

Annual (April 1, 2011 to March 31, 2012) Performance Evaluation Report of RSCs i.e. Institutions for the year 2011-2012

Name of the Division: Crop Science

Name of the Institution: Indian Agricultural Research Institute, New Delhi

RFD Nodal Officer: Dr. B. R. Atteri, Principal Scientist (PME)

S. No	Objectives	Weight	Action	Success Indicators	Unit	Weight	Target/Criteria value					Achievements	Performance	
							Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%		Raw Score	Weighted Score
1	Improving crop productivity and quality through conventional and molecular approaches.	25	Evaluation of improved varieties for suitable crop husbandry practices	Number of breeding lines evaluated	Number	0.5	18012	16211	14410	12609	10000	16215	95	0.48
			Evaluation, characterization, registration of germplasm/variety	Number of germplasm/population characterized and evaluated	Number	0.5	9469	8522	7575	6628	5681	8525	95	0.48
				Number of germplasm/population/variety registered		0.5	2	2	2	2	1	2	100	0.50
			Characterization and evaluation of novel and beneficiary micro-organisms	Microorganisms identified/isolates characterized/registered	Number	0.5	120	112	100	87	75	112	90	0.45
			Conservation/maintenance of germplasm	Plants/genetic stocks conserved in situ	Number	0.5	890	806	716	625	535	950	100	0.50
				Plants/genetic stocks conserved ex- situ	Number	0.5	6655	5990	5324	4660	3990	5990	90	0.45
			Pre-breeding and basic activities for genetic improvement	Trait specific crosses attempted	Number	1	4475	4029	3580	3130	2685	4030	90	0.90
			Evaluation of nutrition, quality and productivity response	Number of varieties tested for quality/ productivity	Number	1	2915	2624	2332	2040	1750	2625	90	0.90
			Development of varieties/hybrids for field crops	Varieties/hybrids identified	Number	1	7	6	5	5	4	6	90	0.9
				Varieties/hybrids released	Number	1	6	5	4	4	3	5	90	0.9
			Development of varieties/hybrids for vegetable crops	Varieties/hybrids identified/ released	Number	2	4	4	4	3	3	5	100	2.0
			Development of varieties/hybrids for fruit crops	Varieties/hybrids identified/ released	Number	2	4	4	4	3	3	4	100	2.0

			Development of varieties/hybrids for flower crops	Varieties/hybrids identified/ released	Number	2	2	2	2	2	1	2	100	2.0
			Production of Nucleus seed	Nucleus seed produced										
				Cereals	Tonnes	0.5	32	29.5	26	23	20	30	90	0.45
				Pulses	Tonnes	0.5	11	10.0	9	8	7	10.0	90	0.45
				Oil Seeds	Tonnes	0.5	0.01	0.01	0.01	0.01	0.01	0.01	100	0.50
				Vegetables	Tonnes	0.5	0.006	0.005	0.004	0.003	0.002	0.005	90	0.45
			Production of Breeder seed	Breeder seed produced										
				Cereals	Tones	0.5	330	296.87	264	230	200	300	90	0.45
				Pulses	Tones	0.5	20	17.58	16	14	12	18	92	0.46
				Oil Seeds	Tones	0.5	5	4.28	4	3	3	4.28	90	0.45
				Vegetables	Tones	0.5	0.7	0.60	0.5	0.4	0.3	0.60	90	0.45
			Production of quality seed	Quality seed produced										
				Cereals	Tonnes	0.5	1020	920.05	818	716	613	930	91	0.46
				Pulses	Tonnes	0.5	18	16.58	15	13	10	17.0	94	0.47
				Oil Seeds	Tonnes	0.5	8	7.03	6	5	5	7.5	95	0.48
				Vegetables	Tonnes	0.5	4	3.53	3	3	2	3.53	90	0.45
			Production of quality planting material	Quality planting material produced	Number	1	50,000	45,000	40,000	35,000	30,000	50,000	100	1.0
			Trait specific improvement through molecular breeding	Gene identified	Number	2	22	20	18	15	12	20	90	1.8
				Gene incorporated/validated	Number	1	19	17	15	12	11	18	95	0.95
				Gene sequenced and deposited in data bank	Number	1	30	27	24	20	17	28	93	0.93
				Protocols standardized/processes/pathways validated	Number	1	3	3	3	2	2	3	100	0.9
2	Enhancing crop production through conservation and efficient management of natural resources; and development of technologies adapted to climate change	14	Improving Nutrient Use Efficiency	Technologies developed	Number	1	11	10	9	8	7	11	100	1.0
				Technologies tested and validated	Number	1	12	11	10	9	7	11	90	0.9
			Development of Water management technologies	Technologies developed	Number	1	9	8	7	6	5	9	100	1.0
				Technologies tested and validated	Number	1	7	6	5	5	4	6	90	0.9
			Development of efficient production technologies	Technologies developed	Number	1	13	12	11	9	7	12	90	0.9
				Technologies tested and validated	Number	1	12	11	10	9	8	11	90	0.9
			Development of technology for Conservation Agriculture	Technologies developed	Number	0.5	9	8	7	6	5	8	90	0.45
				Technologies tested and validated	Number	0.5	9	8	7	6	5	8	90	0.45
			Characterization and improvement of soil health	Soil profiling done	Number	0.5	3	3	3	2	2	3	100	0.5
				Technologies tested and validated	Number	1	6	5	4	4	3	6	100	1.0

