

PROGRESS REPORT(PERIOD : April, 2010 TO MARCH, 2011)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra – Sylvan Hengbung Village, BPO Hengbung, P.O. Kangpokpi – 795129, Senapati District, Manipur	-	-	sylvankvk@rediffmail.com

1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Foundation for Environment and Economic Development Services (FEEDS), Hengbung Village, BPO-Kangpokpi, Pin – 795129, Senapati District, Manipur	+ 91 9436021458		feedsmanipur@yahoo.com

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
David Kamei, PC(i/c)		+ 91 9436031400	sylvankvk@rediffmail.com

1.4. Year of sanction: 2002

1.5. Staff Position (as on 31st March, 2010)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator								
2	Subject Matter Specialist	Nongmaithem Jyotsna	Subject Matter Specialist	Agronomy	8000-275-13500/-	9650/-	29-03-03	Permanent	OBC
3	Subject Matter Specialist	Khangembam Nodiyachand Singh	Subject Matter Specialist	Horticulture	8000-275-13500/-	9650/-	29-03-03	Permanent	OBC
4	Subject Matter Specialist	David Kamei	Subject Matter Specialist	Plant Pathology	8000-275-13500/-	9650/-	29-03-03	Permanent	ST
5	Subject Matter Specialist	Dr. N. Muhindro Singh	Subject Matter Specialist	Vety & A.H.	8000-275-13500/-	9650/-	29-03-03	Permanent	Gen
6	Subject Matter Specialist	Deepak Kumar	Subject Matter Specialist	Extension	8000-275-13500/-	9100/-	3-2-05	Permanent	OBC
7	Subject Matter Specialist	Athokpam Haribhushan	Subject Matter Specialist	Soil Science	8000-275-13500/-	8275/-	17-09-07	Permanent	OBC

8	Programme Assistant	Kangjam Homen Singh	Programme Assistant (Farm Manager)	Farm Manager	5500-175-9000/-	6550/-	29-03-03	Permanent	Gen
9	Computer Programmer	Nemnu Hangshing	Programme Assistant (Home Science)	Home Science	5500-175-9000/-	6200/-	1-2-05	Permanent	ST
10	Farm Manager	Athokpam Brojendro Singh	Programme Assistant (Agro-forestry)	Agro-Forestry	5500-175-9000/-	5850/-	28-10-06	Permanent	Gen
11	Accountant / Superintendent	Kshetrimayum Ranjit Singh	Superintendent-cum- Accountant		5500-175-9000/-	6550/-	29-03-03	Permanent	OBC
12	Stenographer	Mutum Ronel Singh	Stenographer-cum-computer operator		4000-100-6000/-	4600/-	21-02-03	Permanent	Gen
13	Driver	Paokhanlam Kipgen	Driver		3050-75-3950-80-4590/-	3500/-	7-12-02	Permanent	ST
14	Driver	Pheiroijam Tomba Singh	Driver		3050-75-3950-80-4590/-	3425/-	17-12-02	Permanent	OBC
15	Supporting staff	Chungkholam Chongloi	Supporting staff		2550-55-2660-60-3200/-	2900/-	17-12-02	Permanent	ST
16	Supporting staff	Kamminlal Kipgen	Supporting staff		2550-55-2660-60-3200/-	2900/-	01-04-03	Permanent	ST

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	04
2.	Under Demonstration Units	03
3.	Under Crops	10
4.	Orchard/Agro-forestry	26
5.	Others (specify)	07
	Total	50

1.7. Infrastructural Development:

1. Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	31-3-2006	550	96,20,000.00			completed
2.	Retaining Wall	ICAR	31-3-2006		3,35,000.00			-do-
2.	Farmers Hostel	- do -	31-3-2007	305	56,66,100.00			-do-
3.	Staff Quarters (6)	-	-	-	-			-
4.	Demonstration Units (2)	ICAR	31-3-2007	160	20,27,000.00			-do-
5	Fencing	- do -	31-3-2007	1000 Rm.	4,40,000.00			-do-
6	Rain Water harvesting system/structure	- do -	31-3-2007	-	9,39,000.00			-do-
7.	Automatic Weather Station	DST, Gol						-do-
8.	Threshing floor	-						-
9.	Farm Godown	-	-	-	-			-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero Jeep	2005	5,00,000.00		Running
Motor Cycle	2005	50,000.00		Running

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Tractor with accessories	2004	5,50,000.00	Running
LCD Project	2006	57,560.00	- do -
TV set with DVD	2006	20,000.00	- do -
Xerox	2010	1,00,000.00	-do-
Digital Camera	2010	20,000.00	-do-

1.8. A). Details SAC meeting* conducted in the year

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	10/9/2010	1. Y. Ibochou Singh, SCO(Hort. Dept) 2. L. Ingobi Singh, SMS, ICAR, Imphal 3. Prof. M. Premjit Singh, Director, DEE, CAU 4. Haokholet Kipgen, Presient, FEEDS 5. K. Shanti, Women Representative 6. L. Thangholun Kuki, DSWO, Senapati 7. H. Rupachandra Singh, MCS, ADC, Kangpokpi 8. SA Kairambou, Farmer representative 9. Dr. Eshou, Vety Officer 10. S. Kaiso Mao, District Sericulture Officer 11. Tainamei, Farm representative 12. S. Hangshing, Farm representative 13. Dr. N. Muhindro Singh, PC(i/c)	-Promotion of potato propagation by TPS & sprout - Popularization of liming under FLD programmes - OFT to be conducted for assessing best sowing time of pulses & oilseeds. - to conduct more no. of training programme on IPM & INM.	Included in Action Plan, 2010-11
2	22/3/11	1. N.B. Peter, Farmers Representative 2. Dr. Eshou, Vety Officer 3. H. Ibohal Singh, GM, DIC 4. S.A. Keiramba, Farmers Representative 5. S. Kaiso Mao, District Sericulture Officer 6. M. Gogendro, District Agriculture Officer, 7. Dr. A.K. Singh, Sr. Scientist, ZPD 8. S. Hangshing, Farmers Representative 9. K. Shanti, Farm Women Representative 10. T. Solomon, Progress Farmer 11. R. Tekhol, SDSMS(DAO) 12. Haokholet Kipgen, President FEEDS 13. Ch. S. Loli, Dist. Fishery Officer 14. Dr. N. Muhindro Singh, PC(i/c) 15. L. Nilkumar, Horticulture Deve. Officer 16. Th. Joykumar Singh, EO, (DAO)	- To conduct three nos. of vocational training programme during the year, 2011-12 - to demonstrated atleast two nos. of technologies under FLD by each SMS.	Included in Action Plan, 2011-12

2. DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1.	Agriculture (monoculture)
2	Agriculture (Mixed)
3	Livestock + Agriculture
4	Agro-forestry
5	Agri + Horti + Livestock

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1.	Temperate Sub-alpine Zone	The agro-climate of the region is characterized by warm summer and cool winter. The major soil formation in the area include shallow to very deep, loamy, lateritic, red and yellow soils.
2.	Mild Tropical Hill Zone	

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Clay red loamy soil	These are red to yellowish in colour which is the result of coating of ferric oxides on soil ped surfaces. It is red when ferric oxide occurs as haematite or anhydrous FeO and yellow when it occurs in the hydrated form (called limonete). They are in general neutral to acidic in nature depending upon the content of iron oxides.	
2.	Laterite Soil	These soils lose bases (Ca, Mg, Na, K) and silica due to pronounced leaching with relative accumulation of sesquioxides and the soils are rendered acidic with silica sesquioxides ratio of <2	

2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Rice	25200	536900	21.30
2.	Maize	1210	32100	26.53

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
April, 2010	146.75	34.32	10.66	69.26	22.46
May, 2010	179.50	33.44	12.96	88.46	23.37
June, 2010	235.25	34.11	12.42	89.35	35.08
July, 2010	101.00	30.21	10.68	81.26	23.59
August, 2010	86.00	29.32	13.57	64.65	18.43
September, 2010	127.75				
October, 2010	87.50				
November, 2010	2.25				
December, 2010	6.00				
January, 2011	-				
February, 2011	-				
March, 2011	16.75				

