



# **Results-Framework Document (RFD)**

**for**

## **Central Inland Fisheries Research Institute (2014-2015)**

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## **Section 1:**

### **Vision, Mission, Objectives and Functions**

#### **Vision**

Sustainable fisheries from inland open waters for environmental integrity, livelihood and nutritional security

#### **Mission**

Knowledge based management for enhanced fishery, conservation of biodiversity, integrity of ecological services and to derive social benefits from inland open waters

#### **Objectives**

- Development of technologies/protocols for productivity enhancement in reservoirs and wetlands and conservation of rivers and associated ecosystems
- Monitor environmental changes, their impacts on fisheries and develop mitigation action plans
- Training in inland open water fisheries management

#### **Functions**

- Undertake basic, strategic and applied research in inland open water resources *viz.* rivers, reservoirs, wetlands, estuaries and associated waters
- Develop technologies and strategies for productivity enhancement in reservoirs and wetlands and conservation of rivers and associated ecosystems
- Monitor environmental changes, their impacts on fisheries and developing mitigation action plans in collaboration with other organizations
- Create awareness; provide training and consultancy in inland open-water fishery management

**Section 2:**  
**Inter se priorities among key objectives, success indicators and targets**

Sl. No.	Objectives	Weight	Actions	Success Indicators	Unit	Weight	Target /Criteria Value				
							Excellent	Very Good	Good	Fair	Poor
							100%	90%	80%	70%	60%
1	Development of technologies/ protocols for productivity enhancement in reservoirs and wetlands and conservation of rivers and associated ecosystems	35	Assessment of ecology, biodiversity, environmental flows, fisheries and fish stocks of rivers, estuaries and mangroves, reservoirs and wetlands	Surveys / explorations made in rivers, estuaries and mangroves, reservoirs and wetlands	Number	12	24	20	18	16	14
				Management protocols/guidelines/database developed	Number	5	3	2	1	0	0
				Environmental flow estimated for rivers/river stretches	Number	5	3	2	1	0	0
			Enhance productivity of wetlands and reservoirs	kg/ha/year	6	125	120	115	110	105	
			Increased fish yield from targeted wetlands	kg/ha/year	7	1100	1050	1000	950	900	
2	Monitor environmental changes, their impacts on fisheries and develop mitigation action plans	25	Ecosystem health assessment and development of management / mitigation technologies/ protocols	River stretches /wetlands/Reservoirs assessed for health status	Number	10	6	5	4	3	2
				Health assessment protocols / pollution markers	Number	5	4	3	2	1	0

				developed							
			Assessment of fisheries resources using GIS/models	Water bodies assessed/models developed	Number	10	6	5	4	3	2
3	Training in inland open water fisheries management	20	Conduct training	Persons trained	Number	20	500	450	400	350	300
4	Publication/Documentation	5	Publication of the research articles in the journals having the NAAS rating of 6.0 and above	Research articles published	Number	3	10	8	6	4	2
			Timely publication of the Institute Annual Report (2013-2014)	Annual Report published	Date	2	June 30, 2014	July 02, 2014	July 04, 2014	July 07, 2014	July 09, 2014
	Fiscal Resource Management	2	Utilization of released plan fund	Plan fund utilized	%	2	98	96	94	92	90
	Efficient Functioning of the RFD System	3	Timely submission of Draft RFD (2014-15) for approval	On-time submission	Date	2	May 15, 2014	May 16, 2014	May 19, 2014	May 20, 2014	May 21, 2014
			Timely submission of Results for RFD (2013-14)	On-time submission	Date	1	May 1, 2014	May 2, 2014	May 5, 2014	May 6, 2014	May 7, 2014
	Enhanced Transparency / Improved Service Delivery of Ministry/ Department	3	Rating from Independent Audit of Implementation of Citizen's / Client's Charter (CCC)	Degree of implementation of commitments in CCC	%	2	100	95	90	85	80
			Independent Audit of implementation of Grievance Redress Management (GRM)	Degree of Success in implementing GRM	%	1	100	95	90	85	80

		system								
Administrative Reforms	7	Update departmental strategy to align with revised priorities	Date	Date	2	Nov. 1, 2014	Nov. 2, 2014	Nov. 3, 2014	Nov. 4, 2014	Nov. 5, 2014
		Implement agreed milestones of approved Mitigating Strategies for Reduction of potential risks of corruption (MSC)	% of Implementation	%	1	100	90	80	70	60
		Implementation of agreed milestones for ISO 9001	% of Implementation	%	2	100	95	90	85	80
		Implement agreed milestones of approved Innovation Action Plans (IAPs)	% of Implementation	%	2	100	90	80	70	60

