

Capacity Building Conclave

25-26 February 2016

PROGRAMME REPORT

Organised by



National Fisheries Development Board (NFDB)

Department of Animal Husbandry, Dairying & Fisheries

Ministry of Agriculture & Farmers Welfare, Govt. of India

Fish Building, Pillar # 235, PVNR Expressway, Hyderabad-500052

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REPORT ON

Capacity Building Conclave

25-26 February 2016

A two day Capacity Building Conclave was organized between 25 and 26 February 2016 exclusively for the Fisheries Educational Institutions/Universities/ICAR organisations actively involved in the implementation of innovative capacity building programmes for the development of fisheries sector. The objective of the conclave is to understand the present capacity building activities of organizations and to propose new initiatives in collaboration with NFDB. 25 officials have taken part in the programme representing Andhra Pradesh, Assam, Karnataka, Kerala, Maharashtra, Meghalaya, Odisha, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh and West Bengal states. List of the participants is enclosed as Annexure-I

Inauguration

Dr.M. Vijay Gupta, Chief Guest, Shri.K.N. Kumar, IAS, Chief Executive, Dr.R. Suresh, Sr. Consultant, HRD, Ms.S. Glory Swarupa, Consultant, HRD and other Sr. Consultants of NFDB were present. Ms.S. Glory Swarupa welcomed the dignitaries and the delegates. Dr.R. Suresh detailed the objective and general picture of capacity building programmes. Shri.K.N. Kumar in his opening remarks mentioned that the role of Human Resource is very critical in development of fisheries. But due attention is not given. Time has come to look HRD afresh and innovatively. There is a need to prepare road map for HRD initiatives for the sector as each sector has specific requirement at different layers. Formal education programmes are necessary, but not sufficient. Hence establishment of polytechnics in the fishery sector will be an emerging model. Placement linked Skill development programmes for youth from traditional fishermen families is also being thought of by the NFDB. He urged the participants to plan and include innovative HRD programs in the current academic year.



Dr.M. Vijay Gupta in his inaugural message gave a comparative picture of Indian fishery sector and other developing countries over the years. India lost its lead position while South East Asian nations are performing well. Need based trainings to the farmers, students, youth, women and children should be taken up on priority basis in India. Constraints/risks in standardizing the technology and transfer of technology should be properly diagnosed. He shared his Bangladesh experiences. He concluded that a missionary zeal is required to help poor fishermen.



Presentations

All the participants were requested to make presentations on the capacity building programmes/outreach programmes including the important extension activities and to propose the innovative HRD programmes with the support of NFDB for the development of fisheries sector. After each presentation, there was a discussion followed by decisions. Detailed programme schedule and presentation schedule are attached as Annexures-II & III respectively

- 1. Dr.K.K. Vijayan, Director, CIBA, Chennai, Tamil Nadu**



- Discussed the importance of the Brackishwater aquaculture and the challenges
- Briefed on the various technologies standardized by the CIBA
- Family farming systems, a novel farming system is emerging and requires to be promoted by NFDB
- Pokkali farming method should be popularized for the benefit of the farmers

Decision: Copies of the Training Need Assessment (TNA) already done by CIBA to be shared with NFDB

2. Dr.V.R. Suresh, Head, CIFRI, Barrackpore, West Bengal



- The main target groups of CIFRI were fishers, officers and line department staff, entrepreneurs, tribal/rural people, youth, students, women etc.
- For school children- basic information on the fishery sector
- Inland fishery development, cage and pen culture and others
- Area of focus is inland, reservoir and food plain wetland
- Impact analysis: Some trainees have become successful small scale entrepreneurs in Jharkhand, Assam and Bihar

Decision: Funding support to study the impact of the capacity building initiatives will be available from the NFDB. A proposal needs to be submitted by CIFRI.

