Results-Framework Document (RFD)

for

Indian Grassland and Fodder Research Institute (2014-2015)

Address: Near Pahuj Dam, Jhansi-Gwalior Road
Jhansi – 284 003 (U.P.), India
Website: http://www.igfri.res.in

Section 1: Vision, Mission, Objectives and Functions

Vision

Meeting the technological requirement of forage production and feeding systems for high livestock productivity with improved cultivars, eco-sustainable production, feeding and processing technologies

Mission

Generating and disseminating technologies for enhanced quality of forage and livestock productivity in socio-economic and environmental perspectives

Objectives

1. Enhancement in forage productivity
2. Efficient utilization of forage resources for enhancing livestock productivity
3. Technology dissemination and capacity building

Functions

- Collection, evaluation, documentation and conservation of forage genetic resources.
- Basic and strategic research on improvement, production and utilization of fodder crops and grasslands.
- Coordinating and collating research work on forages and grasslands.
- Providing consultancy and expertise in the area of forages and grasslands.
- Technology transfer and human resource development.
- To coordinate multi-location testing programmes at the national level for identification of appropriate varieties and production technologies for different agro-ecological conditions.

Section 2: Inter se priorities among Key Objectives, Success indicators and Targets

S.No.	Objectives	Weight	Actions	Success Indicators	Unit	Weight	Target /Criteria Value				
							Excellent	Very good	Good	Fair	Poor
							100%	90%	80%	70%	60%
1.	Enhancement in forage productivity	52	Evaluation of genetic material	Breeding and germplasm lines evaluated	No.	8	210	175	140	105	70
				Entries tested in AICRP trials for multi-location testing	No.	5	104	87	70	53	36
				Lines identified for unique traits	No.	4	12	10	8	6	4
			Development of improved cultivars	Entries contributed for AICRP multi-location trial	No.	5	14	12	10	8	6
				Varieties identified for release	No.	4	6	5	4	3	2
			Seed production programme	Breeder seed produced	MT	12	101.8	84.8	67.8	50.8	33.8
				Truthfully labelled seed produced	MT	4	34.2	28.5	22.8	17.1	11.4
			Development of new production technologies	Forage production technologies tested	No.	10	6	5	4	3	2

2.	Efficient utilization of forage resources for enhancing livestock productivity	18	Development of feeding and post harvest technology	Feeding systems tested	No.	8	6	5	4	3	2
				Post harvest technology tested	No.	7	4	3	2	1	0
				Technologies recommended	No.	3	3	2	1	0	0
3.	Technology dissemination and capacity building	10	Demonstrations conducted	Fodder Technology Demonstrations (FTDs) conducted	No.	6	1314	1095	876	657	438
			Farmers/Extension official training programmes organized	Trainings organized	No.	4	7	6	5	4	3
	Publication/ Documentation	5	Publication of the research articles in the journals having the NAAS rating of 6.0 and above	Research articles published	No.	3	26	22	18	14	10
			Timely publication of the Institute Annual Report (2013-2014)	Annual Report published	Date	2	30.06.2014	02.07.2014	04.07.2014	07.07.2014	09.07.2014
	Fiscal resource management	2	Utilization of released plan fund	Plan fund utilized	%	2	98	96	94	92	90

	Efficient functioning of the RFD system	3	Timely submission of draft RFD 2014-2015 for approval	On-time submission	Date	2	May 15, 2014	May 16, 2014	May 19, 2014	May 20, 2014	May 21, 2014
			Timely submission of results for 2013-2014	On-time submission	Date	1	May, 1 2014	May 2 2014	May 5 2014	May 6 2014	May 7 2014
	Enhanced Transparency / Improved Service delivery of Ministry/Department	3	Rating from Independent Audit of implementation of Citizens' / Clients' Charter (CCC)	Degree of implementation of commitments in CCC	%	2	100	95	90	85	80
			Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%	1	100	95	90	85	80
	Administrative Reforms	7	Update organizational strategy to align with revised priorities	Date	Date	2	Nov.1 2014	Nov.2 2014	Nov. 3 2014	Nov. 4 2014	Nov.5 2014

			Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC).	% of implementation	%	1	100	90	80	70	60
			Implementation of agreed milestones for ISO 9001	% of implementation	%	2	100	95	90	85	80
			Implementation of milestones of approved Innovation Action Plans (IAPs).	% of implementation	%	2	100	90	80	70	60

