KRISHI VIGYAN KENDRA
East Siang, Arunachal Pradesh
Central Agricultural University, Imphal
(Establishment Year: 2006)

Annual Progress Report
April 2011 – March 2012

Staff Position (As on 31st March , 2012)

Sl. No.	Name	Designation	Discipline
1.	Dr. Mahesh Pathak	Programme Coordinator	Plant Protection
2.	Ms. Th. Eloni Vida	Subject Matter Specialist	Home Science
3.	Mr. Shah M. Hussain	Subject Matter Specialist	Fisheries
4.	Mr. Toge Riba	Subject Matter Specialist	Plant Protection
5.	Mr. Jintu Rajkhowa	Programme Assistant	Computer Application
6.	Mrs. Nabum Yadi	Programme Assistant	Plant Protection
7.	Mr. Naloh Darang	Supporting Staff	-
8.	Mr. Tatok Takuk	Supporting Staff	-

On Farm Trials (Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achievement	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Plant Protection	Ginger	01	-	05	03	60	Availability of biocontrol agent
	Rice	01	-	05	05	100	-
	Citrus	01	-	01	01	100	-
	Brinjal	01	-	05	03	60	Availability of Lucinoid Lure
Fisheries	Semi intensive culture of carps	01	-	01	01	100	-
Total		05		17	13	76.47	-

On Farm Trial: Plant Protection

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/ refinement	Prdn. per unit crop/ enterprise	Net return (Rs./ Ha)	B:C Ratio
Ginger	Rhizome rot disease	Rhizome treatment with Bio-organic (GF-1) @ 25 ml/liter water and drenching at 45, 90 DAS	Biological control of Ginger Rhizome Rot disease using Bio-organic (GF-1)	03	Number of tiller infected Yield/ha	9.5 % 220 q	180000	4.6
					Farmer Practice	Farmer Practice		
					Number of tiller infected Yield/ha	32% 150q	150000	4.0

On Farm Trial: Ginger Rhizome Rot

On Farm Trial: Plant Protection

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/ refinement	Prdn. per unit crop/enterprise	Net return (Rs/ Ha)	B:C Ratio
Rice	Rice Case worm	Management of paddy case worm:- 1. Alternate wetting & drying of rice fields 2. Dislodging and dragging kerosinised rope over crop 3. Spray of Endosulfan @ 0.05%	Management of Rice case worm	05	Number of leaf damaged/hill Percent reduction in incidence	7.4 % 69.16%	29820	1.8
					Farmer Practice	Farmer Practice		
					Number of leaf damaged/ hill	24 %	27480	1.74

On Farm Trial: Rice Caseworm Management

On Farm Trial: Plant Protection

Crop / Enterprise	Problem diagnosed	Technology / Social Concept	Title of OFT	No. of trials	Parameters of assessment / refinement	Prdn. per unit crop/enterprise	Net return (Rs/ha)	B:C Ratio
Citrus	Decline in fruit quality and quantity	Rejuvenation of 30 years old citrus orchard by Detoping at 1,2,3,4 m height, fertilization, plant protection on calendar basis	Rejuvena-tion of declined orchard	01	Percent tree mortality Yield/tree Size of fruit	20 old citrus tree are under trial 2 % mortality (In plants infested with trunk borer) Flowering avoided in 1st year Plants flowering in Feb. - March 2012	-	-
					Farmer Practice	Farmer Practice		
					No management followed	No management followed		

On Farm Trial: Rejuvenation of Declined Citrus Orchard

On Farm Trial: Plant Protection

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/ refinement	Prodn. per unit crop/ enterprise	Net return (Rs/ Ha)	B:C Ratio
Brinjal	Brinjal Fruit and Shoot Borer	Management of brinjal fruit and shoot borer employing Lucinoid trap @ 1 trap/ 10 m distance; Neem based pesticides @ 5.0 ml/l water	IPM module for management of brinjal fruit and shoot borer	03	Pest incidence : Moth trapped/ trap/week: Yield (q/ha):	6.8% 61 112	62000	2.24
					Farmer Practice	Farmer Practice		
					Pest incidence : Yield (q/ha):	26% 87	37000	1.74

