### ANNUAL REPORT - Oct. 2009 - March 2010

### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
KVK Yisemyong Post Box No-23	OFFICE 0369-2226537	FAX 0369-2227627	kvkmokokchung@gmail.com
Mokokchung Nagaland	0000 2220001		kvkyisemyong@rediffmail.com

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

Address	Telephone		E mail
	Office	FAX	
Directorate of Agriculture	0370-2243116	0370-2243970	agrilandkvk@rediffmail.com
Nagaland Kohima			

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

1.5. Name of the Frogram	1.5. Name of the Frogramme Coordinator with phone & mobile No				
Name		Telephone / Contact			
	Residence	Mobile	Email		
S. SOSANG JAMIR	0369/2228567	9436006351	sosangjamir@yahoo.in		

1.4. Year of sanction : 2003

1.5. Staff Position (as on 30th September 2007)

SI. 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	S. Sosang Jamir	I/C Programme Coordinator	Agronomy	-	-	18.06.03	Temporary	ST
2	Subject Matter Specialist	Renbomo Ngullie	SMS (Horticulture)	Horticulture	15600 + 5400	17550 + 5400	24.05.06	Temporary	ST
3	Subject Matter Specialist	Akangtemjen	SMS (Entomology)	Entomology	15600 + 5400	17550 + 5400	24.05.06	Temporary	ST
4	Subject Matter Specialist	Dr. Rongsensusang	SMS (Vety. &AH)	Vety & AH	16380 + 5400	18420 + 5400	24.05.06	Temporary	ST
5	Subject Matter Specialist	Samuel Sangtam	SMS (Agronomy)	Agronomy	15600 + 5400	17550 + 5400	24.05.06	Temporary	ST
6	Subject Matter Specialist	Bendangjungla	SMS (PB &G)	PB &G	15600 + 5400	17550 + 5400	24.05.06	Temporary	ST
7	Subject Matter Specialist	Royuso Nakhro	SMS (Extension)	Agri. Extension	15600 + 5400	16880 + 5400	13.11.07	Temporary	ST
8	Programme Assistant	Moainla	Programme Asstt		10230 + 4200	11580 + 4200	24.05.06	Temporary	ST
9	Computer Programmer	I.Tangitla	Programme Asstt (Computer)		10230 + 4200	11580 + 4200	24.05.06	Temporary	ST
10	Farm Manager	Jweni Semp	Programme Asstt	-	10230 + 4200	11120 + 4200	07.11.07	Temporary	ST
11	Accountant / Superintendent	Meyatula	Office Supt-cum- Accountant		10230 + 4200	11580 + 4200	01.06.03	Temporary	ST
12	Stenographer	Imosangla	Jr. Steno-cum- Computer Operator		7440 + 2400	8370 + 2400	01.06.03	Temporary	ST
13	Driver-cum- Mechanic	Supongmeren	Driver		5680 + 1900	6400 + 1900	01.01.05	Temporary	ST
14	Driver-cum- Mechanic	Bejamin Rai	Driver		5680 + 1900	6400 + 1900	01.01.05	Temporary	SC
15	Supporting staff	Imkonglemla	Supporting staff		4750 + 1300	5330 + 1300	01.04.04	Temporary	ST
16	Supporting staff	Wati Ao	Supporting staff		4750 + 1300	5330 + 1300	01.06.03	Temporary	ST

### 1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	0.2
2.	Under Demonstration Units	0.2
3.	Under Crops	3 (Instructional Farm)
4.	Orchard/Agro-forestry	1 ha
5.	Others (specify)	18.6

### 1.7. Infrastructural Development:

A) Buildings

	. ,, <b>g</b> -	Source	Stage					
s.		of		Complete		Incomplete		ete
No.	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	20.06.09	400	53.5 lakhs	28.09.07	400	completed
2.	Farmers Hostel	- do -	NA			NA	200	NA
3.	Staff Quarters (6)	- do -	NA			NA	100	NA
4.	Demonstration Units (2)	- do -	NA			NA	20	NA
5	Fencing	- do -	NA			NA	177	NA
6	Rain Water harvesting system		NA			NA		
7	Threshing floor		NA			NA		
8	Farm godown		NA			NA		

### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Marshall	2005	5.4 lakhs	76,000 km	Need replacement

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
1. Computer	2004	70000	Good
2. Sound system	2005	60000	Good
3. Digital camera	2004	70000	Unserviceable
4. OHP	2004	5000	Good
5. Laptop	2008	37,000	Good
6. Video Camera	2008	16,000	Good
7. Photocopier	2010	1,20,000	Good
8. Video camera	2010	18,000	Good
9. Computer	2010	45,000	Good

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

1. A.Y. Ovung, Director(Agri), & SNO 2. T.V. Holo, Jt. Director (Agri)  1. 27/08/09 3. Dr. Deepak Chetri, Dy. Director (Agri)	Approval of all the publications  Name of local check varieties to	All the
4. T.Achim Yim, PEX AIR Mokokchung 5. Tsuknungtemjen , HO, DHO 6. Dr. meren, DVO 7. Imrong, DHO Mokokchung 8. Yashi Jamir, DFO 9. N. Tekatushi Ao, Jt.Dir. SARS 10. Dr. I. Amenla, LTO, Agri 11. S.Bendangtemsu, DAO Mkg 12. T. Marchiba Jamir, Nagaland Banana chips, Changtongya 13. Bendang T. Jamir, DSO(Seri) 14. Lily Tep, SDO (Soil) 15. T. Wathy Jamir, Junior Engineer 16. K.V. Rajendranath, Project Officer	be indicated.  Attention to be focused on sericulture  Presentation of Annual Report 2009-10 and Action Plan 20010-11	recommendations were finalized and will be implemented during 2011-12

<sup>\*</sup> Attach a copy of SAC proceedings along with list of participants

### 2. DETAILS OF DISTRICT (2006-07)

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

S. No	Farming system/enterprise
1	Agriculture +Horticulture
2	Agriculture + Veterinary
3	Agriculture + Fishery
4	Agriculture + Horticulture + Veterinary + Fishery

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

SI. No	Agro-climatic Zone	Characteristics
1	Mid Tropical hill Zone	<ul> <li>Hot and humid in the foot hills to moderate in the mid and high with heavy rainfall during summer</li> </ul>
		ii. Moderate to extreme cold and dry in higher altitude during winter

SI. No	Major agro ecological situations	Characteristics
1	AES - 1 (Below 500 msl)	Hot & Humid with sub tropical climate
2	AES – II (500-1000 msl)	Moderate, sub-montane hill zone
3	AES – III (1000-1500 msl)	Moderate to extreme cold and dry during winter
4	AES - IV (Above 1500 msl)	Moderate to extreme cold and dry during winter

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
		20-35% clay	1,20,000
1	Sandy clay loam	28% silt	
		45% more sand	
		pH 4-5	
		27-40% clay	40,000
2	Clay Loam	20-45% sand	
	•	Medium organic matter	
		pH 4-5	
3	Forest Soil	Broad leaves rain forest, evergreen, temperate climate, high organic matter, dark brown soil with pH 4	50

