



Results-Framework Document (RFD)
for
Central Inland Fisheries Research Institute
(2012-2013)

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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

- Sustainable management of ecology, fisheries and biodiversity of inland open waters
- Environmental health assessment and remediation; resource assessment, data mining and modelling
- Socio-economics and valuation of resources
- Transfer of technology, training and consultancy services

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

Objectives	Weight (%)	Actions	Success Indicators	Unit	Weight (%)	Target /Criteria Value				
						Excellent	Very good	Good	Fair	Poor
						100%	90%	80%	70%	60%
Sustainable management of ecology, fisheries and biodiversity of inland open waters	39	Assessment of ecology, fisheries and biodiversity of major rivers and estuaries for developing resource management plans	Explorations/ surveys carried out in rivers and estuaries	Number	5	16	12	10	8	6
			Management plans/ protocol/ guidelines prepared	Number	4	3	2	1	0	0
		Assessment of environmental flows requirement of selected rivers	Flow requirements estimated for rivers	Number	3	3	2	1	0	0
			Assessment of mangrove-fish ecosystem for biodiversity and fish conservation	Explorations/ surveys conducted	Number	5	12	10	8	7
		Management plans/ protocol/ guidelines prepared		Number	4	2	1	0	0	0
		Enhance productivity of wetlands and reservoirs	Reservoirs investigated	Number	3	4	3	2	1	0
			Productivity enhanced from reservoirs	kg/ha/year	3	120	118	116	114	112
			Wetlands investigated	Number	2	4	3	2	1	0
			Productivity enhanced from wetlands	kg/ha/year	3	1100	1075	1050	1025	1020

		Enhance fish production from enclosure culture	Fish production enhanced from cages	Kg/m ³	4	15	12	10	8	6
			Fish production enhanced from pens	Kg/ha	3	4100	4090	4080	4070	4060
Environmental health assessment and remediation; resource assessment, data mining and modeling	25	Health benchmarking of major river systems and development of rapid health assessment protocol	River systems assessed for health	Number	4	3	2	1	0	0
			Rapid health assessment protocol developed	Number	4	3	2	1	0	0
			Status paper/ reports published	Number	4	2	1	0	0	0
		Assessment of the impact of climate change on fish breeding	Number of States evaluated	Number	3	8	7	6	5	4
		Assessment of microbial diversity of open water systems for pollution amelioration	Systems investigated	Number	3	4	3	2	1	0
			Microbes identified	Number	4	18	16	10	6	4
		Assessment and monitoring of inland aquatic resources using Remote Sensing and GIS	Resources evaluated for GIS development	Number	3	18	16	14	12	10
Socio-economics, and valuation of resources	10	Inventorization of inland open waters based on their institutional arrangements	Water bodies inventorized for institutional arrangements	Number	4	3	2	1	0	0
		Fishers' asset	Districts mapped	Number	3	4	3	2	1	0

		mapping in Ganga river basin								
		Valuation of goods and services of selected inland open-waters	Goods and services valued	Number	3	2	1	0	0	0
Transfer of technology, training and consultancy services	14	Technology protocols/ guidelines transfer	Technology/ protocols/ guidelines transferred/ published	Number	1	2	1	0	0	0
			Analytical and advisory services	Number	1	3	2	1	0	0
		Consultancy services	Service provided	Number	3	2	1	0	0	0
		Training and awareness	Persons trained	Number	5	250	240	230	220	210
			Awareness campaigns/ exhibitions	Number	4	15	14	13	12	11
Efficient functioning of RFD system	12	Timely submission of RFD for 2012-13	On-time submission	Date	2	23-Mar-12	26-Mar-12	27-Mar-12	28-Mar-12	29-Mar-12
		Timely submission of Results for 2012-13	On-time submission	Date	1	1-May-13	2-May-13	3-May-13	6-May-13	7-May-13
Administrative Reforms		Implement ISO 9001	Prepare ISO 9001 action plan	Date	1	4-Jun-12	5-Jun-12	6-Jun-12	7-Jun-12	8-Jun-12
		Implement mitigating strategies for reducing potential risk of corruption	Implementation of ISO 9001 action plan	Date	2	25-Mar-13	26-Mar-13	27-Mar-13	28-Mar-13	29-Mar-13
			% of implementation	%	2	100	95	90	85	80
Improving internal efficiency		Implementation of Sevottam	Independent audit of implementation of Citizen's	%	2	100	95	90	85	80

/responsiveness / service delivery of Ministry/ Department		Charter.							
		Independent audit of implementation of public grievance redressal system	%	2	100	95	90	85	80

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

Objectives	Actions	Success Indicators	Unit	Actual value FY 10/11	Actual value FY 11/12	Target value FY 12/13	Projected value FY 13/14	Projected value FY 14/15
Sustainable management of ecology, fisheries and biodiversity of inland open waters	Assessment of ecology, fisheries and biodiversity of major rivers and estuaries for developing resource management plans	Explorations/ surveys carried out in rivers and estuaries	Number	8	10	12	14	16
		Management plans/ protocol/ guidelines prepared	Number	0	1	2	2	2
	Assessment of environmental flows requirement of selected rivers	Flow requirements estimated for rivers	Number	0	0	2	2	2
	Assessment of mangrove-fish ecosystem for biodiversity and fish conservation	Explorations/ surveys conducted	Number	6	6	10	12	14
		Management plans/ protocol/ guidelines prepared	Number	0	0	1	1	1
	Enhance productivity of wetlands and reservoirs	Reservoirs investigated	Number	2	2	3	4	5
		Productivity enhanced from reservoirs	kg/ha/year	100	110	118	120	125
		Wetlands investigated	Number	2	2	3	4	6
		Productivity enhanced from wetlands	kg/ha/year	900	1000	1075	1125	1150
	Enhance fish production from enclosure culture	Fish production enhanced from cages	Kg/m3	8	10	12	15	20
		Fish production enhanced from pens	Kg/ha	4000	4050	4090	4100	4150
	Environmental health assessment and remediation;	Health benchmarking of major river systems and development of rapid health assessment protocol	River systems assessed for health	Number	1	2	2	2
Rapid health assessment protocol developed			Number	0	1	2	2	2

