



Results-Framework Document (RFD)

for

**National Research Centre for Grapes
(ICAR)**

2013-14

**Address: P.B. No. 3. Manjri Farm, Solapur Road
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Website: <http://nrcgrapes.nic.in>**

Section 1: Vision, Mission, Objectives and Functions

Vision

Harnessing viticulture and enology science to ensure comprehensive and sustained grape production through crop improvement, assessment, refinement and adoption of most appropriate and precise technologies in grape production and value addition thereby increasing net returns to grape growers and all the stakeholders involved in the industry.

Mission

To undertake the programs involving basic and strategic research for resolving the major biotic and abiotic constraints affecting the grape production, productivity and its quality and to have sustained productivity and promote diversification to wine production and other value added products

Objectives

1. Improving grape productivity, fruit quality and value addition
2. Transfer of technology

Functions

To attend to issues relating to all aspects of viticulture and enology research, education and extension at national and international level through collaborations in research involving improvement, production, protection and post-harvest technology, training and dissemination of developed technologies to stake holders for increasing production and productivity of grapes.

Section 2: *Inter se* priorities among key objectives, success indicators and targets

Sl. No.	Objectives	Weight	Actions	Success Indicators	Unit	Weight	Target/Criteria Value				
							Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
1.	Improving grape productivity, fruit quality and value addition.	62	Collection, conservation and characterization of Germplasm	Germplasm added/characterized	Number	6	10	9	8	7	5
							5	4	3	2	1
							40000	36000	32000	28000	24000
							5	4	3	2	1
							18	18	18	18	18
							3	3	3	3	3
2.	Transfer of technology	27	Development of production and protection technologies	Improved production technologies developed or in process	Number	18	5	4	3	2	1
							4	3	2	1	0
							4	3	2	1	0
							4	3	2	1	0
							3	3	3	3	3
							3	3	3	3	3
			Postharvest technology and value addition	Number of postharvest technologies developed or under process of development	Number	3	4	3	2	1	0
							4	3	2	1	0
							4	3	2	1	0
							4	3	2	1	0
							3	3	3	3	3
							3	3	3	3	3
			Measures of food safety	Samples analyzed for monitoring pesticide residue and protocols developed	Number	15	300	270	240	210	180
							25	22	20	18	16
							25	22	20	18	16
							25	22	20	18	16
							17	17	17	17	17
							17	17	17	17	17
			Effective dissemination of scientific and technical know how	Field visits, seminars, trainings organized	Number	17	25	22	20	18	16
							45	41	36	31	27
							45	41	36	31	27
							45	41	36	31	27
							10	10	10	10	10
							10	10	10	10	10
			Web based advisory services for pests and diseases	Web based advisory services for pests and diseases	Number	10	45	41	36	31	27
							45	41	36	31	27
							45	41	36	31	27
							45	41	36	31	27
							10	10	10	10	10
							10	10	10	10	10

* 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 Ministry / Department	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

*Mandatory Objective (s)

**Section 3:
Trend values of the success indicators**

Sl. No.	Objectives	Actions	Success Indicators	Unit	Actual value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
1.	Improving grape productivity, fruit quality and value addition.	Collection, conservation and characterization of Germplasm	Germplasm added/characterized	Number	8	8	9	10	11
		Breeding of varieties for good traits and tolerance to biotic and abiotic stress	Varieties, Hybrids and clones developed / evaluated /under process of development and evaluation	Number	3	4	4	5	5
		Production of Elite, true to type and virus free planting material	Cuttings and grafts distributed	Number	30000	33000	36000	38000	40000
		Development of production and protection technologies	Improved production technologies developed or in process	Number	3	3	4	4	5
		Postharvest technology and value addition	Number of postharvest technologies developed or under process of development	Number	2	2	2	3	3
		Measures of food safety	Samples analyzed for monitoring pesticide residue and protocols developed	Number	250	260	270	300	320