3. Dr.M. Krishnan, Head, CIFE, Mumbai



- Demand driven training programmes are being conducted
- Programmes imparted are academic and for professional development
- Entrepreneurship development programme
- One year Post Graduate diploma in inland fisheries
- Entrepreneurship development programmes were conducted in Assam
- “Mera gaon” programme has already started

Decisions:

- ✓ Training manuals developed by CIFE for skill development programmes should be sent to the NFDB.
- ✓ Training programmes for women entrepreneurs in ornamental fisheries need to be prepared in collaboration with civil societies.

4. Dr. B. S. Giri, Principal Scientist, CIFA, Bhubaneswar, Odisha



He mentioned the issues in inland aquaculture like

- Water scarcity as a major problem in future
- High cost of cage culture
- Replacement of dead fish by fresh fish not practical due to problems in transportation

5. Dr.P.N. Ananth, Sr. Scientist & Head, KVK, Khorda, Odisha



- Conducted many training programmes and projects with the supporting agencies like Govt. of Odisha, Tata steel and ATMA
- Standard training packages are for 2 days, 3 days and 30 days

Decisions:

- ✓ Policy brief paper already prepared should be sent to the NFDB
- ✓ To standardize the curriculum of the training programme and create exposure training module to the KVKs before the commencement of the programmes
- ✓ To conduct Capacity and building programmes for Hatchery owners Associations in Odisha

6. Dr. Nikita Gopal, Principal Scientist, CIFT, Kochi, Kerala



- Briefed on the CIFT and its activities
- Special programme for North East states and Tribal population being implemented
- Associated with different brands & trade marketing associations

Decisions:

- ✓ Technical manuals prepared by the CIFT may be sent to NFDB
- ✓ To prepare an Annual Training Calendar and seek funding support of the NFDB
- ✓ Proposal to be prepared to conduct National Capacity Building programme for fish processing
- ✓ Proposal for training the trainers (ToT) in inland fishery with a target of 5000 people in 2 to 3 years time

7. Dr. Joe K Kizhakudan, Principal Scientist and Officer-in-charge, Kovalam Field Laboratory of CMFRI, Madras Research Centre of CMFRI, Chennai



- Discussed on various aspects viz., sea cage farming for lobsters, identification of fishing zones, impacts on traditional fisheries
- Noted the issue raised on distracted fisher youth/association of fishermen/youth, standardized technology, participatory approach, enhancing the biological awareness.
- Training on the Artificial Reef system

Decision: To furnish the database/publications on the artificial reefing system and its environmental impact

8. Dr. Lalit Kumar Tyagi, Sr. Scientist, NBFGR, Lucknow, UP



- Briefed on the NBFGR activities
- Conducting Marine Genetic Research training programmes
- Conducting outreach activities on fisheries, management, conservation and fishing co-operatives
- Farm Innovators Day and National Fish Farmer's Day are also celebrated all over India.

Decisions:

- ✓ To publish the annual training calendar for the information of the beneficiaries
- ✓ To conduct program on “Training the Trainers” in inland fisheries
- ✓ Specific training activities to be planned

9. Dr. Deep Jyothi Baruah, Sr. Scientist, NRCCWF, Bhimtal, Uttarakhand



- Briefed about the developments are being made in the field of cold water fisheries

- Trout farming, major carp farming, golden Mahasheer (*Tor putitora*) breeding and seed production systems, species diversification in the mid & low altitude areas, artificial spawning of minor carp, aqua garden system, Ornamental fish, sports & recreational fishery, aquaculture farming regimes in North East regions and promotion of rainbow trout are discussed.

Decisions:

- ✓ A proposal on special initiatives for Leh- Ladakh area farmers to be prepared
- ✓ A collaborative effort with CIFT should be worked out
- ✓ Proposals should be submitted to NFDB

10. Dr. P. Ram Mohan Rao, Asst. Director (Fy), SIFT, Kakinada, Andhra Pradesh

- Explained on the genesis, objectives, activities and achievements of the SIFT
- Briefed on infrastructure facilities, faculty strength, skill development programmes and their out come

Decisions:

- ✓ All the publications of the SIFT should be sent to NFDB (in both languages English and Telugu)
- ✓ Proposals should be submitted to NFDB
- ✓ Request for full grant of residential accommodation to the trainees will be examined as a part of the training
- ✓ NFDB to consider the grant based on the proposals