On Farm Trial: Brinjal Fruit & Shoot Borer Management

On Farm Trial: Fisheries

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/ refinement	Prdn. per unit crop/ enterprise	Net return (Rs/Ha)	B:C Ratio
Aquaculture	Low fish growth and non availability of quality fish feed in the District	Use of Susma as a fish feed with Azolla culture as a fish food organism. Susma is a balanced diet formulated and manufactured by FRC, AAU	Feeding carps with balance diet	03	Feed consumed (300 kg) Av. Body Wt. at sampling (90 gm) Feed conversion Ratio (1: 2.5)	Rate of Susma Rs. 18/kg Cost of Feed Rs. 45/ kg fish Total cost of Feed Rs. 5,400	Rs. 72,000	2.3
					Farmer Practice	Farmer Practice		
					No Manufactured fish feed available	Not yet practiced by farmers	-	-

On Farm Trial: Feeding carps with balance diet

Stocking of fish fingerlings

Feeding of Sushma by tray feeding method

A view of the trial unit

Providing Live saving irrigation to Banana plants

FLDs (Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept Demonstrated	No. of demonstrations		% of achievement	Reasons for short fall if any
			Target (ha)	Achievement (ha)		
Plant Protection	Maize	DKC 9810	05	02	40	Insufficient seed material
Plant Protection	Rice	Var. CAU-R1	10	05	50	In sufficient seed material
Plant Protection	Rice	IPM	05	05	100	-
Plant Protection	Sesame	Var. AST-1	05	01	20	In sufficient seed material

FLDs (Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept Demonstrated	No. of demonstrations		% of achievement	Reasons for short fall if any
			Target (ha)	Achievement (ha)		
Plant Protection	Cabbage	Intercropping of Mustard as trap crop, IPM	05	01	20	Timely availability of inputs and irrigation facility
Plant Protection	Toria	Var. TS-46	05	05	100	-

FLDs (Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept Demonstrated	No. of demonstrations		% of achievement	Reasons for short fall if any
			Target (ha)	Achievement (ha)		
Fisheries	Fish	Composite fish farming system	01	3.2	300	-
Fisheries	Rice-Fish	Rice cum fish culture	01	2.0	200	-
Home Science	Kharif and Rabi Vegetables	Promotion of proper intake of balanced diet through Kitchen Gardening	03 No.	03 No.	100	-
Home Science	Tapioca	Preparation of Chips and Flour	05 No.	05 No.	100	-

FLDs (Achievements): Plant Protection

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs./ha)	Avg. Gross Return (Rs./ha)	Avg. Net Return (Rs./ha)	B:C Ratio
		H	L	A	(q/ha)	%				
Maize	DKC 9810	79.5	75.1	77.3	70	10.42	20000	77300	57300	3.86

FLD on Maize

FLDs (Achievements): Plant Protection

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs./ha)	Avg. Gross Return (Rs./ha)	Avg. Net Return (Rs./ha)	B:C Ratio
		H	L	A	(q/ha)	%				
Rice	CAU-R1	67.5	65.75	66.62	64.28 (Var. Itanagar)	3.64	36800	66620	29820	1.81

FLD on Rice Var. CAU R-1

FLDs (Achievements): Plant Protection

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs./ha)	Avg. Gross Return (Rs./ha)	Avg. Net Return (Rs./ha)	B:C Ratio
		H	L	A	(q/ha)	%				
Rice	IPM	66.3	65.8	66.05 SB-9.6% LF-15.3% CW-7.4% Blast-10% FS-4%	64.28 (Var. Itanagar) SB-18% LF-27.5% CW-24% Blast-12% FS-9%	2.75	36800	66050	29250	1.79

FLD on Integrated Pest Management in Rice

FLDs (Achievements): Plant Protection

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs./ha)	Avg. Gross Return (Rs./ha)	Avg. Net Return (Rs./ha)	B:C Ratio
		H	L	A	(q/ha)	%				
Sesame	Var. AST-1	4.1	3.2	3.65	3.45	5.79	10000	21900	11900	2.19

FLD on Sesame Var. AST-1

FLDs (Achievements): Plant Protection

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs./ha)	Avg. Gross Return (Rs./ha)	Avg. Net Return (Rs./ha)	B:C Ratio
		H	L	A	(q/ha)	%				
Cabbage	Intercropping of Mustard as trap crop	95	80	87.0	72.10	20.66	28000	130500	102500	4.6

FLD on IPM in Cabbage using Mustard as trap crop

FLDs (Achievements): Plant Protection

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs./ha)	Avg. Gross Return (Rs./ha)	Avg. Net Return (Rs./ha)	B:C Ratio
		H	L	A	(q/ha)	%				
Toria	Var. TS-46	7.7	6.8	7.25	6.32	14.71	15000	48500	33500	3.23

