Introduction

- Fisheries sector faces extreme disasters like flood, tsunami and one hand and drought and scarcity of water on other hand.
- Capacity development programmes are required for increasing awareness about the vulnerability of the sector, current frameworks for response and the need to be better prepared.
ICAR-CIFE

- ICAR-CIFE is a Fisheries University in India
- It imparts Masters and Ph.D degrees in 11 fisheries disciplines and undertakes research on various issues of fisheries sciences
Our journey

6th June 1961
Started as a training institute with FAO/UNDP assistance.

1st April 1979
CIFE came under the administrative control of ICAR

29th March 1989
The Ministry of Human Resources Development and the University Grants Commission accorded the Deemed-to-be University status
Became the First Fisheries University in India.
Listed in the ‘A’ category of Deemed Universities of UGC

Mandate

To conduct post-graduate academic programs in core and emerging disciplines of fisheries science

To conduct basic and strategic research in frontier areas of fisheries

To conduct training programmes in demand-driven and upstream areas for different stakeholders of fisheries sector

To provide technical assistance, inputs for policy development and consultancy services
Field Centres and Sea-going Facilities

Organogram

Board of Management
Planning & Monitoring Board
Research Advisory Committee

Academic Council
Extension Council
Institute Research Council

Director and Vice-Chancellor
Joint Director

DIVISIONS
- FEES (Fisheries Economics, Extension and Statistics)
- FRRPPM (Fisheries Resources, Harvest and Post-Harvest Management)
- AQ (Aquaculture)
- AEMH (Aquatic Environment and Health Management)
- FO (Fish Genetics and Biotechnology)
- FNBP (Fish Nutrition, Biochemistry and Physiology)

HEAD of Office/Accounts
- Senior Registrar
- Chief Finance & Accounts Officer

CENTRES
- Kakinada
- Kolkata
- Powerkheda
- Rohtak
- CAFT in Fisheries Science

SECTIONS
- Administration
- Finance and Audit
- Hindi
- Library
- Stores
- Vehicles and Workshop
- Works

ACADEMIC
- Consultancy
- Examination
- HRD
- IT
- International Partnership

PMIE (Personality Development and Career Counselling
- Students' Welfare
- Vessel Management
- NEH

ITMU
## Current Academic Programmes

<table>
<thead>
<tr>
<th>No.</th>
<th>Masters Programme</th>
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<th>Doctoral Programme</th>
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<tbody>
<tr>
<td>1</td>
<td>Aquaculture</td>
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<td>2</td>
<td>Fish Genetics and Breeding</td>
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<td>3</td>
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<td>4</td>
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<tr>
<td>5</td>
<td>Fisheries Resource Management</td>
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<tr>
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<td>Fisheries Economics</td>
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<tr>
<td>8</td>
<td>Fish Nutrition and Feed Technology</td>
<td>8</td>
<td>Fish Nutrition and Feed Technology</td>
</tr>
<tr>
<td>9</td>
<td>Fish Physiology and Biochemistry</td>
<td>9</td>
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</tr>
<tr>
<td>10</td>
<td>Post Harvest Technology</td>
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<td>11</td>
<td>Aquatic Environmental</td>
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### International Students

- Eritrea: 7
- Sri Lanka: 3
- Ethiopia: 1
- Iran: 2
- Nigeria: 3
- Iraq: 1
- Post-doc: 3
International Placement of Students

- USA
- Japan
- Canada (7)
- USA
- Jamaica (1)
- Columbia (1)
- Spain (1)
- Germany (3)
- Denmark (2)
- Tanzania (2)
- Tanzania (1)
- Singapore (2)
- South Korea (2)
- Portgual (1)
- Sweden (1)
- Norway (4)
- Ireland (9)

Research Programmes

- Diversification of Aquaculture.
- Genetic Improvement and Genomics.
- Nutraceuticals and Nutrigenomics.
- Climate Change and Adaptations.
- Application of Nanotechnology and Biotechnology.
- Biodiversity Assessment and Conservation.
- Assessment and Enhancement of Seafood Quality.
- Livelihood and Food Security of Marginal farmers.
Objective

- Capacity development of relevant stakeholders to integrate fisheries and aquaculture in emergency response and preparedness based on existing capacities and expected needs

