



Results-Framework Document (RFD)

for

Directorate of Maize Research
(2013-2014)

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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 multidisciplinary 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.	Objectives	Weight	Actions	Success Indicators	Unit	Weight	Target/Criteria value				
							Excellent	Very Good	Good	Fair	Poor
							100%	90%	80%	70%	60%
1.	Genetic enhancement and development of improved cultivars	49	Evaluation of genetic material	Breeding and germplasm lines evaluated	Number	15	1100	1000	900	800	700
				Entries tested in AICRP trials for multi-location testing	Number	8	240	230	220	210	200
				Lines identified for unique traits	Number	7	11	10	9	8	7
			Development of improved cultivars	Entries contributed for AICRP multi-location trial	Number	6	122	120	118	116	114
				Varieties identified for release	Number	7	5	3	2	1	0
			Seed production programme	Breeder seed produced	Weight (Quintals)	6	55	50	45	40	35
2.	Development and identification of appropriate crop production and protection technologies	15	Development and testing of new technologies	New technologies tested	Number	8	5	4	3	2	1
				Technologies recommended	Number	7	3	2	1	0	0
3.	Technology dissemination and capacity building	25	Demonstrations conducted	Front line demonstrations conducted	Number	15	550	500	450	400	350
			Farmers/ Extension officials training programmes organized	Trainings organized	Number	10	7	6	5	4	3

* 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 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

*Mandatory Objective(s)

Section 3:
Trend Values of the Success indicators

S. No.	Objectives	Actions	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.	Genetic enhancement and development of improved cultivars	Evaluation of genetic material	Breeding and germplasm lines evaluated	Number	4435	2985	1000	1100	1200
			Entries tested in AICRP trials for multi-location testing	Number	313	349	230	240	250
			Lines identified for unique traits	Number	10	2	10	11	12
		Development of improved cultivars	Entries contributed for AICRP multi-location trial	Number	159	192	120	122	125
			Varieties identified for release	number	0	6	3	4	5
		Seed production programme	Breeder seed produced	Weight (Quintals)	172	108	50	55	60
2.	Development and identification of appropriate crop production and protection technologies	Development and testing of new technologies	New technologies tested	Number	2	3	4	5	6
			Technologies recommended	Number	1	1	2	2	3
3.	Technology dissemination and capacity building	Demonstrations conducted	Front line demonstrations conducted	Number	226	75	500	550	600
		Farmers/ Extension officials training programmes organized	Trainings organized	Number	14	7	6	7	8

* 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 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 Objective(s)

Section 4:

Acronyms

SI No.	Acronym	Description
1	AICRP	All India Coordinated Research Project
2	DAC	Department of Agriculture and Cooperation

Section 4:

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	
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

Location Type	State	Organization Type	Organization Name	Relevant Success Indicator	What is your requirement from his 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

Section 6:
Outcome/Impact of Department/Ministry

S. No.	Outcome/ impact of organization	Jointly responsible for influencing this outcome/impact with the following department(s)/ ministry(ies)	Success Indicator	Unit	2011-12	2012-13	2013-14	2014-15	2015-16
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)	%	-2.4*	1.7**	2	2.2	2.4

*Due to drought maize productivity decreased. **Based on 3rd advance estimate.