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	13107		
<i>Indigenous</i>	60052		
Buffalo	25922		
Sheep			
<i>Crossbred</i>			
<i>Indigenous</i>	3717		
Goats	12882		
Pigs			
<i>Crossbred</i>	59174		
<i>Indigenous</i>	78601		
Rabbits			
Poultry			
Hens	164286		
<i>Desi</i>	62905		

<i>Improved</i>	76431		
Ducks	119932		
Turkey and others	162		
Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

2.6 Details of Operational area / Villages (2009-10)

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.		Kangpokpi T.D. Block	Changoubung South	Rice, maize, Calocasia, Potato, piggery, Tree bean.	Mono cropping, Diseases & pest of crop & livestock, low yield	Crop diversification
2		- do -	Phoibung	Rice, maize, Potato, piggery, Tree bean	Scattered farm land, low yield of local cultivars	Integrated farming & introduction of improved variety of crops
3		- do -	Mayangkhang	Rice, Maize, bean, banana, Duckery, piggery.	Low fertility of soil, diseases & pest, non availability of formulated feed	Soil & water conservation, production of locally available feed crop
4		- do -	Mayangkhang Khunou	- do -	- do -	- do -
5		- do -	Bongmol	Rice, maize, yam/Tapioca, banana, piggery, dairy & winter vegetables	Mono cropping, diseases & pest problem, low yield, moisture stress,	Crop diversification & Integrated farming
6		- do -	West Haipei	Rice, maize, mango, citrus, piggery, poultry, tree bean, ginger	Diseases & Pest problem, low yield.	- do -
7		- do -	Saikotjang	- do -	- do -	- do -
8		- do -	T. Khullen	Rice, Maize, bean, banana, duckery, piggery.	Low fertility of soil, diseases & pest, non availability of formulated feed	Soil & water conservation, production of locally available feed crop
9		- do -	Gopibung	Rice, maize, tree bean, banana, passion fruit, piggery, pulses, Tapioca	- do -	Fruit processing, integrated farming system
10		- do -	K. Songtun	- do -	- do -	- do -
11.		- do -	M. Ningthoupham (Upper)	Rice, Maize, bean, banana, Duckery piggery.	Low fertility of soil, diseases & pest, non availability of formulated feed	Soil & water conservation, production of locally available feed crop, vermin-composting
12.		- do -	M. Ningthoupham	- do -	- do -	- do -
13.		- do -	Kailenjang	Rice, maize, tree bean, banana, passion fruit, piggery, pulses, Tapioca	Low fertility of soil, diseases & pest, non availability of formulated feed	Integrated farming system, introduction of drought resistant crops.

14.		- do -	Gilgal	Rice, maize, diary, Tapioca, yam, piggery, King chilli, Potato.	Diseases & Pest problem of livestock and crop, inadequate availability of feeds	Integrated farming system, introduction of silage making technique.
15.		- do -	L. Moulshang	Rice, maize, winter vegetables, pulses, ginger, livestock farming, fruit crops.	Diseases & Pest problem of livestock and crop, low fertility of soil	Watershed based farming system & Mass production of planting materials.

2.7 Priority/thrust areas

Crop/Enterprise	Thrust area
Rice	Popularization of high yielding varieties of rice in hill terrace cultivation.
Plant protection	Integrated Management of Pest and disease of crops
Pea, broad bean, cabbage etc.	Popularization of Horticultural crop in the hill.
Cardamom	Shade loving commercial crop plantation in forest for Environment protection and Economic upliftment of tribal people.
Poultry/livestock	Popularization of Dairy farming, Goatry, Piggery, Poultry and development of livestock feeds in Senapati District.
Soybean, groundnut etc.	To popularize improved cultivation technique of HYV of Oilseeds, Pulse and vegetables suitable for hill.
QPM Maize	Introduction of improved seeds for better production.
Food & local craft enterprise	Home scale food preservation technique & Rural Craft
Infant food mix	Health and Nutritional care for women and child.
Empowerment of farm women & rural youth	Organizing Self help Group (SHG) for farm-women and para extension workers.
EDP	Entrepreneurial and leadership development of farming communities.
Rice, management of acid soil	Soil & Water conservation, integrated nutrient management and soil reclamation measures.
Tree bean, Black gram, Ginger/turmeric	Introduction of different suitable Agro-forestry model
Vermicompost	Production of organic and bio-inputs.

1.0 TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2009-10

OFT				FLD			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
7	5	35	23	160	105	160	105

Training					Extension Activities			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	50	47	1250	1115	120	94	3500	3181
Rural youth	35	28	875	559				
Extn. Functionaries	10	7	150	111				
Total	95	81	2275	1785	120	94	3500	3181

Seed Production (Qtl.)		Planting material (Nos.)	
Target	Achievement	Target	Achievement
20	14.675	24500	21200

3.B. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	Nutrient Management	Rajmash	Improper Nutrient management		Fertilizer management in Rajmash	Fertilizer management in Rajmash	-	Training & Demo.	Seed and Fertilizer
2.	Nutrient Management	Black gram	Improper Nutrient management		Fertilizer management in Black gram	Fertilizer management in Black gram	-	-do-	-do-
3.	Nutrient Management	Rice bean	Improper Nutrient management		Fertilizer management in Rice bean	Fertilizer management in Rice bean	-	-do-	-do-
4.	Soil Fertility Management	Pea	Improper Nutrient Management		Manure and Fertilizer management in pea	Manure and Fertilizer management in pea	-	-do-	-do-
5.	Nutrient & weed management	Rice	Improper Nutrient management & weed problem		Nutrient & weed management	Production technology of rice with emphasis on nutrient & weed management	-	-do-	Critical inputs
6.	Popularization of QPM	Maize	Low yield of local cultivar		Popularization of QPM	Production technology of Maize	-	-do-	-do-
7.	Nutrient management	Soybean	Improper nutrient management		Nutrient management	Production technology of Soybean with emphasis on nutrient management	-	-do-	-do-
8.	Oilseed production	Rapeseed	Low yield due to non adoption of improved cultivation practices		Improved cultivation practices	Production technology of Rapeseed	-	Training, Demo. & Field Day	-do-
9.	Nutrient & disease management	Field pea	Improper nutrient management & high incidence of rust disease		Nutrient & disease (rust) management	Production technology of field pea with emphasis on nutrient & disease management		-do-	-do-
10.	Nutrient management	Black gram	Improper nutrient management		Nutrient management	Production technology of black gram with emphasis on nutrient management		-do-	-do-
11.	Nutrient & disease management	Potato	Improper nutrient and high incidence of Blight disease		Nutrient & disease (blight) management	Improved package of practices for cultivation potato		Training & Demonstration	-do-

12	Production management of vegetable	Broad leaf Mustard	Low yield due to un-proper spacing and nutrient		Proper spacing and manuring of broad leaf mustard	Proper spacing and manuring of broad leaf mustard		Training & Demonstration	Critical inputs
13.	Production tuber crops	Potato	Reduce cost of planting material		Potato shoot transplanting	Potato shoot transplanting		-do-	-do-
14	Integrated Pest Management	Pea	Cut worm, pod borers, aphids, Hairy caterpillar, stem fly	-	Integrated pest management in pea	Integrated pest management	-	-	-do-
15.	Integrated farming system	Tree bean + Maize	Improper cultivation practice in jhum area.		Intercropping of tree bean with maize	Intercropping of tree bean with maize	-	-do-	-do-
16	Nutrient Management	Rice	Improper Nutrient Management & Zinc deficiency	Improved nutrient management in upland rice	-	Improved nutrient management in upland rice	-	Demo. & Group discussion	Seed and fertilizer
17	Plant production	Groundnut	Low yield due to improper time of sowing	Proper time of sowing of groundnut	-	Improved package of practices for cultivation of Groundnut	-	-do-	Critical input
18	Piggery management	Pig	Poor performance due to improper housing	Performance of grower pig under proper housing system in the hills	-	Performance of grower pig under proper housing system in the hills	-	-do-	-do-
19	Production management of vegetables	Tomato	Low yield of local cultivar	Varietal evaluation of tomato Var.RCD-3 and local improved	-	Varietal evaluation of tomato	-	-do-	-do-
20	Pest Management	Brinjal	Shoot & fruit borer	Management of shoot & Fruit borer by using pheromone trap	-	Insect pest management of Brinjal	-	-do-	Seed, Fertilizer, Pheromone trap & Lure.

