



RESULTS-FRAMEWORK DOCUMENT (RFD)

for

DIRECTORATE OF MUSHROOM RESEARCH

(2013-2014)

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Section 1: Vision, Mission, Objectives and Functions

Vision

- Mushroom revolution for economic growth, ecological sustainability and nutritional security

Mission

- To popularize mushroom production in all parts of the country for recycling of agro-wastes and use of spent mushroom substrates as organic manure, animal feed and fuel
- To generate technologies for ameliorating poverty through self-employment and to ensure socio-economic as well as nutritional security

Objectives

- Development/refinement of cultivation technologies of different mushrooms
- Improvement in cultivated mushrooms through selection and breeding for higher yield and quality
- Human resource development and transfer of technology

Functions

- To act as the centre of excellence and repository of mushroom germplasm and information
- To coordinate network research on location specific problems to achieve higher productivity
- To promote human resource development and transfer of technology and to provide technical support to the mushroom industry

Section 2: Inter Se Priorities among Key Objectives, Success indicators and Targets

S.No	Objectives	Weight	Action(s)	Success indicator(s)	Unit	Weight	Target/Criteria Value				
							Excellent	Very good	Good	Fair	Poor
							100%	90%	80%	70%	60%
1	Development/refinement of cultivation technologies of different mushrooms	39	To develop agro technologies for higher production in different mushrooms	Improved cultural practices for button, oyster, straw and shiitake mushroom identified/developed	Number	29	7	6	5	4	3
			Disease management in button mushroom	Suitable control measures for wet bubble and yellow mould diseases identified	Number	10	2	1	0	0	0
2	Improvement in cultivated mushrooms through selection and breeding for higher yield and quality	30	To breed and select button and oyster mushroom strains / varieties for high yield and better quality	Isolates/hybrids of button mushroom developed and evaluated	Number	20	15	12	10	8	6
				Strains/species of oyster mushroom developed and evaluated	Number	10	8	6	5	4	2
3	Human resource development and transfer of technology	20	To train the manpower and create awareness on mushrooms	Trainings on mushroom cultivation technology conducted	Number	15	5	4	3	2	1
				Mushroom mela/exhibitions organized / attended	Number	5	3	2	1	0	0

	Efficient Functioning of RFD system	3	Timely submission of draft RFD (2013-14) for approval	On-time submission	Date	2	May, 15, 2013	May, 16, 2013	May, 17, 2013	May, 20, 2013	May, 21, 2013
			Timely submission of results for RFD (2012-13)	On-time submission	Date	1	May 1, 2013	May 2, 2013	May 3, 2013	May 6, 2013	May 7, 2013
	Administrative reforms	4	Implement ISO 9001 as per the approved action plan	% implementation	%	2	100	95	90	85	80
			Prepare an action plan for innovation	On-time submission	Date	2	July, 30 2013	Aug 10, 2013	Aug 20, 2013	Aug 30, 2013	Sep 10, 2013
	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	80
				Independent Audit of implementation of public grievance redressal system	%	2	100	95	90	85	80

Section 3: Trend Values of the success indicators

S. No.	Objective(s)	Action(s)	Success Indicator(s)	Unit	Actual value For FY 2011-12	Actual value for FY 2012-13	Target value For FY 2013-14	Projected Value for FY 2014-15	Projected Value for FY 2015-16
1	Development/refinement of cultivation technologies of different mushrooms	To develop agro technologies for higher production in different mushrooms	Improved cultural practices for button, oyster, straw and shiitake mushroom identified/developed	Number	5	5	6	7	7
		Disease management in button mushroom	Suitable control measures for wet bubble and yellow mould diseases identified	Number	0	1	1	2	2
2	Improvement in cultivated mushrooms through selection and breeding for higher yield and quality	To breed and select button and oyster mushroom varieties/strains for high yield and better quality	Isolates/hybrids of button mushroom developed and evaluated	Number	8	8	12	15	18
			Strains/species of oyster mushroom developed and evaluated	Number	6	8	6	7	8
3	Human resource development and transfer of technology	To train the manpower and create awareness on mushrooms	Trainings on mushroom cultivation technology conducted	Number	5	4	4	4	5
			Mushroom mela/exhibitions organized/ attended	Number	3	1	2	2	3
	Efficient functioning of RFD system	Timely submission of draft RFD (2013-14) for approval	On-time submission	Date	-	-	May. 16, 2013	-	-
		Timely submission of results for RFD (2012-13)	On-time submission	Date	-	-	May 2, 2013	-	-
	Administrative reforms	Implement ISO 9001 as per the approved action plan	% implementation	%	-	-	95	-	-
		Prepare an action plan for innovation	On-time submission	Date	-	-	Aug 10, 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

S. No.	Acronym	Description
1	IDM	Integrated Disease Management
2	DMR	Directorate of Mushroom Research

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

S. No.	Success indicator	Description	Definition	Measurement	General comments
1	Improved cultural practices for button, oyster, straw and shiitake mushroom identified/developed	New improved cultural practices/techniques enhance yield and thereby increase production of different mushrooms	Intervention in substrate preparation, supply and post harvest with the aim to increase yield and quality of mushrooms	Numbers of new cultivation technology evolved	Developed technologies will be passed on to the seasonal and commercial growers
2	Suitable control measures for wet bubble and yellow mould diseases identified	Wet bubble and yellow moulds are extremely harmful to mushrooms which need to be controlled through IDM	Low cost, safe, effective, approaches to check the losses due to wet bubble and yellow moulds	Numbers of IDM approaches developed	New IDM will help to reduce the yield losses and also would be safe for environment and human beings
3	Isolates/hybrids of button mushroom developed and evaluated	Breeding techniques are exploited to produce better isolates/hybrids for higher productivity and better quality in button mushroom	Exploitation of germplasm for developing superior genotypes using conventional and molecular approaches	Number of promising isolates/hybrids developed	Developed varieties will be passed on to the stakeholders
4	Strains/species of oyster mushroom developed and evaluated	Breeding techniques are exploited to produce better isolates/hybrids for higher productivity and better quality in oyster mushroom	Exploitation of germplasm for developing superior genotypes using conventional and molecular approaches	Number of promising isolates/hybrids developed	Developed varieties will be passed on to the stakeholders
5.	Trainings on mushroom cultivation technology conducted	Organizing training programmes for farmers, entrepreneurs, scientists, state functionaries and other stakeholders help in dissemination of mushroom knowledge throughout the country.	Information delivery through lectures and hands on practical exposure for human resource development in mushroom science	Number of training programs conducted	Skill enhancement of primary and secondary stake holders including transfer of knowledge will help in human resource development and capacity building

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

S.No.	Outcome/Impact of organization	Jointly responsible for influencing this outcome/impact with the following organization(s)/departments/ministry(s)	Success Indicators	Unit	2011-12	2012-13	2013-14	2014-15	2015-16
1.	Enhancement of production as well as productivity of different mushrooms in the country	--	• Percent increase in the total mushroom production	• Percent	2	3	5	7	10
			• Percent increase in the productivity	• Percent	1	1	2	3	4