



# **Results-Framework Document (RFD)**

**for**

## **ICAR Research Complex for NEH Region (2013-2014)**

Address: P.O. Umiam  
Ri-Bhoi-793103  
Meghalaya  
Website ID : <http://www.icarneh.ernet.in>

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

### **Vision**

Agricultural research of excellence to ensure food, nutrition and livelihood security in the North-eastern hill region.

### **Mission**

Enhancing agricultural productivity through development of cutting edge technology, efficient technology dissemination, entrepreneurship and human resource development.

### **Objectives**

- To improve production and productivity of hill agriculture through technological interventions
- Building awareness, technology transfer, and distribution of inputs, consultancy and human resource development.
- To serve as a regional repository of information in the field of agriculture and allied sectors through efficient knowledge management.

### **Functions**

1. Generation, evaluation and demonstration of technology for location specific farming systems and landuse practices in the changing face of agriculture.
2. Plan, coordinate, implement and monitor R&D programme for sustainable agricultural production, resource conservation and vertical expansion.
3. Development of process/technology in the field of agriculture, horticulture, forestry, animal husbandry and fisheries in changing climatic scenario.
4. Farm mechanization to suit hill agriculture, post harvest processing and value addition.
5. Bio-prospecting and protection of knowledge and bio-resources through IPR mechanism.
6. Agro- advisory services through modern information and communication technology.
7. Exploring and implementing secondary and specialty agriculture for entrepreneurship development.
8. Technology commercialization and popularization entrepreneurship development through PPP mode.
9. Teaching, student guiding, trainings for capacity building
10. Consultancy/transfer of technology
11. Publications and regional repository of information in the field of agriculture and allied sectors.
12. Linkages/collaboration with local, national and international organizations.

## 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	Fare	Poor	
							100%	90%	80%	70%	60%	
1	To improve production and productivity of hill agriculture through technological interventions	47	Integrated farming system and natural resource conservation in hill agriculture	<i>Jhum</i> land developed and restored through integrated farming systems including natural resource conservation technology	Area (ha)	20	200	150	100	50	0	
			Nutrient /water/pest/disease management	Technologies for nutrient/water/ pest/ disease management developed	Number	15	4	3	2	1	0	
			Developing new/superior varieties/breed/technology	New/ superior varieties/breed/technology developed	Number	12	4	3	2	1	0	
2	Building awareness, technology transfer, distribution of inputs, consultancy and human resource development	30	Production of breeder seeds/certified seeds/saplings/animals/chicks/fingerlings/farm tools and implements	Breeder/certified seeds produced	Tonnes	04	25	20	15	10	5	
				Quality planting materials produced	Number	04	250000	200000	100000	50000	25000	
				Piglets, chicks, kids, fingerlings etc produced	Number	04	200000	150000	100000	50000	25000	
				Improved farm tools and implements produced	Number	02	200	150	100	50	0	
				Capacity building of stakeholders/training	Farmers benefited from training/ capacity building of farmers/other stakeholders	Number	12	10000	8000	5000	3000	1000
					Frontline demonstrations/OFTs conducted	Number	04	40	30	20	10	5
3	To serve as a regional	12	Agro-advisory services	Meteorological advisory bulletin issued	Number	08	500	400	350	300	250	

	repository of information in the field of agriculture and allied sectors through efficient knowledge management		Agricultural and allied sectors databases	Online knowledge information repository in agriculture for Northeast (KIRAN) updated	Number	04	15	14	12	10	08
	Efficient Functioning of the RFD System	3	Timely submission of Draft RFD (2013-14) for approval	On-time submission	Date	2.00	May 15, 2013	May 16, 2013	May 17, 2013	May 20, 2013	May 21, 2013
			Timely submission of Results for RFD (2012-13)	On-time submission	Date	1.00	May 1 2013	May 2 2013	May 5 2013	May 6, 2013	May 7, 2013
	Administrative Reforms	4	Implement ISO 9001 as per the approved action plan	% Implementation	%	2.00	100	95	90	85	80
			Prepare an action plan for Innovation	On-time submission	Date	2.00	Jul 30, 2013	Aug. 10, 2013	Aug. 20, 2013	Aug, 30, 2013	Sept. 10, 2013
	Improving internal efficiency /responsiveness / service delivery of Ministry / Department	4	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	2.00	100	95	90	85	80
				Independent Audit of implementation of public grievance redressal system	%	2.00	100	95	90	85	80

