



Results-Framework Document (RFD)

for

Directorate of Maize Research
(2014-2015)

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Section 1: Vision, Mission, Objectives and Functions

Vision

Rapid growth in the food, feed and industrial application of maize and maize-based products, for generation of wealth and employment in farming and industrial sectors, and for all those who are directly or indirectly associated with maize cultivation and utilization

Mission

Enhancing the productivity, profitability and competitiveness of maize and maize-based farming system with economic and environmental sustainability

Objectives

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

Functions

1. To carry out basic, strategic and applied research aimed at enhancement of production and productivity of maize in the country.
2. To conduct and coordinate multi-disciplinary and multi-location research to identify appropriate technologies for varied agro-climatic conditions in different parts of India
3. Germplasm collection, evaluation, maintenance and its enhancement.
4. To develop specialty corn cultivars such as Quality Protein Maize, baby corn, sweet corn, bio-fuel etc for diverse uses.
5. To conduct training, frontline demonstrations and on-farm research to maximize and accelerate adoption of research findings and innovative technologies.
6. To serve as core centre for maize research material and information
7. To develop linkages with national, international and private sector for collaborative research program.
8. To provide consultancy services and undertake contractual research

Section 2: *Inter se* priorities among Key Objectives, Success Indicators and Targets

S. No.	Objective(s)	Weight	Action(s)	Success Indicator(s)	Unit	Weight	Target/Criteria value				
							Excellent	Very Good	Good	Fair	Poor
							100%	90%	80%	70%	60%
1	Genetic enhancement and development of improved cultivars	50	Evaluation of genetic material	Breeding and germplasm lines evaluated	Number	20	1320	1100	880	660	440
				Entries tested in AICRP trials for multi-location testing	Number	10	288	240	196	152	108
				Lines identified for unique traits	Number	5	13	11	9	7	5
			Development of improved cultivars	Entries contributed for AICRP multi-location trial	Number	5	146	122	98	74	50
				Varieties identified for release	Number	5	5	4	3	2	1
			Seed production programme	Breeder seed produced	Weight (Quintals)	5	66	55	44	33	22
2	Development and identification of appropriate crop production and protection technologies	15	Development and testing of new technologies	New technologies tested	Number	8	6	5	4	3	2
				Technologies recommended	Number	7	3	2	1	0	0

3	Technology dissemination and capacity building	15	Demonstrations conducted	Front line demonstrations conducted	Number	5	180	150	120	90	60
			Farmers/ Extension officials training programmes organized	Trainings organized	Number	10	8	7	6	5	4
*	Publication/Documentation	5	Publication of the research articles in the journals having the NAAS rating of 6.0 and above	Research articles published	No.	3	4	3	2	1	0
			Timely publication of the Institute Annual Report (2013-2014)	Annual Report published	Date	2	30.06.2014	02.07.2014	04.07.2014	07.07.2014	09.07.2014
*	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 for 2014-2015 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 2013-2014	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/Depart	3	Rating from Independent Audit of implementation of Citizens' / Clients' Charter (CCC)	Degree of implementation of commitments in CCC	%	2	100	95	90	85	80

	ment		Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%	1	100	95	90	85	80
*	Administrative Reforms	7	Update organizational strategy to align with revised priorities	Date	Date	2	Nov.1 2014	Nov.2 2014	Nov. 3 2014	Nov. 4 2014	Nov. 5 2014
			Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk 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
			Implementation of milestones of approved Innovation Action Plans (IAPs)	% of implementation	%	2	100	90	80	70	60

*Mandatory objective(s)

Section 3: Trend Values of the Success indicators

S. No.	Objective	Action	Success Indicator	Unit	Actual Value for FY 2012-2013	Actual Value for FY 2013-2014	Target Values for FY 2014-2015	Projecte d Values for FY 2015-2016	Projecte d Value for FY 2016-2017
1.	Genetic enhancement and development of improved cultivars	Evaluation of genetic material	Breeding and germplasm lines evaluated	Number	2985	1298	1100	1200	1300
			Entries tested in AICRP trials for multi-location testing	Number	349	298	240	250	260
			Lines identified for unique traits	Number	2	10	11	12	13
		Development of improved cultivars	Entries contributed for AICRP multi-location trial	Number	192	156	122	124	126
			Varieties identified for release	Number	6	10	4	5	6
		Seed production programme	Breeder seed produced	Weight (Quintals)	108	65.5	55	60	65
2.	Development and identification of appropriate crop production and protection technologies	Development and testing of new technologies	New technologies tested	Number	3	5	5	6	7
			Technologies recommended	Number	1	3	2	3	4
3.	Technology dissemination and	Demonstrations conducted	Front line demonstrations	Number	75	550	150	175	200