B. Details of each On Farm Trial

1.0 Technology Assessment

Trial 1

1.	Title	:	Improved nutrient management in upland rice (Var. RCM-5)
2.	Problem diagnose/defined	:	Improper nutrient management & Zinc deficiency
3.	Details of technologies selected for assessment/refinement	:	i. Zinc @ 5 kg/ha ii. Recommended dose of NPK @ 60:40:30 kg/ha
4.	Source of technology	:	ICAR, Imphal.
5.	Production system thematic area	:	Rainfed
6.	Thematic area	:	Nutrient Management
7.	Performance of the Technology with performance indicators	:	Increased in yield by 19.82% over local check with BC ratio of 1.54:1
8.	Final recommendation for micro level situation	:	Soil testing should be done before sowing of paddy and balance use of nutrient
9.	Constraints identified and feedback for research	:	Non irrigated situation.
10.	Process of farmers participation and their reaction	:	Active participation.

Trial 2

1.	Title	:	Proper time of sowing of groundnut
2.	Problem diagnose/defined	:	Low yield due to improper time of sowing.
3.	Details of technologies selected for assessment /refinement	:	Sowing on late May-1 st week of June.
4.	Source of technology	:	ICAR, Barapani.
5.	Production system thematic area	:	Rainfed Oilseed based production system
6.	Thematic area	:	Plant production.
7.	Performance of the Technology with performance indicators	:	The assessed technology produced more pod yield of 17.12 q/ha with a BC ratio of 1.84:1 as compared to farmers practice yielding 12.96 q/ha with a BC ratio of 1.59:1.
8.	Final recommendation for micro level situation	:	The best time for sowing groundnut is late May to 1 st week of June.
9.	Constraints identified and feedback for research	:	Co-incidence of sowing time with rice.
10.	Process of farmers participation and their reaction	:	Farmers participation was mobilized through group discussion, interactive meeting etc. and level of participation was high and active.

Trial 3

1. Title : Performance of grower pig under proper housing system in the hills
2. Problem diagnose/defined : Poor performance due to improper housing.
3. Details of technologies selected for assessment /refinement : Weaner (covered floor area 0.96-1.8 m & open yard area 8.8-12 m)
4. Source of technology : ICAR, 2008
5. Production system thematic area : Upland
6. Thematic area : Piggery management
7. Performance of the Technology with performance indicators : Performance indicator was mortality rate of weaned piglets. Mortality of weaned piglets under the trial has lesser mortality rate than non-trial area.
8. Final recommendation for micro level situation : Housing system under covered floor area of 0.96-1.8m and open yard area of 8.8-12m gave less mortality and better growth performance than the local practices.
9. Constraints identified and feedback for research :
 - i. Poor adoption of improved housing system in the hill.
 - ii. Less space available for livestock housing in the hills.
10. Process of farmers participation and their reaction :
 - i. Active participation of the concerned/beneficiary farmer.
 - ii. Moderate participation of the neighborhood.

Trial 4

1. Title : Varietal evaluation of tomato var RCD-3 and local improved.
2. Problem diagnose/defined : Low yield of local cultivar
3. Details of technologies selected for assessment /refinement : Using tomato var- RCD-3 and local improved
4. Source of technology : ICAR, Manipur centre, Lamphel
5. Production system thematic area : Rainfed
6. Thematic area : Production management of vegetables
7. Performance of the Technology with performance indicators : Increase in yield 43.4% over local cultivar(97 q/ha) with BC ratio 2.91:1
8. Final recommendation for micro level situation : Hybrid tomato var. should be introduced to farmers for high yield. Yard area of 8.8-12m gave less mortality and better growth performance than the local practices.
9. Constraints identified and feedback for research :
 - i. Co-incidence of sowing with rain and frost.
 - ii. Less space available for livestock housing in the hills.
10. Process of farmers participation and their reaction : Active Participation.

Trial 5

1.	Title	:	Management of shoot & Fruit borer by using heromone trap
2.	Problem diagnose/defined	:	Shoot & fruit borer
3.	Details of technologies selected for assessment /refinement	:	Using of Lucilure sex pheromone @ 100 trap/ha at 20-25 DAT & replacing at monthly interval.
4.	Source of technology	:	ICAR, Barapani.
5.	Production system thematic area	:	Rainfed
6.	Thematic area	:	Pest Management
7.	Performance of the Technology with performance indicators	:	On going
8.	Final recommendation for micro level situation	:	On going
9.	Constraints identified and feedback for research	:	Not readily available of Lucilure sex pheromone.
10.	Process of farmers participation and their reaction	:	Active Participation.

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment
1	2	3	4	5	6	7	8	9
Rice (var. RCM-5)	Rainfed	Improper nutrient management & Zinc deficiency	Improved nutrient management in upland rice	4	i. Zinc @ 5 kg/ha ii. Recommended dose of NPK @ 60:40:30 kg/ha	Soil fertility status & yield	40-50 q/ha	33.55 q/ha
Groundnut	Rainfed upland	Low yield due to improper time of sowing	Proper time of sowing of groundnut	6	Sowing on late may to 1 st week of June	Pod Yield		17.12 q/ha
Piggery	Upland	Poor performance due to improper housing.	Performance of grower pig under proper housing system in the hills	5	Weaner (covered floor area 0.96-1.8 m & open yard area 8.8-12 m)	Mortality rate of weaned piglets	-	25% mortality
Tomato	Rainfed	Low yield of local cultivar	Varietal evaluation of tomato var.-RCD-3 and local improved	4	Tomato var. RCD-3 and local improved	Fruit yield.	130.5 q/ha	43.4% yield increase
Brinjal (var. Pusa purple long)	Rainfed	Shoot & fruit borer	Management of shoot & Fruit borer by using heromone trap	4	Use of lucilure sex pheromone @ 100 trap/ha at 20-25 DAT & replacing at monthly interval	Pest incidence & yield	80-90 q/ha	On going

Feedback from the farmer	Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
10	11	12	13	14
Increase yield over local practice.	i. Zinc @ 5 kg/ha ii. Recommended dose of NPK @ 60:40:30 kg/ha	33.55 q/ha	21635	1.75:1
Co-incidence of sowing time with rice	Sowing on late May to 1 st week of June	17.12 q/ha	23470/ha	1.84:1
-	Weaner (covered floor area 0.96-1.8 m & open yard area 8.8-12 m)	Sale of fatter pig after 4 months @ Rs. 180/kg live body weight	7500 per pig	-
Co-incidence of sowing with rain and frost.	Tomato var.-RCD-3 and local improved	91 q/ha	51,040/ha	2.19:1
-	Use of lucilure sex pheromone @ 100 trap/ha at 20-25 DAT & replacing at monthly interval	On going	On going	On going

B. Technology Refinement : NA

11) Results of On Farm Trials : NA

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology refined	Parameters	Data on the parameter	Results of refinement	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10

Justification for refinement	Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14	15

3.2 Achievements of Frontline Demonstrations

6.4 Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2009-10 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha

- b. Details of FLDs implemented during 2009-10 (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.**)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Other s	Total	
Cereal Crops										
1.	Rice	Nutrient & Weed management	i. NPK @ 60:40:30 kg/ha ii. Application of Butachlor @ 25 kg/ha in 4-5 DAT followed by one hand weeding just before top dressing	Kharif, 2010	5	5	9	1	10	
2.	Maize	Popularisation of QPM	Var. HQPM-I	Pre-kharif, 2010	10	10	8	5	13	
Oilseed Crops										
1.	Soybean	Nutrient Management	NPK @ 20:60:40 Kg/ha	Kharif, 2010	5	5	11	-	11	
2.	Rapeseed	Oilseed production	Improved cultivation practices	Rabi, 2010	10	5	7	3	10	