### Section 3: Trend Values of the Success Indicators

Sl. No.	Objectives	Actions	Success Indicators	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
1.	To improve production and productivity of hill agriculture through technological interventions	Integrated farming system and natural resource conservation in hill agriculture	<i>Jhum</i> land developed and restored through integrated farming systems including natural resource conservation technology	Area (ha)	120	130	150	160	175
		Nutrient /water/pest/disease management	Technologies for nutrient/water/pest/disease management developed	No.	2	3	3	3	3
		Developing new/superior varieties/breed/technology	New/ superior varieties/breed/technology developed	No.	2	3	3	3	3
2.	Building awareness, technology transfer, and distribution of inputs, consultancy and human resource development in agriculture	Production of breeder seeds/certified seeds/saplings/animals/chicks/fingerlings/farm tools and implements	Breeder/certified seeds produced	Tonnes	8	10	20	10	12
			Quality planting materials produced	No.	180000	200000	200000	210000	225000
			Piglets, chicks, kids, fingerlings etc produced	No.	100000	125000	150000	150000	160000
			Improved farm tools and implements produced	No.	145	145	150	150	160
		Capacity building of stakeholders/ training	Farmers benefited from training/ capacity building of farmers/ other stakeholders	No.	8000	8500	8000	8500	8500
			Frontline demonstrations/OFTs conducted	No.	22	26	30	30	35
3.	To serve as a regional repository of information in the	Agro-advisory services	Meteorological advisory bulletin issued	No.	480	516	400	400	400
		Agricultural and allied	Online knowledge	No.	0	6	14	15	20

	field of agriculture and allied sectors through efficient knowledge management.	sectors databases	information repository in agriculture for Northeast (KIRAN) updated						
	Efficient Functioning of the RFD System	Timely submission of Draft RFD (2013-14) for approval	On-time submission	Date	-	-	May 16, 2013	-	-
		Timely submission of Results for RFD (2012-13)	On-time submission	Date	-	-	May 2 2013	-	-
	Administrative Reforms	Implement ISO 9001 as per the approved action plan	% Implementation	%	-	-	95	-	-
		Prepare an action plan for Innovation	On-time submission	Date	-	-	Aug. 10, 2013	-	-
	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	-	-

#### Section 4 : Acronyms

<b>S. No.</b>	<b>Acronym</b>	<b>Description</b>
1.	OFT	On Farm Trial
2.	KIRAN	Knowledge Repository for Agriculture in North East India
3.	NEC	North East Council
4.	NGOs	Non-Governmental Organizations
5.	AAU	Assam Agricultural University
6.	CAU	Central Agricultural University
7.	NHB	National Horticulture Board
8.	NABARD	National Bank for Agriculture and Rural Development
9.	R&D	Research and Development
10.	PPP	Public-private partnership
11.	IPR	Intellectual property rights

