



Results-Framework Document (RFD)

for

**Directorate of Poultry Research
(2014–2015)**

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Section 1 : Vision, Mission, Objectives and Functions

Vision

To enhance productivity of chicken for household nutritional security, income and employment generation

Mission

To develop and propagate improved varieties of chicken for sustainable production under intensive and extensive systems

Objectives

- 1) Improvement of pureline chickens and development of crosses
- 2) Production and supply of improved poultry germplasm

Functions

- 1) To coordinate and monitor ICAR-sponsored network research programmes
- 2) To undertake applied research on genetics and breeding, and conservation of improved chicken germplasm with supportive research on nutrition, disease control and management
- 3) To lay special emphasis on development of chicken varieties for meeting the needs of rural/tribal and other under-privileged sections of the society

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

Sl. No.	Objectives	Weight	Actions	Success Indicators	Unit	Weight	Targets/Criteria Value				
							Excellent	Very Good	Good	Fair	Poor
							100%	90%	80%	70%	60%
1	Improvement of pureline chickens and development of crosses	38	Evaluation of purelines	Chicks evaluated for juvenile traits	Number	12	48000	44000	40000	36000	32000
				Breeders evaluated for production traits	Number	12	34000	32000	30000	28000	26000
			Evaluation of crosses	No. of crosses produced and evaluated	Number	8	8	7	6	5	4
			Candidate gene analysis	Gene fragments analysed	Number	3	11	9	7	5	3
			Balanced nutrition for purelines, crosses and commercial germplasm	Feeds formulated and evaluated	Number	3	48	40	32	24	16
2	Production and supply of improved poultry germplasm	42	Supply of poultry seed	Hatching eggs, chicks & grownup birds distributed (including parents)	Number	42	850000	800000	750000	700000	650000
	Publication/ Documentation	5	Publication of the research articles in the journals having the NAAS	Research articles published	Number	3	16	14	12	10	8

			rating of 6.0 and above								
			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 for 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	Date	Date	2	Nov.1, 2014	Nov.2, 2014	Nov.3, 2014	Nov.4, 2014	Nov.5, 2014

			strategy to align with revised priorities								
			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

Sl. No.	Objectives	Actions	Success Indicators	Unit	Actual value for FY 12/13	Actual value for FY 13/14	Target value for FY 14/15	Projected value for FY 15/16	Projected value for FY 16/17
1	Improvement of pureline chickens and development of crosses	Evaluation of purelines	Chicks evaluated for juvenile traits	Number	42351	42567	44000	44000	44000
			Breeders evaluated for production traits	Number	37081	30892	32000	32000	32000
		Evaluation of crosses	No. of crosses produced and evaluated	Number	6	8	7	7	7
		Candidate gene analysis	Gene fragments analysed	Number	4	9	9	10	10
		Balanced nutrition for purelines, crosses and commercial germplasm	Feeds formulated and evaluated	Number	42	59	40	45	50
2	Production and supply of improved poultry germplasm	Supply of poultry seed	Hatching eggs, chicks & grownup birds distributed (including parents)	Number	6,15,376	723920 [@]	800000	850000	900000
	Publication/ Documentation	Publication of the research articles in the journals having the NAAS rating of 6.0 and above	Research articles published	Number	20	14	14	14	14
		Timely publication of the Institute Annual Report (2013-2014)	Annual Report published	Date	16.06.2012	26.06.2013	02.07.2014	30.06.2015	30.06.2016
	Fiscal resource management	Utilization of released plan fund	Plan fund utilized	%	99.63	99.76	96	99	99
	Efficient Functioning of the RFD System	Timely submission of Draft RFD for 2014-2015 for Approval	On-time submission	Date	March 22, 2012	Feb. 2, 2013	May 16, 2014	May 16, 2015	May 16, 2016

		Timely submission of Results for 2013-2014	On-time submission	Date	April 20, 2012	April 12, 2013	May 2, 2014	May 2, 2015	May 2, 2016
	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	%	100	100	95	95	95
		Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%	100	100	95	95	95
	Administrative Reforms	Update organizational strategy to align with revised priorities	Date	Date	June 5, 2012	June 7, 2013	Nov.2, 2014	Nov. 2, 2015	Nov. 2, 2016
		Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC)	% of Implementation	%	100	100	90	90	90
		Implementation of agreed milestones for ISO 9001	% of implementation	%	Process initiated	Certification in progress	95	95	95
		Implementation of milestones of approved Innovation Action Plans (IAPs).	% of implementation	%	Action plan to be prepared	100	90	90	90

