

Annual (April 1, 2012 to March 31, 2013) Performance Evaluation Report in respect of RFD 2012-2013 of RSCs i.e. Institutes

Name of the Division: Crop Science
Name of the Institution: Central Tobacco Research Institute, Rajahmundry
RFD Nodal Officer: Dr. K. Sarala, Principal Scientist

Objective	Weight (%)	Actions	Success Indicator	Unit	Weight (%)	Target/Criteria Value					Achievements	Performance		Percent achievements against Target values of 90% Col	Reasons for shortfalls or excessive achievements, if applicable
						Excellent	Very Good	Good	Fair	Poor		Raw Score	Weighted Score		
						100%	90%	80%	70%	60%					
Tobacco cultivar improvement	24.0	Developing tobacco varieties/ hybrids possessing higher leaf yield and resistance to biotic and abiotic stresses to stabilize productivity	Segregating materials, promising recombinants and hybrids developed through conventional breeding	Number	3.0	1100	1080	1060	1040	1020	1090	95	2.85	101	NA
			Improved lines in replicated evaluation trials	Number	3.0	240	230	220	210	200	235	95	2.85	102	NA
			Advanced breeding lines contributed for multi-location testing under the AINRP(T)/ varieties identified or released	Number	2.0	16	15	14	13	12	15	90	1.8	100	NA

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		Tailoring of tobacco plant type for optimizing the seed yield and phytochemicals	Promising germplasm accessions, advanced breeding lines/hybrids evaluated for seed yield potential/ high seed oil/high protein/high solanesol /high nicotine contents	Number	1.5	125	120	120	115	110	125	100	1.5	104	NA
		Production and distribution of foundation seed of ruling tobacco varieties	Quantity produced/ distributed	kg	5.0	19000	18500	18000	17500	17000	19000	100	5.0	103	NA
		Germplasm resource management	Germplasm accessions maintained in all forms	Number	2.5	2400	2350	2300	2250	2200	2400	100	2.5	102	NA
			No. of lines characterized	Number	1.0	150	130	110	100	90	135	92.5	0.925	104	NA
		Biotechnology for tobacco improvement	Genotypes used for molecular characterizati	Number	3.0	85	80	75	70	65	82	94	2.82	103	NA

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			on/ genome analysis												
			Molecular mapping populations developed with reference to traits viz., nicotine, solanesol and TSNA	Number	1.5	10	9	8	7	6	9	90	1.35	100	NA
			Somaclones of varieties VT 1158 and Kanchan evaluated for yield and virus tolerance under field condition	Number	1.0	50	40	30	20	10	40	90	0.90	100	NA
			Seed sterile and non-flowering tobacco clones micropropagated	Number	0.5	140	130	125	120	100	135	95	0.48	104	NA
Development of agro-technology	20.0	Healthy seedling production	Technology interventions for production of	Number	2.0	3	2	1	0	0	2	90	1.8	100	NA

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Strategy for sustainable tobacco production and strengthening TOT			healthy transplants												
		Optimisation of water and nutrient use for productivity enhancement of different tobacco types	Technology interventions for input use efficiency	Number	5.0	6	5	4	3	2	5	90	4.5	100	NA
		Evolving site-specific cultural management practices in different agro-ecological sub regions	Production practices for advance breeding lines / varieties	Number	4.0	6	5	4	3	2	5	90	3.6	100	NA
		Post harvest product management (PHPM)	Technology interventions developed	Number	1.0	3	2	1	0	0	2	90	0.9	100	NA
		Analysis of socio-economics for stratification and to formulate appropriate strategies	Tobacco zone-wise resource utilization and adoption constraints	Number	1.0	6	5	4	3	2	5	90	0.9	100	NA
			Zone-wise changing scenario of	Number	1.0	5	4	3	2	1	4	90	0.9	100	NA