resource assessment, data mining and modelling		Status paper/ reports published	Number	1	1	1	2	2
	Assessment of the impact of climate change on fish breeding	Number of States evaluated	Number	0	7	7	9	10
	Assessment of microbial diversity of open water systems for pollution amelioration	Systems investigated	Number	1	2	3	4	4
		Microbes identified	Number	5	16	16	18	20
	Assessment and monitoring of inland aquatic resources using Remote Sensing and GIS	Resources evaluated for GIS development	Number	12	16	16	18	20
Socio-economics and valuation of resources	Inventorization of inland open waters based on their institutional arrangements	Water bodies inventorized for institutional arrangements	Number	0	0	2	4	4
	fishers' asset mapping in Ganga river basin	Districts mapped	Number	0	0	3	4	4
	Valuation of goods and services of selected inland open-waters	Goods and services valued	Number	0	1	1	2	2
Transfer of technology, training and consultancy services	Technology protocols/ guidelines transfer	Technology/ protocols/ guidelines transferred/ published	Number	0	1	1	2	3
		Analytical and advisory services	Number	0	2	2	4	4
	Consultancy services	Service provided	Number	1	1	1	2	2
	Training and awareness	Persons trained	Number	150	200	240	275	300
		Awareness campaigns/ exhibitions	Number	10	10	14	16	18
Efficient functioning of RFD system	Timely submission of RFD for 2012-13	On-time submission	Date			26-Mar-12		
	Timely submission of Results for 2012-13	On-time submission	Date			2-May-13		

Administrative Reforms	Implement ISO 9001	Prepare ISO 9001 action plan	Date			5-Jun-12		
	Implement mitigating strategies for reducing potential risk of corruption	Implementation of ISO 9001 action plan	Date			26-Mar-13		
		% of implementation	%			95		
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 grievances redressal system	%			95		

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

Objective 1 pertains to management of inland open waters, enhancing their fish production and conservation of biodiversity through development of resource management plans/guidelines/protocols and technological interventions. The success of the objective can be measured through the exploratory surveys made, management protocols/ guidelines prepared, resources investigated and the fish production enhanced.

Objective 2 refers to health assessment, resource mapping of inland open waters and developing remediation technologies/ protocols. The success of the objective can be measured through open water resources assessed/ mapped for health, health assessment protocols developed, status paper/ reports published.

Objective 3 cover assessment of the socio economic status of inland fisheries and economic valuation open water resources. Success can be measured through water bodies investigated, fishers' assets mapped and number of resources where goods and services are valued.

Objective 4 pertains to technology/ protocols/ guidelines transferred/ published, analytical, advisory, consultancy services provided, persons trained and awareness campaign/ exhibitions conducted.

The Action and Success Indicators, under each of the objectives, have been identified depending on the priority of the sector and availability of expertise and manpower and the needs and requirements of stakeholders and beneficiaries.

It is expected that by undertaking these programmes, there would be increase in fish production, conservation of resources, enhanced trained manpower in the sector and higher visibility of the Institute. Implementation of the action plans, would lead to management of open water resources in a sustainable manner with conservation and judicious utilization of these natural resources to realise the vision of the Institute and that of the Fisheries Division and the overall vision of the ICAR.

Section 5: Specific Performance Requirements from other Departments

The Institute is working in close coordination and linkage with State Fisheries Departments, Universities, funding agencies and numerous stakeholders and fishers, besides various other institutions having similar interests and mandates, both within and outside the ICAR system under the broad umbrella of 'National Agricultural Research System'. The success indicators in terms of sustainable natural resources management and increasing their fish production strongly depend on the support from these organizations and institutions, besides the prevailing socio-economic, political and policy environment of various States, as open waters are multi stakeholder, multi use resources, controlled and governed mostly by State Government Departments. Timely execution of the action plans depends on the availability of funds, manpower dynamics and the implementation of the management guidelines and protocols, technologies by State Governments, line departments, State Fisheries Departments, owners. Hence, the success will depend on these factors. The Institute's role is mainly as a technical partner by providing appropriate management guidance and protocols/ technologies.

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

Sl. No.	Outcome/ Impact of Organization	Joint responsibility for influencing this Outcome/Impact with the following Organization (s)/ Departments/ Ministry	Success indicator	Unit	2010-11	2011-12	2012-13	2013-14	2014-15
1	Enhanced fish production from reservoirs on a sustainable basis	State Governments, State Fisheries Departments, Funding and development agencies like NFDB, Adoption of technologies by various agencies	Increased fish production from targeted reservoirs	kg/ha/year	100	110	120	125	130
2	Enhanced fish production from floodplain wetlands on a sustainable basis	State Governments, State Fisheries Departments, Funding and development agencies like NFDB, Adoption of technologies by wetland management, fisheries co-operative societies	Increased fish production from targeted wetlands	kg/ha/year	900	1000	1075	1125	1150

Signed by RFD committee:

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Director, Chairman: