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Results Framework Document

for

(Department of Animal Husbandry, Dairying & Fisheries)

Fisheries Survey of India (FSI)
(Mumbai)

(2012-2013)

Section: Vision, Mission, Objectives and Functions

Vision

Development, conservation and management of marine fishery resources by survey and assessment of fish stocks, charting of fishing grounds in the Indian EEZ and popularization of ecofriendly fishing methods for ensuring sustainable fisheries development.

Mission

Dissemination of data collected through the surveys to the end-users through direct interaction for maintaining sustainability and growth of Indian fisheries sector by interfacing fisheries research, capacity building and frontline extension initiatives and policy support.

Objectives

1. Survey and assessment of fish stocks and charting of fishing grounds in the Indian EEZ and adjoining high seas.
2. Monitoring of fisheries resources for fisheries regulation, management and conservation.
3. Assessment of suitability of deep-sea fishing gear with special reference to the concepts of maximum sustainable yield, preservation of environment and ecology of marine ecosystem.
4. Marine fisheries forecasting including application of remote sensing in fisheries management.
5. Maintaining data on deep-sea fishery resources and dissemination of information to different user groups.
6. Human Resource development through training of fishing operatives and meeting faculty requirements of sister institutes and organizations.

The Institute also implements Centrally Sponsored Scheme on Strengthening of data collection, compilation and processing of the marine fisheries statistics, besides, conducting marine fisheries census and act as an interface between the States/UT's and the Ministry of Agriculture.

Section 2:

Inter se Priorities among Key Objectives, Success indicators and Targets

(For period from 1st APRIL 2012 to 31st MARCH 2013)

Objective	Wt	Actions	Success Indicator	Unit	Wt	Target/Criteria Value				
						Ex - 100%	VG (90%)	Good -80%	Fair - 70%	Poor -60%
Survey, monitoring and assessment of fish stocks and charting of fishing grounds in the Indian EEZ and adjoining high seas	46%	Demersal resources survey	No. of surveys carried out	voyages	43%	70	63	56	49	42
		pelagic resources survey	No. of surveys carried out	voyages	3%	5	4	4	3	3
Survey and assessment oceanic resources and charting of fishing grounds in the Indian EEZ and adjoining high seas	24%	Oceanic resources survey	No. of surveys carried out	Voyages	24%	39	35	31	27	23
Maintaining data on deep-sea fishery resources and dissemination of information to different user groups	15%	Data products/ Regional workshop s/ Exhibition s/ open houses and media broadcast	No. of Regional workshops/ Exhibitions/ open houses and media broadcast	No	15%	48	44	40	37	28
Human Resource development through training of fishing operatives and meeting faculty requirements of sister institutes and organizations	15%	Capacity building	No. of persons trained	No	15%	220	180	160	140	120

Section 3:

Trend Values of the Success Indicators

Objective	Weight	Actions	Success Indicator	Unit	AV for 08-09	AV for 09-10	AV for 10-11	AV for 11-12#	TV for 12-13
Survey and assessment of fish stocks and charting of fishing grounds in the Indian EEZ and adjoining high seas	46%	Demersal resources survey	No. surveys carried out	voyages	71	55	32	45	70
		pelagic resources survey	No. surveys carried out	voyages	10	4	6	5	5
Survey and assessment oceanic resources and charting of fishing grounds in the Indian EEZ and adjoining high seas	24%	Oceanic resources survey	No. surveys carried out	voyages	43	25	37	22	37
Assessment of suitability of deep-sea fishing gear with special reference to the concepts of maximum sustainable yield, preservation of environment and ecology of marine ecosystem	5%	Eco -friendly Trap fishing	No. surveys carried out	No. of traps	1420	1061	0	0	0
		Eco -friendly Bottom set vertical longline	No. surveys carried out	hours	288	139	0	0	2
Maintaining data on deep-sea fishery resources and dissemination of information to different user groups	10%	Data products/ Regional workshops/ Exhibitions/ open houses and media broadcast	No of Regional workshops/ Exhibitions/ open houses and media broadcast	No.	27	19	38	13	48
Human Resource development through training of fishing operatives and meeting faculty requirements of sister institutes and organizations	15%	Capacity building	No. of persons trained	No	140	179	214	220	220

*Three vessels decommissioned in recent years and two vessels are in dry-docking repairs for prolonged period and hence reduction in achievement

Actual Value for the year 2011-12 up to January 2012.

Abbreviations used:

AV – Actual Value; TV – Target Value

Section 3:

Trend Values of the Success Indicators

The performance of the Institute and success indicators will be influenced and affected by the following factors

1. Natural Conditions: Weather and sea conditions will affect the performance of survey vessels.
2. Delay in dry-docking repairs and getting clearance from the concerned Agencies/Departments for the voyage will also affect the performance of the survey vessels.
3. Number of persons trained will depend on the applications/proposals received from State Governments and funds allocated by funding Agencies.

Section 4:

Description and Definition of Success Indicators and Proposed Measurement Methodology

1. Survey and assessment of fish stocks and charting of fishing grounds in the Indian EEZ and adjoining high seas: The FSI has made commendable progress in the survey of demersal fish stocks in the continental shelf and slope.
2. Monitoring of fisheries resources for fisheries regulation, management and conservation: Monitoring surveys are important to update our information on the status of different fish stocks, their distribution and density for evolving management measures for suitable development.
3. Assessment of suitability of deep-sea fishing gear with special reference to the concepts of maximum sustainable yield, preservation of environment and ecology of marine ecosystem: In order to develop and promote new fishing practices and fishing gear which will not contribute physical and biological degradation of marine ecosystem and to minimize incidence of by-catch, the FSI undertakes experimental fishing using species-specific fishing gears.
4. Maintaining data on deep-sea fishery resources and dissemination of information to different user group: The stock assessment studies invariably require large volume of exploratory data collected through the surveys undertaken by the vessels over a period of time and space. The FSI through the operation of its large number of survey fleet have collected voluminous data over the years and these data are stored in the data bank of the Computer Division at Headquarters. At present the FSI data bank holds about 2,000,00 records and about 3000 records are added annually. The data management is ORACLE/SQL RDBM.
5. Human Resource development through training of fishing operatives and meeting faculty requirements of sister institutes and organizations: The FSI provides in-vessel training to fishing operatives sponsored by CIFNET enabling them to acquire necessary sea service. Onboard practical training is also imparted to candidates undergoing courses of fishing Skipper and Engineer, deputed by the Government Polytechnic, Port Blair. On specific requests from the State Governments, FSI arranges trainings on different fishing technologies.

Section 5:

Specific Performance Requirements from other Departments

1. D.G.Shipping/MMD : Delay in getting the LSA/FFA certificate from MMD will affect the performance of survey programme.
2. Shipyards : Delay in dry-docking repairs and getting clearance from the concerned agencies/Departments for the voyages will also affect the performance of the survey vessels.
3. Natural conditions : Weather and sea conditions will affect the performance of survey vessels.
4. Ministry /Funding Agencies : Number of persons trained will depend on the applications/proposals received from state Governments and funds allocated by funding agencies.

Section 6:

Outcomes/Impact of activities of Department/Responsibility Centre (RC)

Outcome/Impact of Department/Ministry	Jointly responsible for influencing this outcome / impact with the following department (s) / ministry(ies)	Success Indicator	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14
Dissemination of Information on fishery resources to fishing industry	State Government / DDK / Akashwani and Fishing industry	Dissemination of fishery resources survey findings	19	38	13	48	50
Human resources development	State government / CIFNET / NFDB	Number of persons trained for different diversified fishing methods	179	214	220	220	250