist received the Best Oral Presentation Award by Pillai Aquaculture Foundation for talk on 'DNA Vaccine Technology for Development of Aquaculture' in 4th PAF Congress held at ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha during 15-17 November, 2019.



Dr. Sanath Kumar H., Senior Scientist received the Best Oral Presentation Award in National Symposium on "AMR in Indian Fisheries: Measures of Mitigation" during 7-8 November, 2019 by Society of Fisheries Technologists (India) at ICAR-Central Institute of Fisheries Technology, Cochin, Kerala.

Dr. Jeena K., Scientist received the Best Poster Presentation in National Symposium on "AMR in Indian Fisheries: Measures of Mitigation" during 7-8 November, 2019 by Society of Fisheries Technologists (India) at ICAR-Central Institute of Fisheries Technology, Cochin, Kerala.

Publons Top Peer Review Award 2019

Dr. K. A. Martin Xavier, Scientist - For placing in the top 1% of reviewers in Agricultural Sciences on Publons global reviewer database (Web of Science Group)



■ Recognitions

Dr. Gopal Krishna, Director & Vice-Chancellor, ICAR-CIFE

- National Chair of the HRD committee of APA 2019 organized by WAS at Chennai India during 19-21 June 2019.
- Member, PMC, world Bank project NAHEP, constituted by DG ICAR, New Delhi.
- Member, Accreditation Board of ICAR.
- Board Member, Kamdhenu University, Gandhi Nagar, Gujarat.
- Member, Committee for the selection and review of National Professor and Emeritus Professor, ICAR.
- Expert Member, Selection Committee for Directors and Dean, Bihar Animal Science University, BASU, Bihar.
- Expert Member, Selection Committee of Directors and Dean, TNJFU, Tamil Nadu.

Dr. N. P. Sahu, Dean was appointed as Convener of ICAR's, Board of Subject Matter Area (BSMA) Committee for Restructuring of Master's and Ph.D. Curriculum and Syllabi for the disciplines under Agricultural Sciences (Fisheries Science) during 09 May, 2019 at NASC Complex, New Delhi.

Dr. N. P. Sahu, Dean was nominated as member of Academic Council of ICAR- National Dairy Research Institute, Karnal, Haryana.

Dr. K. Pani Prasad, Principal Scientist was awarded as Adjunct Faculty for Academic year 2019 by Tamil Nadu Dr. J. Jayalalitha Fisheries University, Tamil Nadu.

Dr. N. P. Sahu, Principal Scientist was nominated as 'National Chair' of the technical sessions on 'Feed, Nutrition & Physiology' in Asian Pacific Aquaculture 2019 (APA 2019) organized at Chennai, India during 19-21 June, 2019.

Dr. Babitha Rani A. M., Senior Scientist was appointed as member for Scientific Committee in 6th International Conference on Fisheries and Aquaculture 2019 (ICFA 2019) during 22-23 August, 2019 at Bangkok, Thailand.

Dr. Kishore Kumar Krishnani, Principal Scientist was awarded the Fellow of the Biotech Research Society, India on 20 November, 2019 held at CSIR- National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerala.



Dr. Kishore Kumar Krishnani, Principal Scientist was appointed as Chairman for Technical session in International Conference on "Nutraceuticals, Herbs Supplements and Nano Formulations" during 13-15 September, 2019 at Mahatma Gandhi University Kottayam, Kerala.

Dr. A. K. Balange, awarded Certificate for Senior Scientist Award 2019 by Kalash Research and Welfare Society, Prayag, U.P. during National Seminar on River Development, Water Resource, Conservation and Management on 6-7 December, 2019.

Dr. A. K. Balange, Senior Scientist received an 'Appreciation Letter' for efforts taken on entrepreneurship development for tribal community by the Chairman, Lohape Tribal Fisherman Cooperative Society, Maharashtra on 4 May 2019.



Member of Editorial Board

Name of Faculty	Journal
Dr. K. V. Rajendran	Virus Disease, Springer
Dr. Gayatri Tripathi	Journal of Aquaculture, ICAR-CIFA, Bhubaneswar
Dr. Megha Bedekar	Journal of Bacteriology and Vaccine Research Scholarean journal of Biotechnology
Dr. Kiran Dube Rawat	Journal of Indian Fisheries Association
Dr. Babitha Rani. A. M.	International Journal of Oceanography and Aquaculture (IJOAC)

Reviewer for Journals

Journal	Name of Faculty
Aquaculture Nutrition	Dr. N. P. Sahu Dr. Shamna N
Animal Feed Science and Technology	Dr. N. P. Sahu Dr. Parimal Sardar
Aquaculture	Dr. N. P. Sahu Dr. S. P. Shukla Dr. Muralidhar P. Ande Dr. Tincy Varghese Dr. Shamna N.
Aquaculture Research	Dr. N. P. Sahu Dr. Paramita B. Sawant Dr. Muralidhar P. Ande
Fish and Shellfish Immunology	Dr. N. P. Sahu Dr. K.V. Rajendran Dr. Ashutosh D. Deo Dr. Megha Bedekar
Journal of Aquaculture	Dr. N. P. Sahu
Journal of Applied Aquaculture	Dr. Ashutosh D. Deo
Microbial Pathogenesis	Dr. Megha Bedekar
Asian Fisheries Science	Dr. Ashutosh D. Deo
Journal of Applied Animal Research	Dr. Ashutosh D. Deo
Aquaculture and Fisheries	Dr. Muralidhar P. Ande
BioResources	Dr. Manish Jayant
Heliyon (Elsevier)	Dr. K. A. Martin Xavier
Journal BMC Genetics (Springer)	Dr. Gayatri Tripathi
Journal of Current Pharmaceutical Biotechnology	Dr. Gayatri Tripathi
Journal of Protein & Peptide Letters	Dr. Gayatri Tripathi
Turkish journal of Fisheries and Aquatic sciences	Dr. Babitha Rani. A. M
Agricultural Research Communication Centre	Dr. Megha Bedekar
SCIENCE DOMAIN international	Dr. Megha Bedekar
Scientific Reports (Springer Nature)	Dr. K. A. Martin Xavier
Indian Journal of Animal Research	Dr. Kiran Dube Rawat Dr. Paramita Banerjee Sawant
Ecotoxicology and Environmental Safety	Dr. K. K. Krishnani
Journal of Fisheries Association	Dr. S. N. Ojha
Journal of the Inland Fisheries Society of India	Dr. Arpita Sharma
Journal of Fish Processing and Preservation	Dr. A. K Balange Dr. K. A. Martin Xavier
Journal of Food Science and Technology (Springer)	Dr. A. K Balange Dr. K. A. Martin Xavier



Journal of the Science of Food and Agriculture (Wiley)

Dr. A. K. Balange

LWT- Food Science and Technology (Elsevier)

Dr. K. A. Martin Xavier

Dr. B. B. Nayak

Dr. A. K. Balange

Dr. K. A. Martin Xavier

Indian Journal of Animal Nutrition

Dr. G. H. Pailan

Journal of Environmental Biology

Dr. S. Munilkumar

Fish & Shellfish immunology

Dr. Sujata Sahoo

Fish Physiology Biochemistry (Springer);

Dr. S. Dasgupta

Aquaculture Research (Wiley Online Library)