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

SI.No.	Crop	Area (ha)	Production (QtI)	Productivity(Qtl/ha)
1	Jhum paddy	11390	246400	21.63
2	TRC paddy	4960	153000	30.84
3	Maize	1028	16345.2	15.9
4	Tapioca	1050	308910	294.2
5	Mustard	795	5000	06.3
6	Tomato	28	7600	271.4
7	Potato	125	9375	75
8	Colocassia	1500	1,80,000	120
9	Passion fruit	908	63560	70
10	Orange	460	20700	215
11	Banana	270	3888	144.4
12	Pineapple	340	238000	700
13	Pear	16	3500	218.7
14	Tea	520	3120	6 (made tea)
15	Arecanut	44	600	15

### 2.5. Weather data

Month	Rainfall (mm)		Temperature <sup>0</sup> C	Relative Humidity (%)
		Maximum	Minimum	
Oct	298	26.4	16.8	76.4
Nov	15.3	22.83	12.83	69.73
Dec	nil	19.3	9.2	69
Jan	nil	20.3	9.1	52.1
Feb	3.5	21.9	10.6	45.3
March	453.5	25.6	15	62.5

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

Category	Population	Production	Productivity	
Cattle	· · · · · · · · · · · · · · · · · · ·	•	<u>.</u>	
Crossbred	2125	29.87 tons	6 litrs/day	
Indigenous	1437	-	-	
Buffalo				
Sheep				
Crossbred	-	-	-	
Indigenous	NA			
Goats	3278	14.75 tons	9 kg/year	
Pigs				
Crossbred	81,345	2870 tons	110 kg/year	
Indigenous				
Rabbits	NA			
Poultry				
Hens	1,01,287	3000	20 eggs/year	
Desi	20,12,325	1042 tons	1.1 kg/8 months	
Improved				
Ducks	491	290 kg	1 kg/6 months	
Turkey and others				

Category	Area	Production	Productivity
Fish			
Marine			
Inland		10 tons	1 kg/year
Prawn			
Scampi			
Shrimp			

2.6 Details of Operational area / Villages (2008-09)

2.6	Details	s of Operational area	/ Villages (2008-09)			
No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1		Ongpangkong (N)	Ungma, Mokokchung village,	Paddy, Maize, Tapioca Ginger, Passion fruit Tea, Piggery, Poultry, weaving	Low productivity due to non adoption of improved technology, Majority of the farmers involved in cultivation of mix crops, lack of awareness on potentialities of floriculture, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, lack of proper infrastructure and marketing network	Create awareness on fallow management and jhum intensification, Cultivation of both kharif and rabi vegetables, production of passion fruit, ginger, tapioca, tea on commercial scale, popularization of floriculture, handloom and handicraft, promotion of infrastructures and marketing network
2		Opangkong (s)	Chungtia Aliba	Paddy, Maize, Tapioca Cucumber, Passion fruit, Ginger, Orange	Low productivity due to non adoption of improved technology, Indiscriminate use of inorganic products in cucumber cultivation, lack of awareness on INM, lack of upgrade dairy breeds, inadequate availability of fodder, insect pest problem, lack of extension activities	Create awareness on fallow management and jhum intensification, Organic Off season cucumber cultivation, development of dairy and fodder crops, production of orange.
3		Kobulong	Mopungchuket Sungratsü	Paddy, Tapioca, Maize Passion fruit, ginger, Banana, Piggery, Poultry, Dairy, Sericulture	Low productivity due to non adoption of improved technology, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, pest /disease problem in crops and silkworm, lack of processing unit and marketing, lack of spinning & weaving centers, lack of awareness on citronella cultivation, Inbreeding, disease and nutrition in piggery	Create awareness on fallow management and jhum intensification, To increase productivity of passion fruit, ginger and vegetables, promotion on spinning and weaving centre of sericulture, popularization of citronella cultivation, awareness on breeding programme, prevention and control of disease, scientific feeding management
4		Changtongya	Chuchuyimlang Mongsenyimti	Paddy, Tapioca, Maize, Collocasia, banana, Orange, Pineapple Tea, piggery, Poultry, Fishery	Low productivity due to non adoption of improved technology, lack of awareness on value addition products, insect pest and disease problem, poor transportation and marketing facilities, lack of upgraded breeds and health centre	Create awareness on fallow management and jhum intensification, To increase production of banana, tapioca, orange, pineapple, development of tea, arecanut, betel vine, improvement of piggery, fishery and sericulture,
5		Mangkolemba	Chungtia Yimsen Longnak	Paddy, Maize, Tapioca, Orange, Pineapple, Arecanut, Tea, betel vine, fishery, cattle, piggery	Unavailability of HYV ( lowland paddy), Lack of knowledge on improved method of cultivation, lack of processing unit, insect pest and disease problem, lack of awareness on INM, poor skill in fishery pond management, financial constraint to take up in commercial scale, inadequate availability of ploughing bullock, swine diseases	Promotion of HYV (paddy), production of oilseed and pulses, production of orange, pineapple, arecanut, tea and fish. Breeding programme for cattle and training of draught animals, prevention & control of swine diseases
6		Longchem	Yachang (C) Aonokpo	Paddy, Tapioca, Maize, colocassia, Arecanut, betel vine, cattle, piggery	Unavailability of HYV ( lowland paddy), Lack of knowledge and awareness on improved method of cultivation on plantation crops, lack of processing unit, lack of awareness on INM, financial constraint for commercial cultivation, inadequate availability of ploughing bullock, swine diseases	Promotion of HYV (paddy), Commercial cultivation of arecanut, tea, rubber, betel vine, colocassia, orange, production of oilseeds and pulses, Breeding programme for cattle and training of draught animals, prevention & control of swine diseases

2.7 Priority/thrust areas

Crop/Enterprise	Thrust area
Paddy	Crop production
Oilseeds	Crop production and management
Pulses	Crop production and management
Passion fruit	Increase productivity
Orange	Orchard management
Arecanut	Increase production
Tapioca	Soil and water conservation
Piggery	Breed and health management
Poultry	Feed and housing management
Apiculture	Honey and wax sheets production

### 3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during Oct 2009-March 2010

OFT (Technology Assessment and Refinement)				FLD (O	FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)				
	1				2				
Nur	Number of OFTs		Number of Farmers		Number of FLDs		er of Farmers		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
4	3	12	9	2	3	14	17		

Training (inclu		ored, vocational an ainwater Harvestin	Extension Activities  4					
		3						
Number of Courses			Numb	er of Participants	Numb	er of activities	Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievem ent
Farmers					32	27	810	755
Rural youth					11	9	270	250
Extn. Functionaries					6	5	121	76

Seed	Production (Qtl.)	Planting	material (Nos.)	
	5	6		
Target	Achievement	Target	Achievement	
46.02	32	6500	5000	

3.B. Abstract of interventions undertaken

						Intervent	ions		
S. No	Thrust area	Crop/ Enterpr ise	Identified Problem	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personne I if any	Extensio n activities	Supply of seeds, planting material s etc.
1	Use of moisture stress tolerant and HYV oilseed crop	Toria	Poor yield performance of traditional var. and poor managemental practice	Performance trial on paddy straw Mulching		Cultivatio n of high yielding Toria crop		Field day	Seeds
2	Increase production of vegetable	Broccoli	Poor production and less aware about high value vegetables	Effect of different mulching materials		Cultivatio n of HYV variety		Field day	Seed
3	Promote use of local feed	Piggery	High cost of concentrate feeds	Incorporatio n of Dried Tapioca in the ration of Growers and Finishers					Piglets
4	Increase Production and productivity	Tomato	Poor management and low production		Cultivation of high yielding variety			Field day	Seed
5	Increase production of pulse crop	Pea	Low production and productivity		Cultivation of HYV			Field day	Seed
6	Increase production and productivity	Toria	Use of poor traditional var. leads low yield		Cultivation of high yielding and late sow variety			Field day	Seed

