



Results-Framework Document (RFD)
for
FISHERIES DIVISION
(1st April, 2013- 31st March, 2014)

INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI BHAWAN, NEW DELHI – 110 001

**INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI ANUSANDHAN BHAWAN II, PUSA, NEW DELHI – 12**

(FISHERIES DIVISION)

Subject:- Preparation of Results Framework Document (RFD) 2013-2014 for the DARE/ICAR – information regarding....

Section 1 Vision, Mission, Objectives and Functions

Vision

‘Fish for All’

Mission

To provide technological inputs for sustainable growth of Indian fisheries and aquaculture by interfacing research, education and extension initiatives through institutional and policy support and play an important role in providing the much required food, nutritional, socio-economic and livelihood security.

Objectives

- Assessment and monitoring of the fishery resources and the aquatic eco-systems to optimize fish production on a sustainable basis to provide food, nutritional, socio-economic and livelihood security.
- Development of eco-friendly and techno-economically viable aquaculture technologies and harvest & post-harvest technologies for production and productivity enhancement.
- Transfer of Technology, HRD and Training

Functions

To plan, coordinate, implement and monitor R & D programmes for increasing production and productivity from fishery and aquaculture sector on a sustainable basis and formulate guidelines and strategies for management and conservation of resource and play an advisory role for all the stakeholders.

Section 2 - Inter se Priorities among Key Objectives, Success indicators and Targets (2013-14)

Objective	Weight	Action(s)	Success Indicator (s)	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
Assessment and monitoring of the fishery resources and the aquatic eco-systems to optimize fish production on a sustainable basis to provide food, nutritional, socio-economic and livelihood security	35	Resources Assessment and eco-system monitoring	Number of explorations/ surveys carried out	Number	8	125	120	115	110	100
		Culture based fisheries in reservoirs and wetlands	Improved production from reservoirs	kg/ha/yr	5	130	120	115	110	100
			Improved production from wetlands	kg/ha/yr	5	1000	900	800	700	650
		Mariculture and open sea cage farming	Mariculture technologies of commercially important cultivable marine finfish/ shellfish species developed	Number of species	6	3	2	1	0	0
		Cataloguing and classification of fish biodiversity using classical and molecular tools	Fish biodiversity database updated, species added	Number	6	75	60	40	20	10
			Molecular DNA markers for species identification developed	Number	5	40	30	10	5	0

Objective	Weight	Actions	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
Development of eco-friendly and techno-economically viable aquaculture technologies and harvest & post-harvest technologies for production and productivity enhancement.	30	Species diversification	Broodstock and seed production technologies for finfish/shellfish species developed	Number	12	5	3	2	1	0
		Research support for feed formulation for finfish and shellfish species	Efficient and cost-effective feed for different life stages of finfish/ shellfish formulated	Number	10	5	3	2	1	0
		Value addition	Value added and ready to eat products developed	Number	8	5	3	2	1	0

Transfer of Technology, HRD and Training	24	Commercialization of process & products	Process and products commercialized	Number	3	2	1	0	0	0
		Education and Training in different aspects of fishing & fish processing technology	PG/Doctoral programmes conducted	Number of students	5	80	70	60	0	0
			Training and skill upgradation programmes conducted	Number of trainees	8	2000	1800	1600	1400	1200
		Consultancy services	Analytical & advisory support to the industry	Number	4	6	5	4	3	2
			Consultancy services undertaken	Number	4	10	8	7	6	5

Objective	Weight	Actions	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
Efficient Functioning of the RFD System	3	Timely submission of Draft RFD 2013-14 for approval	On-time submission	Date	2	May 15, 2013	May 16, 2013	May 17, 2013	May 20, 2013	May 21, 2013
		Timely submission of Results for RFD 2012-13	On-time submission	Date	1	May 1, 2013	May 2, 2013	May 5, 2013	May 6, 2013	May 7, 2013
Administrative Reforms	4	Implement ISO 9001 as per the approved action plan	% Implementation	%	2	100	95	90	85	80
		Prepare an action plan for Innovation	On time submission	Date	2	30/07/2013	10/08/2013	20/08/2013	30/08/2013	10/09/2013
Improving internal efficiency / responsiveness/ service delivery of Ministry/Department	4	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	2	100	95	90	85	80
			Independent Audit of implementation of public grievance redressed system	%	2	100	95	90	85	80

