



RESULTS-FRAME WORK DOCUMENT (RFD)

for

PROJECT DIRECTORATE ON POULTRY

(2012 -2013)

**Rajendranagar, Hyderabad 500 030
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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 layer and broiler chicken strains for commercial poultry
- 2) Development of germplasm for rural poultry farming
- 3) Supportive research in nutrition, health and molecular genetics
- 4) Production and supply of improved backyard 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 to 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

Objectives	Weight (%)	Actions	Success Indicators	Unit	Weight (%)	Targets / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
Improvement of layer and broiler chicken strains for commercial poultry	25	Evaluation of layer pure lines	Evaluation of production traits	Number of birds	9	16000	14000	12000	10000	8000
		Evaluation of broiler pure lines	Evaluation of juvenile traits	Number of birds	5	26000	24000	22000	20000	18000
			Evaluation of production traits	Number of birds	5	5500	5000	4500	4000	3500
		Regeneration of pure lines	Regeneration of layer lines	Number of chicks	3	18000	16000	14000	12000	10000
			Regeneration of broiler lines	Number of chicks	3	30000	28000	26000	24000	22000
Development of germplasm for rural poultry farming	25	Evaluation of rural pure lines & crosses	Evaluation of juvenile growth traits	Number of birds	8	9000	8000	6000	4000	3000
			Evaluation of production traits	Number of birds	9	4500	4000	3500	3000	2500
		Regeneration of rural poultry pure lines	Regeneration of lines	Number of chicks	8	12000	10000	8000	6000	4000
Supportive research in nutrition, health and molecular genetics	10	Candidate gene analysis for growth traits	Analysis of myostatin & IGF-1 promoter in pureline chickens	Number of birds	4	600	500	400	300	200

		Disease management in PDP germplasm	Screening of breeders for ALV	Number of breeders	6	3000	2800	2600	2400	2200
Production and supply of improved backyard poultry germplasm	28	Supply of improved chicken germplasm	Distribution of poultry seed (hatching eggs & chicks)	Number	15	4,75,000	4,50,000	4,25,000	4,00,000	3,75,000
		Supply of parent line chicks	Supply to various stake holders	Number	13	50,000	46,000	42,000	38,000	34,000
Efficient functioning of the RFD system	3	Timely submission of RFD for 2012-13	On-time submission	Date	2	Mar. 23 2012	Mar. 26 2012	Mar. 27 2012	Mar. 28 2012	Mar. 29 2012
		Timely submission of Results for 2012-13	On-time submission	Date	1	May 1 2013	May 2 2013	May 3 2013	May 6 2013	May 7 2013
Administrative Reforms	5	Implement ISO 9001	Prepare ISO 9001 action plan	Date	1	04.06.2012	05.06.2012	06.06.2012	07.06.2012	08.06.2012
			Implementation of ISO 9001 action plan	Date	2	March 25 2013	March 26 2013	March 27 2013	March 28 2013	March 29 2013
		Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	2	100	95	90	85	80
Improving Internal Efficiency / responsiveness / service delivery of Ministry /	4	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	2	100	95	90	85	80

Department			Independent Audit of implementation of public grievance redressal system	%	2	100	95	90	85	80
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SECTION 3
TREND VALUES OF THE SUCCESS INDICATORS

Objectives	Actions	Success indicators	Unit	Actual value for FY 10/11	Actual value for FY 11/12	Targeted value for FY 12/13	Projected value for FY 13/14	Projected value for FY 14/15
Improvement of layer and broiler chicken strains for commercial poultry	Evaluation of layer pure lines	Evaluation of production traits	Number of birds	12800	15487	14000	14000*	14000*
	Evaluation of broiler pure lines	Evaluation of juvenile traits	Number of birds	32186	32522	24000	32000*	32000*
		Evaluation of production traits	Number of birds	5060	6112	5000	5000*	5000*
	Regeneration of pure lines	Regeneration of layer lines	Number of chicks	20182	19995	16000	16000*	16000*
		Regeneration of broiler lines	Number of chicks	32816	33722	28000	28000*	28000*
Development of germplasm for rural poultry farming	Evaluation of rural pure lines & crosses	Evaluation of juvenile growth traits	Number of birds	1525	3125	2800	3750	3825
		Evaluation of production traits	Number of birds	831	1089	4000	2250	2250
	Regeneration of rural poultry pure lines	Regeneration of lines	Number of chicks	10142	12323	10000	10000	10000
Supportive research in nutrition, health and molecular genetics	Candidate gene analysis for growth traits	Analysis of myostatin & IGF-1 promoter in pureline chickens	Number of birds	425	632	500	700	700
	Disease management in PDP germplasm	Screening of breeders for ALV	Number of breeders	2844	3806	2800	3000	3000
Production and supply of improved backyard poultry germplasm	Supply of improved chicken germplasm	Distribution of poultry seed (hatching eggs & chicks)	Number	464464	593778	450000	500000*	510000*