Section 3: Trend Values of the Success Indicators

S.No.	Objective (s)	Action(s)	Success Indicator(s)	Unit	Actual value for FY 12-13	Actual value for FY13-14	Target value for FY 14-15	Projected value for FY 15-16	Projected value for FY 16-17
1.	Enhancement in forage productivity	Evaluation of genetic material	Breeding and germplasm lines evaluated	No.	90	236	175	185	195
			Entries tested in AICRP trials for multi-location testing	No.	70	115	87	92	97
			Lines identified for unique traits	No.	10	12	10	12	14
		Development of improved cultivars	Entries contributed for AICRP multi-location trial	No.	7	29	12	15	18
			Varieties identified for release	No.	6	9	5	6	7
		Seed production programme	Breeder seed produced	MT	115.0	87.5	84.8	94.8	104.8
			Truthfully labelled seed produced	MT	25.0	32.5	28.5	30.5	32.5

		Development of new production technologies	Forage production technologies tested	No.	3	5	5	6	7
2.	Efficient utilization of forage resources for enhancing livestock productivity	Development of feeding and post harvest technology	Feeding systems tested	No.	5	6	5	6	7
			Post harvest technology tested	No.	2	5	3	4	5
			Technologies recommended	No.	2	2	2	2	3
3.	Technology dissemination and capacity building	Demonstrations conducted	Fodder Technology Demonstrations (FTDs) conducted	No.	1043	1250	1095	1195	1295
		Farmers/ Extension officials training programmes organized	Trainings organized	No.	6	9	6	7	9
	Publication/ Documentation	Publication of the research articles in the journals having the NAAS rating of 6.0 and above	Research articles published	No.	24	25	22	24	26
		Timely publication of the Institute Annual Report (2013-2014)	Annual Report published	Date	-	-	02.07.2014	-	-

	Fiscal resource management	Utilization of released plan fund	Plan fund utilized	%	100	96	96	98	100
	Efficient functioning of the RFD system	Timely submission of RFD (2014-15) for approval	On-time submission	Date	-	-	May 16, 2014	-	-
		Timely submission of results for RFD (2013-14)	On-time submission	Date	-	-	May 2,2014	-	-
	Enhanced Transparency / Improved Service delivery of Ministry/Department	Rating from Independent Audit of implementation of Citizens' / Clients' Charter (CCC)	Degree of implementation of commitments in CCC	%	-	-	95	-	-
		Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%	-	-	95	-	-
	Administrative Reforms	Update organizational strategy to align with revised priorities	Date	Date	-	-	Nov.2, 2014	-	-

		Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC).	% of Implementation	%	-	-	90	-	-
		Implementation of agreed milestones for ISO 9001	% of implementation	%	-	-	95	-	-
		Implementation of milestones of approved Innovation Action Plans (IAPs).	% of implementation	%	-	-	90	-	-

Section 4 (a): Acronyms

S.No.	Acronym	Description
1	AICRP	All India Coordinated Research Project
2	CGIAR	Consultative Group on International Agricultural Research
3	NBPGR	National Bureau of Plant Genetic Resources
4	NARS	National Agricultural Research System
5	DAC	Department of Agriculture and Cooperation
6	SAUs	State Agricultural Universities
7	SVUs	State Veterinary Universities
8	DAHDF	Department of Animal Husbandry Dairying and Fisheries
9	KVKs	Krishi Vigyan Kendras
10	NGOs	Non-Government Organization
11	FTDs	Fodder Technology Demonstrations
12	FLDs	Front Line Demonstrations
13	TFL	Truth Fully Labelled

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

S.No.	Success Indicator	Description	Definition	Measurement	General Comments
1.	Breeding and germplasm lines evaluated	The genetic diversity of different forage crops will be collected from different sources, characterized and utilized to develop varieties for higher yield, quality and biotic and abiotic stresses	Indicator in relation to evaluation of genetic materials of forage crops	By number	Attempt to develop improved forage cultivar/varieties
2.	Entries tested in AICRP trials for multi-location testing	Genetic materials of forage crops will be tested at different location for higher	Indicator in relation to evaluation of genetic materials of forage crops	By number	Attempt to develop improved forage cultivar/varieties

		yield, quality and biotic and abiotic stresses			
3.	Lines identified for unique traits	Genetic materials of forage crops will be identified for unique traits and to be utilized for developing varieties	Indicator in relation to evaluation of genetic materials of forage crops	By number	Attempt to develop improved forage cultivar/varieties
4.	Entries contributed for AICRP multi-location trial	Cultivars/lines of forage crops will be tested at different location for higher yield, quality and stress resistance	Indicator related to development of improved forage cultivars	By number	Attempt to develop improved forage cultivar/varieties
5.	Varieties identified for release	Entries will be tested under advance varietal trial for higher yield, quality and stress resistance and based on the performance varieties will be identified and released for cultivation	Indicator related to development of improved forage varieties	By number	Attempt to develop improved forage cultivar/varieties
6.	Breeder seed produced	The action points for production of high quality seeds and planting materials for forage crops	Indicator related to high quality forage seed production	By weight	Breeder seed production as per indents received from DAC
7.	Truthfully labeled seed produced	The action points for production of quality seeds and planting materials for forage crops	Indicator related to quality forage seed production	By weight	As per resource available and need of the clientles
8.	Forage production technologies tested	The action points will include developing management practices for higher forage production from arable and non-arable	Indicator related to development of forage production technologies for enhancing forage productivity from arable and	By number	Bridging the gap in demand and availability of fodder in different regions