Sl. No.	Objectives	Actions	Success Indicators	Unit	Actual value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
2.	Transfer of technology	Effective dissemination of scientific and technical know how	Field visits, seminars, trainings organized	Number	20	22	22	28	30
			Web based advisory services for pests and diseases	Number	30	35	41	43	45
	* 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 Ministry / Department	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	--	--	95	--	--
			Independent Audit of implementation of public grievance redressal system	%	--	--	95	--	--

Section 4: Acronyms

Sl. No.	Acronym	Description
1	INM	Integrated Nutrient Management
2	IPM	Integrated Pest Management

Section 4: Description and definition of success indicators and proposed measurement methodology

Sl. No.	Success indicator	Description	Definition	Measurement	General Comments
1	Germplasm added/characterized	Germplasm are genetic resources of grapes which are source of genetic variability	Germplasm is collection of all cultivars, wild species etc for conservation and utilization	Number of accessions added/characterized	--
2	Varieties, Hybrids and clones developed / evaluated /under process of development and evaluation	Source materials for improved varieties to be evaluated	Best performing varieties will be identified for their evaluation before release	Number of varieties, hybrids, clones developed or under process of development	--
3	Cuttings and grafts distributed	Production of planting material through cuttings/grafting	It is an asexual method of propagation by which new planting material is produced without production of seeds.	Number	In grapes, planting material mainly consists of rooted cuttings of rootstocks and bench grafts.
4	Improved production technologies developed or in process	Developing production technologies to improve input use efficiency and increase Benefit: cost ratio of growers	Input use efficiency refers to judicious use of agricultural inputs to increase grape production per unit of inputs used.	Developing irrigation schedules, INM, IPM schedules etc.	Improving water, nutrient and pesticide use efficiency is most important factor to reduce cost of production in grapes.
5	Number of postharvest technologies developed or under process of development	New technologies to carry out a process of raisin, wine and juice making.	Development of new technologies to improve production of quality raisins, wine and juice.	Number of technologies and quality of end product	There is a need to develop advanced technologies for processing of grapes into value added products.
6	Samples analyzed for monitoring pesticide residue and protocols developed	New methodology development for analysis of more number of agrochemical residues in grapes and its processed products	Pesticide residue refers to the pesticides that may remain on or in food after they are applied to food crops.	Number of methodologies developed and samples analysed for monitoring pesticide residues	Monitoring pesticide residues is highly essential for both export and domestic markets with respect to food safety issues

7	Field visits, seminars, trainings organized	Capacity building activities to improve knowledge and skill of grape growers, extension workers etc.	Training is a process of acquiring new skill, attitude and knowledge through various means	Number	--
8	Web based advisory services for pests and diseases	Prophylactic spray of pesticides based on weather advisory services will reduce pesticide application and reduce cost	Web based advisory service is an advice given to growers based on the weather forecasting and possibility of occurrence of pests and diseases	Number of weekly advices given	Improve pesticide use efficiency and reduce cost of production in grapes.

Section 5: Specific performance requirements from other Departments

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.
	Maharashtra, Karnataka, Tamil Nadu, Andhra Pradesh, Punjab, Madhya Pradesh, Mizoram etc	State Departments, Grape growers Associations, Individual grape growers	Department of Horticulture, Grape Growers Associations etc	Cuttings and grafts distributed	Indent for planting material of grapes.	Indents given	Number of planting material will be produced as per the indent	Less or more number of planting materials will be produced.

Section 6: Outcome/Impact of activities of Organisation/ Ministry

Sl. No.	Outcome/Impact of organisation /RCs	Jointly responsible for influencing this outcome/impact with the following organisation(s)/ departments/ministry(s)	Success Indicators	Unit	2011-12	2012-13	2013-14	2014-15	2015-16
1.	Production of quality seed and planting materials of grapes, development of improved varieties and technologies to increase production of grapes.	Grape growers association/ state department of horticulture/national horticulture mission/grape processing board etc.	Distribution of planting materials Awareness of stakeholders & capacity building through training/ seminars/field visits	Number Percent	30000 65	33000 70	36000 85	38000 80	40000 80



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