



**Results-Framework Document (RFD)**  
**for**  
**Central Rice Research Institute**  
**(2013-2014)**

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## **Section 1:**

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

#### **Vision**

Food and nutritional security through sustainable rice production.

#### **Mission**

To develop and disseminate eco-friendly rice production technologies for enhancing productivity and profitability of rice cultivation in all agro-climatic situations.

#### **Objectives**

1. Genetic enhancement and development of improved cultivars
2. Development and identification of appropriate crop production and protection technologies
3. Technology dissemination and capacity building

#### **Mandate of the Institute**

- Conduct basic, applied and adaptive research on crop improvement and resource management for increasing and stabilizing rice productivity in different rice ecosystems with special emphasis on rainfed ecosystems and the related abiotic stresses.
- Generation of appropriate technology through applied research for increasing and sustaining productivity and income from rice and rice-based cropping/farming systems in all the ecosystems in view of decline in per capita availability of land.
- Collection, evaluation, conservation and exchange of rice germplasm and distribution of improved plant materials to different national and regional research centres.
- Development of technology for integrated pest, disease and nutrient management for various farming situations.
- Characterization of rice environment in the country and evaluation of physical, biological, socioeconomic and institutional constraints to rice production under different agro-ecological conditions and in farmers' situations and develop remedial measures for their amelioration.
- Maintain database on rice ecology, ecosystems, farming situations and comprehensive rice statistics for the country as a whole in relation to their potential productivity and profitability.
- Impart training to rice research workers, trainers and subject matter/extension specialists on improved rice production and rice-based cropping and farming systems.
- Collect and maintain information on all aspects of rice and rice-based cropping and farming systems in the country.

**Section 2: Inter-se priorities among key objectives, Success Indicators and Targets**

Sl.No.	Objectives	Weight	Actions	Success Indicators	Unit	Weight	Target / Criteria Value				
							100%	90%	80%	70%	60%
1	[1] Genetic enhancement and development of improved cultivars	68	[1.1] Evaluation of genetic material	[1.1.1] Breeding and germplasm lines evaluated	Number	15	600	550	500	450	400
				[1.1.2] Entries tested in AICRIP trials for multi-location testing	Number	5	500*	450	400	350	300
				[1.1.3] Lines identified for unique traits	Number	8	5	4	3	2	1
			[1.2] Development of improved cultivars	[1.2.1] Entries contributed for AICRIP multi-location trial	Number	10	100	90	80	70	60
				[1.2.2] Varieties identified for release	Number	10	3	2	1	0	0
			[1.3] Seed production programme	[1.3.1] Breeder seed produced	Weight MT	15	50 <sup>#</sup>	45	40	35	30
[1.3.2] Truthfully labeled seed produced	Weight MT	5		60	55	50	45	40			
2	Development and identification of appropriate crop production & protection technologies	12	[2.1]Development and testing of new technologies	[2.1.1]New technologies identified & tested	Number	12	10	9	8	7	6
3	Technology dissemination and capacity building	9	[3.1]Demonstrations conducted	[3.1.1]Front line demonstrations conducted	Number	4	20	18	16	14	12
			[3.2]Farmers/ Extension officials training programmes organized	[3.2.1]Trainings organized	Number	5	10 <sup>†</sup>	9	8	7	6

Efficient functioning of RFD system	3	Timely submission of Draft RFD (2013-14) for approval	On-time submission	Date	2	May. 15 2013	May16 2013	May. 17 2013	May. 20 2013	May. 21 2013
		Timely submission of results for RFD ( 2012-13)	On-time submission	Date	1	May 1 2013	May 2 2013	May 5 2013	May 6 2013	May 7 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	July 30 2013	Aug.10 2013	Aug.20 2013	Aug.30 2013	Sept. 10 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

\*As per the materials received from AICRIP

# As per the DAC indent received

† As per sponsorship received

### Section 3: Trend values of the Success Indicators

Sl. No.	Objectives	Actions	Success indicators	Unit	Actual value for FY 2011-2012	Actual value for FY 2012-2013	Target value for FY2013-2014	Projected values for FY2014-2015	Projected values for FY 2015-2016
1	Genetic enhancement and development of improved cultivars	[1.1]Evaluation of genetic material	[1.1.1]Breeding and germplasm lines evaluated	Number	498	2470*	550	560	570
			[1.1.2]Entries tested in AICRIP trials for multi-location testing	Number	740	758	450	455	460
			[1.1.3]Lines identified for unique traits	Number	4	5	4	5	6
		[1.2]Development of improved cultivars	[1. 2.1]Entries contributed for AICRIP multi-location trial	Number	153	225	90	92	94
			[1.2.2]Varieties identified for release	Number	13	7	2	3	4
		[1.3]Seed production programme	[1.3.1]Breeder seed produced	Weight MT	30	45	45	47	50
[1.3.2]Truthfully labelled seed produced	Weight MT		68	42.8	55	57	59		
2	Development and identification of appropriate crop production & protection technologies	[2.1]Development and testing of new technologies	[2.1.1]New technologies identified & tested	Number	10	8	9	10	11
3	Technology dissemination and capacity building	[3.1]Demonstrations conducted	[3.1.1]Front line demonstrations conducted	Number	10	19	18	19	20
		[3.2]Farmers/ Extension officials training programmes organized	[3.2.1]Trainings organized	Number	6	9	9	10	11

