



**RESULTS FRAME WORK DOCUMENT  
(RFD)**

*of*

**CENTRAL AVIAN RESEARCH INSTITUTE**

**(2013 - 2014)**

**Central Avian Research Institute**

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**Website: [www.icar.org.in/cari/](http://www.icar.org.in/cari/)**

## **Section 1: Vision, Mission, Objectives and Functions**

### **Vision**

- Enhancing productivity & profitability of diversified poultry species for sustainable poultry farming for household nutritional security, income and employment generation.

### **Mission**

- Developing and popularizing appropriate poultry production and processing technologies in respect of diversified avian species for enhanced profitability.

### **Objectives**

- Improvement of diversified poultry germplasm
- Value-addition and quality assurance of poultry products
- Transfer of proven technologies

### **Functions**

- To address the matters relating to all aspects of research on different poultry species
- To address the matters related with education/training and human resources development on all aspects of poultry production.

## SECTION 2: Inter se Priorities among Key Objectives, Success Indicators and Targets

S.No	Objective(s)	Wt	Action(s)	Success Indicator(s)	Unit	Weight	Target/Criteria Value				
							Excellent	Very Good	Good	Fair	Poor
							100%	90%	80%	70%	60%
1.	Improvement of diversified poultry germplasm	54	Production of improved stocks of diversified poultry species and analysis of candidate genes	Chicks of quail, duck, turkey, guinea fowl and indigenous chicken hatched	Number	20	19500	19000	18500	18000	17500
			Genes studied	Number	07	22	19	16	12	10	
			Quality assessment of poultry feed and evaluation of newer feed resources and additives	Feed samples analyzed	Number	07	235	225	215	200	190
				Feed resources /additives evaluated	Number	10	6	5	4	3	2
			Development of technology/ methods for enhancing reproductive efficiency in ducks	Increase in fertility in ducks through AI technology	Percent	10	7	6.5	6.0	5.0	4.0
2.	Value-addition and quality assurance of poultry products	15	Development of technologies for novel egg/functional poultry meat products	Technology for value-added products standardized	Number	8	2	1	0	0	0
			Assessment/amelioration of potent bio- and phyto-contaminants in poultry products	Poultry products samples analyzed	Number	7	260	250	240	220	200
3.	Transfer of proven technologies	20	Capacity building program and commercialization of technologies	Training program organized	Number	5	6	5	4	3	2
				Farm school on air organized	Number	5	2	1	0	0	0
				Copies of software sold	Number	5	30	28	26	24	22

			Publications of extension materials	Publications released	Number	5	5	4	3	2	1
4	Efficient functioning of RFD system	3	Timely submission of draft RFD 2013-14 for approval	On-time submission	Date	2	15.5.13	16.5.13	17.5.13	20.5.13	21.5.13
			Timely submission of results for 2012-13	On-time submission	Date	1	1.5.13	2.5.13	5.5.13	6.5.13	7.5.13
5	Administrative reforms	4	Implementation of ISO9001 as per approved action plan	Implementation	%	2	70	95	90	85	8030
			Prepare an action plan for Innovation	On-time submission	Date	2	30.7.13	10.8.13	20.8.13	30.8.13	10.9.13
6	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	Improvement of diversified poultry germplasm	Production of improved stocks of diversified poultry species and analysis of candidate genes	Chicks of quail, duck, turkey, guinea fowl and indigenous chicken hatched	Number	17900	28224	19000	19500	20000
			Genes studied	Number	11	27	19	22	25
		Quality assessment of poultry feed and	Feed samples analysed	Number	156	279	225	240	250

		evaluation of newer feed resources and additives	Feed resources /additives evaluated	Number	6	3	5	6	7
		Development of technology/ method for enhancing reproductive efficiency in ducks	Increase in fertility in ducks through AI technology	Percent	4	8	6.5	7	7.5
2	Value-addition and quality assurance of poultry products	Development of technologies for novel egg/functional poultry meat products	Technology for value-added poultry products standardized	Number	1	1	1	1	1
		Assessment/ amelioration of potent bio- and phyto-contaminants in poultry products	Poultry products samples analyzed	Number	272	315	250	265	275
4	Transfer of proven technologies	Capacity building program and commercialization of technologies	Training program organized	Number.	4	3	5	5	6
			Farm school on air organized	Number	1	1	1	1	1
			Copies of software sold	Number	30	32	28	32	35
		Publications of extension materials	Publications released	Number	4	3	4	4	4
5	Efficient functioning of RFD	Timely submission of RFD 2013-14	On-time submission	Date	-	-	16.5.13	-	-
		Timely submission of results for 2012-13	On-time submission	Date	-	-	2.5.13	-	-
6	Administrative reforms	Implementation of ISO9001 as per approved action plan	% Implementation	%	-	-	95	-	-
		Prepare an action plan for Innovation	On-time submission	Date	-	-	10.8.13	-	-

7	Improving internal efficiency /responsiveness/ service delivery of Ministry/Department	Implementation of sevottam	Independent audit of implementation of citizen charter	%			95	-	-
			Independent audit of implementation of public grievance system	%			95	-	

#### Section 4: Acronym

S.No.	Acronym	Description
1.	A.H.	Animal Husbandry
2.	NGOs	Non-Governmental Organizations
3.	SAUs	State Agricultural Universities
4.	KVKs	Krishi Vigyan Kendras
5.	A.I.	Artificial Insemination
6.	AIR	All India Radio
7.	CPDO	Central Poultry Development Organization
8.	SVUs	State Veterinary Universities

#### Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl. No.	Success Indicator	Description	Definition	Measurement	General Comments
1	Chicks of quail, duck, turkey, guinea fowl and indigenous chicken hatched	Improvement of diversified poultry species viz. quail, duck, turkey, guinea fowl and indigenous chicken is one of the important research activities of the institute. The well designed genetic selection programs are ongoing for each of these species under which the targeted number of chicks are being hatched for executing the selection.	To augment the poultry production/ productivity the thrust is being given for improving the diversified poultry species.	Number	The production potentials of Diversified poultry species have not yet been fully explored for optimal exploitation; besides each of these species has its own unique attributes in terms of quality of products.
2	Genes studied	Number of genes studied will help in	Understanding the	Number	Molecular tools may help in

		understanding the molecular mechanisms involved in various biological processes and thereby integrating molecular intervention for bringing desired improvement in the traits.	pathways using molecular tools will help in augmenting productivity, immunity, tropical adaptability and quality.		developing finer tools for further improvement besides helping in breaking the yield barriers.
3	Feed samples analyzed	Analysis of feed samples will help in quality control of poultry feed for bringing the improvement in the production traits as well as welfare.	Mycotoxins and proximate analyses of feed sample are essential for quality assurance of feed.	Number	Good quality poultry feed is an essential component of poultry production. However, fungal growth contaminates feed affecting production. Analysis of feed samples from each batch is therefore routinely done.
4	Feed resources /additives evaluated	Identification of newer feed resources and additives will help in economizing feed cost and reduce the competition between human and poultry for feed ingredients.	Evaluation of feed resources/additives is essential for precision feeding.	Number	Feed cost accounts about 70% of total poultry production. Cost escalation and scarcity of feed ingredients necessitate identification of cheaper and alternate feed resources for least-cost feeding.
5	Increase in fertility in ducks through AI technology	Standardization of AI for improving the fertility in ducks will help bringing the improvement at faster rate and production of pedigreed stocks for genetic selection experiments.	Semen evaluation of native and exotic duck breeds and developing AI technology is essentially required for augmenting duck production	Percent	Duck is next to chicken in number and production. For improving the duck populations, AI technology will play a vital role
6	Technology for value-added products standardized	Development of value added delicious and nutritious poultry egg and meat products will help in fetching more profits as well as providing nutritional security.	Production of value added shelf stable consumer acceptable poultry products.	Number	Poultry products are consumed by all the sections of the society as one of the choicest food. These products earn good dividend
7	Poultry products samples analyzed	For production of quality poultry products; assessing the potent bio- and phyto-contaminants is essential.	Product qualities assessment for producing safe poultry products.	Number	Various pathogens and contaminants may be encountered in poultry products which necessitates quality evaluation of products.
8	Training	For dissemination of technical know-how of	Organizing the training	Number	Trainings program are organized not

	program organized	poultry production the training program for farmers and entrepreneurs is one the effective extension method.	programs is one of the proven methods.		only for farmers but also for field veterinarians and army personnels. State govt. and NGOs sponsored programs are also being organized.
9	Farm school on air organized	Farm schools on AIR on specified topics related to poultry production are being organized for distant beneficiaries	Distant learning is one of the methods of benefiting the users and popularizing the poultry production.	Number	Farm school on air is benefiting number of farmers' and helped in popularizing the poultry. All India Radio sponsored farm school on are being organized by the institute for last many years.
10	Copies of software sold	The MAKEFEED software developed at this institute is being commercialized for the benefit of entrepreneurs and poultry industry.	For easy computation of least cost ration for poultry the software has been developed	Number	The computation of least cost ration using software is becoming popular in poultry industry. The development of MAKEFEED software is step forward in this direction
11	Publications released	Extension materials like pamphlets, folders, booklets etc. on various aspects of poultry production are being published and released.	Printing and release of extension materials for benefits of farmers and entrepreneurs.	Number	Publication of extension materials in commoners' language and releasing it for benefit of farmers and popularization of poultry, is an established extension method.

### Section 5: Specific performance requirements from other Departments/Agencies

Location type	State	Organization Type	Organization Name	Relevant Success Indicator	What is your requirement from this organization	Justification for this requirement	Please quantify your requirement	What happens if your requirement is not met
State	All states of India	SAUs/research Institute/ State AH departments, KVKs and NGOs	SAUs/research Institute/ State AH department, KVKs and NGO	Chicks of quail, duck, turkey, guinea fowl and indigenous chicken hatched	Collaboration for dissemination of improved poultry germplasm	Various agencies located in different states of the country require improved poultry germplasm	Cannot be quantified at this stage and will depend on demand	The target value for supply of germplasm may not be achieved



**Section 6 : outcome /impact of organization ministry**

<b>S. No.</b>	<b>Outcome /impact of organization/ RSCs</b>	<b>Jointly responsible for influencing this outcome/ impact with the following organization(s) departments/ ministry(ies)</b>	<b>Success indicator (s)</b>	<b>Unit</b>	<b>2011 -12</b>	<b>2012 -13</b>	<b>2013 -14</b>	<b>2014 -15</b>	<b>2015 -16</b>
1	Diversified poultry germplasm supply	State AH Deptt/ CPDO and SAUs / SVU / NGOs Entrepreneur/private sector	Germplasm supplied	Number (lakhs)	1.48	1.50	1.55	1.60	1.65
2	Saving in feed quantity- poultry for meat	Institute's responsibility	Feed quantity saved over 1981*	%	28.68	30.60	32.58	34.62	36.72
3	Gain in productivity – poultry for eggs	Institute's responsibility	Gain in egg productivity over 1981*	%	27.56	25.24	29.17	29.67	31.42

**\*Benchmarked at 1981 on account of institute inception in 1979**