

## **INSTITUTE PROJECTS**

(Total number of projects in HQ:- 66 )

### **PLANT BREEDING**

<b>Sl. No.</b>	<b>Name of the project</b>	<b>Year of start</b>	<b>Year of completion</b>	<b>Present status</b>
1.	Vegetative stage drought tolerance in rice	2009	2014	On going
2.	Abiotic stress tolerance in rice	2009	2014	On going
3.	Pulse improvement project	2009	2013	On going
4.	Oilseed improvement project	2009	2013	On going
5.	Maize improvement project	2009	2014	On going
6.	Quality evaluation of medicinal rice genotypes of Manipur and Meghalaya	2009	2012	On going
7.	Evaluation of antibacterial rice genotypes in the indigenous rice germplasm of North Eastern Hill Region of India	2009	2012	On going

### **AGRONOMY (HQ)**

<b>Sl. No.</b>	<b>Name of the project</b>	<b>Year of start</b>	<b>Year of completion</b>	<b>Present status</b>
1.	Cropping intensification in marshy land	2001	2010	Work in progress
2.	Development of bio-organics from the weed and tree species for organic agriculture and allied science.	2009	-	Work in progress
3.	Development of sustainable organic farming technology for NEH region	2009	2012	Work is in progress.

## ENTOMOLOGY (HQ)

Sl. No.	Name of the project	Year of start	Year of completion	Present status
1	Integrated management of major insect pests of rice	2007	2010	On going
2	Bio-rational management of major insect pests of maize	2007	2010	On going
3	Integrated management of major insect pests of pulses and oil seeds	2007	2010	On going
4	Bio-intensive management of major insect pests of vegetables	2007	2010	On going
5	Monitoring and management of major insect pests of fruit crops	2007	2010	On going
6	Studies on foraging behaviour, pollination efficacy of honeybees and improvement of management practices	2005	2008	Completed
7	Investigation of nematode diseases and their integrated management of vegetable crops in Meghalaya	2005	2008	Completed
8	Studies of insect pests of stored grains and storage structures in Meghalaya	2005	2008	Completed
9	Species composition and dynamics of decomposition of organic wastes by indigenous earthworms	2007	2010	On going

## HORTICULTURE (HQ)

Sl. No.	Project Title	Name of the PI	Year of Start	Year of completion	Present status
1	Standardization of agro techniques for yield optimization of citrus.	R.K.Patel	01.04.03	31.03.11	On-going
2	Collection, evaluation	R.K.Patel	01.04.03	31.05.09	RPF-III

	and improvement of Khasi Mandarin and lemon.				submitted
3	Domestication and improvement of potential underlized fruit crops.	R.K.Patel	01.02.06	30.09.12	On-going
4	Selection of capsicum/chilli varieties/hybrids suitable for Meghalaya with package of practices.	R.K.Yadav	01.04.00	31.03.11	The Project is transferred to Dr. A.K. Jha
5	Post harvest management and value addition of important horticultural crops of NEH region.	Bidyut C. .Deka	17-10-07	31.03.11	On going
6	Collection and evaluation of under exploited leafy vegetables of meghalaya	A.K. Jha	2009-10	2013	RPF-I submitted on 29.03.10
7	Standardization of process technology for value addition of Jack fruit'	Amit Nath	2009-10	2013	RPF-I submitted during November, 2009
8	Value addition of turmeric, zinger and chilli	Amit Nath	2009-10	2013	RPF-I submitted during November, 2009

## PLANT PATHOLOGY (HQ)

Sl.No.	Name of the Project	Year of start	Year of Completion	Present status
1	Development and evaluation of eco-friendly methods of disease management	July 2006	Dec. 2011	Continuing

2.	Biodiversity of Plant Pathogens in North East India	2007	2012	Continuing
3.	Characterization of <i>Elsinoe</i> spp. causing scab disease of citrus and its management through eco-friendly methods in NEH Region	Dec. 2007	Nov., 2010	Continuing

