



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

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**Results Framework Document (RFD) for Directorate of Sorghum Research, Hyderabad
(2013-2014)**

**Section 1:
Vision, Mission, Objectives and Functions**

Vision

Enhancing competitiveness of sorghum through value addition to food, feed, fodder, and biofuel types of sorghum, and to enable nutritional security and economic prosperity of dryland farmers

Mission

Develop technologies to enhance sorghum productivity, resource and input use efficiency and profitability of sorghum cultivation.

Objectives

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

Functions

- To conduct basic and strategic research leading to technology development for increased productivity of sorghum, its diversified utilization, to promote profitability from sorghum based cropping systems and to serve as national repository of sorghum germplasm.
- To organize All-India multi-location, coordinated testing and identification of technologies for diverse sorghum ecologies.
- To coordinate breeder seed production of sorghum varieties and hybrid parental lines.
- To coordinate front-line demonstrations of proven varietal and production technologies.
- 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	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	60	Evaluation of genetic material	Breeding and germplasm lines evaluated	Number	10	320	300	290	275	260
				Entries from the institute that are tested in AICRP trials for multi-location testing	Number	8	8	6	5	3	2
				Lines identified for unique traits	Number	7	5	4	3	2	1
			Development of improved cultivars	Entries contributed for AICRP multilocation trial	Number	8	30	27	25	22	20
				Varieties identified for release	Number	7	3	2	1	0	0
			Seed production programme	Breeder seed produced	Weight MT	10	10	8	7	6	5
				Truthfully labeled seed produced	Weight MT	10	8	7	6	4	3
2	Development and identification of appropriate crop production & protection technologies.	15	Development and testing of new technologies	New technologies developed and tested	No.	15	2	1	0	0	0
3	Technology dissemination	14	Demonstrations conducted	Front line demonstrations conducted	No.	8	220	200	190	185	175

	and capacity building		Farmers/ Extension officials training programmes organized	Trainings organized		6	3	2	1	0	0
	Efficient functioning of RFD system	3	Timely submission of draft RFD (2013-14) for approval	On-time submission	Date	2.00	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	1.00	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	%	2.00	100	95	90	85	80
			Prepare an action plan for innovation	On-time submission	Date	2.00	30/07/2013	10/08/2013	20/08/2013	30/08/2013	10/09/2013
	Improving internal efficiency / responsiveness / service delivery of Institute	4	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	2.00	100	95	90	85	80
				Independent Audit of Implementation of public grievance redressal system	%	2.00	100	95	90	85	80

Section 3:

Trend Values of the Success Indicators

S. No.	Objectives	Actions	Success indicators	Unit	Actual Value FY 11-12	Actual Value FY 12-13	Target value FY13-14	Projecte d value FY 14-15	Projecte d value FY 15-16
1	Genetic enhancement and development of improved cultivars	Evaluation of genetic material	Breeding and germplasm lines evaluated	Number	275	290	300	320	330
			Entries from the institute that are tested in AICRP trials for multi-location testing	Number	5	6	6	7	8
			Lines identified for unique traits	Number	4	5	4	5	6
		Development of improved cultivars	Entries contributed for AICRP multilocation trial	Number	25	25	27	29	30
			Varieties identified for release	Number	5	2	2	2	3
		Seed production programme	Breeder seed produced	Weight MT	7	8	8	10	11
			Truthfully labeled seed produced	Weight MT	5	7	7	8	9
2	Development and identification of appropriate crop production & protection technologies	Development and testing of new technologies	New technologies developed and tested	Number	1	2	1	2	2
3	Technology dissemination and capacity building	Demonstrations conducted	Front line demonstrations conducted	Number	190	200	200	230	250
		Farmers/ Extension officials training programmes organized	Trainings organized	Number	2	2	2	3	4

	Efficient functioning of 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 Institute	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%			95		
			Independent Audit of Implementation of public grievance redressal system	%			95		