Pulses Crops										
1.	Pea	Soil fertility Management	Manures @ 20t/ha & NPK @ 20:60:30 kg/ha.	Rabi, 2010	1	1	4	-	4	-
2.	Rice bean	Nutrient management	NPK @ 40:60:20 kg/ha	Kharif, 2010	1	1	4	-	4	
3.	Black gram	-do-	NPK @ 20:40:20 kg/ha & Sulphur @ 20kg/ha	Kharif, 2010	2	2	6	-	6	
4.	Rajmash	-do-	NPK @ 100:40:20 kg/ha & sulphur @ 20 kg/ha.	Kharif, 2010	2	1	4	-	4	
5.	Field pea	Nutrient & disease (Rust) Management	i. NPK @ 20:50:20 kg/ha ii. Seed treatment with Bavistin @ 2g/kg iii. 2-3 spray of Mancozeb @ 2g/litre water	Rabi, 2010	10	5	10	2	12	
6.	Blackgram	Nutrient management	i.NPK @ 20:50:20 kg/ha ii. Seed treatment with rizobium	Kharif, 10	10	5	8	4	12	
7.	Pea	Pest management	i. Application of Carbofuran @0.5 kg/a.i/ha at sowing & spraying Malathion 0.05%at 25 DAS and another at pod formation stage.	Rabi, 2010	1	1	3	1	4	
Horticultural Crop										
1.	Potato	Nutrient & disease management	i.NPK @ 100:80:100 kg/ha ii. Seed treatment with Mancozeb @ 3 g/litre water	Rabi, 2010	0.5	0.25	3	-	3	
2.	Potato	Production of tuber crops	Planting of potato by shoot separation	-do-	1.00	1.00	4	-	4	
Others										
1.	Maize + tree bean	Improper cultivation practice in jhum area.	Spacing : Tree bean – 8 x 8 m Maize- 60 x 30 cm.	Kharif, 2010	1.00	1.00	4	-	4	
2.	Broadleaf mustard	Production management of vegetables	Spacing: 25 x 25 cm (16 plants/sq.m) with NPK @100:100:100 kg/ha.	Rabi 2010	1.00	1.00	4	-	4	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Rice	Kharif, 2010	RF	Clay loam	M	M	L	Rapeseed, rice fallow	1 st week of June, 2010	2 nd week of Oct., 2010		
Maize	Pre Kharif, 2010	RF	-do-	H	M	M	Rapeseed	Last week of March to 2 nd week of April, 2010	1 st to 2 nd week of Aug., 2010		
Soybean	Kharif, 2010	RF	-do-	M	M	M	Potato, cabbage, beans	Late June – 1 st week of July, 2010	1 st week of Nov, 2010		
Rapeseed	Rabi, 2010	RF	-do-	M	M	L	Maize	Late Oct, - 1 st week of Nov. 2010	2 nd -3 rd week of Feb., 2011		
Pea	Rabi, 2010	RF	Clay loam	M	L-M	M	Rice	1 st week of Oct., 2010	Starting from last week of Dec., 2010		
Rice bean	Kharif, 2010	RF	Red sandy	H	M	L-M	Potato	1 st week of July, 2010	1 st week of Nov., 2010		
Black gram	Kharif, 2010	RF	-do-	M	M	M-H	Cabbage	2 nd Week of July, 2010	1 st week of Dec., 2010		
Rajmash	Kharif, 2010	RF	-do-	M	M	M	Pea	1 st week of June, 2010	1 st week of Oct. 2010	-	
Field pea	Rabi, 2010	RF	Clay loam	M	M	L	Potato Cabbage	2 st – 2 nd week of Oct., 2010	Mid to late Feb., 2011		
Blackgram	Kharif, 2010	RF	-do-	H	M	M	Beans, Potato	Mid to late July, 2010	Late Oct, to 1 st week of Nov., 2010		
Potato	Feb., 2010	RF	-do-	H	M	M	Pea, Cabbage	Feb., 2010	June, 2010		
Potato	Rabi 2010	RF	-do-	M	M	M	Maize, Beans	1 st Week of Oct., 2010	2 nd Week of Feb., 2010		
Broadleaf mustard	Rabi 2010	RF	-do-	M	M	M	Maize, Beans	2 nd Week of Sept., 2010	1 st Week of Dec., 2010		
Maize + Tree bean	Kharif, 2010	RF	-do-	M	M	M	Wasteland	2 nd week of March, 2010	1 st & 2 nd week of Aug., 2010		
Pea	Rabi, 2010	RF	-do-	M	M	M	Maize	1 st week oct., 2010	2 nd week Feb., 2011		

* H = High(N> 500,P>50,K>300 kg/ha) , L = Low(N< 250,P<20,K<125kg/ha), M=Medium(N=250-500,P=20-50,K=125-300 kg/ha), M-H = Medium – High

Performance of FLD

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Rice	1. NPK @ 60:40:30 kg/ha ii. Application of Butachlor @ 25 kg/ha in 4-5 DAT followed by one hand weeding just before top dressing	RCM-5	10	5	39.20	36.8	38.2	29.4	30	40-50	29.4
2.	Maize	Var. HQPM-I	HQPM-I	13	10	41.1	37.0	38.10	28.70	32.75	60	28.70
3.	Soybean	NPK @ 20:60:40 kg/ha	JS-335	11	5	17.15	16.05	16.62	12.33	34	20-25	12.33
4.	Rapeseed	Improved cultivation practices	M-27	10	5	9.00	8.10	8.57	6.20	38	10-12	6.20
5	Pea	Manures @ 20t/ha & NPK @ 20:60:30 kg/ha.	Arkel	4	1	39.00	38.70	38.86	29.00	34.00	50-60 q/ha	-
6	Rice bean	NPK @ 40:60:20 kg/ha	RBL-1	4	1	12.50	11.50	12.12	8.74	38.73	15-18 q/ha	8.10 q/ha
7	Black gram	NPK @ 20:40:20 kg/ha & Sulphur @ 20kg/ha	T-9	6	2	7.20	6.75	6.98	4.87	38.22	8.10 q/ha	
8.	Field pea	1. NPK @ 20:50:20 kg/ha ii. Seed treatment with Bavistin @ 2g/kg iii. 2-3 spray of Mancozeb @ 2g/litre water	Rachna	12	5	17.11	16.32	16.68	13	28.30	20-25	13
9	Rajmash	NPK @ 100:40:20 kg/ha & sulphur @ 20 kg/ha.	Contender	4	1	13.00	12.70	12.81	9.30	37.74	15-20 q/ha	8.10 q/ha
10	Blackgram	1. NPK @ 20:50:20 kg/ha ii. Seed treatment with rizobium	T-9	12	5	9.06	8.10	8.37	6.10	37	8-10	6.10
11	Potato	1. NPK @ 100:80:100 kg/ha ii. Seed treatment with Mancozeb @ 3 g/litre water	Kufri jyoti	3	0.25	169	166	168	122	36.58	180-200	122
12	Potato	Planting of potato by shoot separation	Kufri jyoti	4	1.00	165.20	162	163.92	167.95	-2.46%	150-200	150-200

13	Broadleaf mustard	Spacing : 25 x 25 cm. (16 plants/sq,m) with NPK@ 100:100:100 kg/ha.	Lamta chabi(local improved)	4	1.00	150	146.50	148	95.17	35.69	140-200	80-120
14	Pea	i. Application of Carbonfuran @0.5 kg/ a.i/ha at sowing & spraying Malathion 0.05%at 25 DAS and another at pod formation stage.	Rachna	4	1	18.00	17.00	17.40	13.68	27.19	20-25 q/ha	13.68
15	Maize + Tree bean	Spacing : Tree bean – 8x8m Maize-60x 30 cm.	Tree bean : Local Maize : Ganga-5	4	1	Maize						
						33	32.50	32.81	25.00	31.24	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
24646	22840	45840	35280	21194	12440	1.86:1
23812	22350	45720	34440	21908	12090	1.92:1
24942	22200	46536	34524	21594	12324	1.86:1
17668	15425	25710	18600	8042	3175	1.46:1
34100	30600	97150	72500	63050	41900	2.85:1
17774	14500	30300	21850	12526	7350	1.70:1
15846	13400	27920	19480	12074	6080	1.76:1
28184	24200	51240	37200	23056	13000	1.82:1
26056	23450	50040	39000	23984	15550	1.92:1
19336	18600	29295	21350	9959	2750	1.52:1
86682	72770	168000	123000	81318	50230	1.94:1
48200	61800	98352	100770	50152	38970	2.04:1
28500	20500	79920	51396	51420	30896	2.80:1
22740	20000	43500	34200	20760	15325	1.91:1
25030	23000	39372	30000	14342	7000	1.57:1

Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
f) Spices										
Production and Management technology										
Processing and value addition										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
III Soil Health and Fertility Management										
Soil fertility management	1	-	-	-	18	7	25	18	7	25
Soil and Water Conservation	1	-	-	-	20	5	25	20	5	25
Integrated Nutrient Management	2	-	-	-	30	20	50	30	20	50
Production and use of organic inputs										
Management of Problematic soils	2	-	-	-	34	16	50	34	16	50
Micro nutrient deficiency in crops	2	-	-	-	37	13	50	37	13	50
Nutrient Use Efficiency	1	-	-	-	19	6	25	19	6	25
Soil and Water Testing										
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Disease Management										
Feed management										
Production of quality animal products	1	-	-	-	18	7	25	18	7	25
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	-	-	-	-	20	20	-	20	20
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies	1	-	-	-	-	20	20	-	20	20
Rural Crafts	1	-	-	-	-	20	20	-	20	20

Capacity building for ICT application										
Care and maintenance of farm machinery and implements										
WTO and IPR issues										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Women and Child care										
Low cost and nutrient efficient diet designing										
Production and use of organic inputs										
Gender mainstreaming through SHGs										
TOTAL	2	-	-	-	22	8	30	22	8	30

6.6 Consolidated table (ON and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	2	-	-	-	28	22	50	28	22	50
Resource Conservation Technologies	1	-	-	-	12	13	25	12	13	25
Cropping Systems	1	-	-	-	17	8	25	17	8	25
Crop Diversification										
Integrated Farming										
Water management										
Seed production	2	10	-	10	24	16	40	34	16	50
Nursery management										
Integrated Crop Management	1	-	-	-	9	16	25	9	16	25
Fodder production	1	-	-	-	12	13	25	12	13	25
Production of organic inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops										
Off-season vegetables										
Nursery raising	1	-	-	-	18	7	25	18	7	25
Exotic vegetables like Broccoli	1	-	-	-	20	5	25	20	5	25
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green Houses, Shade Net etc.)	2	-	-	-	15	10	25	15	10	25
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	-	-	-	15	10	25	15	10	25
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques	3	-	-	-	56	19	75	56	19	75
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										

Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
VII Plant Protection										
Integrated Pest Management	4	-	-	-	50	55	105	50	55	105
Integrated Disease Management	3	-	-	-	46	24	70	46	24	70
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs	2	-	-	-	5	35	40	5	35	40
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
XI Agro-forestry										
Production technologies	3	-	-	-	44	21	65	44	21	65
Nursery management										
Integrated Farming Systems	1	-	-	-	18	7	25	18	7	25
Others										
i. Watershed management	1	-	-	-	18	7	25	18	7	25

Women and Child care										
Low cost and nutrient efficient diet designing										
Production and use of organic inputs	1	2	-	2	18	5	23	20	5	25
Gender mainstreaming through SHGs										
Others										
TOTAL	7	2	-	2	81	28	109	83	28	111

Training programmes conducted :

Date	Client	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off / On Campus)	Number of other participants			Number of SC/ST			Total number of participants		
							M	F	T	M	F	T	M	F	T
23/4/10	PF	Nursery raising techniques of paddy	Agronomy	Nursery Management	1	ON	-	-	-	9	16	25			
23/4/10	PF	Production of Off season vegetables	Horti.	Protected cultivation	1	OFF	-	-	-	20	5	25			
29/4/10	PF	IPM on Cucurbit crop	P.P	IPM	1	OFF	-	-	-	10	15	25			
28-29/4/10	RY	Training for RY as para vet	Vety	Para vet	2	ON	-	-	-	8	2	10			
24/4/10	PF	Maintenance of Soil fertility in the hill landscape	Soil. Sc.	Fertility Management	1	OFF	-	-	-	18	7	25			
19/4/10	RY	Formation & Management of Women SHG	Agri. Extn	SHG	1	ON	-	-	-	10	5	15			
6/4/10	PF	Development of Jhum land through agro-forestry	Agro-forestry	Production technology	1	OFF	-	-	-	14	11	25			
	PF	Smokeless Chulas making	Home Sc.	Drudgery Reduction	1	OFF	-	-	-	-	20	20			
	PF	Seed production techniques of major oilseed crops	Agronomy	Seed production	2	OFF	5	-	5	12	8	20	17	8	25
28/5/10	PF	Propagation techniques of citrus	Horti	Plant propagation	1	OFF	-	-	-	20	5	25	20	5	25
24&25/5/10	RY	Scientific Rabbit farming	Vety	Animal Production	2	ON	-	-	-	9	11	20	9	11	20
25/5/10	PF	Management of acidic soil	Soil Sc.	Fertility Management	1	OFF	-	-	-	16	9	25	16	9	25
22/5/10	EF	Formation & Management of SHG	A.E.	SHG	1	ON	-	-	-	11	4	15	11	4	15
7/5/10	PF	Agro-forestry in Watershed management	Agro-forestry	Integrated farming system	1	ON	-	-	-	18	7	25	18	7	25
03&04/6/10	PF	Integrated Nutrient Management in rice	Agronomy	Integrated Nutrient Management	2	ON	-	-	-	16	9	25	16	9	25
19/6/10	RY	Production Technology of Potato	Horti.	Tuber production	1	OFF	-	-	-	20	5	25	20	5	25
22/6/10	PF	Management of early infestation of pest in rice	PP	Pest Management	1	OFF	-	-	-	16	9	25	16	9	25
24/6/10	RY	Pig farming for income generation	Vety	Piggery	1	OFF	-	-	-	13	7	20	13	7	20
15/6/10	PF	Rainwater Harvesting technology	Soil Sc.	Soil & Water Conservation	1	OFF	-	-	-	20	5	25	20	5	25
10/6/10	RY	Entrepreneurship & Rural Youth	A.E.	Entrepreneurship	1	ON	-	-	-	7	8	15	7	8	15
	PF	Production of Pulses in agro-forestry	Agro-forestry	Production Technology	1	OFF	-	-	-	18	7	25	18	7	25
9/6/10	RY	Artificial Flower making	Home. Sc.	Rural Craft	1	OFF	-	-	-	-	20	20	-	20	20
16/7/10	PF	Weed management in major field crop	Agronomy	Weed Management	1	OFF	-	-	-	18	7	25	18	7	25
17/7/10	PF	Seed Production techniques of vegetables	Horti.	Seed Production	1	OFF	-	-	-	18	7	25	18	7	25
24/7/10	PF	Integrated Pest Management in rice	PP	IPM	1	OFF	-	-	-	15	10	25	15	10	25
12/7/10	EF	Artificial Insemination in pig	Vety.	Piggery	1	ON	-	-	-	10	-	10	10	-	10
16/7/10	EF	Integrated Nutrient	Soil Sc.	INM	1	ON	-	-	-	10	5	15	10	5	15