Efficient functioning of RFD system	Timely submission of Draft RFD (2013-14) for approval	On-time submission	Date			16-5-2013		
	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		

\* Higher achievement due to evaluation of more number of germplasms under the project EAP 172 in collaboration with NBPGR and NICRA project

#### Section 4: Acronyms

<b>Sl. No.</b>	<b>Acronym</b>	<b>Description</b>
1	AICRIP	All India Coordinated Rice Improvement Project
2	DAC	Department of Agriculture and Cooperation
3	MT	Metric Tonne

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

Sl. No.	Success indicators	Description	Definition	Measurement	General comments
1	Breeding and germplasm lines evaluated	Germplasm which is source for improved varieties and newly developed breeding lines to be evaluated	Germplasm is a collection of genetic resources for rice	Number of germplasm and breeding lines evaluated	
2	Entries tested in AICRIP trials for multi-location testing	Breeding lines received from AICRIP are tested at the Institute	Breeding lines developed all over the country are tested through AICRIP for identification of promising entries	Number	No. of entries depends on materials received from AICRIP
3	Lines identified for unique traits	Lines with unique traits to be identified from the germplasm	Germplasm lines with very specific characteristics to be identified	Number	This will help in identification of lines useful for improving specific economic traits
4	Entries contributed for AICRIP multi-location trial	Breeding lines developed through various projects are nominated for different trials of AICRIP to know their performance over locations	Breeding lines nominated by the Institute for multi-location trials of AICRIP	Number	No. of entries will depend on performance in on-station trial
5	Varieties identified for release	Breeding lines tested along with checks in multi-location trials through All India Coordinated Research Projects 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
6	Breeder 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 (MT)	Quantity may vary as per indent from DAC
7	Truthfully labelled seed produced	Truthfully labelled seed is produced at the Institute for supplying quality seeds of popular varieties to farmers	Truthfully labelled seed is the progeny of foundation, certified or labeled seed	Quantity produced (MT)	Quantity will depend on farmers' demand for quality seed
8	New technologies identified & tested	New crop production & protection technologies for rice to be identified and tested to achieve profitable and higher rice production	Production technologies help in increasing production of rice, improving soil health and reducing cost of cultivation. Protection technologies help in economic control of diseases and insect-pests of rice	Number	
9	Front line demonstrations conducted	Front line demonstrations are conducted for technology testing in the farmers conditions	Frontline demonstration is the field demonstration conducted on farmers field under the close supervision of scientists	Number	
10	Trainings organized	Capacity building activities related to rice knowledge and skill improvement/development programmes conducted for extension personnel and progressive farmers	Training is a process of acquisition of new skills, attitude and knowledge in the context of preparing for entry into a vocation or improving productivity in an organization or enterprise	Number	Number of trainings depends on sponsorship received

## 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 and State Governments	States with AICRIP centres	ICAR, State Department	AICRIP and State Agricultural Departments	[1.2.2] Varieties identified for release	Multi-location testing of breeding lines	Co-ordinating multi location testing	No. of breeding lines tested	Less nos. of varieties will be identified for release
Central and State Governments	States indenting for breeder seed	Departments	DAC, State Agricultural Departments	[1.3.1] Breeder seed produced	Indent for quantity of breeder seed	Variety wise indent for breeder seed	Quantity of breeder seed produced as per the indent	Less quantity of breeder seed will be produced
Central Government		Departments	DAC	[3.1.1] Front line demonstrations conducted	Funding and indent	For conducting demonstrations	Funding as per the indent	Less nos. of demonstrations will be conducted
Central and State Governments	All rice growing states	Departments	DAC and other funding agencies	[3.2.1] Trainings organized	Funding and indent	For organizing trainings	Funding as per the indent	Less nos. of trainings will be organized

### Section 6: Outcome/Impact of Organization

Sl. No.	Outcome/impact of organization	Jointly responsible for influencing this outcome/impact with the following department(s)/ministry(ies)	Success indicators	Unit	2011-12	2012-13	2013-14	2014-15	2015-16
1	Enhanced rice productivity	DAC, Ministry of Rural Development, State Agriculture Departments and NGOs	Increase in productivity	Percent	1.6	1.8	2.0	2.25	2.5