### 3.1 Achievements on technologies assessed and refined

# A.1 Abstract of the number of technologies **assessed\*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal				_				_		
Evaluation										
Seed / Plant										
production										
Weed					1					1
Management										
Integrated										
Crop Management										
Integrated										
Nutrient										
Management										
Integrated										
Farming										
System										
Mushroom										
cultivation										
Drudgery reduction										
Farm										
machineries										
Value addition										
Integrated Pest										
Management										
Integrated										
Disease										
Management										
Resource										
conservation										
technology										
Small Scale										
income										
generating										
enterprises TOTAL					1					1
TOTAL					1					1

# A.2. Abstract of the number of technologies **refined\*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant										
production										
Weed		1								1
Management										
Integrated Crop										
Management										
Integrated Nutrient										
Management										
Integrated										
Farming System										
Mushroom										
cultivation										
Drudgery										
reduction										
Farm machineries										
Post Harvest										
Technology										
Integrated Pest										
Management										
Integrated										
Disease										
Management										
Resource										
conservation										
technology										
Small Scale										
income generating										
enterprises										
TOTAL		1								1

A.3. Abstract of the number of technologies assessed in respect of livestock / enterprises :NA

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder					1			1
Small Scale income generating enterprises								
TOTAL					1			1

A.4. Abstract on the number of technologies **refined** in respect of livestock / enterprises: NA

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and								
Management								
Feed and Fodder								
Small Scale income								
generating enterprises								
TOTAL								

#### B. Details of each On Farm Trial to be furnished in the following format

A. Technology Assessment
Trial 1

1) Title : Performance trial on use of paddy straw as Mulch material

2) Problem diagnose/defined : Low production and poor managemental practices

3) Details of technologies : TS - 36

selected for refinement Local (farmers practice)
Source of technology : RARS, Shillongani

5) Production system : Rainfed paddy based system (Jhum and lowland paddy)

thematic area

4)

6) Thematic area : Resource conservation

7) Performance of the : As per the record, TS-36 yield 7.9 qt/ha, with Technology with performance 36% increase in yield over traditional variety

indicators

8) Final recommendation for : TS -36 may be grown in place of local varieties after paddy

micro level situation under rainfed condition

9) Constraints identified and : Less popular among farmers due to non availability of irrigation

feedback for research facilities and lack of managemental knowledge. Introduction of HYV and create

awareness on improved cultivation practices

10) Process of farmers : Farmers shown their active participation with much enthusiasm

participation and their reaction and know the importance of mulching

11). Results of On Farm Trials

Crop / enter prise	Farmin g situatio n	Proble m Diagno sed	Title of OFT	No. of trial s*	Technolog y Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Toria	Rainfed	Low producti vity of local varietie s	Performan ce trial on use of paddy straw as Mulch material	3	TS -36 Local (farmers practice)	- Plant height - No. of Branches - Yield	<ul> <li>Ave.36 cm</li> <li>Ave. 14 nos.</li> <li>7.9 qt. (36% increased)</li> </ul>	Better than the local (checked 5.8 qt).	Though the season was very dry compared to other years, the yield performance was satisfactory

Technology Assessed	*Production per unit (Kg/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
TS -36	790	19500	1:3
Local (farmers practice)	580	13400	1:2.2

Trial 2

8)

1) Title : Effect of different mulching on growth and yield of Broccoli

2) Problem diagnose/defined : Low yield due to moisture stress and weed infestation

3) Details of technologies : White polythene sheet, thatch, paddy, straw black polythene sheet, jute cloth, control

selected for assessment

4) Source of technology : AAU, Jorhat

5) Production system: Rainfed paddy based system

thematic area

6) Thematic area : Mulching

7) Performance of the : Mulching with black poly sheet recorded the best result in all the parameters.

Technology with While the lowest was obtained from control (no mulching)

performance indicators

micro level situation

Final recommendation for: Black poly sheet should be recommended as a mulching material as it not only

conserve moisture but also restrict entry of light to the crop zone and thereby

suppresses weed growth

9) Constraints identified and : Non availability of good quality polythene sheets

feedback for research

10) Process of farmers: Farmers participated actively throughout the cropping period and after seeing

participation and the performance of the crop they were convinced about the effect of mulching their reaction materials and wanted to take up in layer area, provided they get a good quality

polysheet that will last longer

### 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	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Broccoli	Rainfed	Low yield due to moisture stress and weed infestation	Effect of different mulching on growth and yield of Broccoli	3	White polythene sheet, thatch, paddy, straw black polythene sheet, jute cloth, control (no mulching)	Plant height, head size, heat cut, no. of leaves, yield	36.7cm, 22cm, 6.56 kg, 14.4, 165.92q/ha	Black polysheet mulch superior than other mulching materials	Famers were convinced and decided to use black polysheet mulching material for large scale production

Technology Assessed	*Production per unit (Kg/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
White polythene sheet, thatch, paddy, straw black polythene sheet, jute cloth,	16592 kg/ha (black polysheet)	183880	1:3
Control (no mulching)	13185 kg/ha	142775	1:2

1) Title : Incorporation of Dried Tapioca in the ration of Growers and Finishers (Pigs)

2) Problem diagnose/defined : High cost of concentrate feeds

3) Details of technologies

selected for assessment : Tapioca is a very popular tuber crop in Mokokchung district, and these tubers

have traditionally been feed to pigs by the farmers. But since it cannot be the sole ingredient in a balanced diet the level of its addition for achieving good growth rate is required. Addition of dried tapioca at the rate of 40% in the ration

of growers and finishers was assessed.

4) Source of technology : Department of Vety and AH, Pig Breeding Centre Merangkong.

5) Production system : Semi Intensive system of Production

6) Thematic area : Growth performance of pig fed with ration containing 40% dried

tapioca.

7) Performance of the

Technology with

performance indicators : Results showed that in a period of 12 months the live weight of the pigs were

127 Kg, where as in the control it was 123 kg.

8) Final recommendation for

micro level situation : Dried tapioca can be added in the ratio of growers and finisher at the rate of 40%.

9) Constraints identified and

feedback for research : Lack of facilities for bulk drying of tapioca, sun drying limits the production

10) Process of farmers participation and

their reaction

: After selection of the farmers, orientation training was conducted separately for the farmers of the two villages. During the training knowledge on the importance of feed and nutrition was imparted with special attention on adding tapioca in the ration. A practical demonstration on feed computation was also done along with the farmers so that they will be able to compute the ration themselves. The farmers were thoroughly made aware of the aims and objectives of the programme. A record book for each farmer was given to them

and was taught on how to maintain and update the records.