11. Dr. David Kharwanlang, Principal, MSFRTI, Ri-Bhoi district, Meghalaya



- Briefed on the aquaculture practices and expansion of aquaculture for individual ponds
- Critical infrastructure development
- Establishing sanctuaries for the indigenous & endemic species
- Emerging opportunities in the fishery sector
- Also briefed on the past, present and future of aquaculture mission
- Skill based technology training to fish farmers are also discussed
- Assessment pre-training and post-training is being done
- Imparted training to 2518 trainees by 26 February 2016

Decisions:

- ✓ Proposals for training lab technician should be prepared and submitted
- ✓ Proposal for publication should be integrated with the training proposals

12. Dr.N. Veerabhadra Rao, Principal, Sri MVKR Fisheries Polytechnic College, Krishna district, Andhra Pradesh

- Objective is to develop human resources in fishery sector in AP
- More focus on aquaculture
- HRD & skill development initiative: Training on value addition to fish and shrimp for women
- Future plan: increase number of training programmes in value addition of fish and shrimp

Decisions:

- ✓ Batch size of polytechnic course can be expanded and opened for other states as well

- ✓ Kaushal Kendra Scheme could be integrated
- ✓ NFDB will write to the Vice-Chancellor, Veterinary University for extending seats to the students of other states.

13. Dr. B. V. Ramana, Dean, Faculty of Fishery Science, SVVU, Tirupathi



- Academic programme BFSc and MFSc.
- Imparted various fisheries work experience programme as hatchery, feed plant, farm (aqua-culture) and value added product etc.
- Capacity building programmes
- Imparted training on Advances in fish processing development and value added fish programmes funded by NFDB
- Imparted training on Genetically modified scampi production funded by NFDB
- Suggestion for NFDB for bridging the gap in Faculty exchange, fishing vessel, mobile aqua-lab, faculty exchange programme, modernisation of farm, fishery council of India.

14. Dr.N. Felix, Officer-In-Charge, Fisheries Institute of Technology & Training, TNFU, Chennai



- Conducted various extension programmes like training programmes, workshops/conferences, awareness programmes, skill development programmes, advisory meetings, talks in AIR/TV and developing training manuals etc.
- Imparted skill development programmes in using of electronic device in fishery sector
- Innovative programme for those who are particularly involved in colour enhancement of ornamental fish, marketing strategies of fishery product.
- Entrepreneurial programme like aquarium keeping and nutritive value of different fishes
- In future would like to conduct training programmes for women

15. Dr. Binu Varghese, Asst. Professor, KUFOS, Kochi, Kerala



- Different Schemes and programmes have been discussed.
- Climate change and climate science and Brackishwater and marine aquaculture are proposed.
- Innovative teaching also mentioned in the university.
- Cage culture, ornamental fisheries, Pulthenevlikkara Samagra Matsya gramam projects etc., are the ongoing research activities.
- Fishery education in global context through MOOC, strengthening of industry, institution linkages, student placement, incubation centre, ample employment opportunities to youth were proposed.
- Entrepreneurship development programmes
- Requested NFDB for financial assistance for upgradation of Hatcheries and other activities.

Keynote by Dr. S.D. Tripathi

He suggested that the training programmes be customized to suit the requirement of farmers to improve their livelihood. He cited the difference between India and other countries. Appreciated the progress of KUFOS (Kerala), Tamil Nadu and Andhra Pradesh Universities for the remarkable growth in fishery sector. He explained the importance of traditional fish farming systems and indigenous species particularly *Amblypharyngodon mola*, (contains Vitamin A to the extent of 80-90%) and its culture systems. He told that exotic species have to be monitored carefully. He emphasized that there should be a dividing line in various categories of fishes. The key points highlighted are as follows

- ❖ Selection of beneficiaries
- ❖ Identification of stake holders
- ❖ Development of man power in this sector
- ❖ Empowerment of women
- ❖ Importance of field visits