**Section 3:  
Trend Values of the Success Indicators**

Sl. No.	Objective(s)	Action(s)	Success indicator(s)	Unit	Actual value for 2011 - 2012	Actual value for 2012 - 2013	Actual value for 2013 - 2014	Projected value for 2014-2015	Projected value for 2015-2016
1	Development of technologies/ protocols for productivity enhancement in reservoirs and wetlands and conservation of rivers and associated ecosystems	Assessment of ecology, biodiversity, environmental flows, fisheries and fish stocks of rivers, estuaries and mangroves, reservoirs and wetlands	Surveys / explorations made in rivers, estuaries and mangroves, reservoirs and wetlands	Number	10	16	20	20	22
			Management protocols/guidelines/database developed	Number	2	2	2	2	4
			Environmental flow estimated for rivers/river stretches	Number		2		2	2
		Enhance productivity of wetlands and reservoirs	Increased fish yield from targeted reservoirs	kg/ha/year	110	118	125	125	130
			Increased fish yield from targeted wetlands	kg/ha/year	1000	1078	1100	1125	1150
2	Monitor environmental changes, their impacts on fisheries and develop mitigation action plans	Ecosystem health assessment and development of management / mitigation technologies/ protocols	River stretches /wetlands/Reservoirs assessed for health status	Number	3	3	4	5	6
			Health assessment protocols / pollution markers developed	Number	1	1	4	3	4

		Assessment of fisheries resources using GIS/models	Water bodies assessed/models developed	Number	5	5	6	5	6
3	Training in inland open water fisheries management	Conduct training	Persons trained	Number	200	240	572	450	500
4	Publication/Documentation	Publication of the research articles in the journals having the NAAS rating of 6.0 and above	Research articles published	Number				8	10
		Timely publication of the Institute Annual Report (2013-2014)	Annual Report published	Date				July 02, 2014	
	Fiscal Resource Management	Utilization of released plan fund	Plan fund utilized	%				96	
	Efficient Functioning of the RFD System	Timely submission of Draft RFD (2014-15) for approval	On-time submission	Date				May 16, 2014	
		Timely submission of Results for RFD (2013-14)	On-time submission	Date				May 2, 2014	
	Enhanced Transparency / Improved Service Delivery of Ministry/ Department	Rating from Independent Audit of Implementation of Citizen's / Client's 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 departmental strategy to align with revised priorities	Date	Date				Nov 2, 2014	
		Implement agreed milestones of approved Mitigating Strategies for Reduction of potential risks of corruption (MSC)	% of Implementation	%				90	
		Implementation of agreed milestones for ISO 9001	% of Implementation	%				95	
		Implement agreed milestones of approved Innovation Action Plans (IAPs)	% of Implementation	%				90	

**Section 4:  
Acronym**

Sl. No.	Acronym	Description
01	GIS	Geographical Information System
02	NRS	National Remote Sensing



## Section 4:

### Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl. No.	Success indicator	Description	Definition	Measurement	General comments
1	Surveys / explorations made in rivers, estuaries and mangroves, reservoirs and wetlands	Survey and explorations are the basic requirement for data collection for the assessment of ecology, biodiversity and fisheries of rivers, estuaries, reservoirs and wetlands	Study of a geographical area to gather data on various parameters of natural dynamics	Number of surveys/ explorations made in rivers estuaries, reservoirs and wetlands	Explorations and surveys serve as base for data collection
2	Management protocols/guidelines/database developed	Any management effort needs to be based on strong protocols developed on empirical database	A set of measures, management guidelines, steps; implementation of which would lead to conservation of the resource/ species in question	Number of such management protocols/ technologies prepared/developed	Management protocols are system specific, hence each major resource need a set of specific protocols based on the ecological, social and economic conditions prevailing
3	Increased fish yield from targeted reservoirs	The average fish yield of reservoirs in India is 110kg/ha/year, which can be increased further through managerial and technological interventions	Increase in fish in terms of kg/ha/year or unit area fish production	The amount of increment in yield achieved in terms of kg/ha/year	The increment is expected from the reservoirs targeted by the Institute for yield increment; the management/ technological interventions can then be extended to other similar reservoirs
4	Increased fish yield from targeted wetlands	The average fish yield of wetlands in India is 1000kg/ha/year, which can be increased further through managerial and	Increase in fish in terms of kg/ha/year or unit area fish production	The amount of increment in yield achieved in terms of kg/ha/year	The increment is expected from the wetlands targeted by the Institute for yield increment; the

