



Results-Framework Document
(RFD)
for
Directorate of Rice Research
(2013-2014)

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Section 1: Vision, Mission, Objectives and Functions

Vision

Welfare of the present and future generations of Indian rice farmers and consumers by ensuring food and nutritional security

Mission

Develop technologies to enhance rice productivity, resource and input use efficiency and profitability of rice cultivation without adversely affecting the environment

Objectives

1. Identification and validation of technologies for different ecologies under AICRIP
2. Genetic enhancement for yield, quality and resistance for sustainable rice production
3. Development and dissemination of appropriate crop production and protection technologies for maximizing yield

Functions

- To conceptualize, initiate, monitor Institutional Research Projects aimed at enhancing rice production and productivity
- To propose, defend/compete and initiate network/single institute research projects with external funding in frontier and emerging areas of rice research
- To organize AICRP on rice studies involving multi-location testing and identification of technologies for diverse rice ecologies
- To coordinate breeder seed production of rice varieties and hybrid parental lines to meet the demands of DAC
- To coordinate front-line demonstrations of proven varietal and production technologies as per the DAC requirements
- To disseminate knowledge and skills through formal training, informal out-reach activities and exploring ICT

Section 2:

Inter se Priorities among Key Objectives, Success indicators and Targets

S.No.	Objective	Weight	Action	Success indicators	Unit	Weight	Target/ Criteria value				
							Excellent	Very Good	Good	Fair	Poor
							100%	90%	80%	70%	60%
1	Identification & validation of technologies for different ecologies under AICRIP	39	Development of improved varieties suited to diverse agro ecologies	Varieties/hybrids identified for release	No.	16	15	12	10	8	6
			Organizing multi-disciplinary multi-location trials	Entries evaluated	No.	15	1100	1000	950	850	750
				Management practices identified	No.	8	10	8	6	4	2
2	Genetic enhancement for yield, quality and resistance for sustainable rice production	30	Evaluation of genetic material for crop improvement programmes	Breeding/germplasm lines and experimental hybrids evaluated	No.	15	500	400	300	200	100
				Lines identified for unique traits	No.	11	8	6	4	3	2
			Seed production programme to ensure quality seed availability	Breeders seed produced	MT	3	600	550	500	400	300
				Truthfully labeled seed produced	MT	1	60	50	40	30	20
3	Development and dissemination of appropriate crop production & protection technologies for maximizing yield	20	Development of new technologies	Production/protection technologies tested	No	14	17	15	13	10	7
			Dissemination of technologies	Trainings organized	No.	5	8	7	6	5	4
				Demonstrations of technologies conducted	No.	1	600	500	400	300	200
*	Efficient Functioning of the RFD System	3	Timely submission of Draft RFD (2013-14) for approval	On-time submission	Date	2	15/05/2013	16/05/2013	17/05/2013	20/05/2013	21/05/2013
			Timely submission of Results for RFD (2012-13)	On-time submission	Date	1	01/05/2013	02/05/2013	05/05/2013	06/05/2013	07/05/2013

	* 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 redressal system	%	2	100	95	90	85	80

Section 3:

Trend Values of the Success Indicators

S.No.	Objective	Action	Success indicators	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
1	Identification & validation of technologies for different ecologies under AICRIP	Development of improved varieties suited to diverse agro ecologies	Varieties/hybrids identified for release	No.	6	18	12	13	14
		Organizing multi-disciplinary multi-location trials	Entries evaluated	No.	1082	1090	1000	1050	1100
			Management practices identified	No.	7	7	8	9	10
2	Genetic enhancement for yield, quality and resistance for sustainable rice production	Evaluation of genetic material for crop improvement programmes	Breeding/germplasm lines and experimental hybrids evaluated	No.	900	425	400	450	500
			Lines identified for unique traits	No.	15	8	6	7	8
		Seed production programme to ensure quality seed availability	Breeders seed produced	MT	725	560	550	600	625
			Truthfully labeled seed produced	MT	109	45	50	55	60
3	Development and dissemination of appropriate crop production & protection technologies for maximizing yield	Development of new technologies	Production/protection technologies tested	No	19	18	15	16	17
		Dissemination of technologies	Trainings organized	No.	4	7	7	8	9
			Demonstrations of technologies conducted	No.	300	572	500	550	600
	* Efficient Functioning of the RFD System	Timely submission of Draft RFD (2013-14) 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 action plan.	% 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	-	-