16. Dr. Pramod Kumar Pandey, Dean, CAU, Agartala, Tripura

- Ongoing training programme/capacity building/ outreach programme/ hatchery, feed mill, mobile aquaculture etc.
- Latest training programmes both on campus and off campus for students, SHG women, farmers and other stakeholders for fisheries development.
- Covers all the North East region other than Assam state

- Conducting vocational training for unemployed youth of one year and three years duration, ornamental fish culture, aquarium management, aquaculture production and its management
- Skill development activities like fish net weaving and mending are taken up
- Village adoption programmes are being taken up under MoRD
- My village my pride programmes are taken up in 2 village (2015)
- Initiation is taken up to establish multi technology testing center.
- System integration of farm level captive breeding of commercially potential species
- Mainstreaming of farm women through promotion of group concept for income generation
- Introduction of mobile Sandesh programmes for real time agro advisory support
- Sensitization programmes for fish traders on hygienic handling
- Documentary film on different aspects of fisheries sector
- Facilitated in dissemination of improved technologies of scientific fish culture and intervention of resources
- Requested NFDB to strengthen the colleges
- Basic infrastructure needs to be addressed
- Need based farmers training programme should be adopted



Decision: To explore the possibility of starting a two year diploma programme

17. Dr. Pai Raghavendra, Dean, CoF, Ratnagiri, Maharashtra

Decision:

- ✓ Need to invest on farm pond/agricultural tanks for promoting fisheries

- ✓ NFDB to obtain complete details of the 3 years diploma programme
- ✓ Utilization of the laterite quarries for development of farm pond/fish ponds



18. Dr. Arju P. Somkuwar & Associate Dean, College of Fisheries Lathur, Maharashtra



Decision: Fisheries College, Lathur to send proposal for farmer awareness programme.

19. Dr. Shailendra Shashikant Relekar, Asst. Professor, CoFS, Nagpur, Maharashtra



Decision: College of Fishery Sciences, Nagpur shall submit a proposal for a network research programme on Mola breeding and rearing, along with Tripura college of Fisheries (Dr. Pandey) and Raha College of Fisheries, Assam

20. Dr. Sarada Kanta Bhagabati, Asst. Professor, CoF, AAU, Raha, Assam



Decision: Proposals to be routed through the State Government.

21. Dr.A. Gopala Krishnan, Asst. Professor, CAS in Marine Biology, Parangipettai, Tamil Nadu



Decision: Proposals for Mangrove plantation and Casuarina plantation can be considered through the NGOs and central research institutions.

22. Dr.R. Suresh, Sr. Consultant, HRD, NFDB made a presentation on new initiatives of NFDB viz., Establishment of Fisheries Polytechnic Colleges, NFDB Fellows, NFDB Interns, Fisheries Graduates as Entrepreneurs, collaborative training programmes with MANAGE, NIRDPR and institutions of national repute.



23. Ms.S. Glory Swarupa, Consultant, HRD, NFDB presented the scheme on Skill Development for youth of traditional fishermen families in detail. On pilot basis, the scheme will be implemented in three districts of Andhra Pradesh. Later it will be extended to all the states.



There was panel discussion after all the presentations to discuss in the following areas for emulating ideas. The panel members are Dr.V. Sugunan, Dr.K. Ravindranath and Dr. Radheshyam. All of them are Senior Consultants of NFDB.



1. Training Need Assessment in priority areas of various stakeholders
2. Learning from the past-problems, success /failures
3. Planning for capacity building programs –Trades/Skills, Duration, Institutions, Financial Assistance, Training calendar

4. Collaborative initiatives on networking mode with ICAR, SAUs, KVKs, NGOs and State Fisheries Departments
5. Innovative Capacity Building Programs
6. Financial assistance assessment
7. Developing NOS for Capacity Building Programs-Course content, Duration, Evaluation
8. Identification of Resource Persons – Panel of Capacity Building Experts
9. Preparation of Extension Manuals, Videos etc.
10. Impact Assessment of Capacity Building Programs
11. Online Reporting system– Monitoring and Evaluation
12. ICT for Capacity Building in Fisheries sector, Distance Mode of extension service, Web Portal
13. Role of NFDB in Capacity Building in Fisheries sector

The summary of the discussion and the decisions taken with respect to each presentation was documented and circulated to all the participants. All communication with NFDB may be sent to hrdnfdb@gmail.com in future.