### 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	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Piggery	Semi Intensive	High cost of concentrate feeds	Incorporation of Dried Tapioca in the ration of Growers and Finishers	12	Traditional system 40% dried tapioca	Growth rate in body weight (Kg)	*123 Kg *127 Kg	Growth performance is slightly higher than the traditional/present system of production in which wheat bran is a major component	Lack of drying facilities

### \* Body weight in 12 months

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
Traditional system	123 Kgs in 12 months	12300	1.64
2. Ration with 40% dried tapioca	127 kgs in 12 months	12700	1.95

#### 3.2 Achievements of Frontline Demonstrations

a. 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.	Crop/	Thematic Area*	Technology	Details of popularization	Horizontal	spread of techn	ology
No	Enterprise		demonstrated	methods suggested to	No. of	No. of	Area
				the Extension system	villages	farmers	in ha
1	Toria	Production and management	TS-38	Withstand more moisture stress compared to local varieties and gave high yield	3	8	2
2	Soybean	Pulses production	JS- 335	High yield, economic potential, enhances soil fertility	2	4	1

b. Details of FLDs implemented during 2008-09 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

SI. No	Crop Thematic area		Technolog y Demonstr	Season and year				No. of farmers/ demonstration			
			ated		Proposed	Actual	SC/ST	Others	Total		
1	Tomato	High value vegetable productio n	Megha -1	Rabi	2	1	6		6	-	
2	Pea	Crop production and management	Azad	Rabi	2	1	4		4	Irrigation problem	
3	Toria	Crop productio n and managem ent	TS-38	Rabi	2	1.5	6		6	Irrigation problem	

Details of farming situation

Crop	Season	Farming situation tF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	rvest date	onal rainfall (mm)	o. of rainy days
		(R. S.	0,	N	Р	К	Pre	တိ	Har	Seas	No.
Tomato	Rabi	RF	Silt loam	1.89%	10.5 kg/ha	135 kg/ha	Paddy	22/10/09	-	300	2
Pea	Rabi	RF	Silt loam	2.2%	8.6 kg/ha	136 kg/ha	Paddy	14/10/09	-	u	6
Toria	Rabi	RF	Silt loam	1.95%	9.6kg/h a	152 kg/ha	Paddy	27/10/09	-	и	1

Performance of FLD

SI .N	Crop	Technol ogy Demonst	Variety	No. of Farmer	Area (ha.)	Dem	o. Yield	Qtl/ha	Yield of local Check	al e in	to technology demonstrated	
0		rated		S	, ,	Н	L	Α	Qtl./ha	(%)	Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Tomat o	Megha-1	Megha- 1	6	1	390	320	355	204	74	Plant height- 37.30cm Girth of fruit- 14.67cm Weight of fruit- 52.5gm Yield/ha- 355 qt /ha	Plant height- 48.33cm Girth of fruit- 11.33cm Weight of fruit-37gm Yield/ha- 204qt/ha

2	Pea	Azad	Azad	6	1.5	9.8	9.1	9.45	8.4	11.11	Plant height- 48 No. of pods/plant-32	Plant height- 52 No. of pods/plant-24
3	Toria	TS -38	TS -38	3	1.5	6.2	5.4	5.8	5.1	12.06	Plant height- 38 cm Branches/plan t -5	Plant height- 36 Branches/plant- 4

### NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

Average Cost of o (Rs./ha)		Average Gross Retu	rn (Rs./ha)	Average Net Retu (Rs./ha)	Benefit-Cost Ratio (Gross	
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	Return / Gross Cost)
14	15	16	17	18	19	20
65000	50000	355000	204000	290000	154000	1:5.5
9000	7200	28350	25200	19350	18000	1:3.2
9000	7800	23200	20400	14200	12600	1:2.6

Analytical Review of component demonstrations (details of each component for rainfed / irrigated situations to be given separately for each season).

Technical Feedback on the demonstrated technologies

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Tomato	Rabi	1. Seed/Variety- megha-1	Rainfed	355	204	74
		2. Bio-fertilizer				
		Fertilizer management				
		4. Plant Protection				
		5. Combination of components				

Technical Feedback on the demonstrated technologies

T COTTITIO	recrifical recuback of the demonstrated technologies						
S. No	Feed Back						
1	Can be grown as commercial vegetables only if irrigation problems can be overcome						
2	Good economic returns crop						

Farmers' reactions on specific technologies

Tarriere redesterie en e peeme teermelegree						
S. No	Feed Back					
1	Farmers prefer fruit size and its more juice contents					
2	Proper management require experiment skills					

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Pea	Rabi	1. Seed/Variety- Azad	Rainfed	9.45	8.4	12.5
		2. Bio-fertilizer				
		3. Fertilizer management – 20:40:20 (NPK kg/ha)				
		4. Plant Protection - Bavistin				
		5. Combination of components				

Technical Feedback on the demonstrated technologies

S. No	Feed Back			
1	As crop rotation after paddy instead of leaving the field fallow			
2	Require less managemental practices			

Farmers' reactions on specific technologies

	. airriolo redeticito eri operano tecimiciografi					
S. No	Feed Back					
1	Earn good return					
2	Require stalking for better yield					

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Toria	Rabi	1. Seed/Variety- TS - 38	Rainfed	5.8	5.1	13.70
		2. Bio-fertilizer				
		3. Fertilizer management – 25:30:15 (NPk kg/ha)				
		4. Plant Protection – Rogor @ 1ml/lit of water against aphid				
		5. Combination of components				

Technical Feedback on the demonstrated technologies

S. No	Feed Back						
1	Can withstand more moisture stress compared to local						
2	Late sown variety and suitably suit crop rotation						

Farmers' reactions on specific technologies

S. No	Feed Back
1	Get sufficient time for field preparation after Jhum Paddy harvest
2	Withstand lodging and accommodate more plants giving higher yield

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	6	12/12/09, 08/01/10, 20/02/10	200	Farmers were satisfied by imparted knowledge through seeing is believing at their own field
2	Farmers Training	3	04/10/09, 25/09/09 11/10/09	75	Four major enterprises were conducted
3	Media coverage	5			News paper coverage, Radio talk
4	Training for extension functionaries	2	06/10/09,30/10/09 03/11/09	13	Improved technologies,

# c. Details of FLD on Enterprises: NA

(i) Farm Implements

Name of the	crop	No. of	Area	Performance parameters /	* Data on par relation to te demonst	chnology	% change in the	Remarks
implement		farmers	(ha)	indicators	Demon.	Local check	parameter	

### (ii) Livestock Enterprises: NA

Enterprise	Breed	No. of	No. of animals, poultry	Performance parameters /	* Data on par relation to te demonst	chnology	% change in the	Remarks
		farmers	birds etc.	indicators	Demon.	Local check	parameter	

### (iii) Other Enterprises: NA

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Performance parameters / indicators	Data on pa in relati techno demons	on to logy	% change in the parameter	Remarks
				indicators	Demon.	Local check	parameter	
Mushroom								
Apiary								
Sericulture								
Vermi compost								

### 3.3 Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit) :

### A: ON Campus

Thematic area	No. of	Participa	ints							
	courses	Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1				12	13	25	12	13	25
Resource Conservation Technologies	1				10	15	25	10	15	25
Cropping Systems Crop Diversification										
Integrated Farming										
Water management										
Seed production										
Nursery management										
Integrated Crop										

