RFD

Results Framework Document

for

Directorate of Soybean Research
Indore 452001
(2011- 12)

Result Framework Document (RFD) for Directorate of Soybean Research Indore (2011-12)

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

- Serve as National Repository of soybean germplasm and its utilization in basic, strategic and applied research
- 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	Weigh t	Action	Success indicator	Unit	Weigh t	Target/Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
Conservation, evaluation and documentation of germplasm	10	Conservation (documentation) of germplasm	Conservation (documentation)	Number	5	**4218 (10)**	**3796 (9)**	**3374 (8)**	**2953 (7)**	**2531 (6)**
		Evaluation and identification of sources for desirable traits	Identification of genetic sources	Number	5	**6**	**5**	**4**	**2**	**1**
Genetic enhancement of soybean for productivity and quality	35	Generation of genetic material.	Populations developed	Number	20	**20**	**18**	**16**	**14**	**12**
		Selection of promising entries in evaluation trials/transformation events.	Promising entries made	Number	15	**7**	**6.3**	**5.6**	**4.9**	**4.2**
Enhancement of productivity of soybean through appropriate production and protection technologies	25	Cropping systems and input use efficiency	Technology tested	Number	10	**2**	**1**	**1**	**-**	**-**
		Weed control and Pest management	-do-	Number	10	**2**	**2**	**-**	**-**	**-**
		Identification of useful microorganisms for productivity enhancement	Microorganisms identified	Number	5	**2**	**2**	**1**	**-**	**-**

Objectives	Weight	Action	Success indicator	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	10	Breeder seed production	Quantity of breeder seed produced	quintals	10	**250**	**225**	**200**	**175**	**150**
Efficient functioning of RFD system	5	Timely submission of draft for approval	On time submission	Date	2	**16/3**	**18/3**	**23/3**	**26/3**	**31/3**
		Timely submission of results	On time submission	Date	3	**25/3**	**26/3**	**27/3**	**28/3**	**31/3**

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Section 3:
Trend Values of the Success Indicators

Objectives	Action	Success indicator	Unit	Actual Value for FY 08/09	Actual Value for FY 09/10	Actual Value for FY 10/11	Projected Value for FY 11/12	Projected Value for FY 12/13
1. Conservation, evaluation and documentation of germplasm	Conservation (documentation) of germplasm	Conservation (documentation)	Number			**4208 (10)**	**4218 (10)**	
	Evaluation and identification of sources for desirable traits	Identification of genetic sources	Number			**3**	**6**	
2. Genetic enhancement of soybean productivity	Generation of genetic material.	Populations developed	Number			**25**	**20**	
	Selection of promising entries in evaluation trials/transformation events.	Promising entries made	Number			**7**	**7**	
3. Enhancement of productivity of soybean through appropriate production and protection technologies	Cropping systems and input use efficiency	Technology tested	Number			**2**	**2**	
	Weed control and Pest management	-do-	Number			**2**	**2**	
	Identification of useful microorganisms for productivity enhancement	Microbes identified	Number			**2**	**2**	

4. Demonstration and transfer of technologies	On farm trials and technology demonstrations	Technology demonstrated	Number			**15**	**15**	
	Training to extension officers/farmers	Training conducted	Number			**45**	**50**	
5. Production of breeder seeds	Breeder seed production	Quantity of breeder seed produced	Quantity (quintals)			**120**	**250**	
6. Efficient functioning of RFD system	Timely submission of draft for approval	On time submission	Date			**18/3**	**-**	
	Timely submission of results	On time submission	Date			**26/3**	**-**	

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. Evaluation of germplasm will entail into identification of sources for desirable traits for developing new varieties to address present and future challenges

Objective 2. Development of high yielding varieties /transgenics will help in achievement of higher productivity of soybean

Objective 3. 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. 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. 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. Support of other agencies is necessary to take up the new initiatives /proposals of the department. 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