Section 3 – Trend Values of Success Indicators

Objective	Action (s)	Success Indicator (s)	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projecte d Value for FY 15/16
Assessment and monitoring of the fishery resources and the aquatic eco-systems to optimize fish production on a sustainable basis to provide food, nutritional, socio-economic and livelihood security	Resources Assessment and eco-system monitoring	Number of explorations/ surveys carried out	Number	60	128	120	130	135
	Culture based fisheries in reservoirs and wetlands	Improved production from reservoirs	kg/ha/yr	110	132	130	135	140
		Improved production from wetlands	kg/ha/yr	750	1078	1000	1050	1100
	Mariculture and open sea cage farming	Mariculture technologies of commercially important cultivable marine finfish/shellfish species developed	Number of species	1	1	2	3	3
	Cataloguing and classification of fish biodiversity using classical and molecular tools	Fish biodiversity database updated, new species added	Number	3	71	75	80	85
		Molecular DNA markers for species identification developed	Number	1	48	40	45	50

Objective	Action (s)	Success Indicator (s)	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
Development of eco-friendly and techno-economically viable aquaculture technologies and harvest & post-harvest technologies for production and productivity enhancement.	Species diversification	Brood-stock and seed production technologies for finfish/shellfish species developed	number	2	5	3	4	4
	Research support for feed formulation for finfish and shellfish species	Efficient and cost-effective feed for different life stages of finfish/shellfish formulated	number	1	6	3	4	5
	Value addition	Value added and ready to eat products developed	Number	1	5	3	4	5

Objective	Action (s)	Success Indicator (s)	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
Transfer of Technology, HRD & Training	Commercialization of process & products	Process and products commercialized	Number	1	2	2	2	2
	Education and Training in different aspects of fishing & fish processing technology	PG/Doctoral programmes conducted	Number of students	70	82	70	70	70
		Training and skill upgradation programmes conducted	Number of trainees	1000	2613	2000	2200	2500
	Consultancy services	Analytical & advisory support to the industry	Number	5	9	6	8	10
		Consultancy services undertaken	Number	10	9	10	11	12

Objective	Action (s)	Success Indicator (s)	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 13/14	Projected Value for FY 14/15
Efficient Functioning of the RFD System	Timely submission of RFD for 2014-15 for approval	On-time submission	Date			16/05/2013		
	Timely submission of Results for RFD (2012-13)	On-time submission	Date			02/05/2013		
Administrative Reforms	Implement ISO 9001 as per the approved plan	% of implementation	%			95		
	Prepare an action plan for Innovation	On time submission	Date			10/08/2013		
Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%			95		
		Independent Audit of implementation of public grievance redressal system	%			95		

Section 4 : Acronyms

S.No	Acronym	Description
1	HRD	Human Resource Development
2	PG	Post Graduate
3	DNA	Deoxyribonucleic acid
4	CIFE	Central Institute of Fisheries Education

Section 4 : Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No.	Success indicator	Description	Definition	Measurement	General Comments
1	Number of explorations/surveys carried out	Explorations/surveys are important to study aquatic & fishery resources	Exploration/surveys of fishery resources are studies to know the status of fish in quantity and quality, and availability of any new species.	number	This helps in fish biodiversity assessment
2	Improved production from reservoirs	Improvement in fish production in reservoirs	Fish production from reservoirs is based mainly on culture cum capture basis. Fish are to be stocked to improve the production from the reservoirs.	kg/ha/yr	There is very good scope to increase fish production in reservoirs.
3	Improved production from wetlands	Improvement in fish production in wetlands	Fish production from wetlands which are mostly seasonal, is based mainly on culture cum capture basis. Fish are to be stocked to improve the production from the wetlands.	kg/ha/yr	There is very good scope to increase fish production in wetlands.
4	Mariculture technologies of commercially important cultivable marine finfish/shellfish species developed	Mariculture is a process wherein marine fish production can be increased by developing or improving the suitable technologies.	Mariculture technology is used to rear a particular marine aquatic organism in confinement for large scale production.	Number of species	Mariculture is very useful to produce marine fin fish and shell fishes in large numbers.
5	Fish biodiversity database updated, new species added.	Fish biodiversity database updation is regular process wherein new species as and when found, are added.	Fish biodiversity database provide very useful information about the availability of species.	Number	This helps in species selection for aquaculture.
6	Molecular DNA markers for species identification developed	Molecular DNA markers are used for confirming species validation.	Molecular marker is a fragment of DNA that is associated with a certain location within the genome.	Number	Very useful in species and their products validation