Management   Fodder production   Fodder production of organic inputs   Fodder production of low   Fodder production of low volume and high value crops   Forduction of low volume and high value crops   Fodder production of low volume and high value crops   Fodder production of low volume and high value crops   Fodder production of low volume and high value crops   Fodder production	25
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addition	
f) Spices	1
Production and	1
Management	
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Processing and value	
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g) Medicinal and	
Aromatic Plants	<del>                                     </del>
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Production and management	
management technology	
Post harvest	+
technology and value	
addition	
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Fertility Management	
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management	
Soil and Water	
Conservation	1
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techniques   Value addition   Income generation activities for empowerment of rural Women   Location specific drudgery reduction technologies   Rural Crafts   Income generation activities for empowerment of rural Women   Income generation   Incom										
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Nomen										
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technologies   Rural Crafts										
Rural Crafts  Women and child care  VI Agril. Engineering Installation and maintenance of micro irrigation systems Use of Plastics in farming practices 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 Disease Management  Bio-control of pests and diseases Production of bio control agents and bio pesticides  VIII Fisheries										
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Use of Plastics in farming practices 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 Integrated Disease Integrate										
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Repair and maintenance of farm machinery and implements  Small scale processing and value addition  Post Harvest Technology  VII Plant Protection  Integrated Pest Management  Integrated Disease Management  Bio-control of pests and diseases  Production of bio control agents and bio pesticides  VIII Fisheries										
maintenance of farm machinery and implements  Small scale processing and value addition  Post Harvest Technology  VII Plant Protection  Integrated Pest Management  Integrated Disease Management  Bio-control of pests and diseases  Production of bio control agents and bio pesticides  VIII Fisheries				1						
machinery and implements  Small scale processing and value addition  Post Harvest Technology  VII Plant Protection  Integrated Pest 1 12 13 25 12 13 25 Management  Integrated Disease 1 13 12 25 13 12 25 Management  Bio-control of pests and diseases  Production of bio control agents and bio pesticides  VIII Fisheries										
implements Small scale processing and value addition   Post Harvest Technology Technology   VII Plant Protection Integrated Pest Management 1   Integrated Disease Management 1   Bio-control of pests and diseases 1   Production of bio control agents and bio pesticides 1   VIII Fisheries VIII Fisheries										
Small scale processing and value addition  Post Harvest Technology  VII Plant Protection  Integrated Pest Management  Integrated Disease Management  Bio-control of pests and diseases  Production of bio control agents and bio pesticides  VIII Fisheries										
and value addition  Post Harvest Technology  VII Plant Protection  Integrated Pest Management  Integrated Disease Management  Bio-control of pests and diseases  Production of bio control agents and bio pesticides  VIII Fisheries	Small scale processing			<u> </u>						
Post Harvest Technology  VII Plant Protection  Integrated Pest Management  Integrated Disease Management  Bio-control of pests and diseases Production of bio control agents and bio pesticides  VIII Fisheries										
Technology  VII Plant Protection  Integrated Pest				1						
VII Plant Protection  Integrated Pest Management  Integrated Disease Management  Bio-control of pests and diseases Production of bio control agents and bio pesticides  VIII Fisheries										
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Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides VIII Fisheries		_	1	†	12	13	25	12	13	25
Integrated Disease Management  Bio-control of pests and diseases  Production of bio control agents and bio pesticides  VIII Fisheries		1						'-		
Management Bio-control of pests and diseases Production of bio control agents and bio pesticides VIII Fisheries	Integrated Disease	_		1	13	12	25	13	12	25
Bio-control of pests and diseases  Production of bio control agents and bio pesticides  VIII Fisheries		1						.,		_~
and diseases  Production of bio control agents and bio pesticides  VIII Fisheries	Bio-control of pests									
Production of bio control agents and bio pesticides  VIII Fisheries										
control agents and bio pesticides										
pesticides										
VIII Fisheries	pesticides									
	VIII Fisheries									
	Integrated fish farming									

										17
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			1			1				
production										
Bio-agents production										
Bio-pesticides										
production										
Bio-fertilizer production										
Vermi-compost										
production			<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>		
Organic manures										
production			<u></u>							
Production of fry and		1								<u> </u>
fingerlings			1							
Production of Bee-		]	_			]			]	_
colonies and wax										
sheets			ļ							
Small tools and										
implements			ļ							
Production of livestock										
feed and fodder			1			1				
Production of Fish feed			1			1				
X Capacity Building										
and Group Dynamics			<del>                                     </del>			1				
Leadership										
development Group dynamics			<del> </del>			1				
Group dynamics Formation and			<del> </del>			1				
Management of SHGs										
Mobilization of social			1			1				
capital										
Entrepreneurial			<u> </u>							
development of										
farmers/youths										
WTO and IPR issues										
XI Agro-forestry			†			1				
Production										
technologies										
Nursery management			1			1				
Integrated Farming			1			1				
Systems										
TOTAL	9				105	120	225			
(B) RURAL YOUTH	-									
Mushroom Production	1				13	12	25	13	12	25
Bee-keeping	-				<u> </u>	<u> </u>				
Integrated farming										
Seed production										
Production of organic										
inputs										
Integrated Farming										
Planting material										
production		]								
Vermi-culture										
Sericulture	1				12	13	25	12	13	25
Protected cultivation of										
vegetable crops										
Commercial fruit										
		I								
production										

									18
Repair and									
maintenance of farm									
machinery and									
implements									
Nursery Management	4			11	14	25	11	14	25
of Horticulture crops	1								
Training and pruning of									
orchards									
Value addition	1			15	10	25	15	10	25
Production of quality	<u> </u>				10				
animal products									
Dairying									
Sheep and goat	+							<del>                                     </del>	
rearing									
Quail farming	<u> </u>								
Piggery	1			15	10	25	15	10	25
Rabbit farming									
Poultry production									
Ornamental fisheries									
Para vets									
Para extension									
workers									
Composite fish culture									
Freshwater prawn									
culture									
Shrimp farming									
Pearl culture	<u> </u>							<del> </del>	
Cold water fisheries	<del>                                     </del>		+					<del>                                     </del>	
Fish harvest and	<del>                                     </del>	<del>                                     </del>	+					<del>                                     </del>	
processing technology	<del>                                     </del>	<del>                                     </del>	-					<del> </del>	
Fry and fingerling									
rearing									
Small scale processing	1			14	11	25	14	11	25
Post Harvest									
Technology									
Tailoring and Stitching									
Rural Crafts									
TOTAL	6			80	70	150	80	70	150
(C) Extension									
Personnel									
Productivity				10	5	15	10	5	15
enhancement in field	1			10	3	15	10	3	13
	'								
crops Integrated Pest	+			11	6	17	11	6	17
	1			11	6	17	''	0	17
Management Integrated Nutrient	-	<del>                                     </del>						<del></del>	
management	1								
Rejuvenation of old									
orchards									
Protected cultivation									
technology		1	1						
Formation and	+	ļ							
	1			9	5	14	9	5	14
Management of SHGs	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application Care and maintenance	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and implements	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and implements WTO and IPR issues	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and implements WTO and IPR issues Management in farm	1			9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and implements WTO and IPR issues Management in farm animals	1								
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and implements WTO and IPR issues Management in farm animals Livestock feed and				9	5	14	9	5	14
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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	1								
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									
Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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									