		technological interventions			management/ technological interventions can then be extended to other similar reservoirs
5	River stretches /wetlands/Reservoirs assessed for health status	The ecosystem health of open water can be accessed through a suit of methods for amelioration	Measurement of the health status of inland open waters through a suite of diagnostic tools available or developed	Number of open water bodies where health assessment carried out	Monitoring of health of ecosystems are needed for framing conservation and management steps
6	Health assessment protocols / pollution markers developed	A set of tools in the form of management practices/ protocols/ pollution markers or models through which ecosystem health can be assessed	Ways through which the health of an ecosystem can be measured/ assessed	Number of such protocols/ markers/ models developed for ecosystem health assessment	These can be used for other agencies for assessing the health of an ecosystem
7	Water bodies assessed/models developed	Assessment of water bodies through GIS or models is prerequisites for informed decision support for management of open waters	Representation of open water bodies in conventional or electronic form showing physical and ecological features and large collection of data organized for rapid search and retrieval	Number of water bodies assessed or models developed	These maps and data bases are essential and modern tools for decision support on management of open waters
8	Persons trained	The knowledge and skills of stakeholders will be enhanced by organizing training in areas of interest, emerging fields and also based on needs of stakeholders	Training is a process of acquisition of new skills, attitude and knowledge.	Number of persons trained through such programs	Skill and knowledge enhancement of Stakeholders for sustainable management/ fisheries

## 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
State Government	Jharkhand Madhya Pradesh, Himachal Pradesh, Karnataka	Departments	Directorate of Fisheries	Increased fish yield from reservoirs	Making reservoir available for intervention	To take measures for increasing fish yield from reservoirs	Making one reservoir from each target state available	No intervention will be possible for increasing fish yield from reservoirs
State Government	Eastern and North-Eastern States	Departments	Directorate of Fisheries	Increased fish yield from wetlands	For making available wetlands for study and financial support	To take measures for increasing fish yield from wetlands	Making eight wetlands from the target states available	No intervention will be possible for increasing fish yield from wetlands
Central and State Government		Departments and Ministries	Ministry of Water Resources; Ministry of Environment and Forests, State Govts	River stretches /wetlands/Reservoirs assessed for health status	For river discharge and historical data on fisheries, Access to reservoirs and wetlands	To calculate environmental flow, study of health parameters	Discharge and historical data on fisheries from target rivers	Proper study on health status of rivers, wetlands and reservoirs will be hampered
Central Government		Department	NRS Centre	Water bodies assessed/models developed	For cloud free images	Required for preparation of resource maps	For preparation of map of any resource	Without cloud free image GIS base resource maps cannot be prepared.

**Section 6:  
Outcome/ Impact of activities of organization**

Sl. No	Outcome/ Impact of Organization	Joint responsibilities for influencing this Outcome/Impact with the following Organization (s)/ Departments/ Ministry	Success indicators	Unit	2011-12	2012-13	2013-14	2014-15	2015-16
1	Enhanced fish yield from reservoirs resulted in enhanced daily income for fishers	State Fisheries Departments of the targeted States	Increased daily income per fisher from reservoir fisheries	%	33.33	52.57	64.85	81.82	96.97
2	Enhanced fish yield from floodplain wetlands	State Fisheries Departments, Of the targeted States	Increased daily income per fisher from wetland fisheries	%	19.05	36.51	48.41	60.71	73.41

**Signed by RFD committee:**

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