		lands. Emphasis will be on climate resilient forage production, integrated nutrient management, silvopasture, hortipasture, rangeland development etc	non-arable lands.		
9.	Feeding systems tested	Different feeding/grazing formulae and strategies will be tested in different categories of ruminant animals for improvement in productive performances and efficient utilization of feed resources	Indicator related to developing niche based feeding systems for livestock leading to enhancement in productive performances.	By number	Attempt for efficient utilization of forage resources for enhanced livestock productivity
10.	Post harvest technology tested	Post harvest management and value addition to improve forage utilization and develop prototypes to enhance ease in farm operation and improve forage productivity	Indicator related to post harvest management for efficient utilization of forages	By number	Attempt for efficient utilization of forage resources for enhanced livestock productivity
11.	Technologies recommended	Based on the performances on higher forage production, input use efficiency, improvement in natural resources, efficient utilization of feed resources and improved animal production performances, ease in farm operations etc, technologies will be identified and	Indicator related to overall improvement/development in forage production, feeding and post-harvest adaptable technologies	By number	Bridging the gap in demand and availability of forages and attempt for efficient utilization of forage resources for enhanced livestock productivity

		recommended for adoptions			
12.	Fodder Technology Demonstrations (FTDs) conducted	The action points will include demonstrations on adoptable forage production and utilization technologies to the famers	Indicator with respect to transfer of technology on forages and its utilisation and its impact	By number	Attempts towards better forage technology dissemination and capacity buildings
13.	Trainings organized	The action point will include organization of trainings on forage production and utilization for capacity building of farmers/extension officials	Trainers training and capacity building of various stakeholders involved in livestock keeping	By number	Better adoption of forage related technologies

Section 5: Specific performance requirements from other departments that are critical for delivering agreed results

Location Type	State	Organisation Type	Organization Name	Relevant Success Indicator	What is your requirement from this organization	Justification for this requirement	Please quantify your requirement from this organization	What happens if your requirement is not met
International/ National	Different countries /states	Research & development/ Universities	CGIAR institutes, Bio-diversity international, NBPGR, NARS	Breeding and germplasm lines evaluated	Procurement & exchange of germplasm	Required for genetic improvement in forage crops	-	Forage breeding programmes will be affected
National	Delhi	Development type	DAC	Breeder seed produced	Indented quantity/carry over	Required for more seed production	-	Possibility of less seed production
National	Different states	Development type	Different departments and agencies	Truthfully labelled seed produced	Demand for TFL forage seed	Required as incentive for more TFL seed production	-	Possibility of less TFL seed production
National	Different states	Research & Development type	SAUs, SVUs, DAHDF, KVKs, NGOs/ Ministry of Rural Development	Forage production technologies tested	Collaboration and inter-institute outreach /network/	Required for testing and validation of technologies	-	Technology development will be affected

			and State Gov. etc.		/coordinated programmes			
National	Different states	Research & Development type	DAHDF, KVKs, NGOs/ Ministry of Rural Development and State Gov. etc.	Post harvest technology tested	Collaboration and inter-institute outreach /network/ /coordinated programmes	Required for testing and validation of post-harvest technologies	-	Post-harvest technology development will be affected
National	Different states	Research & Development type	DAC, SAUs, KVK	Fodder Technology Demonstrations (FTDs) conducted	Financial & other support services	For effective implementation and promotion of FTDs on the line of FLDs	-	FTDs will be adversely affected
National	Different states	Research & Development type	SAUs, SVUs, DAHDF, Dairy federations/ milk unions, State line departments Ministry of Rural Development and State Governments	Trainings organized	Financial & other support services	For provision of fund for farmers training and capacity building of trainers	-	Farmers training and capacity building of trainers will be affected

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

S No.	Outcome/impact	Jointly responsible for influencing this out come/ impact with the following organization (s)/department(s)/ ministry (ies)	Success indicator(s)	Unit	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
1	Enhanced forage productivity	SAUs & SVUs	Increase in productivity	Percent	1.7	1.8	2.0	2.1	2.2
2	Enhanced farmer's income	SAUs, SVUs, DAHDF, KVKs, NGOs/ Ministry of Rural Development and State Gov. etc.	Improvement in farmers income	Percent	3.4	3.5	3.6	3.7	3.8