### B: OFF Campus

Thematic area	No. of	Participants			100/07					
	courses	Others	T	1 = : :	SC/ST	1	1 =	Grand T		1
(4) = 2 =		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management						1				
Resource	1				11	14	25	11	14	25
Conservation										
Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management										
Seed production										
Nursery management		_								
Integrated Crop										
Management Fodder production		+				+				
Production of organic										
inputs										
Il Horticulture						1				
a) Vegetable Crops				+	1			1		
Production of low					1		1	1		1
volume and high value										
crops									<u> </u>	
Off-season vegetables										
Nursery raising										
Exotic vegetables like	1				11	14	25	11	14	25
Broccoli										
Export potential										
vegetables		+								
Grading and standardization										
Protective cultivation		+				+				
(Green Houses, Shade										
Net etc.)										
b) Fruits										
Training and Pruning										
Layout and										
Management of										
Orchards										
Cultivation of Fruit										
Management of young										
plants/orchards Rejuvenation of old	1	+			13	12	25	13	12	25
orchards	'				13	12	25	13	12	25
Export potential fruits		+				+				
Micro irrigation										
systems of orchards										
Plant propagation										
techniques					1			<u> </u>		
c) Ornamental Plants										
Nursery Management										
Management of potted					1					
plants					1			1	1	1
Export potential of					1					
ornamental plants	1		1	+	1		-		1	-
Propagation techniques of					1					
Ornamental Plants					1					
d) Plantation crops				+	+		1	+	+	1
Production and				+	1			1		
Management										
technology					<u> </u>			<u>L</u>	<u> </u>	
Processing and value										
addition					1					
e) Tuber crops					1					
Production and					1					
Management					1					
technology Processing and value	4			+	40	40	05	40	40	0.5
Processing and Value	1	1	1		12	13	25	12	13	25
addition										

									20
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									
Soil and Water									
Conservation									
Integrated Nutrient									
Management			ļ						
Production and use of									
organic inputs									
Management of									
Problematic soils			ļ						
Micro nutrient									
deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock									
Production and									
Management									
Dairy Management		İ							
Poultry Management									
Piggery Management									
Rabbit Management									
Disease Management	1			40	40	0.5	40	40	25
Feed management	1			12	13	25	12	13	25
Production of quality									
animal products									
V Home									
Science/Women									
empowerment									
empowerment Household food									
empowerment Household food security by kitchen									
empowerment Household food security by kitchen gardening and nutrition									
empowerment  Household food security by kitchen gardening and nutrition gardening									
empowerment  Household food security by kitchen gardening and nutrition gardening Design and									
empowerment  Household food security by kitchen gardening and nutrition gardening  Design and development of									
empowerment  Household food security by kitchen gardening and nutrition gardening  Design and development of low/minimum cost diet									
empowerment  Household food security by kitchen gardening and nutrition gardening  Design and development of low/minimum cost diet  Designing and									
empowerment Household food security by kitchen gardening and nutrition gardening Design and development of low/minimum cost diet Designing and development for high									
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									
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									
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									
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									
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									
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									
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									
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									
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	1			11	14	25	11	14	25
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			11	14	25	11	14	25
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 Income generation	1			11	14	25	11	14	25
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 Income generation activities for	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts Women and child care	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts Women and child care VI Agril. Engineering	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts Women and child care VI Agril. Engineering Installation and	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts Women and child care VI Agril. Engineering Installation and maintenance of micro	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts Women and child care VI Agril. Engineering Installation and maintenance of micro irrigation systems	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts Women and child care VI Agril. Engineering Installation and maintenance of micro irrigation systems Use of Plastics in	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts Women and child care VI Agril. Engineering Installation and maintenance of micro irrigation systems Use of Plastics in farming practices	1			11	14	25	11	14	25
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 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts Women and child care VI Agril. Engineering Installation and maintenance of micro irrigation systems Use of Plastics in	1			11	14	25	11	14	25

										21
tools and implements										
Repair and										
maintenance of farm										
machinery and										
implements										
Small scale processing										
and value addition										
Post Harvest										
Technology										
VII Plant Protection					44	4.4	0.5	44	4.4	0.5
Integrated Pest Management	1				11	14	25	11	14	25
Integrated Disease										
Management										
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										<u></u>
rearing		<u> </u>								
Composite fish culture		ļ								
Hatchery management										
and culture of										
freshwater prawn		<b> </b>	1	-						
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		1	1	1						
fingerlings										
Production of Bee-		1	1							
colonies and wax										
sheets										
Small tools and		1								
implements										
Production of livestock		Ì								
feed and fodder		<u>L</u>		<u>L</u>		<u> </u>		<u></u>	<u> </u>	<u></u>
Production of Fish feed										
X Capacity Building	1				13	12	25	13	12	25
and Group Dynamics	1									
Leadership										
development		ļ								
Group dynamics		1		1						
Formation and										
Management of SHGs		<u> </u>	1							
Mobilization of social										
capital		1	1	1						
Entrepreneurial										
development of farmers/youths										
WTO and IPR issues		1	1	1						
XI Agro-forestry			1	<del> </del>						
Production			1							
1 1000001011	<u> </u>	1	1	I	<u> </u>	<u> </u>		<u> </u>	İ	l

technologies Nursery management Integrated Farming Systems TOTAL 8 94 106 200 94 106 (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horiculture of the first of t	25
Nursery management Integrated Farming Systems TOTAL 8 94 106 200 94 106 (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material Integrated Farming Planting material Production Sericulture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture cops Training and pruning of	
Integrated Farming Systems  TOTAL  (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production  Production of organic inputs Integrated Farming Planting material production  1	
TOTAL 8 94 106 200 94 106  (B) RURAL YOUTH  Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of	
(B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material Production Vermi-culture Sericulture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of	
Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of	25
Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of	25
Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of	25
Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of	25
Production of organic inputs  Integrated Farming  Planting material production  Vermi-culture  Sericulture  Protected cultivation of vegetable crops  Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	25
inputs Integrated Farming Planting material production  Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops Training and pruning of	25
Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of	25
Planting material production  Vermi-culture  Sericulture  Protected cultivation of vegetable crops  Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	25
Planting material production 1 1 15 10 25 15 10  Vermi-culture  Sericulture  Protected cultivation of vegetable crops  Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	25
production  Vermi-culture  Sericulture  Protected cultivation of vegetable crops  Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	
Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of	
Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of	
Protected cultivation of vegetable crops  Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	
vegetable crops  Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	
Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	
production  Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	
Repair and maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	
maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	
machinery and implements  Nursery Management of Horticulture crops  Training and pruning of	
implements  Nursery Management of Horticulture crops  Training and pruning of	
implements  Nursery Management of Horticulture crops  Training and pruning of	
Nursery Management of Horticulture crops Training and pruning of	1
of Horticulture crops Training and pruning of	
Training and pruning of	
	1
orchards	
Value addition         1         13         12         25         13         12	25
Production of quality	
animal products	
Dairying	
Sheep and goat	
rearing	
Quail farming Quail farming	
Piggery 1 14 11 25 14 11	25
Rabbit farming	
Poultry production	
Ornamental fisheries	
Para vets	_
Para extension	+
workers	
Composite fish culture	
Freshwater prawn	
culture	
Shrimp farming Shrimp farming	
Pearl culture	
Cold water fisheries	
Fish harvest and	
processing technology	
Fry and fingerling	
rearing	
Small scale processing	1
Post Harvest	+
Technology	
Tailoring and Stitching	+
	+
Rural Crafts 22 27 42 22	<del></del>
TOTAL 3 42 33 75 42 33	75
(C) Extension	
Personnel	
Productivity	
enhancement in field	
crops	
Integrated Pest	
Management	
Integrated Nutrient	1
management	
Rejuvenation of old 9 7 16 9 7	16
orchards 1	10
	+
Protected cultivation	
technology	
Formation and	
Management of SHGs	
Group Dynamics and 1 9 6 15 9 6	15
farmers organization	1
Information networking	

among farmers								
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		18	13	31	18	13	31