### AGRIL ENGINEERING (HQ)

Sl. No.	Name of the project	Year of start	Year of completion	Present status
1.	Efficient Utilization of Water Harvesting Structures through Hi-Tech Irrigation for High-Valued Crops	July 2003	March 2007	Completed
2.	Soil Erosion Modelling of Hilly Watersheds using Remote Sensing and GIS	June 2005	May 2008	Completed
3.	Development of soil erosion productivity impact model for north eastern hills region	April 1, 1998	March 31, 2007	Completed
4.	Evaluation of Selected Cover Management Techniques for Maintaining Soil Productivity in Sloping Lands of Meghalaya	June 2006	July 2010	Continuing
5.	Development of Iso-erodent Map and Rainfall Erosivity Model for North Eastern Region of India	June 2006	July 2010	Continuing
6.	Development of Power Tool Frame for Hill Agriculture.	October 2005	March 2010	Continuing
7.	Energy Evaluation of Locally Available Agricultural and Forest Residues for Producer Gas through Gasifier.	October 2005	March 2010	Seasonal availability of local agricultural waste material has been studied, testing for gasification continuing
8.	Evaluation of Puddlers in Laboratory and Field	April 2007	March 2010	Improved puddlers suitable for NEH Region

	conditions for Hill Agriculture			identified, field testing in current season continuing
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## ANIMAL NUTRITION (HQ)

S.N.	Name of the Project	Year of Start	Year of Completion	Present Status
1.	Development and transfer of technology on rice milling by-products based feeding system in swine.	April, 07	March, 11	ongoing
2.	Complete diets for commercial dairying in NEH region- a study on its economic aspects.	April, 07	March, 11	Ongoing
3.	Development of region specific probiotics for livestock and poultry.	Jan. 08	Dec. 11	Ongoing
4.	Fodder production under different land use system in rain fed condition of Meghalaya and Sikkim for sustainable ruminant production.	July, 07	June, 12	ongoing

## POULTRY SCIENCE (HQ)

Sl. No.	Name of the project	Year of start	Year of completion	Present status
1	Evaluation of certain herbs as feed additives for quality broiler chicken production	April' 2007	March' 2010	RPF-II submitted up to 2008-09 and RPF-II for the period of 2009-10 is under compilation. The project is also granted extension for another one year in the Disciplinary Committee Meeting.
2	Performance evaluation of other poultry species in Meghalaya	July' 2007	June' 2010	RPF-II submitted up to 2008-09 and RPF-II for the period of 2009-10 is under compilation. The project is also granted extension for another one year in the Disciplinary Committee Meeting.

## SOIL SCIENCE (HQ)

Sl. No.	Name of the project	Year of start	Year of completion	Present status
1.	Integrated effects of soil amendments and fertilizer on crop productivity and soil health	May, 2009	April, 2012	-First year experiment on maize and turmeric has been accomplished successfully. -Second year experiment has been started (sowing of three crops- <i>maize, turmeric &amp; ginger</i> has been completed)
2.	Phosphate use efficiency of different rice cultivars under rain fed up and low land conditions.	June, 2009	May, 2012	-First year experiment on lowland rice cultivar and phosphate use efficiency has been completed successfully. - Field has been prepared to start second year experiment involving both up and lowland rice cultivars.