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

Section 4 : Acronyms

S.No	Acronym	Description
1	AICSIP	All India Co-ordinated Sorghum Improvement Project
2	DAC	Department of Agriculture and Co-operation
3	SAUs	State Agricultural Universities
4	NGO	Non Governmental Organisations
5	FLD	Front Line Demonstrations
6	ICT	Information and communication technology
7	AICRP	All India Co-ordinated Research Project
8	MT	Metric ton
9	DSR	Directorate of Sorghum Research
10	KVK	Krishi Vignana Kendra

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

S.No.	Success indicator	Description	Definition	Measurement	General Comments
1	Breeding and germplasm lines evaluated	Source material for the improved varieties/hybrids to be evaluated	Evaluation of diverse germplasm and advanced breeding lines for different traits	Number of lines evaluated	
2	Entries from the institute that are tested in AICRP trials for multi-location testing	The promising varieties/hybrids in the station trials will be contributed for multi-location testing under AICSIP	The genotypes with superiority for yield, biotic and abiotic stress resistance over the checks in the station trials are given for AICSIP testing	Number of such lines	Targets for genotypes identified given in Section 2 and their respective trend values in Section 3 may vary as the genotypes for testing depend upon the availability of superior material with respect to yield,

					biotic and abiotic resistance/ tolerance over the checks in station trials
3	Lines identified for unique traits	Germplasm and advanced breeding lines for specific traits such as stress resistance or quality	Identification of the lines with improved level of resistance or superior quality over the existing lines	Number of lines	The number depends on the availability of superior lines among the germplasm/ advanced lines tested
4	Entries contributed for AICRP multilocation trial	Total number of entries contributed by different centres for multilocation testing	Superior genotypes with higher yield over the checks from different centres are given for AICSIP testing	Number of lines contributed	Targets for genotypes identified given in Section 2 and their respective trend values in Section 3 may vary as the genotypes for testing depend upon the availability of superior material with respect to yield, biotic and abiotic resistance/ tolerance over the checks in station trials
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/ hybrids 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 (Quintals)	Quantity may vary as per indent from DAC
7	Truthfully labeled seed produced	The seed produced under supervision of scientist with out certificate	Quality seed for distribution	Quantity produced (Quintals)	
8	New technologies developed and tested	Certain ideas and technologies may be developed which is	Any technology aimed towards improved productivity, quality or resistance	Number	

		reflected as usable technology and methodology developed			
9	Front line demonstrations conducted	Trials and demonstrations conducted for technology testing	On-farm trials aims at testing new technologies under farmers condition and management, by using farmers own practice as control. 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 knowledge and skill improvement/ development programmes conducted for farmers, and extension personnel	Training is a process of acquisition of new skills, attitude and knowledge in the context of improving productivity	Number of training programmes	

Section 5: Specific Performance Requirements from other Departments

Conduct of Frontline Demonstrations is in collaboration and cooperation of the Department of Agriculture and Cooperation (DAC).

Breeder seed production is taken up at the behest of indents received from Department of Agriculture and Cooperation, and seed will be produced by our cooperators.

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.
Seed production areas	All AICSIP centres	SAUs, AICSIP centres and DSR	DAC	Breeder seed produced	Indent for quantity of breeder seed and funds from Ministry	Variety wise indent for breeder seed	Quantity of breeder seed is produced as per the indent	Target will be achieved as per the indent and funds received
All the major sorghum growing states in the country	Maharashtra, Karnataka, Madhya Pradesh, Andhra Pradesh, Tamil Nadu, Rajsthan, Gujarat	SAUs, KVK and AICSIP centres	DAC, SAUs, NGO	Frontline demonstrations conducted	Funds for manpower and conduct of Front line demonstrations	FLDs is farmers' fields programme which is organized within radius of 20 to 50 km from the implementing centres & needs human power for long hours field work and timely field services.	Rs. 12000/- per ha for critical inputs including field assistance	Target may not be achieved

Section 6:
Outcome/impact of organization

S.N o.	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 Sorghum Productivity	SAUs, AICSIP centers	Increase in productivity	Percent	2	2	2	2	2
2	Enhanced availability of quality human resources for agricultural research & development activities	SAUs	Capacity building	Number	2	2	4	5	5