		Management in major field crops													
10/7/10	RY	Forest based agril. System	Agro-forestry	Integrated Farming system	1	OFF	-	-	-	10	5	15	10	5	15
9 & 10/7/10	RY	Preparation of candy & pickle	Home. Sc.	Value addition	2	OFF	-	-	-	-	20	20	-	20	20
17/8/10	PF	Cropping system for rainfed upland	Agronomy	Cropping system	1	OFF	-	-	-	17	8	25	17	8	25
18/18/10	PF	Production technology of planting materials of fruit crop	Horti.	Planting materials production	1	OFF	-	-	-	15	10	25	15	10	25
14/8/10	PF	Soil management for micro nutrient	Soil Sc.	Micro nutrient management	1	OFF	-	-	-	22	3	25	22	3	25
7/8/10	RY	Formation & management of SHG	AE	SHG	1	ON	-	-	-	-	15	15	-	15	15
14/8/10	EF	Weed management practices in agro-forestry production system	Agro-forestry	Production technology	1	OFF	-	-	-	10	5	15	10	5	15
	PF	Preparation of bamboo shoot pickle	Home Sc.	Value addition	1	OFF	-	-	-	-	20	20	-	20	20
16& 17/9/10	PF	Seed Production Technology of Mustard rapeseed	Agronomy	Seed production	2	OFF	5	-	5	12	8	20	17	8	25
15/9/10	PF	Production technology of Broccoli	Horti.	Exotic vegetable production	1	ON	-	-	-	20	5	25	20	5	25
18/9/10	RY	Scientific goat rearing in the hill	Vety	Goat rearing	1	ON	-	-	-	12	8	20	12	8	20
24/9/10	PF	Use of bio-fertilizer in crop production	Soil Sc.	Integrated Nutrient management	1	ON	-	-	-	16	9	25	16	9	25
10/9/10	EF	Propagation & Cultivation practices of bamboo	Agro-forestry	Nursery management	1	OFF	-	-	-	12	3	15	12	3	15
20/10/10	PF	Production technology for major fodder crops	Agronomy	Fodder production	1	OFF	-	-	-	12	13	25	12	13	25
20/10/10	RY	Protected production technology of tomato	Horti.	Protective cultivation	1	ON	-	-	-	18	7	25	18	7	25
20&21/10/10	PF	Turkey farming	Vety	Poultry production	2	ON	-	-	-	9	16	25	9	16	25
22/10/10	PF	Bio-fertilizer in nutrient management	Soil Sc.	INM	1	OFF	-	-	-	17	8	25	17	8	25
8/10/10	PF	Formation & management of SHG	AE	SHG	1	OFF	-	-	-	15	5	15	15	5	15
8/10/10	RY	Forest based integrated forming system	Agro-forestry	IFS	1	ON	-	-	-	10	5	15	10	5	15
26/10/10	RY	Preparation of lemon pickle	Home Sc.	Value addition	1	On	-	-	-	-	20	20	-	20	20
15/11/10	PF	Harvesting & Safe Storage technology of field crops	Agronomy	Resource conservation technology	1	OFF	-	-	-	12	13	25	12	13	25
20/11/10	RY	Protective cultivation of tomato	Horti.	Protective cultivation	1	ON	-	-	-	20	5	25	20	5	25
11/11/10	RY	Training on women empowerment	PP	Women empowerment	1	ON	-	-	-	-	35	35	-	35	35
15/11/10	PF	Common infection diseases of livestock & their control measures	Vety	Disease management	1	ON	-	-	-	21	4	25	21	4	25
12/11/10	PF	Management of Plant micro-nutrient	Soil Sc.	Micro-Nutrient	1	OFF	-	-	-	15	10	25	15	10	25
6/11/10	RY	Sensitization programme for Rural Youth as para extension worker	AE	Par extn. Worker	1	ON	-	-	-	10	7	17	10	7	17
12/11/10	RY	Silvicultural practices in Agro-forestry	Agro forestry	Production technology	1	OFF	-	-	-	10	5	15			
14&15/12/10	EF	Composting & green manuring for sustainable agriculture	Agronomy	Production of organic input	2	ON	2	-	2	18	5	23	20	5	25
20/12/10	PF	Propagation techniques of kiwi fruit	Horti.	Fruit production	1	OFF	-	-	-	18	7	25	18	7	25

12/12/10	PF	Pest & diseases of potato & their management	PP	Pest Management	1	OFF	-	-	-	15	5	20	15	5	20
9/12/10	PF	Rabbit rearing for income generation	Vety	Rabbit rearing	1	ON	-	-	-	16	9	25	16	9	25
15/12/10	PF	Time & method of fertilizer application	Soil Sc.	Nutrient use efficiency	1	OFF	-	-	-	19	6	25	19	6	25
14/12/10	RY	Agro-forestry in conservation of natural resources	Agro-forestry	IFS	1	ON	-	-	-	8	7	15	8	7	15
14/12/10	RY	Artificial flower making	Home Sc.	Rural Craft	1	OFF	-	-	-	-	20	20	-	20	20
13/01/11	RY	Production technology for paddy cum-fish	Agronomy	IFS	1	OFF	-	-	-	19	6	25	19	6	25
24/01/11	PF	Propagation techniques of fruit crop	Horti.	Propagation techniques	1	ON	-	-	-	18	7	25	18	7	25
15/01/11	PF	Pest & disease management of pea crops	PP	Pest management	1	OFF	-	-	-	19	6	25	19	6	25
20/01/11	PF	Feed management of dairy cattle	Vety.	Feed	1	OFF	-	-	-	18	7	25	18	7	25
20/01/11	PF	Integrated Nutrient Management for sustainable agriculture	Soil Sc.	INM	1	OFF	-	-	-	13	12	25	13	12	25
12/01/11	EF	Formation & Management of SHG	AE	SHG	1	ON	-	-	-	10	6	16	10	6	16
21/01/11	RY	Rejuvenation of old orchard	Agro-forestry	Production Technology	1	ON	-	-	-	-	20	20	-	20	20
20/01/11	RY	Artificial flower making	Home Sc.	Rural Craft	1	ON	-	-	-	-	20	20	-	20	20
19/2/11	RY	Post harvest management of fruit & vegetable	Horti.	Post Harvest Management	1	OFF	-	-	-	15	10	25	15	10	25
19/2/11	PF	Pest & disease management of Tomato	PP	Pest management	1	OFF	-	-	-	16	9	25	16	9	25
10/2/11	RY	Scientific dairy farming	Vety.	Dairy	1	ON	-	-	-	7	13	20	7	13	20
9/2/11	RY	Vermiculture in organic farming	Soil Sc.	Conservation technology	1	OFF	-	-	-	14	11	25	14	11	25
11&12/03/11	RY	QPM hybrid maize seed production	Agronomy	Seed Production	2	ON	5	-	5	15	5	20	20	5	25
10/3/11	PF	Production technology of Vegetables under protective cultivation	Horti.	Protective cultivation	1	OFF	-	-	-	20	5	25	20	5	25
29/3/11	PF	Calibration of sprayer	PP	Pest management	1	OFF	-	-	-	14	11	25	14	11	25
10/3/11	RY	Fish cum pig farming	Vety	IFS	1	ON	-	-	-	12	8	20	12	8	20
24/03/11	PF	Management of Problematic soil	Soil Sc.	Problem soil	1	OFF	-	-	-	18	7	25	18	7	25
4/3/11	PF	Formation & Management of SHG	AE	SHG	1	OFF	-	-	-	-	20	20	-	20	20
7/3/11	PF	Fruit & vegetable crop in agro-forestry	Agro-forestry	IFS	1	OFF	-	-	-	18	7	25	18	7	25
16/3/11	PF	Artificial flower making	Home Sc.	Rural Craft	1	OFF	-	-	-	-	20	20	-	20	20

(D) Vocational training programmes for Rural Youth : Nil

Crop / Enterprise	Date	Training title	Identified Thrust Area	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
					Male	Female	Total	Type of units	Number of units	Number of persons employed	

(E) Sponsored Training Programmes

Sl. No	Date	Title	Discipline	Thematic area	Duration (days)	Client (PF/R/EF)	No. of courses	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
								Others			SC/ST			Total				
								M	F	T	M	F	T	M	F	T		
	24-28/8/2010	Entrepreneurship Development training programme under IWDP, Ukhrul District, Manipur	Multi discipline	IPM	5	PF/R/EF	2	-	-	-	15	37	52	15	37	52	MoBC	

3.4. Extension Activities (including activities of FLD programmes)

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Field Day	12/10/10, 20/01/11, 5/2/11	3	-	-	-	91	39	130	5	-	5	96	39	135
2.	Kisan Mela	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.	Kisan Ghosthi														
4.	Exhibition														
5.	Film Show	Vermi-composting, livestock rearing.	4	-	-	-	70	49	119	-	-	-	70	49	119
6.	Method Demonstrations		12	-	-	-	110	10	120	-	-	-	110	10	120
7.	Farmers Seminar														
8.	Workshop														
9.	Group meetings	Selection of site and beneficiary etc.	7	-	-	-	72	23	95	10	-	10	82	23	105
10.	Lectures delivered as resource persons	Empowerment of women through Agril. & Animal Husbandry	5	-	-	-	-	524	524	-	-	-	-	524	524
11.	Newspaper coverage	5/2/11, 29/1/11 & 10/2/11	3												
12.	Radio talks	5/11/2010 & 26/7/10	2												
13.	TV talks	12/8/10	1												
14.	Extension Literature	Rapeseed & mustard cultivation -package of practices for high productivity Single cross Hybrid Maize seed Production Improved cultivation practices of Maize Management of soil acidity Bamboo cultivation practices	5	-	-	-	650	50	700	150	-	150	800	50	850
15.	Advisory Services		9	-	-	-	26	19	45	-	-	-	26	19	45
16.	Scientific visit to farmers field		6	13	-	13	155	80	235	-	-	-	168	80	248
17.	Farmers visit to KVK		10	17	4	21	138	103	241	-	-	-	155	107	262
18.	Diagnostic visits		11	-	-	-	39	12	51	-	-	-	39	12	51
19.	Exposure visits		2	5	-	5	25	70	95	-	-	-	30	70	100
20.	Ex-trainees Sammelan		4	-	-	-	153	62	215	-	-	-	153	62	215
21.	Soil health Camp		2	-	-	-	160	48	208	-	-	-	160	48	208