## VETY. PARASITOLOGY (HQ)

Sl. No.	Name of the Project	Year of start	Year of completion	Present status
1.	Detection of haemoprotozoan infections in animals of North-Eastern Region	2009	2012	Collection of history regarding haemoprotozoan infections in different farms of this region are going on. Collection of blood samples for detection of haemoprotozoan infections in cattle of different farms and slaughter houses are going on.
2.	Comparative evaluation of anthelmintic efficacy against gastrointestinal parasites of pigs in Meghalaya	2009	2012	Questionary based survey and collection of Faecal samples from pigs maintained in organized and unorganized pig farms of Ri-Bhoi district of Meghalaya are going on. Faecal sample

				examination revealed the pigs were infected with Strongyle sp., <i>Eimeria</i> sp., <i>Strongyloides ransomi</i> , <i>Ascaris suum</i> , <i>Trichuris suis</i> and mixed infection.
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## AGROFORESTRY (HQ)

Sl. No.	Name of the Project	Year of start	Year of completion	Present Status
1	Development of self sustainable integrated farming system through crop livestock integration under rainfed conditions for productivity enhancement	July 2007	June 2010	continuing
2	To study the hedgerow intercropping	August 2007	July 2010	continuing
3	Evaluation of agroforestry systems under hill ecosystem	August 2007	July 2010	continuing
4	Plus tree selection of <i>Parkia roxburghii</i>	August 2007	July 2010	continuing
5	Collection and evaluation of <i>Mucuna</i> genetic resources for higher yield and L-DOPA content	August 2009	July 2012	continuing

## ANIMAL HEALTH (HQ)

Sl. No.	Name of the Project	Year of start	Year of completion	Present status
1.	Characterization of <i>Listeria monocytogenes</i> isolates from animals, humans, food and environmental origin	2009	2012	Continuing
2.	Epidemiology of zoonotic pathogens in different integrated livestock- fish farming systems	2009	2012	Continuing

## ECONOMIC & STATISTICS (HQ)

Sl. no.	Name of the project	Year of start	Year of completion	Present status
1	Market Opportunities and Scope of Diversification in Agricultural Sector of the North Eastern Region	2006	2010	Final stage
2	Socio-economic Dynamics of Changes in Jhum System in North Eastern Hills Region	2009	2012	Secondary information has been collected from West Garo Hills and Dhalan Dist. and pre testing of questioner is under progress

## ANIMAL PRODUCTION (HQ)

Sl. No	Name of the project	Name of the P.I	Present Status
1.	Studies on the productive and reproductive performance of Assam Hill Goat under agro climatic conditions of Umiam, Meghalaya	Dr. R. K. Bardoloi	On going
2.	Performance of three breed cross for pig productivity and carcass characteristics under subtropical hill ecosystem	Dr. R. K. Bardoloi	On going
3.	Integrated pig production for optimum use of on farm resources	Dr. R. K. Bardoloi	On going
4.	Augmentation of fertility in female pig	Dr. Suresh Kumar D. S	New project proposal
5.	Soil, plant and animal continuum in relation to mineral status and infertility in dairy cattle	Dr. M. H Khan	On going
6.	Studies on freezing of buck ( <i>Capra hircus</i> ) semen	Dr. M. H. Khan	New Project
7.	Relationship of estrogen receptor gene with performance traits in pigs	Dr. R. Basumatry	On going
8.	Nutritional management of broiler	Dr. P. K. Bharti	New Project



	rabbit utilizing on farm resources		
9.	Managerial strategies to reduce piglet mortality for optimum pig production	Dr. P.K. Bharti	New project

## **ARUNACHAL PRADESH CENTRE**

**(Total number of projects: 25)**

<b>Sl.No.</b>	<b>Name of the projects</b>	<b>Year of Start</b>	<b>Year of completion</b>	<b>Present status</b>
1	Evaluation of MPTs and to develop agroforestry based farming system	1997	Continue	Encouraging
2	Assessment of Technology on watershed approach in integrated farming system	2000	Continue	Encouraging
3	Collection, screening and improvement of jhum rice for increasing production and productivity of jhum cultivation	2010	2012	Started
4	Evaluation of different groups of Rice varieties in different land situations (Aromatic, Fine grains, Upland, Lowland varieties)	2010	2012	Started
5	Collection screening and improvement of jhum rice for increasing production and productivity of jhum cultivation	2009	2011	Started
6	Screening of collected rice germplasm/varieties against Rice Leaf Blast	2009	2011	Started
7	Evaluation of field pea varieties against location specific diseases at Basar condition	2009	2011	Started
8	Evaluation of lentil varieties against location	2009	2011	Started