7	Brood-stock and seed production technologies for finfish/shellfish species developed	Good quality brood fish and technology for the seed production of finfish/shellfish species are developed	Broodstock are mature one ready for spawning and fish seed are produced in the form of fish fry or fingerlings	Number	The are essential to include new species for production and improve the productivity of the existing ones.
8	Efficient and cost-effective feed for different life stages of finfish/shellfish formulated	Development of new feed formulations from locally available ingredients	Incorporation of new feed ingredients in on-farm fish feed and its suitable strategies	Number	Efficient and low cost feed formulation and feeding strategies are useful to enhance farm income
9	Value added and ready to eat products developed	Different products including ready to eat ones from different fish species are prepared	Value added products are prepared from either part or entire body of the organisms which may include ready to eat products too.	Number	These products add value to the fish produced and available for ready consumption.
10	Process and products commercialized	Various process for producing fish and fish related products are commercialized for large scale production.	Process are methodologies involved in fish resource assessments, fish production, biodiversity up-dation and fish and fishery related product development.	Number	These are aimed for transfer of useful technologies to the users and stake holders.
11	PG/Doctoral programmes conducted	These are related to Fisheries Education	These are Masters and Ph.D. programs in various disciplines of fish and fisheries.	Number	These programs are being conducted at CIFE, Mumbai
12	Analytical & advisory support to the industry	These are Analysis of samples and products for various purposes. Advisory support to fish industry and fish farmers for improving their performance.	Test samples analyzed for different purposes and advisory support is extended for fishing and fish production , and processing etc.	Number	This helps in solution of various problems of fish industry.
13	Consultancy services undertaken	The Consultancy Services are extended to public as well as private agencies in various disciplines of fisheries.	Consultancy services provide expert advice in areas of interest.	Number	This helps in guidance for management of resources, creation of infrastructures , product development & in finding solution to various problems.

Section 5 : Specific Performance Requirements from other Departments

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met.
Science & Development	Govt. of India	Development of Science & Technology	Dept. of Biotechnology	Molecular DNA markers for species identification developed	Support for funding	Funds are required for developing molecular tools	Funding will depend on the nature of the projects	Shall be managed from ICAR funds
Development & Management Organisation	Govt. of India	Assessment and Management of Environment & Forests	Ministry of Environment & Forest	1.Production from reservoirs improved. 2.Production from wetlands improved	Permission to conduct research in water bodies under its control	To increase fish production, access to these water bodies is required	As per availability	Rate of increase in fish production will slow down
Fisheries Development	Govt. of India	Enhancing Fish Production in country	National Fisheries Development Board; Min. of Agriculture	1. Number of explorations/ surveys carried out 2. Brood-stock and seed production technologies for finfish/shellfish species developed	Support for funding	Funds are required fishery resource assessment and species and system diversification in fish production	Funding will depend on the nature of the projects	Shall be managed from ICAR funds

Section 6: Outcome/ Impact of Department/Ministry

Sl. No.	Outcome/ Impact of Ministry/ Department	Jointly responsible for influencing this Outcome/ Impact with the following Departments/ Ministry (ies)	Success indicator (s)	Unit	2011-12	2012-13	2013-14	2014-15	2015-16
1	2	3	4	5	6	7	8	9	10
1.	Increased fish production and productivity from open water systems on a sustainable basis	Ministry of Agriculture; Ministry of Science & Technology; Ministry of Environment & Forest;	Number of explorations/ surveys carried out	Number	60	128	120	130	135
			Productivity enhancement of reservoirs	kg./ha./yr.	100	132	130	135	140
			Productivity enhancement of wetlands (kg./ha./yr.)	kg./ha./yr.	700	1078	1000	1050	1100
2.	Increased fish production and productivity from aquaculture systems		Development of eco-friendly and techno-economically viable aquaculture technologies through species and system diversification	Number	1	3	3	4	4
			Process and products commercialized	Number	1	2	2	2	3
3.	Availability of specialized / trained manpower to support the fisheries & aquaculture sector through human resource development, capacity building and skill upgradation		Students passed out under various academic programmes	Number	70	82	70	70	70
			Persons trained under various training and skill upgradation programmes	Number	700	2613	2000	2200	2500

