



Government of India

R F D

(Results-Framework Document)
for

Fisheries

(2014-2015)

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

- 1 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.
- 2 Development of eco-friendly and techno-economically viable aquaculture technologies and post-harvest technologies for production and productivity enhancement.
- 3 Transfer of Technology, HRD and Training.

Functions

- 1 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

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
[1] 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.	35.00	[1.1] Resources Assessment and eco-system monitoring	[1.1.1] Explorations/ surveys carried out	Number	8.00	130	125	120	115	110
		[1.2] Culture based fisheries in reservoirs and wetlands	[1.2.1] Improved production from reservoirs	kg/ha/yr	5.00	130	120	110	100	90
			[1.2.2] Improved production from wetlands	kg/ha/yr	5.00	1000	900	800	700	600
		[1.3] Mariculture and open sea cage farming	[1.3.1] Mariculture technologies of commercially important cultivable marine finfish/ shellfish species developed	Number of species	6.00	2	1	0.75	0.50	0
		[1.4] Cataloguing and classification of fish biodiversity using classical and molecular tools	[1.4.1] Fish biodiversity database updated, species added	Number	6.00	60	50	40	30	20
[1.4.2] Molecular DNA markers for species identification developed	Number		5.00	40	30	20	10	0		
[2] Development of eco-friendly and technoeconomically viable aquaculture technologies and post-harvest technologies for production and productivity	28.00	[2.1] Species diversification	[2.1.1] Broodstock and seed production technologies for finfish/shellfish species	Number	12.00	2	1	0.75	0.50	0

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
enhancement.			developed							
		[2.2] Research support for feed formulation for finfish and shellfish species	[2.2.1] Efficient and cost-effective feed for different life stages of finfish/shellfish formulated	Number	8.00	2	1	0.75	0.50	0
		[2.3] Value addition	[2.3.1] Value added and ready to eat products developed	Number	8.00	5	3	1	0.50	0
[3] Transfer of Technology, HRD and Training.	24.00	[3.1] Commercialization of process & products	[3.1.1] Process and products commercialized	Number	3.00	2	1	0.75	0.50	0
		[3.2] Education and training in different aspects of fishing & fish processing technology	[3.2.1] PG/Doctoral programmes conducted	number of Students	7.00	80	70	60	50	40
			[3.2.2] Training and skill upgradation programmes conducted	Number of Trainees	10.00	2500	2000	1500	1000	500
		[3.3] Consultancy services	[3.3.1] Consultancy services undertaken	number	4.00	10	8	6	4	2
* Efficient Functioning of the RFD System	3.00	Timely submission of Draft RFD for 2014-2015 for Approval	On-time submission	Date	2.0	15/05/2014	16/05/2014	19/05/2014	20/05/2014	21/05/2014
		Timely submission of Results for 2013-2014	On-time submission	Date	1.0	01/05/2014	02/05/2014	05/05/2014	06/05/2014	07/05/2014

* Mandatory Objective(s)

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
* Enhanced Transparency / Improved Service delivery of Ministry/Department	3.00	Rating from Independent Audit of implementation of Citizens' / Clients' Charter (CCC)	Degree of implementation of commitments in CCC	%	2.0	100	95	90	85	80
		Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%	1.0	100	95	90	85	80
* Administrative Reforms	7.00	Update organizational strategy to align with revised priorities	Date	Date	2.0	01/11/2014	02/11/2014	03/11/2014	04/11/2014	05/11/2014
		Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC).	% of Implementation	%	1.0	100	90	80	70	60
		Implementation of agreed milestones for ISO 9001	% of implementation	%	2.0	100	95	90	85	80
		Implementation of milestones of approved Innovation Action Plans (IAPs).	% of implementation	%	2.0	100	90	80	70	60

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 12/13	Actual Value for FY 13/14	Target Value for FY 14/15	Projected Value for FY 15/16	Projected Value for FY 16/17
[1] 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.	[1.1] Resources Assessment and eco-system monitoring	[1.1.1] Explorations/ surveys carried out	Number	128	116	125	130	135
	[1.2] Culture based fisheries in reservoirs and wetlands	[1.2.1] Improved production from reservoirs	kg/ha/yr	132	125	120	125	130
		[1.2.2] Improved production from wetlands	kg/ha/yr	1078	1223	900	1050	1100
	[1.3] Mariculture and open sea cage farming	[1.3.1] Mariculture technologies of commercially important cultivable marine finfish/ shellfish species developed	Number of species	1	3	1	2	3
	[1.4] Cataloguing and classification of fish biodiversity using classical and molecular tools	[1.4.1] Fish biodiversity database updated, species added	Number	71	82	50	80	85
		[1.4.2] Molecular DNA markers for species identification developed	Number	48	69	30	45	50
[2] Development of eco-friendly and techno-economically viable aquaculture	[2.1] Species diversification	[2.1.1] Broodstock and seed production technologies for	Number	5	3	1	2	2