	specific diseases at Basar condition			
9	Evaluation of toria varieties against location specific diseases at Basar condition	2009	2011	Started
10	Effect of cultural management practices under low input production system of lowland rice	2007	2010	Encouraging
11	Evaluation of organic sources of nutrients supplied for rice-pea cropping system in wetland condition	2007	2010	Encouraging
12	Studies on suitable cropping sequence in Arunachal Pradesh	2008	2010	Encouraging
13	Effect of varieties and date of sowing of mungbean in AP	2010	2012	Started
14	Standardization of agro-techniques of horticultural crops	2007	2010	Encouraging
15	Post harvest management and value addition of bamboo shoots	2010	2012	Started
16	Studies on effect of boron and molybdenum	2008	2010	Encouraging
17	Evaluation of tomato varieties under polyhouse	2008	2010	Encouraging
18	Off season production of vegetables under polyhouse	2007-08	2010-11	Encouraging
19	Developing different processed & value added products from Taktir	2008-09	2011-12	Started
20	Standardization of agro-techniques for different field crops under mid hills of AP	2010	2012	Started
21	Collection, evaluation of different tuber crops under mid hills of AP	2009	2011	Encouraging
22	Impact of different weed	2009-10	2011-12	Started

	control measures on weed dynamics and performance of black gram under mid hills of AP			
23	Germplasm collection, maintenance and standardization of agro-techniques of Toko Palm	2010	2012	To be started
24	Evaluation of bamboo germplasms	1997	Continue	Encouraging
25	Evaluation of growth performance and weed dynamics of various intercrops with maize	2009-10	2012	Started

## MANIPUR CENTRE

(Total number of projects: 2)

Sl. No.	Name of the projects	Year of start	Year of completion	Present status
1.	Wide hybridization for transferring the insect resistance	2007	2012	P <sub>1</sub> , P <sub>2</sub> , F <sub>1</sub> , F <sub>2</sub> and BC <sub>1</sub> hybrids of pigeon pea were raised in kharif 2009 for screening to insect resistance.
2.	Rice improvement through participatory plant breeding approach	2006	2011	One variety of rice i.e. RCM 21 (IET 20193) has been identified and moved in CVRC for notification, while Six entries namely, RCM-26, RCM-28, RCM-M-58, RCM-11-1, RCM-27 and RCM-29 have been sent for nomination in AICRIP trial under low land condition.

**TRIPURA CENTRE**  
(Total number of projects: 7)

SL. No.	Name of the project	Year of start	Year of completion	Present status
A.	<u>Soil Science</u>			
1.	Integrated plant nutrition systems for sustainable production and soil health.	2004	2010	Ongoing
2.	Fertilizer requirements for different yield targets in crops based on soil test crop response values in Tripura.	2004	2010	Ongoing
B.	<u>Horticulture</u>			
1.	Improvement of productivity and fruit quality of Litchi, Papaya and Banana.	2004	2009	There is no scientist in Horticulture Division.
C.	<u>Plant Pathology</u>			
1.	Integrated management of sheath blight disease of rice in Tripura	2008	2011	Ongoing
2.	Management of leaf curl disease of tomato under field condition	2009	2012	Ongoing
D.	<u>Animal Reproduction</u>			
1.	Augmentation of productive and reproductive efficiency in Balck Bengal goat through managerial and hormonal interventions	2007	2012	Ongoing
E.	<u>Poultry Science</u>	2007	2011	Ongoing
1.	Genetic improvement of growth & production traits of japanese quail in agroclimatic conditions of Tripura”			

## MIZORAM CENTRE

(Total number of projects: 9)