			Strategies/technologies for mitigation / adaptation of Climate Change Effects and promoting carbon sequestration	Technologies developed/ tested and validated	Number	2	9	8	7	6	5	8	90	1.8	
			Strategies/technologies for waste water management	Technologies developed	Number	0.5	3	3	3	2	2	3	100	0.50	
				Technologies tested and validated	Number	0.5	3	3	3	2	2	3	100	0.50	
			Technologies for protected agriculture, dry land and precision farming	Technologies developed	Number	1	7	6	5	5	4	7	100	1.0	
				Technologies tested and validated	Number	1	6	5	4	4	3	5	90	0.9	
			Development of DSS/GDSS for planning and forecasting	Simulation models developed/validated and advisories issues	Number	0.5	7	6	5	5	4	6	90	0.45	
3	Bio security and efficient management of pests, diseases and nematodes through conventional and frontier research	9	Development of agrochemicals including nano-formulations, safety evaluation and quality control	Molecules/formulations, developed, tested & validated	Number	2	2	2	2	2	1	2	100	2.0	
					Safety evaluation and quality control protocols	Number	1	6	5	4	4	3	6	100	1.0
				Development of bio-control strategies	Technologies developed	Number	1	12	11	10	9	8	12	100	1.0
					Technologies tested and validated	Number	1	12	11	10	9	8	11	90	0.9
				Development of IPM Technologies	Pest dynamics worked out/technologies developed	Number	0.5	4	4	3	2	2	4	100	0.5
					Technologies tested and validated	Number	1	3	3	3	2	2	3	100	1.0
				Development of diagnostics	Technologies developed/ tested/ validated	Number	1	14	13	12	10	9	13	90	0.9
				Collection, evaluation, and characterization of/ new pest population	Number of new pest population collected	Number	0.5	3903	3513	3123	2732	2342	3515	90	0.45
		New pests/genera/species characterized and evaluated	Number		0.5	197	177	157	138	118	180	91.5	0.46		
		Gene sequencing of pathogen and pests	Gene sequenced and deposited in data bank	Number	0.5	171	154	137	120	103	160	93.5	0.47		
4	Socio-economic & policy research, capacity building and commercialization of technologies	15	Policy research in agricultural marketing and trade	Policy documents prepared	Number	0.5	2	2	2	2	1	2	100	0.50	
				Market intelligence/Impact assessment	Commodities covered	Number	0.5	3	3	3	2	2	3	100	0.50
				Development of strategies and models in extension	Strategies/models developed	Number	1	3	3	3	2	2	3	100	1.0
				Transfer of knowledge	Capacity building of farmers, extension professionals and other stakeholders	Number	2	22143	19929	17715	15500	13286	19950	91	1.82
				Advisory service (including, farmers contacted in melas).	Farmers contacted/advised	Number	1	177389	159650	141911	124172	106433	160200	93.1	0.93