Workshops

- To achieve the objective, the method of conducting workshops in different regions was adopted
- Workshops were structured as per the Guidance Books on Emergency Response by FAO (2015) with 11 sessions.
- Region specific case studies were developed for Sundarban region (Cyclone) and North East (Flood)
- Workshops were organized in Mumbai, Sundarban and Jorhat
Aim of the workshops

- To raise awareness of diverse stakeholders about vulnerability of fisheries sector, current frameworks for response and need to be better prepared through appropriate trainings

Workshops on Fisheries and Aquaculture Response in Emergencies

- **First workshop**: 18.12.15 at CIFE, Mumbai, Maharashtra
- **Second workshop**: 25-27 Feb, 2016 in Sundarban region at CIBA-KRC, Kakdwip, West Bengal
- **Third Workshop**: 10-12 March, 2016 at AAU, Jorhat, Assam
PARTICIPANTS

Diverse stakeholders

- State/Central Government
- NGO/Private sector
- Fishing Community
- Researchers and Youth

Workshop at Mumbai

PARTICIPANTS: Diverse stakeholder

State/Central Government
- Disaster Management Cell, Municipal Corporation of Greater Mumbai (MCGM), Mumbai
- Marine/Sagari Police, Gora, Mumbai
- District Disaster Management Officer of Palghar District
- Indian Coast Guard, Regional Headquarters, (Western Region), Mumbai
- National Disaster Response Force (NDRF), Mumbai
- Marine Product Export Development Authority (MPEDA) Regional Office, Mumbai
- National Disaster Response Force (NDRF), Mumbai

NGO/Private sector
- Anirudh Academy of Disaster Management, Mumbai
- International Collective In Support of Fish Workers (ICSF) Chennai
- World Resource Institute (WRI)
- Reliance Foundation, Mumbai

Fishing Community
- Vesava Macchimar (Fisheries) Cooperative Society
- Maharashtra Macchimar Krif Samiti

Researchers and Youth
- Assistant Professors from Ratnagiri Fisheries College
- Researchers from ICAR-CIFE, Mumbai
- Youth scholars from ICAR-CIFE, Mumbai
Workshop at Mumbai
Outputs of the Workshop

- Agencies involved in Disaster Management became aware of vulnerability of fisheries and aquaculture sector along with current frameworks for response and participants from fisheries sector became aware of emergency response mechanisms.
- Deliberations of workshop were fruitful as diverse stakeholder group came together at one platform for one cause.
- Core content areas addressed: Introduction and importance of fisheries and aquaculture sector, Profile of Marine Fisheries of India and the state of Maharashtra, Emergency Response and Priorities in Fisheries and Aquaculture, Vulnerability of the sector, Disasters affecting the sector, Role of GOs and NGOs involved in emergency response, Context of humanitarian action, mechanisms for disaster response, core standards underpinning humanitarian actions and fisheries and aquaculture interventions
- Improved understanding of participants about fisheries and capacity to respond to emergencies and plan for fisheries and aquaculture

Workshop at Mumbai

- Sri. Mahesh Narvekar, Chief Officer, Disaster Management (DM), MCGM, Mumbai: Role of MCGM in DM and challenges with reference to fishing villages
- Deputy Inspector General (DIG) Anbarasan, from Indian Coast Guard, Regional Headquarters, Western Region, Mumbai: Role of Indian Coast Guards with reference to fisheries
- Sri. Mahesh Nalwade, Assistant Commandant from National Disaster Response Force (NDRF), Mumbai: NDRF and emergency response
- Sri. Sanjay Shivaji Narvekar, Senior Inspector participated from Marine/Sagari Police, Gorai, Mumbai
- Sri. Nitin Naik, District DM Officer of Palghar District gave live demonstrations about the sea safety device for fishers and how the District DM Office is helping the fishers.
- Detailed view of Export Potential of India Fisheries by Ms. Sheetal Hazare, Assistant Director from Marine Product Export Development Authority (MPEDA) Regional Office, Mumbai.
Workshop at CIFE, Mumbai