# C) Consolidated table (ON and OFF Campus)

Thematic area	No. of	Participa	nts							
	courses	Others			SC/ST			Grand T	otal	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm										
Women										
I Crop Production										
Weed Management	1				12	13	25	12	13	25
Resource	2				21	29	50	21	29	50
Conservation										
Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management										
Seed production										
Nursery management										
Integrated Crop							İ			
Management										
Fodder production										
Production of organic							İ			
inputs										
II Horticulture										
a) Vegetable Crops										
Production of low										
volume and high value										
crops										
Off-season vegetables										
Nursery raising	1				12	13	25	12	13	25
Exotic vegetables like	2				23	27	50	23	27	50
Broccoli	_									
Export potential										
vegetables										
Grading and										
standardization										
Protective cultivation										
(Green Houses, Shade										
Net etc.)										
b) Fruits										
Training and Pruning										
Layout and										
Management of										
Orchards					1		<u> </u>	1	1	<u> </u>
Cultivation of Fruit										
Management of young										
plants/orchards										
Rejuvenation of old	1				13	12	25	13	12	25
orchards										
Export potential fruits										
Micro irrigation										
systems of orchards			<u> </u>		<u> </u>		<u> </u>	<u> </u>		
Plant propagation										
techniques										
c) Ornamental Plants										

										24
Nursery Management										
Management of potted										
plants										
Export potential of										
ornamental plants										
Propagation										
techniques of										
Ornamental Plants										
d) Plantation crops										
Production and										
Management										
technology										
Processing and value	1				12	13	25	12	13	25
addition										
e) Tuber crops										
Production and										
Management										
toobsology										
technology										
Processing and value										
addition										
f) Spices										
Production and										
Management										
technology										
Processing and value										
addition										
g) Medicinal and		1		<u> </u>						
Aromatic Plants		<del> </del>		-						
Nursery management		<b> </b>								
Production and										
management										
technology										
Post harvest										
technology and value										
addition										
III Soil Health and										
Fertility Management										
Call familia	4				44	4.4	05	44	4.4	25
Soil fertility	1				11	14	25	11	14	25
management										
Soil and Water										
Conservation										
Integrated Nutrient										
Management										
Production and use of										
organic inputs										
Management of										
Problematic soils										
Micro nutrient										
deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing										
IV Livestock	<u> </u>		<u> </u>						]	
Production and										
Management										
Dairy Management										
Poultry Management		İ								
Piggery Management	1	1			10	15	25	10	15	25
Dobbit Management	'	1			10	10	20	10	10	20
Rabbit Management		1			<u> </u>					
Disease Management		<b> </b>								
Feed management	2	ļ			25	25	50	25	25	50
Production of quality										
animal products	<u> </u>	<u> </u>	<u> </u>	<u>L</u>	<u></u>	<u></u>	<u></u>	<u> </u>		<u></u>
V Home										
Science/Women										
empowerment										
Household food		1								
security by kitchen										
gardening and nutrition										
yaruening and nutnition										
gardening		1								
Design and										
development of										
low/minimum cost diet		<u> </u>		<u> </u>						
Designing and	<u> </u>		<u> </u>							
development for high										
nutrient efficiency diet										
Minimization of nutrient										
loss in processing										
Gender mainstreaming		1								
	ĺ	1		1	l					

