Results-Framework Document (RFD)

for

Directorate of Soybean Research
(2012-2013)

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Section 1:
Vision, Mission, Objectives and Functions

Vision

To contribute to edible oil pool and energy-protein malnutrition eradication programme of the country

Mission

To enhance and sustain soybean production and productivity through research and development of new technologies and providing strong technological support

Objectives

- Conservation, evaluation and documentation of germplasm
- Genetic enhancement of soybean for productivity and quality
- Enhancement of productivity of soybean through appropriate production and protection technologies
- Demonstration and transfer of technologies
- Production of breeder seeds

Functions

To act as national centre for basic and applied research on soybean; to plan, coordinate and monitor research on soybean in the country; to impart training to scientists and extension workers engaged in soybean research and development; to foster national and international collaborations for exchange of knowledge and material; to disseminate information on latest soybean production technology; to serve as an information bank on different aspects of soybean for strategic planning; to extend consultancy services and expertise.

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Section 2:

Inter se Priorities among Key Objectives, Success indicators and Targets

Objectives	Weight (%)	Actions	Success indicators	Unit	Weight (%)	Target/Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
Conservation, evaluation and documentation of germplasm	12	Conservation of germplasm	Conservation	Number	6	**4240 (10)**	**4239 (9)**	**4238 (8)**	**4237 (7)**	**4236 (6)**
		Evaluation, documentation and identification of sources for desirable traits	Identification of genetic sources	Number	6	**6**	**5**	**4**	**2**	**1**
Genetic enhancement of soybean for productivity and quality	25	Generation of genetic material	Populations developed	Number	13	**20**	**18**	**16**	**14**	**12**
		Selection of promising entries in evaluation trials/transformation events	Promising entries made	Number	12	**7**	**6**	**5**	**4**	**3**
Enhancement of productivity of soybean through appropriate production and protection technologies	24	Cropping systems and input use efficiency	Technology tested	Number	10	**3**	**2**	**1**	**-**	**-**
		Weed control and pest management	Technology tested	Number	10	**2**	**1**	**-**	**-**	**-**
		Identification of useful microorganisms for productivity enhancement	Microorganisms identified	Number	4	**2**	**1**	**-**	**-**	**-**

Objectives	Weight (%)	Actions	Success indicators	Unit	Weight (%)	Target/Criteria Value				
						Excellent	**Very Good**	**Good**	**Fair**	**Poor**
						100%	**90%**	**80%**	**70%**	**60%**
Demonstration and transfer of technologies	15	On farm trials and technology demonstrations	Technology demonstrated	Number	5	**15**	**13**	**12**	**11**	**9**
		Training to extension officers/farmers	Training conducted	Number	10	**50**	**45**	**40**	**35**	**30**
Production of breeder seeds	12	Breeder seed production	Quantity of breeder seed produced	quintals	12	**250**	**225**	**200**	**175**	**150**
Mandatory Success Indicators										
1. Efficient functioning of the RFD System	3	Timely submission of RFD for 2012-13	On-time submission	Date	2	March 23 2012	March 26 2012	March 27 2012	March 28 2012	March 29 2012
		Timely submission of Results for 2012-13	On- time submission	Date	1	May 1 2013	May 2 2013	May 3 2013	May 6 2013	May 7 2013
2. Administrative Reforms	5	Implement ISO 9001	Prepare ISO 9001 action plan	Date	1	May 1 2013	May 2 2013	May 3 2013	May 6 2013	May 7 2013
			Implementation of ISO 9001 action plan	Date	2	March 25 2012	March 26 2012	March 27 2012	March 28 2012	March 29 2012
		Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	2	100	95	90	85	90
3. 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	90
			Independent Audit of implementation of public grievance redressal system	%	2	100	95	90	85	90

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Section 3:
Trend Values of the Success Indicators