	capacity building		conducted						
		Farmers/ Extension officials training programmes organized	Trainings organized	Number	7	7	7	8	9
*	Publication/ Documentation	Publication of the research articles in the journals having the NAAS rating of 6.0 and above	Research articles published	No.	3	3	3	4	5
		Timely publication of the Institute Annual Report (2013-2014)	Annual Report published	Date	-	-	02.07.2014	-	-
*	Fiscal resource management	Utilization of released plan fund	Plan fund utilized	%	100	96	96	97	98
*	Efficient Functioning of the RFD System	Timely submission of Draft RFD for 2014-2015 for Approval	On-time submission	Date	-	-	May 16, 2014	-	-
		Timely submission of Results for 2013-2014	On-time submission	Date	-	-	May 2, 2014	-	-
*	Enhanced Transparency / Improved Service delivery of Ministry	Rating from Independent Audit of implementation of Citizens' / Clients' 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 organizational strategy to align with	Date	Date	-	-	Nov.2, 2014	-	-

		revised priorities							
		Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC).	% of implementation	%	-	-	90	-	-
		Implementation of agreed milestones for ISO 9001	% of implementation	%	-	-	95	-	-
		Implementation of milestones of approved Innovation Action Plans (IAPs).	% of implementation	%	-	-	90	-	-

*Mandatory objective(s)

Section 4 (a): Acronyms

S. No.	Acronym	Description
1	AICRP	All India Coordinated Research Project
2	DAC	Department of Agriculture and Cooperation
3	FLDs	Front Line Demonstrations

Section 4 (b): Description and definition of success indicators and proposed measurement methodology

SI No.	Success Indicator	Description	Definition	Measurement	General Comments
1	Breeding and germplasm lines evaluated	Source material for the improved cultivars to be evaluated	Material generated from source germplasm	Number of accessions/ lines evaluated	
2	Entries tested in AICRP trials for multi-location testing	Entries contributed for multi-location at different level of testing through All India Coordinated Research Project on Maize	Relative performance of entries	Number	
3	Lines identified for unique traits	Basic germplasm is evaluated for traits like biotic and abiotic stress resistance/tolerance	Resistant/ tolerant lines identified for use in breeding program	Number of lines identified	
4	Entries contributed for AICRP multi-location trial	Newly developed on-station hybrids evaluated in AICRP multi-location testing	Relative performance of experimental hybrids	Number of entries contributed	
5	Varieties identified for release	Newly developed hybrids along with checks in multi-location trials through All India Coordinated Research Project on Maize	Best performing entries identified for release	Number of such hybrids identified	Identification of varieties/ hybrids depend upon the availability of superior material with respect to yield, biotic and abiotic resistance/tolerance over the existing hybrids
6	Breeder seed produced	Produce from nucleus and breeder seed is the starting point in the seed chain of producing quality seed for farmers	Breeder seed is the starting point in the seed chain which is multiplied/converted into foundation/ certified seed	Quantity produced	Quantity may vary as per indent of DAC
7	New technologies tested	Testing of newly developed production and protection technologies for improving maize productivity	Better crop management	Number	
8	Technologies recommended	Tested production and protection technologies recommended to farmers	Crop management for enhanced productivity	Number	
9	Front line demonstrations conducted	Demonstrations conducted for technology testing and providing the technology potential production	Frontline demonstration is the field demonstration conducted on farmers field under the close supervision of the scientists	Number	Number may vary as per approval of DAC
10	Trainings organized	Capacity building activities related to knowledge and skill improvement/ development programmes conducted for farmers, rural youth and extension personnel	Training is a process of acquisition of new skills, attitude and knowledge in the context of improving productivity in an organization	Number	

Section 5: Specific performance requirements from other departments that are critical for delivering agreed results

Location Type	State	Organization Type	Organization Name	Relevant Success Indicator	What is your requirement from this organization	Justification for this requirement	Please quantify your requirement from this Organization	What happens if your requirement is not met
Central Government		Departments	Department of Agriculture and Cooperation	Breeder seed produced	Indent for quantity of breeder seed	Hybrid wise indent of breeder seed	Quantity of breeder seed is produced as per indent	Less or more quantity of breeder seed will be produced
Central Government		Departments	Department of Agriculture and Cooperation	Front line demonstrations conducted	Timely allotment of funds/FLDs	Agency wise distribution	FLDs are conducted as per allotment	Less number of FLDs will be conducted

Section 6: Outcome/Impact of activities of Department/Ministry

S. No.	Outcome/ impact	Jointly responsible for influencing this outcome/ impact with the following department(s)/ organization(s)/ ministry(ies)	Success Indicator(s)	Unit	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
1.	Enhanced maize productivity	DAC, Planning commission, Ministry of Environment & Forests, Ministry of Rural development and state Governments	Increase in maize productivity (Base year 2010-11)	%	1.7	2.4*	2.2	2.4	2.6

*Based on 3rd advance estimate