	Supply of parent line chicks	Supply to various stake holders	Number	52493	62,010	46000	56000*	58000*
Efficient functioning of the RFD system	Timely submission of RFD for 2012-13	On-time submission	Date	-	-	Mar. 26 2012	-	-
	Timely submission of Results for 2012-13	On-time submission	Date	-	-	May 2 2013	-	-
Administrative Reforms	Implement ISO 9001	Prepare ISO 9001 action plan	Date	-	-	June 5 2012	-	-
		Implementation of ISO 9001 action plan	Date	-	-	March 26 2013	-	-
	Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	-	-	95	-	-
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	-	-

* subject to approval no.of centres in EFC and technical programme as finalised in the Annual Review meetings

SECTION 4

Description and Definition of Success Indicators and Proposed Measurement Methodology

Objective 1

Different pureline chicken populations will be evaluated for the selection traits, viz. body weight during juvenile period in broiler lines, production traits in layer and broiler lines as per the standard procedure. Coloured broiler pure lines will be regenerated after selection for traits of importance with the optimum number of chicks from dams selected based on 5 week body weight (broiler male lines) and two-stage selection for 5 week body weight and egg production (broiler female lines). Besides, the layer purelines also will be regenerated from the parents selected based on Osborne index for production traits.

Objective 2

At PDP, the pureline chicken populations will be evaluated for various selection traits, viz. body weight/shank length in male line for egg type germplasm, PD-4 and PD-5 as per the standard procedure. Production performance in various purelines and test crosses will be evaluated under intensive system of rearing. Different lines (2 male lines, PD-2, PD-3, PD-4 & PD-5) will be regenerated after selection for traits of importance. Under AICRP, 1000 chicks will be produced in local native birds through random mating at each centre. At the time of housing, 500 pullets and 150 males will be kept for recording data. Field evaluation of test crosses (about 250 birds) will be undertaken in backyard/free range.

Objective 3

Candidate genes like IGF-1 & myostatin promoter associated with growth traits, respectively 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. The response of PB-2 line to dietary Selenium will be studied under CRD. The incidence of vertically transmitted disease (ALV) will be assessed in breeders before regeneration using standard ELISA.

Objective 4

The improved chicken germplasm developed by the Directorate (Vanaraja, Gramapriya, Krishibro etc.) are 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 germplasm is supplied in the form of day old chicks, fertile eggs and parents to the farmers and other stake holders.

SECTION 5

Specific Performance Requirements from other Departments

- 1) Environmental (adverse climate), managerial (feed quality, housing density etc.) and disease out breaks may affect the performance indicators.
- 2) Timely availability of funds and inputs (research consumables) is crucial for carrying out the targeted action points during the period.
- 3) Poultry seed supply is largely influenced by demand from the stakeholders and Govt. agencies, which are in turn governed by factors like season of the year, Govt. policies etc. Creation of additional housing space at PDP will enable meeting the demand for improved germplasm from different parts of the country.

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 (ies)	Success indicators	Unit	2010-11	2011-12	2012-13	2013-14	2014-15
1	Improvement of layer and broiler chicken strains for commercial poultry	State Agri./Vety. Universities Other ICAR Institutes	Percent improvement in productivity	Percent	0.1	0.10	0.15	0.20	0.22
2	Development of germplasm for rural poultry farming	State Agri./Vety. Universities Other ICAR Institutes	Percent improvement in productivity	Percent	0.5	0.5	0.6	0.7	0.8
3	Supportive research in nutrition, health and molecular genetics	Breeding programmes Other Institutes/SAUs Pvt. industry	No. of technologies/ processes etc.	No.	2.0	3.0	4.0	4.0	5.0

Figures given are cumulative over the base year, i.e. 2010-11