** Mandatory Objectives*

Section 4: Acronyms

S.No.	Acronym	Description
1.	AICRIP	All India Coordinated Rice Improvement Project
2.	DAC	Department of Agriculture and Cooperation
3.	ICT	Information and Communication Technology
4.	INGER	International Network for Genetic Evaluation of Rice
5.	IPM	Integrated Pest Management
6.	IRRI	International Rice Research Institute
7.	NBPGR	National Bureau of Plant Genetic Resources

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

Sl.No.	Success indicator	Description	Definition	Measurement	General Comments
1.	Varieties/hybrids identified for release	Breeding lines tested along with checks in multi-location trials through All India Coordinated Research Project and the best performing entries compared to checks are identified as new improved varieties for release	Best performing entries identified as a new variety for release	Number of such varieties identified	Targets for varieties identified given in Section 2 and their respective trend values in Section 3 may vary as the identification of varieties depend upon the availability of superior material with respect to yield, biotic and abiotic resistance/tolerance over the existing varieties
2.	Entries evaluated	Source material for the improved varieties to be evaluated under AICRIP	Material generated from the basic germplasm	Number of breeding lines evaluated	
3.	Management practices identified	Various rice management practices for increased production identified under AICRP network	Best management practices identified for different ecologies under multi-location testing	Number of such practices identified	To facilitate increased productivity with reduced input use
4.	Breeding/germplasm lines and experimental hybrids evaluated	Source material for the improved varieties/germplasm to be evaluated	Material generated from the basic germplasm	Number of breeding lines/germplasm evaluated	
5.	Lines identified for unique traits	Evaluation of genetic material for crop improvement	Lines identified for specific traits	Number of lines identified	

6.	Breeders seed produced	Produce from nucleus and breeder seed is the starting point in seed chain of producing quality seeds for farmers	Breeder seed is the starting point in seed chain which is multiplied/ converted in to foundation /certified seed	Quantity produced	Quantity may vary as per indent from DAC
7.	Truthfully labeled seed produced	The seed is produced from foundation or certified seed	Truthfully labeled seed is not subjected to certification but the quality and purity are ensured by the providing agency	Quantity produced	Quantity may vary depending on the demand for the varieties included in the production
8.	Production/protection technologies tested	Development of appropriate crop production & protection technologies for maximizing yield	The improved technologies are aimed at reduction of the cost of cultivation, to increase profits for the farmer and to sustain rice farm system productivity under changing climate.	Number of technologies tested	
9.	Trainings organized	Capacity building activities on rice production technologies to extension personnel as well as farmers	Training programmes are key for updating of knowledge and skill of faculty and farmers	Number	No. of trainings organized may vary as per the availability of funds from sponsoring agencies
10.	Demonstrations of technologies conducted	Trials and demonstrations conducted for technology testing and proving the technology potential production	Demonstration is the field demonstration conducted on farmers' field under the close supervision of scientists	Number	

**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.
INGER		Network	International Network for Genetic Evaluation of Rice	Entries evaluated	Germplasm	Collection of germplasm	Availability of germplasm	Less or more no. of entries will be evaluated
Central Government		Departments	Department of Agriculture and Cooperation	Breeders seed produced	Indent for quantity of breeder seed	Variety wise indent for breeder seed	Quantity of breeder seed is produced as per the indent	Less or more quantity of breeder seed will be produced
Central and state government		Departments and agencies	Department of Agriculture and Cooperation and other funding agencies	Trainings organized	Funds for organizing trainings	Funds for conduct of trainings	Trainings are organized as per the availability of funds from sponsoring agencies	Less or more no. of trainings will be organized

Section 6:

Outcome/Impact of Organization

S.No.	Outcome/Impact of organization	Jointly responsible for influencing this outcome/impact with the following Department(s)/Ministry	Success indicator	Unit	2011-12	2012-13	2013-14	2014-15	20 15-16
1	Enhanced rice productivity	DAC / Line Departments	Increase in productivity	%	1.8	1.9	2.0	2.1	2.2
2	Enhanced farmers' income	-	Improvement in farmers' income	%	10.8	17.9	6.9	10.1	9.6