Dr. S. Dasgupta

Institutional Awards 2019 6 June, 2019



Best Scientist
Dr. Gayatri Tripathi



Best Young Faculty
Dr. Kundan Kumar



Best Teacher
Dr. K.A. Martin Xavier



Best Extension Scientist/Worker
Dr. Kiran Dube Rawat



Best Division/Centre
Kolkata centre



Award for Institutional Building
Dr. Swadesh Prakash



Award for Institutional Building
Dr. Rama Sharma



Best Technical Staff
Dr. Nalini Poojary



Award for Best Hindi
Publication of the Year
Dr. Paramita Banerjee Sawant



Award for Best Publication
of the Year
Dr. K.A. Martin Xavier



Award for Overall Best
M.F.Sc. Dissertation
Ms. Kasturi Chattopdhyay



Best School going Child XII Class
Ms. Rajamahanti Likhitha

Best Young Scientist for Field
Oriented Work
Dr. Arun Sharma

Best Administrative Staff
Mrs. M. Rama Mani

Award Overall Best Ph.D. Thesis
Dr. Irfan Ahmad Bhat

Best School going Child X Class
Ms. Shruti Gupta

Appreciation Certificates

Mr. Sarvendra Kumar

Mr. Soubhik Pailan

Ms. Snehasmruti Behera

Ms. Ananya Khandagale

Appreciation Letter

for exemplary sincerity and dedication towards discharge of duties



Dr Ashutosh D. Deo



Dr. Sunil Kumar Nayak



Mr. Raju Kadam

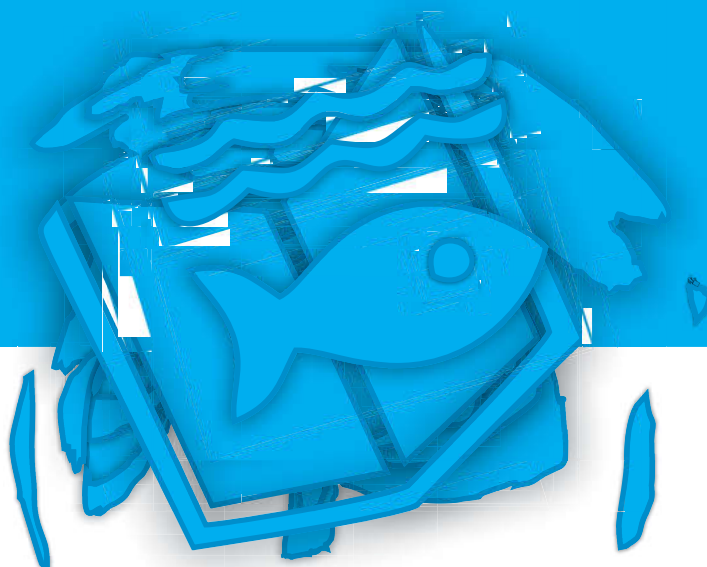




08 Linkages and Collaborations



Highlights



Linkages

17 Government of India Organizations

12 ICAR Institutes

10 CSIR Institutes

3 International

19 Universities

3 NGOs

17 States

26 Others

MoUs signed

2 International Organizations

6 National Institutes



8.1. Linkages

The Institute maintains linkages and collaborations with various national and international institutions and agencies for education, research and development.

Government of India Organizations

- Fishery Survey of India, Mumbai
- Central Institute of Fisheries Nautical and Engineering Training, Kochi
- Marine Products Export Development Authority, Kochi
- Zoological Survey of India, Kolkata
- Indian Institute of Technology, Kharagpur
- Department of Earth Sciences, New Delhi
- Department of Science and Technology, New Delhi
- Department of Biotechnology, New Delhi
- Indian National Center for Ocean Information Services, Hyderabad
- Satellite Application Centre, Ahmedabad
- Bhabha Atomic Research Centre, Mumbai
- Tata Cancer Research Center, Mumbai
- Indian Institute of Foreign Trade, Kolkata
- Tata Institute of Fundamental Research, Mumbai
- Krishi Vigyan Kendra, Banswara, Rajasthan
- Nuclear Power Corporation of India Limited, Mumbai
- National Bank for Agriculture and Rural Development, Mumbai

ICAR Institutes

- ICAR-Central Marine Fisheries Research Institute, Kochi
- ICAR-Central Institute of Brackishwater Aquaculture, Chennai
- ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar
- ICAR-Central Inland Fisheries Research Institute, Barrackpore
- ICAR-Central Institute of Fisheries Technology, Kochi
- ICAR-National Bureau of Fish Genetic Resources, Lucknow
- ICAR-Directorate of Coldwater Fisheries Research, Bhimtal
- ICAR - Central Coastal Agricultural Research Institute, Goa
- ICAR Research Complex for Eastern Region, Patna
- ICAR Research Complex for North-Eastern Hill Region, Barapani
- ICAR-Indian Agricultural Research Institute, New Delhi
- ICAR-Central Institute of Agricultural Engineering, Bhopal