@supply from AICRP added

Section 4(a) : Acronyms

Sl.No	Acronym	Description
1.	DPR	Directorate of Poultry Research
2.	ICAR	Indian Council of Agricultural Research
3.	AICRP	All India Coordinated Research Project
4.	SSCP	Short Sequence Confirmation Polymorphism
5.	NGO	Non-Government Organization
6.	KVK	Krishi Vigyan Kendra
7.	ASM	Age At Sexual Maturity
8.	AH	Animal Husbandry
9.	SAU	State Agricultural University
10.	GHR	Growth Hormone Receptor

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

Sl. No.	Success indicator	Description	Definition	Measurement	General Comments
1.	Chicks evaluated for juvenile traits	At DPR, different lines (2 male lines, PD-2, PD-3 & PD-4) will be regenerated after selection for traits of importance. Under AICRP, 800/1000 chicks will be produced in local native birds through random mating at each centre. Coloured broiler pure lines and layer lines will be maintained with mild selection pressure for traits of importance and used in production of improved/location specific germplasm for rural poultry.	Chicks of purelines need to be evaluated for juvenile traits so as to bring about improvement in their growth rate.	Number	Growth rate during young age has considerable importance since meat is the final product from broiler poultry production.
2.	Breeders evaluated for production traits	Production performance in various purelines (rural, layer and broiler lines) and test crosses will be evaluated under intensive system of rearing at DPR and AICRP centres. At the time of housing, 500 pullets and 150 males (rural and broiler), 1000 pullets and 200 males (layer) will be housed for recording production data on egg production, egg weight etc.	Evaluation of rural, layer and broiler chicken purelines (breeders) for production parameters like ASM, body weight, egg production, egg weight etc.	Number	Evaluation of breeders for production traits helps in selection and thereby improves the productivity.
3.	No. of crosses produced and evaluated	At DPR and AICRP centres, the available purelines and native germplasm will be crossed to produce improved/location specific rural germplasm for dual and egg purpose. The performance of crosses will be evaluated for important economic traits (like growth, livability, production etc).	Development of new crosses is necessary for augmenting poultry production in rural, tribal and under developed areas of the country.	Number	Combination of purelines and native germplasm may help in tapping the beneficial effects of heterosis.
4.	Gene fragments	Candidate genes like GHR & Follistatin associated with growth traits, respectively	Various candidate genes associated with growth will be	Number	Candidate gene analysis may provide

	analysed	will be analysed by SSCP followed by sequencing. Genotypes will be established. The frequency of the genotypes and alleles for the gene will be estimated in chicken population.	studied.		insight into the gene and trait association for important economic traits.
5.	Feeds formulated and evaluated	The purelines, crosses and commercial germplasm will be fed diets formulated to provide balanced nutrition so as to meet their nutrient requirements.	Feed is blend of several raw materials like cereals, protein cakes, vitamins, minerals and feed additives.	Number	To be formulated, prepared and evaluated.
6.	Hatching eggs, chicks & grownup birds distributed (including parents)	The improved chicken germplasm developed by the Directorate (Vanaraja, Gramapriya, Krishibro etc.) will be popularised through print and electronic media, participation in exhibitions etc. The Directorate is maintaining good liaison with the developmental organizations of state and central governmental agencies, NGOs, KVKs etc. The centres of poultry seed project/AICRP also will be popularising the improved germplasm. The germplasm will be supplied in the form of day old chicks, fertile eggs and parents to the farmers and other stakeholders.	Distribution of improved chicken germplasm to improve the poultry production and productivity in the country, particularly in the rural and tribal areas.	Number	Propagation of improved germplasm may help in improving the nutritional and economic status of rural, tribal and other under-privileged sections of the society.

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

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
All India	All	NGOs, Govt. agencies, farmers etc.	State AH Depts., KVKs, Govt. agencies, NGOs etc.	Hatching eggs, chicks & grownup birds distributed (including parents)	Demand for poultry seed	Indent for poultry seed of improved germplasm like Vanaraja, Gramapriya etc.	Poultry seed is produced as per the requirements of stakeholders.	Does not affect as the activities of the institute are basically research oriented and production and supply is demand driven based on the management/production capacities of the stakeholders. However, in case of disease outbreak, the activity is likely to be affected

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

Sl.No.	Outcome/ impact	Jointly responsible for influencing this outcome/impact with the following organisation (s)/department (s) /ministry (ies)	Success indicator (s)	Unit	2012- 2013	2013- 2014	2014- 2015	2015- 2016	2016- 2017
1	Improved productivity in layer, broiler and rural chickens	SAUs	Genetic response in pureline chickens	%	2.64	2.69	2.7	2.7	2.7