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 12/13	Actual Value for FY 13/14	Target Value for FY 14/15	Projected Value for FY 15/16	Projected Value for FY 16/17
technologies and post-harvest technologies for production and productivity enhancement.		finfish/shellfish species developed						
	[2.2] Research support for feed formulation for finfish and shellfish species	[2.2.1] Efficient and cost-effective feed for different life stages of finfish/shellfish formulated	Number	6	1	1	2	2
	[2.3] Value addition	[2.3.1] Value added and ready to eat products developed	Number	5	10	3	4	5
[3] Transfer of Technology, HRD and Training.	[3.1] Commercialization of process & products	[3.1.1] Process and products commercialized	Number	2	5	1	2	3
	[3.2] Education and training in different aspects of fishing & fish processing technology	[3.2.1] PG/Doctoral programmes conducted	number of Students	82	81	70	80	80
		[3.2.2] Training and skill upgradation programmes conducted	Number of Trainees	2613	5825	2000	2500	3000
	[3.3] Consultancy services	[3.3.1] Consultancy services undertaken	number	9	17	8	11	12
* Efficient Functioning of the RFD System	Timely submission of Draft RFD for 2014-2015 for Approval	On-time submission	Date	--	--	16/05/2014	--	--
	Timely submission of Results for 2013-2014	On-time submission	Date	--	--	02/05/2014	--	--

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 12/13	Actual Value for FY 13/14	Target Value for FY 14/15	Projected Value for FY 15/16	Projected Value for FY 16/17
* Enhanced Transparency / Improved Service delivery of Ministry/Department	Rating from Independent Audit of implementation of Citizens' / Clients' Charter (CCC)	Degree of implementation of commitments in CCC	%	--	--	95	--	--
	Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%	--	--	95	--	--
* Administrative Reforms	Update organizational strategy to align with revised priorities	Date	Date	--	--	02/11/2014	--	--
	Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC).	% of Implementation	%	--	--	90	--	--
	Implementation of agreed milestones for ISO 9001	% of implementation	%	--	--	95	--	--
	Implementation of milestones of approved Innovation Action Plans (IAPs).	% of implementation	%	--	--	90	--	--

* Mandatory Objective(s)

Section 4: Acronym

Sl.No	Acronym	Description
1	CIFE	Central Institute of Fisheries Education
2	DNA	Deoxyribonucleic acid
3	HRD	Human Resource Development
4	ICAR	Indian Council of Agricultural Research
5	PG	Post Graduate
6	Ph.D.	Doctor of Philosophy

Section 4: Acronym

Sl.No	Acronym	Description
7	R and D	Research and Development

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
1	[1.1.1] 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	[1.2.1] 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	[1.2.2] 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	[1.3.1] 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.

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
5	[1.4.1] Fish biodiversity database updated, species added	Fish biodiversity database updating 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	[1.4.2] 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	[2.1.1] Broodstock 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	They are essential to include new species for production and improve the productivity of the existing ones.
8	[2.2.1] 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	[2.3.1] 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.

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
10	[3.1.1] 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 updation and fish and fishery related product development.	Number	These are aimed for transfer of useful technologies to the users and stake holders.
11	[3.2.1] 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	[3.2.2] Training and skill upgradation programmes conducted	Activities related to knowledge and skill improvement/upgradation for the benefit of entrepreneurs, fishers & fish farmers, women self-help groups and other stakeholders	This activity would facilitate developing trained manpower in all the aspects of fisheries, aquaculture, harvest and post-harvest technologies and other related subject areas.	Number of Trainees	Human Resource Development to support the sector.
13	[3.3.1] 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 4:
Description and Definition of Success Indicators and Proposed Measurement Methodology

SI.No	Success indicator	Description	Definition	Measurement	General Comments
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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.
Central Government		Departments	All Department/Ministry	[1.4.2] 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
			Department of Animal Husbandry, Dairying and Fisheries	[1.1.1] Explorations/ surveys carried out	Support for funding	Funds are required for 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
				[2.1.1] Broodstock and seed production technologies for finfish/shellfish species developed	Support for funding	Funds are required for 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
		Ministry	M/o Environment & Forests	[1.2.1] Improved production from reservoirs	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
				[1.2.2] Improved production from wetlands	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

Section 6: Outcome/Impact of Department/Ministry

Outcome/Impact of Department/Ministry	Jointly responsible for influencing this outcome / impact with the following department (s) / ministry(ies)	Success Indicator	Unit	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17
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	Explorations/surveys carried out	Number	128	116	125	130	135
		Improved production from reservoirs	kg./ha./yr	132	125	120	125	130
		Improved production from wetlands	kg./ha./yr	1078	1223	900	1050	1100
2 Increased fish production and productivity from aquaculture systems	Ministry of Agriculture; Ministry of Science & Technology; Ministry of Environment & Forest	Development of eco-friendly and techno-economically viable aquaculture technologies through species and system diversification	Number	5	3	1	2	2
		Process and products commercialized	Number	2	5	1	2	3
3 Availability of specialized / trained manpower to support the fisheries & aquaculture sector through human resource development, capacity building and skill upgradation	Ministry of Agriculture; Ministry of Science & Technology; Ministry of Environment & Forest	Students passed out under various academic programmes	Number	82	81	70	80	80
		Persons trained under various training and skill upgradation programmes	Number	2613	5825	2000	2500	3000