FLD on Toria Var. TS-46

FLDs (Achievements): Fisheries

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/Ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs/ Ha)	Avg. Gross Return (Rs/ Ha)	Avg. Net Return (Rs/ Ha)	B:C Ratio
		H	L	A	(q/ha)	%				
Semi Intensive Fish Farming System	Composite fish farming system {Six species of fish culture in ponds (2 Rohu : 2 Catla : 1.5 Mrigal : 2 Silver Carp: 1 Grass Carp : 1.5 Common Carp)}	22.0	17.0	19.5	9.0	116.66	122000	292500	170500	2.4

FLD on Composite fish farming system

Collection of Fish Fingerlings at Vijoypur village

Stocking of Fish Fingerlings at Mangnang village

Application of Lime at Rayang village

Application of Fish Feed at Rayang village

FLDs (Achievements): Fisheries

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/Ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs/ Ha)	Avg. Gross Return (Rs/ Ha)	Avg. Net Return (Rs/ Ha)	B:C Ratio
		H	L	A	(q/ha)	%				
Integrated Farming System	Rice cum fish culture Three species of IMC (Rohu, Catla and Mrigal) and two species exotic carps (Silver carp and Common carp)	56.15	47.92	52.16	43.3	20.46	40800	89182	48382	2.19

FLD on Rice-Fish farming system

Stocking of Fish Fingerling at Ngorlung village

Stocking of Fish Fingerling at Mirem village

Seed stocking at Ngorlung village

Harvested Fish at Ngorlung village

FLD on Rice-Fish farming at Mirem village

FLD: Home Science

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/Ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs/Ha)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		H	L	A	(q/Ha)	%				
Kharif and *Rabi* Vegetables	Promotion of proper intake of balanced diet through Kitchen Gardening	100.0	80.0	90.5	78.0	16.02	21000	90500	69500	4.30

Ongoing FLD: Home Science

Crop / Enterprise	Technology demonstrated	Demonstration Yield (q/Ha)			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs/Ha)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		H	L	A	(q/Ha)	%				
Tapioca	Preparation of chips and flour	Rs. 85/kg	Rs. 75/kg	Rs. 80/kg	Rs. 10/kg (Raw)	Rs. 30/kg	-	-	Rs. 30/kg	1.6

Slicing of Tapioca

Sun drying after blanching

Sun drying of slices for flour preparation

Direct frying of slices for chips

Finished Product

Product packed with proper labelling

Training Programmes (Farmers)

Discipline	No. of courses			Farmers (Nos.)				Target Beneficiary (Nos.)	% achievement
	T	A	% of A	On	Off	Spon.	Total		
Plant Protection	10	11	110	-	91	211	302	300	100.66
Fisheries	10	09	90	-	75	116	191	300	63.66
Home Science	08	09	112.5	44	96	159	299	240	124.58
Total	28	29	103.57	44	262	486	792	840	94.28

Training Programmes: Plant Protection

Nursery raising techniques training at Runne village

IPM in Rice training at Ngopok village

Citrus fruit drop management training at Sido village

Citrus fruit drop management training at Rina village

Training Programmes (Rural Youth)

Discipline	No. of courses			Rural Youth (Nos.)					Target Beneficiary (Nos.)	% achievement
	T	A	% of A	On	Off	Spon.	Voc.	Total		
Plant Protection	02	02	100	-	46	-	-	46	60	76.66
Home Science	06	03	50	82	-	-	-	82	180	45.55
Fishery	04	04	100	67	25	-	-	92	120	76.66
Total	12	09	75	149	71	-	-	220	360	61.11

Training Programmes: Fisheries

Composite Fish Farming training at Rayang village

Integrated farming system training at Mangnang village

Integrated Fish Farming training at Seram village

Pond preparation & management training at Ngorlung village

Training Programmes (Extension Personnel)

Discipline	No. of courses			Extension Personnel Benefited (Nos.)				Target Beneficiary (Nos.)	% achievement
	T	A	% of A	On	Off	Spon.	Voc. Total		
Agro Forestry	01	01	100	-	-	25	-	25	100
Total	**01**	**01**	**100**	**-**	**-**	**25**	**-**	**25**	**100**

Training Programmes: Home Science

Value addition of Lime & Lemon

Income generation activity through flower making

Preparation of Value added products from Pomegranate

Preparation of Value added products from Mango

Extension Activities

Extension Activity	Courses			Beneficiaries		
	Proposed/ Target in 2011-12	Achievement (Nos.)	% achievement	Proposed/ target (Nos.)	Achievement (Nos.)	% achievement
Field Day	04	01	25	200	10	5.0
Kisan Mela	02	03	150	300	4100	1366.66
Kisan Gosthi	04	01	25	200	500	250
Exhibition	02	01	50	300	300	100
Film Show	10	03	30	300	90	30
Method Demonstration	06	20	333.33	200	486	243
Lectures delivered as resource persons	04	13	325	120	295	245.83
News paper coverage	06	08	133.33	-	Mass	-
Extension Literature	10	08	80.00	-	2820	-