22.	Animal Health Camp		1	-	-	-	79	7	86	-	-	-	79	7	86
23.	Agri mobile clinic														
24.	Soil test campaigns		2	-	-	-	60	4	64	-	-	-	60	4	64
25.	Farm Science Club Conveners meet		2	-	-	-	16	8	24	10	-	10	26	8	34
26.	Self Help Group Conveners meetings		2	-	-	-	-	15	15	-	-	-	-	15	15
27.	Mahila Mandals Conveners meetings														
28.	Celebration of important days (specify)														
	Grand Total		94	35	4	39	1844	1123	2967	175	-	175	2054	1127	3181

6.7 Production and supply of Technological products

SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Maize	HQPM-1	1.50	7500	33
	Rice	CAU-R1	6.00	12000	15
OILSEEDS	Rapeseed	M-27	1.90	4750	Kept in stock for next season.
	Soybean	JS-335	1.60	4000	
PULSES	Field pea	Rachna	1.64	4100	
VEGETABLES	Tomato	RCD-3	2 kg	3000	15
	Brinjal	Pusa kranti	1.5 kg	1300	10
FLOWER CROPS					
OTHERS (spices)	Turmeric	Lakadong	2 qt.	2400	10

SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	7.50	19500	48
2	OILSEEDS	3.50	8750	In stock
3	PULSES	1.64	4100	-do-
4	VEGETABLES	0.035	4300	25
5	FLOWER CROPS	-	-	-
6	OTHERS (Spices)	2.00	2400	10
	TOTAL	14.675	39050	83

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Orange	Khasi Mandarin	2000	10000	20
	Lime	Kachai	1000	5000	10
	Guava	L-49	3000	9000	20
	Kiwi	Bruno, Monty	6700	502500	100
SPICES					
VEGETABLES					
FOREST SPECIES	MPTS	-	6500	42500	23
ORNAMENTAL CROPS					
PLANTATION CROPS	Large cardamom	Golsey	2000	6000	20
Others (specify)					

SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	12700	526500	150
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES	6500	42500	23
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS	2000	6000	20
7	OTHERS			
	TOTAL	21200	575000	193

BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
BIOFERTILIZERS						
6.8 Vermicompost (organic fertilizer)	Vermi worm	African night crawler		2kg	2000	3
	Vermi compost	-do-		200 kg	3000	5
BIO PESTICIDES						

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	(kg)		
1	Vermi worm	African night crawler		2kg	2000	3
2	Vermi compost	-do-		200 kg	3000	5
	TOTAL			202	5000	8

LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
1	Cattle					
2	SHEEP AND GOAT					
3	POULTRY	Vanaraja	180	-	8100	6
4	FISHERIES					
5	Others (Specify)	Pig	8		12000	4

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE					
2	SHEEP & GOAT					
3	POULTRY	Vanaraja	180	-	8100	6
4	FISHERIES					
5	OTHERS	Pig	8		12000	4
	TOTAL		188	-	20100	10

3.6. Literature Developed/Published:

6.9 KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.) : NIL

(B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers			
Technical reports			
Popular articles			
Total			
Leaflets/folders	Single cross hybrid maize seed production	N. Jyotsna, SMS(Agronomy)	200
	Rapeseed & Mustard cultivation – package of practices for high productivity	-do-	200
	Improved cultivation practices of Maize	-do-	200
	Management of soil acidity	A. Haribhushan SMS(Soil Sc.)	150
	Bamboo cultivation practices	A. Brojendro Singh, PA(Agro-Forestry)	150
Total			900

I Details of Electronic Media Produced : NA

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs) :

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year : N.A.

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs) : N.A.

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

3.10 Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women : PRA
- Rural Youth : Group discussion
- In-service personnel : Personal contact(interview)

3.11 Field activities

- i. Number of villages adopted : 15 nos.
- ii. No. of farm families selected : 400 nos.
- iii. No. of survey/PRA conducted : 7 nos.

3.12. Activities of Soil and Water Testing Laboratory :

- Status of establishment of Lab :
1. Year of establishment :
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
Total			

3. Details of samples analyzed so far : NA

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Plant Samples				
Petiole Samples				
Total				

4.0 IMPACT**4.1. Impact of KVK activities (Not to be restricted for reporting period).**

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Popularization of QPM maize (Var. HQPM-1)	115	70%	12090	21908
(Weed management in rice) – application of butachlor @ 25 kg/ha in 4-5 DAT followed by one hand weeding just before top dressing	140	52%	Rs. 15000/ha	Rs. 19,000
Broad mustard leaf (improved local cultivar)	130	44%	Rs. 4850/ha	Rs. 12,900/ha

**6.10 Cases of large scale adoption
(Please furnish detailed information for each case)****4.3 Details of impact analysis of KVK activities carried out during the reporting period****5.0 LINKAGES****5.1 Functional linkage with different organizations**

Name of organization	Nature of linkage
1. Nehru Yuva Kendra, Senapati	Participation in meeting
2. District Vety Office, Senapati	Participation in meeting and joint animal health care programme
3. Directorate of Research, CAU	Participation in meeting & joint vaccination programme
4. Divisional Forest Office, Senapati	Participation in meeting
5. District Fishery Office, Senapati	Participation in meeting
6. District Industrial Centre, Senapati	Participation in meeting
7. District Agriculture Office, Senapati	Participation in meeting
8. District Horticulture & Soil Conservation Office, Senapati	Participation in meeting & Infrastructural support
9. District Information Office, Senapati	Participation in meeting and information sharing
10. ICAR, Imphal Centre	Information sharing and technology backstopping
11. Department of Bio-Technology, Government of India.	Bio-technology based societal development programme
12. Department of Minorities and Other Backward classes, Government of Manipur.	Consultancy and training programme.

6.15 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/RV/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total
24-28/8/2010	Entrepreneurship Development training programme under IWDP, Ukhru District, Manipur	PF	2	15	37	52	15	37	52
15/6/2010	Rain water Harvesting	PF	1	20	5	25	20	5	25

6.16 Utilization of hostel facilities

Accommodation available (No. of beds) : **60**

Months	Title of the training course/Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
24-28/8/2010	Entrepreneurship Development training programme under IWDP, Ukhru District, Manipur	52	5	

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	Central Bank of India	Paona Bazar, Imphal	1947801995
With KVK	Central Bank of India	Thangal, Imphal	1822213655

7.2 Utilization of funds under FLD on Oilseed (*In Rs.*) : *Not released.*

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2010
	Kharif 2009-10	Rabi 2009-10	Kharif 2009	Rabi 2010	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					NIL

7.3 Utilization of funds under FLD on Pulses (*In Rs.*) : *Not released.*

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2010
	Kharif 2009-10	Rabi 2009-10	Kharif 2009-10	Rabi 2009-10	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.4 Utilization of funds under FLD on Cotton (Rs. In Lakhs) : N.A.

