



**RESULTS-FRAME WORK DOCUMENT (RFD)**

**for**

**NATIONAL RESEARCH CENTRE ON  
EQUINES**

**(2012-2013)**

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**<http://nrce.nic.in>**

## SECTION – 1: VISION, MISSION, OBJECTIVES AND FUNCTIONS

### *Vision*

Generation of demand driven technologies for equine health and production management and capacity building for competitive power utilization in agriculture operations to serve the underprivileged under changed environmental and socioeconomic scenario

### *Mission*

- Achieving freedom from dreaded equine diseases through development of modern diagnostics and vaccines.
- Technology transfer for superior mule and true-to-breed indigenous horse production in their home tracts using artificial insemination and embryo transfer technology with an aim to establish embryo bank of Marwari and Kathiawari horses to enhance export.
- Enhancing performance of working equids especially in arid, semi-arid and mountainous regions.
- Income generation through market intelligence activities.

### *Objectives*

- To develop diagnostics/ biologicals for major equine diseases.
- Diagnosis, surveillance and monitoring of equine diseases.
- Maintenance of National repository of microorganisms of animal origin.
- Enhancing productivity of equines through improved health and management.
- Providing diagnostic, advisory and consultancy services.

### *Functions*

To attend to all matters related to the welfare of equines (horses, mules and donkeys) and economic upliftment of equine owners including developing necessary infrastructural framework for conducting basic, applied and strategic researches in the areas of Equine health and production; undertaking research in nutrition, physiology, breeding, reproduction, conservation and preservation of precious germplasm of indigenous breeds of horses and donkeys as well as in conducting basic, strategic, anticipatory, and translational research on major equine diseases and also as National Referral facility for diagnosis, surveillance and monitoring of equine diseases at National level.

Section 2: *Inter se* priorities among key objectives, success indicators and targets

Objectives	Weight (%)	Actions	Success Indicators	Unit	Weight (%)	Target/Criteria Value				
						Excellent	Very good	Good	Fair	Poor
						100%	90%	80%	70%	60%
To develop diagnostics / biologicals for major equine diseases	24	Development of ELISA based on r-Ag under OIE Twinning project on equine piroplasmosis	Its validation and use on field equine sera	Number	12	200	180	170	150	130
		Development of recombinant protein-based immune-diagnostic for equine infectious anemia (EIA)	Its optimization and testing on field equine sera	Number	12	1000	900	800	700	600
Diagnosis, surveillance and monitoring of equine diseases	15	Surveillance, monitoring and control of common equine diseases	Testing of biological samples for equine diseases	Number	15	1200	1000	900	800	700
Maintenance of National repository of microorganisms of animal origin	20	Identification, characterization and reposition of animal microbes	Reposition of reference microbial strains/isolates, plasmids, genomic DNA/RNA, clones etc	Number	15	50	40	30	20	10
			Characterization of bacterial and viral isolates	Number	5	40	30	20	10	05
Enhancing productivity of equines through improved health and management	14	Phenotypic and genetic characterization of indigenous donkey	Ten biometric indices will be recorded	Number	4	100	90	80	70	60
			Twenty five Microset based genetic typing – with 100 animals	Number	4	100	90	80	70	60
		Cryopreservation of equid semen using amides	Number of semen doses cryopreserved	Number	3	180	160	140	120	100
		Artificial inseminations with different cryo-protectants in recipient mares	Number of artificial inseminations	Number	3	25	20	15	10	5
Providing diagnostic, advisory and consultancy services	15	Testing of biological samples of equines for various diseases	Testing of serum samples for EIA and Glanders	Number	15	7000	6500	6000	5500	5000
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-	On-time submission	Date	1	May 1, 2013	May 2, 2013	May 3, 2013	May 6, 2013	May 7, 2013



		13								
Administrative Reforms	5	Implement ISO 9001	Prepare ISO 9001 action plan	Date	1	June 4, 2012	June 5, 2012	June 6, 2012	June 7, 2012	June 8, 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	Percent	2	100	95	90	85	80
Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department	4	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	Percent	2	100	95	90	85	80
			Independent Audit of implementation of public grievance redressal system	Percent	2	100	95	90	85	80

### Section 3: Trend values of the success indicators

Objectives	Actions	Success Indicators	Unit	Actual Value for FY 2010-11	Actual Value for FY 2011-12	Target Value for FY 12-13	Projected Value for FY 2013-14	Projected Value for FY 2014-15
To develop diagnostics/biologicals for major equine diseases	Development of ELISA based on r-Ag under OIE Twinning project on equine piroplasmosis	Its validation and use on field equine sera	Number	-*	*	180	200	225
	Development of recombinant protein-based immune-diagnostic for equine infectious anemia (EIA)	Its optimization and testing on field equine sera	Number	2000	3000	900	##	##
Diagnosis, surveillance and monitoring of equine diseases	Surveillance, monitoring and control of common equine diseases	Testing of biological samples for equine diseases	Number	587	1805	1000	1300	1400
Maintenance of National repository of microorganisms of animal origin	Identification, characterization and reposition of animal microbes	Reposition of reference microbial strains/isolates, plasmids, genomic DNA/RNA, clones etc	Number	30	136	40	45	50
		Characterization of bacterial and viral isolates	Number	15	104	30	35	40
Enhancing productivity of equines through improved Health and management	Phenotypic and genetic characterization of indigenous donkey	Ten biometric indices will be recorded	Number	-*	-*	90	100	50 <sup>s</sup>
		Twenty five Microset based genetic typing –with 100 animals	Number	-*	-*	90	100	50 <sup>s</sup>
	Cryopreservation of equid semen using amides	Number of semen doses cryopreserved	Number	165	330	160	150	150
	Artificial inseminations with different cryoprotectants in recipient mares	Number of artificial inseminations	Number	5	28	20	30	35
Providing diagnostic, advisory and consultancy services	Testing of biological samples of equines for various diseases	Testing of serum samples for EIA and Glanders	Number	4500	11515	6500 <sup>^</sup>	7000 <sup>^</sup>	7500 <sup>^</sup>
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	-	-

\*: New Activity

#: Project is going to complete by 2013-2014

\$. This research project will cover its major sampling in the preceding years.

^. Receipt of samples from stakeholders is variable/un-predictable