			Empowerment of rural women	Farm women skill developed	Number	2	1987	1788	1589	1391	1192	1800	90	1.8	
			Organization of demonstration	Demonstration organized	Numbers	1	3956	3560	3164	2769	2373	3742	94.6	0.95	
			Products/Processes development and commercialization	Products/Processes developed and commercialized	Number	2	20	18	16	14	12	18	90	1.8	
				MOUs signed	Number	2	56	50	44	39	33	50	90	1.8	
				Patents filed	Number	2	10	9	8	7	6	9	90	1.8	
				Business incubation	Number	0.5	3	3	3	2	2	3	100	0.50	
				Revenue generated	Rs.(lakh)	0.5	123	111	99	86	74	125	100	0.50	
5	Technological interventions for enhancing profitability through improved farm machinery, post- harvest management and value addition	6	Development of design/implements/ technology/machinery	Designs developed and tested	Number	1	1	1	1	1	1	1	100	1.0	
				Machinery validated and commercialized	Number	1	1	1	1	1	1	1	1	100	1.0
			Development of post-harvest technologies	Technologies developed/ tested and validated	Number	2	2	2	2	2	2	1	2	100	2.0
				Technology for drying, milling, and packaging developed	Number	1	1	1	1	1	1	1	1	1	100
			Development of nutraceuticals and value added food products	Protocols standardized/ process developed/ commercialized	Number	1	2	2	2	2	2	1	2	100	1.0
6	Development of globally competitive human resources	20	M.Sc. Programme	No. of students admitted	Number	3	120	106	96	84	72	108	93	2.8	
				No of students awarded degrees	Number	3	120	110	107	93	80	120	100	3.0	
			Ph.D Programme	No. of students admitted	Number	3	142	125	114	100	85	128	91.8	2.8	
				No of students awarded degrees	Number	3	91	82	73	64	55	82	90	2.7	
			AHRD Trainings & offshore support	No of trainings conducted	Number	2	19	17	15	13	11	17	90	1.8	
				No of participants trained	Number	3	3510	3159	2808	2457	2106	3160	90	2.7	
				HRD support provided to foreign countries	Number	1	8	7	6	5	5	7	90	0.9	
				Faculty provided advance trainings	Number	1	34	31	28	24	21	31	90	0.9	
				International/National Seminar/workshop etc. organised	Number	1	24	22	20	17	15	22	90	0.9	
													Total	83.79	

Mandatory success indicators (For 2011-2012)

S. No	Objective	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria value					Achievements	Performance	
							Excellent	Very Good	Good	Fair	Poor		Raw Score	Weighted Score
							100%	90%	80%	70%	60%			
1	Efficient Functioning of the RFD System	7	Timely submission of Draft for approval	Timely submission of RFD for 11-12	Date	2	12/03/12	13/03/12	15/03/12	20/03/12	25/03/12	13/03/12	100	2.0
			Timely submission of Results	Timely submission of results for 11-12	Date	1	01/05/12	05/05/12	10/05/12	15/05/12	20/05/12	05/05/12	70	0.7
			Finalize a Strategic Plan(After meeting all intermediate deadlines)	Finalize a strategic plan for next five year plan	Date	2	05/12/11	10/12/11	15/12/11	20/12/11	25/12/11	10/12/11	100	2.0
			Identify potential areas of corruption related to organization activity and develop an action plan to mitigate them	Areas identified	Number and action plan	2	No complaint or 100% redressal	80% redressal and 100% action taken	60% redressal and 100% action taken	50% redressal and 80% action taken	50% redressal and 70% action taken	80% redressal and 100% action taken	90	1.8
2	Improving Internal Efficiency /responsiveness service delivery of Ministry /Department	4	Implementation of Sevottam	Create a Sevottam compliant system to implement, monitor and review citizen's charter	Date	2	Dec. 10, 2011	Dec. 15, 2011	Dec. 20, 2011	Dec. 25, 2011	Dec.30, 2011	Dec. 05, 2011	100	2.0
				Create a Sevottam compliant system to redress and monitor public grievances	Date	2	Dec. 10, 2011	Dec. 15, 2011	Dec. 20, 2011	Dec. 25, 2011	Dec.30, 2011	Dec. 05, 2011	100	2.0
												Total	10.5	

Total Composite Score: 94.29%

Rating – Very good

Procedure for computing the Weighted and Composite Score

1. Weighted Score of a Success Indicator = Weight of the corresponding Success Indicator x Raw Score / 100
2. Total Composite Score = Sum of Weighted Scores of all the Success Indicators