Item	Released by ICAR	Expenditure	Unspent balance as on 1 st April 2008
	Kharif 2007	Kharif 2007	
Inputs			
Extension activities			
TA/DA/POL etc.			
TOTAL			

7.5 Utilization of KVK funds during the year 2008-09 and 2009-10

Year : 2009-10

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	34,00,000.00	34,00,000.00	3243952.00
2	Traveling allowances	2,00,000.00	2,00,000.00	2,00,000.00
3	Contingencies	8,00,000.00	8,00,000.00	-
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			174768.00
B	POL, repair of vehicles, tractor and equipments			48978.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			58875.00
D	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			208000.00
E	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			61650.00
F	Training of extension functionaries			-
G	Maintenance of buildings			6600.00
H	Establishment of Soil, Plant & Water Testing Laboratory			
I	Library			
J	Technology Week cum Kishan Mela, Instructional farm, Animal health camp, Kishan Mela participation, Nursery raising for distribution and Demonstration unit.			392950.00
	Total (A)	4400000.00	4400000.00	4395773.00
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including & Furniture			
a.	Digital Camera	20000.00	20000.00	20000.00
b.	Office Furniture	100000.00	100000.00	100000.00
c.	Furniture of Farmers' Hostel	200000.00	200000.00	200000.00
d.	Xerox Machine	100000.00	100000.00	100000.00
e.	Integrated farming system	200000.00	200000.00	200000.00
3	Vehicle			
4	Library	10000.00	10000.00	10000.00
	TOTAL (B)	630000.00	630000.00	630000.00
C. REVOLVING FUND				
	GRAND TOTAL (A+B+C)	5030000.00	5030000.00	5025773.00

Year : 2010-11

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	35,00,000.00	33,53,952.00	33,14,372.00
a.	Arrear	79,70,000.00	79,70,000.00	79,71,550.00
2	Traveling allowances	2,00,000.00	2,00,000.00	2,00,000.00
3	Contingencies	9,23,500.00	9,23,500.00	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			195034.00
B	POL, repair of vehicles, tractor and equipments			99955.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			72750.00
D	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			312000.00
E	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			70500.00
F	Maize Production (Separate sanction but included here with)			23500.00
G	Maintenance of buildings			73995.00
H	Campus activities (charge of casual labour)			21392.00
I	Others:			
1.	Literature publication			2000.00
2.	Instructional Farm			9800.00
3.	Nutritional week			10000.00
4.	Survey work			8500.00
	Total (A)	12593500.00	12447452.00	12385348.00
B. Non-Recurring Contingencies				
1	Works(Staff quarter)	2600000.00	2600000.00	2600000.00
2	Equipments including SWTL	1400000.00	1400000.00	1400000.00
TOTAL (B)		4000000.00	4000000.00	4000000.00
GRAND TOTAL (A+B)		16593500.00	16447452.00	16385348.00

7.5 Status of revolving fund (In Rs.) for the three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2008 to March 2009	91390	121305	102215	110480
April 2009 to March 2010	110480	120377	112090	118767
April 2010 to March, 2011	118767	40258	Nil	159025

8.0 Please include information which has not been reflected above (write in detail).

8.1 Constraints

a) Administrative

1. Poor co-ordination of other line department/Passive response from line Departments
2. Lack of entrepreneurship and achievement motivation among the farmers.
3. Difficulties of staff mobility in the interior hill areas because of hilly terrain & topography
4. Most of the farmers are jhumias, resource poor and illiterate

(b) Financial

1. Untimely release of fund.
2. Insufficient amount of fund for mandatory activities.

(c) Technical

1. Limited use of modern farm machineries because of land feature.

District Profile – I

1. General census

Sl. NO.	Name of Sub-Division	Hd. Quarter	Population			No. of Villages
			Male	Female	Total	
1.	Mao-Maram	Tadubi	37080	32051	69131	74
2.	Paomata	Paomata	13649	13416	27065	20
3.	Purul	Purul	15589	15323	30912	27
4.	Sadar Hill West	Kangpokpi	30981	29964	60945	122
5.	Saitu Gamphazol	Gamnong Sapermeina	23119	21011	44130	161
6.	Sadar Hill East	Saikul	26130	25308	51438	221
	Total		146548	137073	283621	625

2. Agricultural and allied census

District : Senapati				
Sl. No.	Crop	Area ('000 ha)	Production ('000 tones)	Yield (kg/ha)
1.	Paddy	25.20	53.69	2130.56
2.	Maize	1.21	3.21	2652.89
3.	Pulses	2.00	1.53	760.00
4.	Oil Seeds	2.94	2.40	810
5.	Potato	0.21	1.72	8190
1.	Pineapple	255	2074	8.13
2.	Banana	415	2713	6.45
3.	Lime/Lemon	159	1086	6.83
4.	Orange	286	2079	7.27
5.	Passion fruit	3068	24082	7.85
6.	Others fruits	1890	9095	4.81
1.	Cauliflower	42	305	7.26
2.	Cabbage	380	3895	10.25
3.	Tomato	57	557	9.77
4.	Pea	310	3052	9.84
6.	Others	175	1319	7.54
1.	Chillies	980	5096	5.20
2.	Ginger	120	1190	9.92
3.	Turmeric	84	786	9.36
4.	Others	35	139	3.97

Sl. No.	Livestock	Senapati District (Total)
1.	Cattle	73,159
2.	Buffaloes	25,922
3.	Sheep	3,717
4.	Goat	12,882
5.	Pig	1,37,775
6.	Mithun	873
7.	Horses & Ponies	433
8.	Poultry	4,23,716
9.	Dog	20,797
10.	Other livestock	12
Total		6,99,286

3. Agro-climatic zones :

S. No	Agro-climatic Zone	Characteristics
1.	Temperate Sub-alpine Zone	The agro-climate of the region is characterized by warm summer and cool winter. The major soil formation in the area include shallow to very deep, loamy, lateritic, red and yellow soils.
2.	Mild Tropical Hill Zone	

4. Agro-ecosystems :

No	Agro ecological situation	Characteristics
1.	North-Eastern Hill (Purvanchal) warm per humid, eco region	Warm to hot per humid Eco Sub region with medium to deep loamy Red and Yellow soils, low to medium. Available water holding capacity and length of growing period 300 days.
2.	Purvanchal eastern range	

5. Major and micro-farming systems :

No	Farming systems identified
1.	Agriculture (monoculture) - Major
2.	Agriculture (Mixed) - Major
3.	Livestock + Agriculture
4.	Agro-forest
5.	Agri + Horti + Livestock

6. Major production systems like rice based, oilseed based and maize based production system.

7. Major agriculture and allied enterprises

- i. Poultry
- ii. Piggery
- iii. Vermi-composting
- iv. Goatry
- v. Fruit processing
- vi. spices processing
- vii. Oil processing

Agro-ecosystem Analysis of the focus/target area - II

1. Names of villages, focus area, target area etc.

Sl.No.	Taluk	Name of the block	Name of the village	Focus Area	Target area
1.		Kangpokpi T.D. Block	Changoubung South	Rice, maize, Calorasia, Potato, piggery, Tree bean.	Crop diversification
2		- do -	Phoibung	Rice, maize, Potato, piggery, Tree bean	Integrated farming & introduction of improved variety of crops
3		- do -	Mayangkhang	Rice, Maize, bean, banana, Duckery piggery.	Soil & water conservation, production of locally available feed crop
4		- do -	Mayangkhang Khunou	- do -	- do -
5		- do -	Bongmol	Rice, maize, yam/Tapioca, banana, piggery, dairy & winter vegetables	Crop diversification & Integrated farming
6		- do -	West Haipi	Rice, maize, mango, citrus, piggery, poultry, tree bean, ginger	- do -
7		- do -	Saikotjang	- do -	- do -
8		- do -	T. Khullen	Rice, Maize, bean, banana, duckery piggery.	Soil & water conservation, production of locally available feed crop
9		- do -	Gopibung	Rice, maize, tree bean, banana, passion fruit, piggery, pulses, Tapioca	Fruit processing, integrated farming system
10		- do -	K. Songtun	- do -	- do -
11		- do -	M. Ningthoupham (Upper)	Rice, Maize, bean, banana, Duckery piggery.	Soil & water conservation, production of locally available feed crop, vermin-composting
12		- do -	M. Ningthoupham	- do -	- do -
13		- do -	Kailenjang	Rice, maize, tree bean, banana, passion fruit, piggery, pulses, Tapioca	Integrated farming system, introduction of drought resistant crops.
14		- do -	Gilgal	Rice, maize, diary, Tapioca, yam, piggery, King chilli, Potato.	Integrated farming system, introduction of silage making technique.
15		- do -	L. Moulshang	Rice, maize, winter vegetables, pulses, ginger, livestock farming , fruit crops.	Watershed based farming system & Mass production of planting materials.

2. Survey methods used (survey by questionnaire, PRA, RRA, etc.)

- Various PRA techniques were used alongwith semi structure questionnaire to gather information regarding farming system, farmers background, natural resource etc.

3. Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc

- 15 nos. of PRA techniques like resource mapping and observatory walks exercise by the villagers and facilitated by the staff of KVK-Sylvan into two groups in each village.

Signature,
Programme coordinator, KVK-Sylvan, Senapati, Manipur