Objectives	Actions	Success indicators	Unit	Target				
				Actual Value for FY 10-11	**Actual Value for FY 11-12**	**Actual Value for FY 12-13**	**Projected Value for FY 13-14**	**Projected Value for FY 14-15**
Conservation, evaluation and documentation of germplasm	Conservation (documentation) of germplasm	Conservation (documentation)	Number	**4208 (10)**	**4230 (20)**	**4240 (10)**	**4250 (10)**	**4260 (10)**
	Evaluation and identification of sources for desirable traits	Identification of genetic sources	Number	**3**	**7**	**6**	**5**	**6**
Genetic enhancement of soybean for productivity and quality	Generation of genetic material.	Populations developed	Number	**25**	**30**	**32**	**33**	**33**
	Selection of promising entries in evaluation trials/transformation events.	Promising entries made	Number	**7**	**15**	**18**	**19**	**20**
Enhancement of productivity of soybean through appropriate production and protection technologies	Cropping systems and input use efficiency	Technology tested	Number	**2**	**2**	**3**	**3**	**3**
	Weed control and Pest management	Technology tested	Number	**2**	**2**	**3**	**3**	**3**
	Identification of useful microorganisms for productivity enhancement	Microbes identified	Number	**2**	**2**	**2**	**2**	**2**
Demonstration and transfer of technologies	On farm trials and technology demonstrations	Technology demonstrated	Number	**15**	**13**	**15**	**15**	**20**
	Training to extension officers/farmers	Training conducted	Number	**45**	**45**	**94**	**50**	**50**
Production of breeder seeds	Breeder seed production	Quantity of breeder seed produced	Quantity (quintals)	**120**	**120**	**185**	**250**	**280**
Efficient functioning of RFD system	Timely submission of draft for approval	On time submission	Date	**18/3**	**18/3**	**4/5**	**10/6**	**10/6**
	Timely submission of results	On time submission	Date	**26/3**	**26/3**	**4/5**	**1/5**	**1/5**

Section 4:

Description and definition of success indicators and proposed measurement methodology

Objective 1. DSR serves as National Repository of soybean germplasm and National Active Germplasm Site. Procurement and evaluation of exotic germplasm lines would result in number of IVT entries that would have exotic germplasm as at least one of their parents. This will also be evident from number of sources identified for desirable traits for developing new varieties to address present and future challenges.

Objective 2. The number of entries that are contributed to AICRP on Soybean multilocation testing. Development of high yielding varieties will help in achievement of higher productivity of soybean.

Objective 3. Number of recommendations made. Appropriate production and protection technologies will help in mitigating various aboitic and biotic stresses, conservation of natural resources and enhancement of soybean productivity.

Objective 4. Number of demonstrations conducted and technologies adopted. On farm demonstration and transfer of technology will help in dissemination of technology and thereby improving production and productivity of soybean in the country.

Objective 5. Enhanced quantity of breeder seed produced and availability of quality seeds to farmers. Breeder seeds produced will serve as source of quality seed for further multiplication in seed chain and making certified seed available to the stake holders.

Section 5. Specific performance requirement from other departments

1. Agricultural research go in tandem and depends on multidisciplinary approach from number of partners/collaborators. Support of other agencies is necessary to take up the new initiatives /proposals for the Directorate. Timely approval and allocation of approved funds is critical for achievement of the targets.

2. Breeder seed production is taken up at the behest of indents received from DAC. The indents require rationalization in terms of quantity and varietal makeup incorporating latest released high yielding varieties

Section 6: Outcome/Impact of DSR, Indore

Outcome/Impact of DSR, Indore	Jointly responsible for influencing this outcome with the following Departments/RCs	Success indicators	Unit	2010-11	2011-12	2012-13	2013-14	2014-15
Improved soybean productivity	SAUs, State Deptts. of Agriculture	Increase in soybean production	%	**29**	**-4.0**	**2**	**4**	**6**
Enhanced availability of quality seeds	SAUs, DAC	Increase in breeder seed production	%	**46**	**15**	**3**	**4**	**5**
Diversification of soybean varieties	SAUs	Identification of new varieties	Number	**1**	**2**	**2**	**3**	**3**
		Breeding lines evaluated	Number	**30**	**35**	**40**	**45**	**50**
		New cross combinations effected	Number	**45**	**55**	**65**	**75**	**80**
Zone specific efficient production technologies	SAUs, State Deptts. of Agriculture	New Interventions assessed	Number	**1**	**2**	**3**	**4**	**4**
		Identification of high efficacy PGP Microbes	Number	**3**	**3**	**03**	**04**	**05**
Availability of better plant protection modules	SAUs, State Deptts. of Agriculture	New protection measures	Number	**1**	**1**	**2**	**3**	**3**
		Evaluation of new protection molecules	Number	**1**	**2**	**3**	**3**	**4**
Innovation to farmers	DAC	Farmers trainings conducted	Number	**20**	**22**	**25**	**30**	**35**