- Role of NGOs in emergency response: Sri. Sudhirsinh Patdar from Anirudh Academy of Disaster Management, Mumbai.
- Small scale fisheries guidelines and the frameworks: Ms. Shudhi Peke of International Collective In Support of Fish Workers (ICSF)
- Vulnerability and Adaptation Initiatives: Ms. Lubaina Rangwala from an International NGO, World Resource Institute (WRI)
- Representatives from Vesava Macchimar Cooperative Society, Ms. Ujjawala Patti and her team from Maharashtra Macchhimar Krifi Samiti and representatives from Reliance Foundation expressed the concerns of fishing community.
- Profile of Marine Fisheries of India and the State of Maharashtra, and Emergency Response and Priorities in Fisheries and Aquaculture by CIFE scientists
- Reflections collected from participants. A short live video clip of the workshop was prepared and displayed.
Second Workshop

- 3 days Workshop on Fisheries and Aquaculture Response in Emergencies in Sundarban region at KRC of ICAR-CIBA at Kakdwip, 25 to 27 Feb, 2016
- 24 workshop participants were from 9 organizations
  - Non-Government Organisations (NGOs)
    - Society for Socioeconomic and Ecological Development (SEED)
    - Nature Environment and Wildlife Society (NEWS)
    - Rabindra Nath Mandal Tagore Society for Rural Development (RMCT)
    - Paribesh Unnayan Parishad (PUPA)
    - Sundarbans Dreams
  - KVKs/University
    - Sasya Shyamala Krishi Vigyan Kendra (KVK)
    - Ramkrishna Ashram KVK, South 24 Parganas
    - Ramakrishna Mission Vivekananda University (RKMVU), Narendrapur, Kolkata, Nimpith West Bengal
    - University of Animal and Fishery Sciences (WBUAFS)
  - State Government
    - Sundarban Development Board

Participants were distributed set of guiding documents sent by FAO and included
- Fisheries and Aquaculture Emergency Response Guidance and Guidelines for the Fisheries and Aquaculture Sector on Damage and Needs Assessments in Emergencies
Workshop

- Format of 3 days workshop
- 11 sessions
- Cover Cross cutting issues affecting vulnerability, baseline information, cluster approach importance of building back better, damage need assessment, value chain, livelihood and ecosystem approaches to be used in emergency response etc. through participatory teaching methods like group exercises, case studies, role plays and interactions
- Dr. M.V. Rao, Principal Secretary, Sundarbans Development Board and other officials reported that this training will help them in designing better emergency responses for fisheries and aquaculture

Workshop Glimpses
3rd Workshop

- Organized at Fisheries Research Centre (FRC), Assam Agriculture University (AAU), Jorhat 10-12 March, 2016 as per the recommendations of FAOs Emergency Response and Guidance in Fisheries and Aquaculture.

- Vice Chancellor, AAU, Jorhat, Dr. K.M. Bujarbaruah, in his deliberation he mentioned about flood and scarcity of water, importance of damage need assessment which has been done in agriculture and animal husbandry but not much in fisheries and integrated approach across sectors.
Profile of participants

Workshop was attended by 33 participants representing:

**NGOs**
- Dhan Foundation
- Society for Rural Development (SORDEC)
- Indian Red Cross Society
- Cheelbanda Beel Unyan Samiti, Kalanpur Yuva Sangh

**COF/ICAR/KVK**
- College of Fisheries, Raha
- ICAR-CIFRI
- KVK

**DOF**
- Department of Fisheries, Assam
- Department of Fisheries Shillong

**Fish Farmers**
- Progressive fish farmers from Dakshin Beelgaon Sanghtan
From responses of the participants, the workshop was successful in strengthening participants’ skills.

Participants reported they have increased awareness about the vulnerability of the sector, current frameworks for response and the need to be better prepared.

Case Studies related to flood in North East (Specific to Lakhimpur) and Cyclone in Sundarban were prepared, pilot tested and found useful.
- All workshop reports available on CIFE Website
- Workshops covered by official FAO twitter handle FisheriesAquaculture (@FAOfish)
- Workshops covered by local media
- Structure of the training and its material pilot tested

Fisheries sector faces extreme disasters like flood, tsunami and one hand and also droughts and scarcity of water on the other hand.

- Damage need assessment is done in agriculture and animal husbandry but not much in fisheries
- There is a need to have integrated approach across sectors
- Capacity development programmes are required for increasing awareness about the vulnerability of the sector, current frameworks for response and the need to be better prepared
- In case of emergency there are measures which are taken in case of agriculture and livestock but in case of fisheries there is a need to have sector specific measures
- Coping strategies are needed which need to be communicated to fishing communities
Thankyou