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			cropping patterns												
		Technology outreach activities	Zone-wise decision support systems for TOT	Number	1.0	5	4	3	2	1	4	90	0.9	100	NA
			Training	Number	1.0	35	30	25	20	15	32	94	0.94	107	Additional training programme organized to impart knowledge and skills to manage tobacco crop effected by Neelam cyclone in AP
			FLDs	Number	1.0	10	8	6	4	2	8	90	0.9	100	NA
			Focus through group and mass communication methods/ media	Number	1.0	50	40	30	20	10	44	94	0.94	110	Dissemination of demand driven technologies through media resulted in excessive achievement
		Technology assessment	Diagnostic visits and on-farm trials	Number	2.0	18	17	16	15	14	18	100	2.0	106	Additional visits conducted to

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															diagnose problems in burley tobacco triggered by Neelam cyclone
Management of resource constraints for production efficiency and product quality	15.0	Evaluation of soil fertility, water quality and plant nutrition constraints for tobacco and their management	Diagnostic surveys made/Technology developed	Number	3.0	3	2	1	0	0	2	90	2.7	100	NA
		Soil quality and nutrient use efficiency in relation to input management	Scientific interventions / management options evaluated	Number	3.0	3	2	1	0	0	2	90	2.7	100	NA
		Characterization of soil biota and use of biofertilisers	Microbial cultures evaluated as bio-fertilizers	Number	2.0	3	2	1	0	0	2	90	1.8	100	NA
		Evaluation of tobacco leaf and product quality	Genotypes/ production practices evaluated for tobacco chemical/ bio-	Number	2.0	4	3	2	1	0	3	90	1.8	100	NA

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			chemical quality												
			Samples tested for leaf quality, pesticide residues and smoke constituents	Number	5.0	650	600	550	500	450	625	95	4.75	104	NA
Development of Integrated management strategies for biotic stresses	15.0	Screening for host plant resistance to insect pests and diseases	Genotypes/crosses screened	Number	5.0	600	400	250	150	50	700	100	5.0	175	Number of entries screened were increased due to the increase of selected entries with desirable characters in the breeding programmes
		Development of IPM technology	Technologies developed	Number	4.0	4	3	2	1	0	3	90	3.6	100	NA
		Evaluation of new molecules and formulations of pesticides for bio-efficacy	Laboratory/greenhouse and field trials conducted	Number	3.0	4	3	2	1	0	4	100	3.0	133	Three new molecules of insecticides were evaluated against <i>Spodoptera</i>

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															<i>litura, Myzus nicotiana and B. tabaci. One biopesticide was evaluated against root knot nematode</i>
		Monitoring of insect pests and diseases	Insect pests and diseases monitored	Number	3.0	4	3	2	1	0	3	90	2.7	100	NA
Identification of alternative crops and exploiting tobacco for alternative uses	14.0	Alternative crops for FCV and non-FCV tobacco practices in different agro-ecological sub regions	Identification of crops/cropping systems / farming systems for tobacco	Number	8.0	4	3	2	1	0	3	90	7.2	100	NA
		Agro-techniques for higher biomass and seed yield	Technologies evaluated/ developed	Number	3.0	3	2	1	0	0	2	90	2.7	100	NA
		Identification of potential phytochemicals	Phytochemicals evaluated	Number	3.0	4	3	2	1	0	3	90	2.7	100	NA
Efficient functioning of the	3.0	Timely submission of RFD for 2012-13	On time submission	Date	2.0	23.3.12	26.3.12	27.3.12	28.3.12	29.3.12	22.3.12	100	2.0		

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RFD system		Timely submission of results for 2012-13	On time submission	Date	1.0	1.5.13	02.5.13	03.5.13	6.5.13	7.5.13	29.4.13	100	1.0		
Administrative Reforms	5.0	Implement ISO 9001	Prepare ISO 9001 action plan	Date	1.0	4.6.12	5.6.12	6.6.12	7.6.12	8.6.12	4.6.12	100	1.0		
			Implementation of ISO 9001 action plan	Date	2.0	25.3.12	26.3.12	27.3.12	28.3.12	29.3.12	8.3.13	100	2.0		
		Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	2.0	100	95	90	85	80	100	100	2.0		
Improving Internal Efficiency/ responsiveness/ service delivery of Ministry/ Department	4.0	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	2.0	100	95	90	85	80	100	100	2.0		
		Implementation of Sevottam	Independent Audit of implementation of public grievance redressal system	%	2.0	100	95	90	85	80	100	100	2.0		

Total Composite Score: 93.91%

Rating : Very good