Extension Activities

Extension Activity	Courses			Beneficiaries		
	Proposed/ Target in 2011-12	Achievement (Nos.)	% achievement	Proposed/ target (Nos.)	Achievement (Nos.)	% achievement
Scientific visit to farmers field	60	55	91.66	200	120	60
Farmers visit to KVK	100	47	47	200	300	150
Diagnostic visits	60	80	133.33	200	230	115
Exposure visits	01	06	600	30	185	616.66
Farm Science Club Conveners meet	02	01	50	50	27	54
Popular articles	03	08	266.66	Mass	-	-
Advisory Services	01	01	100	15	15	100
Arunachal Citrus show	01	01	100	250	500	200
Total	276	257	93.11	2565	9978	389.00

Other Extension Activities at a Glance

CAU Agri Fair at Imphal, Manipur

Dignitaries visit to Exhibition stall

Awareness cum Orientation Programme of Farmers Club East Siang

Other Extension Activities at a Glance

Fisheries advisory services at Sille village

Participating training organised by DFDO at Nari village

ATMA sponsored FLD training on Fish farming at Ruksin village

Farmers Orientation on Rain water harvesting system

Other Extension Activities at a Glance

Breeding trial at Govt. Fish Farm Pasighat

Farmers Club visit to Floriculture unit, CHF Pasighat

Participation in AP State level review meeting on Fisheries

ATMA East Siang exposure visit to KVK East Siang

Other Extension Activities at a Glance

Participation in AAU Agri Fair 2012 at Guwahati

Arunachal Citrus Show 2012 at East Siang

Farmers Exposure visit to CAU Agri Fair 2012 at Agartala

Participation in CAU Agri Fair 2012 at Agartala

Other Extension Activities at a Glance

Capacity building training on Agroforestry 2012

Hon'ble VC CAU visit to KVK Demonstration unit

Farmers Exposure visit to Bangalore 2012

Farmers Exposure visit to KVK East Siang

Seed Materials

Item	Crop	Variety	Proposed quantity/ Target (q) (11-12)	Quantity produced (q)	% achieve ment	Value (Rs.)	Qty Supplied/ Provided to (No. of farmers)
Cereals	Rice	CAU R-1	1.0	3.0	300	6000	40
	Maize	DKC 9081	1.0	2.0	200	2000	20
Oilseeds	Toria	TS-46	0.1	0.20	200	1200	10
Pulses	Pea	Swarna Mukti	1.0	0.10	10	800	10
Vegetables	Okra	Arka Anamika	0.1	0.05	50	500	10
	Pumpkin	NDPKH-1	0.02	0.01	50	1000	-
Total	-	-	3.22	5.36	166.45	11500	90

Planting Materials

Item	Crop	Variety	Proposed quantity/ Target (q) (11-12)	Quantity produced (q)	% achieve ment	Value (Rs.)	Qty Supplied/ Provided to (No. of farmers)
Fruits	-	-		-	-	-	-
Spices	Turmeric	Megha Turmeric-1	50.0	5.0	10	4000	10
Forest Species	-	-	-	-	-	-	-
Vegetables	Potato	Kufri Khyati	2.0	-	-	-	-
Plantation Crops	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-
Total	-	-	52.0	5.0	10	4000	10

Bio-products

Item	Product Name	Species	Proposed quantity (11-12)		Quantity produced		% achievement	Value (Rs.)	Qty supplied and No. of farmers	
			No.	Kg.	No.	Kg.			No.	Kg.
Bio-agents	-	-	-	-	-	-	-	-	-	-
Bio-fertilizers	Dhaincha	*Sesbenia* sp.	-	50	-	50	100	2500	05	-
Bio-pesticides	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	50	-	50	100	2500	05	-

Instructional Farm Activities at a Glance

Vegetables grown in Crop Cafeteria at KVK in Instructional Farm

Instructional Farm Activities at a Glance

Turmeric intercropped with Som

High Density plantation of pineapple Var. Kew

Integrated Farming system model

Introduction of Azolla

Instructional Farm Activities at a Glance

QRT Team Visit To KVK East Siang (04.06.2011)

Thank You (Airudo)