GROUP PHOTO



Annexure-I

National Fisheries Development Board (NFDB), Hyderabad

Capacity Building Conclave

25-26 February 2016

LIST OF PARTICIPANTS

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Annexure-II

National Fisheries Development Board, Hyderabad

Capacity Building Conclave

25-26 February 2016

PROGRAMME SCHEDULE

Date/Day	Topic	Faculty
25/02/2016 Thursday		
9.30-9.45 am	Opening remarks	Shri.K.N. Kumar Chief Executive NFDB
9.45-10.15 am	Importance of Human Resource Development in Fisheries	Dr.M. Vijay Gupta
10.15-11.15 am	Presentation of ongoing activities and action plan	ICAR Institutions
11.15-11.30 am	Tea Break	
11.30-1.00 pm	Presentation of ongoing activities and action plan	KVK, SIFT and Fisheries Polytechnic
1.00-2.00 pm	LUNCH	
2.00-3.30 pm	Presentation of ongoing activities and action plan	Colleges of Fisheries & Universities
3.30-3.45pm	Tea Break	
3.45- 4.30 pm	Presentation of ongoing activities and action plan	Colleges of Fisheries & Universities
4.30-5.00 pm	Are we on the right track in Capacity Building in Fisheries sector?	Dr.S.D. Tripathi
5.00-5.30 pm	NFDB Schemes for Human Resource Development	HRD, NFDB
26/02/2016 Friday		
9.30-11.00 am	Planning & identification of organisational capacities for HRD in India	Dr.V.V. Sugunan Dr.K. Ravindranath Dr. Radheshyam NFDB Hyderabad
11.00-11.15 am	Tea Break	
11.15-12.30 pm	Planning continues...	
12.30-1.00 pm	Closing remarks	Shri.K.N. Kumar Chief Executive, NFDB
1.00 pm	LUNCH	

Conclave Team: R. Suresh, S. Glory Swarupa, R. Vijayan & Taru Haapa
Rapporteurs: M. Viswas Rao & A. Epha



Annexure-III

National Fisheries Development Board, Hyderabad

Capacity Building Conclave

25-26 February 2016

PRESENTATION SCHEDULE

Date/Day/Time	Institution	Faculty
25/02/2016 Thursday		
10.15-10.30 am	Central Institute of Brackishwater Aquaculture (CIBA), Chennai	Dr.K.K.Vijayan Director
10.30-10.45 am	Central Inland Fisheries Research Institute (CIFRI), Barrackpore	Dr.V.R. Suresh Director I/C
10.45-11.00 am	Central Institute of Fisheries Education (CIFE), Mumbai	Dr. Krishnan Principal Scientist
11.00-11.15 am	Central Institute of Freshwater Aquaculture (CIFA), Bhubaneshwar	Dr B.S. Giri Principal Scientist
11.15-11.30 am	Tea Break	
11.30-11.45 am	Central Institute of Fisheries Technology (CIFT), Kochi	Dr. Nikita Gopal Principal Scientist
11.45-12.00 noon	Central Marine Fisheries Research Institute (CMFRI), Kochi	Dr. Joe K Kizhakudan Principal Scientist
12.00-12.15 pm	National Bureau of Fish Genetic Resources (NBFGR), Lucknow	Dr. Lalit Kumar Tyagi Sr. Scientist
12.15-12.30 pm	National Research Centre on Cold Water Fisheries (NRCCWF), Bhimtal	Dr. Deep Jyothi Baurah Sr. Scientist
12.30-12.45 pm	Krishi Vigyan Kendra (KVK) Central Institute of Freshwater Aquaculture, Bhubaneshwar	Dr.P.N. Ananth Programme Coordinator
12.45-1.00 pm	State Institute of Fisheries Technology (SIFT), Kakinada, AP.	Dr.P. Ram Mohan Rao Asst. Director Fisheries
1.00 -1.15 pm	Meghalaya State Fisheries Research & Training Institute (MSFRTI), Shillong	Dr. David Kharwanlang Principal
1.15-1.30 pm	Sri MVKR Fisheries Polytechnic College Bhavadevarapalli, AP.	Dr.N. Veerabhadra Rao Principal