CSIR Institutes

- Industrial Toxicology Research Centre, Lucknow
- Central Drug Research Institute, Lucknow
- Central Institute of Medicinal and Aromatic Plants, Lucknow
- Central Food Technological Research Institute, Mysore
- National Institute of Oceanography, Goa
- Centre for Cellular and Molecular Biology, Hyderabad
- National Botanical Research Institute, Lucknow

- Institute of Genomics and Integrative Biology, New Delhi
- Indian Institute of Integrative Medicine, Jammu
- Indian Institute of Chemical Biology, Kolkata

International

- University of Idaho, Idaho, USA
- University of Kentucky, Lexington, KY, USA
- Curtin University, Australia



Universities

- Cochin University of Science and Technology, Kochi
- Annamalai University, Chidambaram
- Adikavi Nannaya University, Rajahmundry
- University of Goa, Goa
- Acharya N. G. Ranga University, Guntur
- B. S. Konkan Krishi Vidyapeeth, Dapoli
- Maharana Pratap University of Agriculture and Technology, Udaipur
- Jawaharlal Nehru University, New Delhi
- Mangalore University, Mangalore
- Bhartiya University, Coimbatore
- West Bengal University of Animal & Fishery Sciences, Kolkata
- Mumbai University, Mumbai
- Bidhan Chandra Krishi Viswa Vidyalaya, Nadia, West Bengal
- Kalyani University, Kalyani, West Bengal
- Barkatullah University, Bhopal
- Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur
- Chhattisgarh Kamdhenu Vishwavidyalaya, Chhattisgarh
- Babasaheb Bhimrao Ambedkar University, Lucknow
- Centre of Agriculture University, Imphal



State Governments

Department of Fisheries of the following states: Maharashtra, Haryana, Uttar Pradesh, Bihar, Tamil Nadu, Andhra Pradesh, Tripura, Arunachal Pradesh, Madhya Pradesh, Meghalaya, Nagaland, Assam, Manipur, Mizoram, Sikkim, Punjab and Telangana

NGOs:

- Shashwat, Manchar, Pune, Maharashtra
- Yusuf Meherally Centre, Kutch, Gujarat
- United Artists' Association, Ganjam, Odisha
- Friends of Nature Association, Talegaon, Maharashtra

Other Organizations

- Haryana Kishan Ayog, Chandigarh
- State Institute of Fisheries Technology, Kakinada
- Action Aid International, Port Blair
- M. S. Swaminathan Research Foundation, Chennai
- The Seafood Exporters Association of India, Kolkata
- Nezami Rekha Sea Foods Pvt. Ltd., Kolkata
- IFB Agro Industries Ltd., Aquatic & Marine Products Div., Kolkata
- Shimpoo Exports, Kolkata
- Coreline Exports, Kolkata
- Digha Sea Food Exports, Kolkata
- NSZA Sea Food Pvt. Ltd, Kolkata
- Central Calcutta Science and Culture Organization for Youth, Kolkata
- APC Nutrient, Mumbai
- Godrej Agrovet Pvt. Ltd., Vijayawada
- Maharashtra Machimar Kriti Samiti, Mumbai
- Akhil Bhartiya Machimar Sanghatna, Mumbai
- Madhya Pradesh Fish Federation
- CPWD, Bhopal, M.P.
- CPWD, Hoshanagabad, M.P.
- Telecom Department, M.P.
- State Electricity Board, M.P.
- Saguna Baugh Farm, Neral
- Tata Power Co. Mahseer Farm, Lonavla
- Govt. Fish Farm, Khopoli
- Arrey Fish Farm, Mumbai
- Shramajivi Janata Sahayak Mandal, Mahad, Raigarh, Maharashtra



8.2. Collaborations

MoUs signed during 1 April to 31 December 2019

CIFE has signed MoUs with the following universities and organizations to enhance collaboration in fisheries research and academics.

International

- Hawassa University, Ethiopia
- The Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia

National

- Assam Agriculture University, Raha, Assam
- College of Fisheries, Birsa Agriculture University, Ranchi, Jharkhand
- Indian Technology and Management University (ITMU), Gwalior, Madhya Pradesh
- Central Soil Salinity Research Institute, Karnal, Haryana
- Institute of Pesticide Formulation Technologies, Gurugram, Haryana
- The Energy and Resources Institute (TERI), Mumbai, Maharashtra