Sl. No.	Name of Project	Year of start	Year of completion	Present status
1.	Varietal evaluation of oilseeds and pulses and development of package practices under agro climatic conditions of Mizoram (PI: K.A. Pathak, Co-PI: T. Boopathi)	2003	2010	Experiments in progress
2.	Standardization of package of practices for major vegetables and spices of Mizoram (PI: K.A. Pathak, Co-PI: B.K. Singh and T. Boopathi)	2003	2010	Experiments in progress
3.	Assessment of technology on watershed based integrated farming systems in North Eastern Hills Region (PI: K.A. Pathak, Co-PI: T. Boopathi and B.K. Singh)	2003	2010	Experiments in progress
4.	Monitoring and management of pest complex of cereals, pulses and oilseeds (PI: T. Boopathi, Co-PI: K.A. Pathak)	2007	2010	Experiments in progress
5.	Monitoring and management of pest complex of fruits, vegetable and spices (PI: K.A. Pathak, Co-PI: T. Boopathi)	2007	2010	Experiments in progress
6.	Genotypic variation for economic traits among germplasm of vegetable French bean ( <i>Phaseolus vulgaris</i> L.) in Mizoram (PI: B.K. Singh, Co-PI: T. Boopathi, K.A. Pathak and B.C. Deka)	2009	2012	Experiments in progress
7.	Evaluation of germplasm and standardization of agro-techniques of chow-chow [ <i>Sechium edule</i> (Jacq) Swartz] in NEH Region (PI: B.K. Singh, Co-PI: S.V. Ngachan, T. Boopathi, K.A. Pathak, B.C. Deka, Kundan Kishore and N.P. Singh)	2009	2012	Experiments in progress
8.	Studies on bovine bacterial mastitis in Mizoram (PI: Lalhruaipuii, Co-PI: K.A. Pathak, I. Shakuntala)	2009	2012	Experiments in progress
9.	Studies on piglet diarrhea of bacterial origin in Mizoram (PI: Lalhruaipuii, Co-PI: K.A. Pathak, I. Shakuntala)	2009	2012	Experiments in progress

## SIKKIM CENTRE

(Total number of projects: 11)

Sl.No.	Name of the Project	Year of Start	Year of completion	Present Statuse
1.	Identification and standardization of organic sources of nutrition of maize, rice, soybean, mustard and Buckwheat	2004	2010	Ongoing
2.	Studies on polyembryony in citrus and identification of nuceller seedling morphonatricall and by molecular marker	2009	2012	Ongoing
3.	Development of package of practices for strawberry production in Sikkim	2005	2010	Ongoing
4.	Characterization and development of organic package of practices for indigenous chilly of Sikkim	2007	2012	Ongoing
5.	Eco friendly management of insect and pests in organic rice cultivation	2007	2010	Ongoing
6.	Bio-rational management of insect pests of major crops of Sikkim	2008	2011	Ongoing
7.	Biorational management of insect and pests in Sikkim mandarin	2008	2011	Ongoing
8.	Molecular Characterization of <i>Salmonella</i> isolates from food and animal origin	2009	2012	Ongoing
9.	Genetic improvement of Sikkim local Goats for letter size	2007	2012	Ongoing
10.	Reproductive disorder of bovine in Sikkim	2007	2010	Ongoing
11.	Evaluation of feeds and foddors of Sikkim in term of their anti-methanogenic activities.	2007	2009	Ongoing

## NAGALAND CENTRE

(Total number of projects: 4)

<b>Sl. No.</b>	<b>Name of the Project</b>	<b>Year of start</b>	<b>Year of completion</b>	<b>Present status</b>
1.	Studies on microbial quality of <i>Axone</i>	2009	2012	ongoing
2.	Evapotranspiration modeling for water balance study	2009	2011	ongoing
3.	Modeling the physical processes of soil temperature profile using meteorological variables	2009	2011	ongoing
4.	Characterization of tuber crops	2009	2012	ongoing