1.30-2.00 pm	Lunch	
2.00–2.15 pm	College of Fishery Science, Muthukur, AP	Dr.B.V. Ramana Dean
2.15-2.30 pm	Tamil Nadu Fisheries University Nagapattinam	Dr.N. Felix Director I/c
2.30-2.45 pm	Kerala University of Fisheries and Ocean Studies, Kochi	Dr. Binu Varghese Assistant Professor
2.45-3.00 pm	College of Fisheries, Central Agricultural University, Tripura	Dr. P. K. Pandey Dean
3.00-3.15 pm	College of Fisheries Ratnagiri, Maharashtra	Dr.R.K. Pai Dean
3.15-3.30 pm	College of Fisheries, Lathur, Maharashtra	Dr.A.P. Somkuwar Dean
3.30-3.45 pm	Tea Break	
3.45-4.00 pm	Assam Agriculture University (AAU), Jorhat, Assam	Dr. Sarada K.Bhagabati Associate Professor
4.00-4.15 pm	College of Fishery Science Nagpur, Maharashtra	Dr. Shilendra S. Relekar Assistant Professor
4.15-4.30 pm	CAS in Marine Biology, Annamalai University, Parangipettai ,Tamil Nadu	Dr A Gopala Krishnan Assistant Professor



NFDB

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The National Fisheries Development Board (NFDB) was established in 2006 as an autonomous organization under the Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture and Farmers Welfare, Government of India to enhance fish production and productivity in the country and to coordinate fisheries development in an integrated and holistic manner. A wide range of fisheries development activities viz., intensive aquaculture in ponds and tanks, culture based capture fisheries in reservoirs, coastal aquaculture, mariculture, sea weed cultivation, establishment of infrastructure, fishing harbours and fish landing centres, fishing dressing centres and solar drying of fish, domestic marketing, deep sea fishing and tuna processing, ornamental fisheries, trout culture, artificial reefs technology upgradation and capacity building of fishermen and fish farmers are being supported through the State Governments/Implementing agencies. It is envisaged that NFDB should also be a platform for Public-Private Partnerships for fisheries and a mechanism for an end-end approach for ensuring efficiency in the process of fish production.

The vision of NFDB is to develop fisheries and aquaculture in a big way by adopting new and innovative production technologies, management and utilization of unutilized and underutilized water resources, establishment of adequate infrastructure for post harvest operations and proper market tie-ups. The mission is holistic development of the fisheries sector through enhancement of fish production and productivity; to supplement nutritious protein for the growing population; to accelerate the overall economy of the country, besides improving health, economy, exports, employment and tourism in the country.

The NFDB since its inception has contributed to the growth of the Fishery sector across the country. While the immediate investments had been made on the coastal states of the country, more and more investments are now taking place in the inland states to promote the fresh water fisheries. The impact of the NFDB is already being felt all across, despite the fact that the organization had been in existence only for 9 years. The NFDB will play a more proactive role in the years to come and contribute to the growth and welfare of the nation.

The activities of NFDB are overseen by a Governing Body under the Chairmanship of the Union Agriculture Minister. The Governing Body and the Executive Committee consider and decide the activities of the Board and provide periodic guidance. The Executive committee, with the Secretary in charge of Department of Animal Husbandry, Dairying and Fisheries as its Chairman, provides the general superintendence, direction and the control of the affairs and functions of the Board. The NFDB is headed by Shri.K.N. Kumar, IAS, Chief Executive.



National Fisheries Development Board (NFDB)

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