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

S. No.	Success indicator	Description	Definition	Measurement	General Comments
1	<i>Jhum</i> land developed and restored through integrated farming systems including natural resource conservation technology	<i>Jhum</i> cultivation is widely prevalent agricultural practice in Northeast India which poses greatest challenge for environment and forest in the region.	Efficient use of natural resources to improve production and productivity of hill agriculture can be achieved by improvement of the <i>jhum</i> (slash and burn agriculture) land through integrated farming systems including natural resource conservation technology.	Reduce in <i>Jhum</i> area in hectares	Improvement of <i>Jhum</i> cultivation for enhancement of agricultural productivity and sustainability of resources
2	Technologies for nutrient/water/pest/disease management developed	Nutrient/water/pest/disease are the key components in crop production. These four major factors possess various biotic and abiotics stresses for the growth of plants.	Developing suitable technology for improving efficiency of nutrient and water uptake by plant for enhanced crop yield. Pest and disease are major biotic stresses for crop production and developing eco-friendly technology will address problem of pest and disease.	Number of technology developed	-
3	New/superior varieties/breed/technology developed	Development of improved (abiotic and biotic stress tolerant, high yielding, nutritionally rich) varieties/breeds of crops, livestock, fishery and new technology etc helps in achieving self-sufficiency in food production in Northeast hill states.	Improved entries/ technology suitable for increasing agricultural productivity in Northeast region	Number of such varieties/technology identified	-



4	Breeder /certified seeds produced	Produce from nucleus and breeder seed is the starting point in seed chain of producing quality seeds for farmers	Breeder seed is the starting point in seed chain which is multiplied in to foundation / certified seed	Quantity produced (quintals)	Quantity may vary as per the demand by various agencies
5	Quality planting materials produced	In a simpler sense, planting material arise from vegetative propagation including cutting, vegetative apomixes, layering, division, budding, grafting and tissue culture is true to the type and ensures quality.	It is a process of vegetative means by which new individuals true to the type arise without production of seeds or spores.	Number of saplings/ plants (in lakhs)	
6	Piglets, chicks, kids, fingerlings etc produced	In Northeast India majority of the population are non-vegetarian and the region is deficient in production. Consequently the availability of quality piglets, chicks, kids, fingerlings etc. will boost animal husbandry and fisheries sector	Production of piglets, chicks, kids, fingerlings etc from various superior animals and fishes resources.	Number of piglets chicks, kids, fingerlings (in lakhs)	
7	Improved farm tools and implements produced	Production of improved farm tools and implements with the help of skilled manpower	Ergonomically farm tools and implements which reduce drudgery and time of operation	Number	-
8	Farmers benefited from training/ capacity building of farmers/ other stakeholders	The knowledge and skills of primary and secondary stakeholders shall be enhanced by organizing training conducted by various experts/resource persons	Increase awareness and understanding of various stakeholders	Number of programmes	Knowledge and skill enhancement of primary and secondary stakeholders.
9	Frontline demonstrations/OFTs conducted	Frontline and on farm trials demonstrations aimed for knowledge and skill enhancement	Frontline and on farm trials demonstrations of successful and superior technology	Number	

		of various stakeholders.			
10	Meteorological advisory bulletin issued	To provide short term advance information about weather in order to support crop production and mitigate abiotic and biotic stresses.	Crop advisory information through various meteorological inputs	Number of weather advisory issued	Weather data generation through in-house, regional and national grid.
11	Online knowledge information repository in agriculture for Northeast (KIRAN) updated	Creating and generating various agricultural and allied information through website: <a href="http://www.kiran.nic.in">www.kiran.nic.in</a> for various stakeholders	Web publication of agricultural and allied information in the Northeast India in order to enhance knowledge and productivity of agriculture	Number of updatings	Creating a common platform for agricultural information for effective and speedy dissemination of knowledge.

**Section 5: Specific performance requirements from other departments**

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 from this organization	What happens if your requirement is not met
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**Section 6: Outcome/impact of activities of organization/ ministry**

S. No.	Outcome/impact of organization/ RC's	Jointly responsible for influencing the outcome /impact with the following organization (s)/ departments/ ministry	Success Indicators	Unit	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
1	Reduced <i>Jhum</i> (shifting cultivation) area in Northeast states of India	Line departments of state governments , NEC, NGOs, Missionaries etc.	Increase in settled cultivation land in Northeast states of India	%	2	2	2	2	2
2	Enhanced agriculture production	AAU, CAU, Line departments of state governments, NEC,NHB, NEC,NABARD,NGOs etc.	Increase in agriculture productivity	%	2	2	2	2	2