Storage loss iminimization certificipate cer			T	1	1	1	T	1	1	1	25
reinfinite processing and state of temporary	through SHGs										
cechniques  (Authority of Management and Company of Management and Company of Management and Court of Basic Court of Management and Court of Basic Court of Management and Court of Basic Court of Management and Court of Basic Court of Management and Court of Basic Court of Bas											
value addition I 1 1 1 1 4 25 11 1 14 25 Income generation activities for generation formal proposement of rural p											
income generation activities for submitted for all processing personnel of the process		1				11	1.1	25	11	1.4	25
activities for amprovement dural Woman Wom		ı				11	14	23	11	14	23
with years of the production period to the pro											
Note that the state of the stat											
Location specific fording reduction sechnologies (Location specific fording reduction sechnologies) (Location specific fording reduction sechnologies) (Location specific fording reduction sechnologies) (Location specific fording reduction											
Integrate provided to the common and	Location specific										
leach inclogies Women and child care Women and women and child care Women and women and child care Women and women and child care Women and women and child care Women and women and women and child care Women and women a											
Rural Crafts Windown and child care Wil Agrill. Engineering Installation and maintenance of micro impalson systems Use of Plastics in Production of small cools and implements. Repair and maintenance of arm machinery and implements Repair and maintenance of farm machinery and implements. Repair and maintenance of farm machinery and implements. Repair and maintenance of farm machinery and implements. Repair and maintenance of farm machinery and implements. Repair and maintenance of farm machinery and implements. Repair and maintenance of farm machinery and implements. Repair and maintenance of farm machinery and implements. Repair and repair of the farming care of the farming car											
Women and child care   Vi Agril Engineering installation and maintenance of micro migation systems   Vision of Piession in arming practices   Vision of Piession in arming practices   Vision of Piession in arming practices   Vision of Piession in arming practices   Vision of Piession in arming practices   Vision of Piession in arming practices   Vision of Piession in arming practices   Vision of Piession in arming practices   Vision of Piession in arming practices   Vision of Piession in arming practices   Vision of Piession in arming practice   Vision of Piession   Vision of Piession in arming practice   Vision of Piession   Vision	Rural Crafts										
VI Agrill. Engineering installation and maintenance of micro impation systems used of Plastics in arrange practices. It is a state of Plastics in arrange practices and ameninance of a micro impation systems used of Plastics in arrange practices. It is a state of Plastics in arrange practices and ameninance of farm machinery and impations and addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value addition arrange processing and value arrange processing and value arrange processing and value arrange processing and value arrange processing and value arrange processing and value arrange processing and value arrange processing and value arrange production arrange productio											
installation and maintenance of micro rigidion systems with a series of Plastics in arming practices of Plastics in arming practices of a series of the production of small code and implements oces and implements small scale processing and value addition Post Harvest Technology (II) Plant Protection (III) and the production of the production of the protection of the production of the prod											
rifigation systems  Joes of Plastics in farming practices  Froduction of small cools and implements Repair and maintenance of farm machinery and maintenance of farm machinery and manufacture of farm machinery and manufacture of farm machinery and manufacture of farm machinery and manufacture of farm machinery and machinery	Installation and										
Use of Plastics in Irraming practices Production of small took sand implements Repair and matchenery and mylements Small scale processing and value addition Post Harvest Technology VII Plant Protection Post Harvest Technology VII Plant Protection VII VII VII Plant Protection VII VII VII Plant VII VII VII VII VII VII VII VII VII VI	maintenance of micro										
Jaming practices   Froduction of small cools and implements Regair and maintenance of farm machinery and mylements   Froduction of small cools and implements   Froduction of small cools and implements   Froduction of small cools and implements   Froduction of small cools and small cool	irrigation systems										
Production of small cooks and implements Repair and machinery and myelements Small scale processing and value addition Post Harvest Technology Interpretate Post Addition Post Harvest Technology Interpretate Post Addition Post Harvest Technology Interpretate Post Addition Post Harvest Technology Interpretate Post Addition Post Harvest Technology Interpretate Post Additional Post A	Use of Plastics in										
Repair and maintenance of farm machinery and mightenets Small scale processing and value addition Post Harvest Technology Will Plant Protection Integrated Post Management 2 2 23 27 50 23 27 50 23 27 50 Integrated Post Management 1 3 12 25 13 12 25 Integrated Disease Management 1 3 12 25 13 12 25 Integrated Disease Management 1 3 Integrated Disease Management 1 3 Integrated Disease Management 1 3 Integrated Disease Management 1 Integrated Disease Management 1 Integrated Disease Management 1 Integrated Disease Management 1 Integrated Disease Management Mana	farming practices										
Repair and manitenance of farm machinery and myelements Small scale processing and value addition Peat Harvest Technology VII Plant Protection Integrated Peat Amount of Peat Harvest Technology VII Plant Protection Integrated Peat Amount of Peat Harvest Technology VII Plant Protection Integrated Death State of Peat Amount of Peat Harvest Technology VIII Plant Protection Integrated Disease Management Integrated Disease Management Integrated Disease Integrated List of Peat Integrated Disease Integrated List Integrated Disease Integrated List Integrated Li	Production of small										
maintenance of farm machinery and mplements Small scale processing and value addition Post Harvest Technology VII Plant Protection Integrated Post Management 2 2 23 27 50 23 27 50 Management 1 3 12 25 13 12 25 Management 1 13 12 25 13 12 25 Management 1 13 12 25 13 12 25 Management 1 10 Management 1 1	tools and implements										
machinery and myelements Small scale processing and value addition Post Harvest Technology VII Plant Protection Integrated Post Management Integrated Disease Management Integrated Disease Management Integrated Disease Management Integrated Disease Management Integrated Disease Management Integrated Disease Management Integrated Disease Management Integrated Disease Integrated Island Inte	Repair and						]			_	
Implements Small scale processing and value addition Post Harvest Technology Will Plant Protection Integrated Pest Management 1 2 23 27 50 23 27 50 Integrated Disease Management 1 3 12 25 13 12 25 Integrated Disease Production of bio control agents and bio postificates Production of bio control agents and bio postificates Will Fisheries Integrated fish farming Carp breeding and batchery management Integrated fish farming Carp breeding and batchery management Indicated the factor of the control of											
Small scale processing and value addition Post Harvest Technology VII Plant Protection Integrated Pest Management Integrated Pest Management Integrated Pest Management Integrated Pest Management Integrated Dessee Management Integrated Dessee Management Integrated Dessee Integrated Dessee Integrated Dessee Integrated Dessee Integrated Dessee Integrated Dessee Integrated Dessee Integrated Dessee Integrated											
and value addition Post Harvest Technology Wil Plant Protection Integrated Pest Management 2 23 27 50 23 27 50 Integrated Disease Management 1 Bio-control of pests and diseases Production of bio control agents and bio sesticides Will Eisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling rearing Composite fish culture of reading and culture of manamental fishes Portable plastic carp statchery Per culture of ish and traven Shrimp tarming Getile oyser farming Gear fry and disease Portable plastic carp statchery Rear displant and statchery management And culture of or manamental fishes Portable plastic carp statchery Per culture of insh and traven Shrimp tarming Getile oyser farming Pearl culture Fish processing and value addition X Production Flanting material production Floreding material production Floreding manuers Floreduction Floreduction Floreduction Floreduction Floreduction Floreduction Floreduction Floreduction of Irg and ingerlings Floreduction of Irg and ingerlings Floreduction of Irg and ingerlings Floreduction of Irg and ingerlings Floreduction of Irg and ingerlings Floreduction of Irg and ingerlings				-	1						
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VII Plant Protection											
Integrated Pest   2				1	1		1				
Management 1 1 13 12 25 13 13 12 25 13 13 12 12 12 13 13 12 12 13 12 12 13 13 12 13 12 13 13 12 13 12 13 12 13 13 12 13 13 12 13 12 13 12 13 12 13				1	1	22	07	FO	22	07	E0
Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Will Fisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling earling Carposite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of ornamental fishes Pen culture of fish and brawn Shrimip farming Carb breeding and culture of ornamental fishes Pen culture of fish and brawn Shrimip farming Carb breeding and culture of ornamental fishes Pen culture of fish and brawn Shrimip farming Carb breeding and culture Defable plastic carp hatchery Pear culture Fish processing and value addition XX Production finputs at site Seed Production Bio-gentis production Bio-gentis production Bio-gentis production Bio-gentis production Bio-gentis production Production of fry and fingerlings Froduction of fry and fingerlings		2				23	27	50	23	27	50
Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Will Fisheries III Bio-control agents with a simple will be simple w	Integrated Disease					40	10	OF.	10	10	OF.
Bio-control of pests and diseases Production of bio control agents and bio besticides VIII Fisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of rieshwater prawn Breeding and culture of ornamental fishes Pon culture of fish and orawn Shrimp farming Cidble oyster farming Pear Lutture Shrimp farming Rearl addition IX Production of Inputs at site Seed Production Planting material production Bio-pesticides production Bio-pesticides production Bio-pesticides production Bio-pesticides production Bio-pesticides production Bio-pesticides production Production of fry and fingerlings		1				13	12	25	13	12	25
and diseases Production of bio control agents and bio esticides VIII Fisheries III Esheries III	Dis control of neets										
Production of bio control agents and bio pesticides  VIII Fisheries  VIII Fish											
control agents and bio pesticides											
pesticides   Mill Fisheries   Mill Fishe											
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Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of reshwater prawn Breeding and culture of ormamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition MX Production of Inputs at site Seed Production Bio-pesticides production Bio-pesticides production Selected Fig. 2 (2) (2) (2) (2) (2) (2) (2) (2) (2) (	hatchery management										
rearing Composite fish culture Hatchery management and culture of fireshwater prawn fireshwater prawn fireshwater prawn fireshwater prawn fireshwater prawn fireshwater prawn fireshwater prawn fireshwater prawn fireshwater prawn fishes Portable plastic carp hatchery Pen culture of fish and prawn fireshwater fireshwate	Carp fry and fingerling										
Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of oramental fishes Portable plastic carp hatchery Pen culture of fish and orawn 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 orangous production Vermi-compost production Porganic manures or order to make the production of firy and fingerlings											
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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 Pio-fertilizer production Organic manures production Production of fry and fingerlings	Pen culture of fish and										
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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	Shrimp 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 Corganic manures production Production Production Production Production Production Production Production Production Production Production of fry and fingerlings	Edible oyster farming										
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 Production of fry and fingerlings	Pearl culture										
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 Production of fry and fingerlings	Fish processing and										
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	value addition										
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		<u> </u>					1				
Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production Production of fry and fingerlings	at site										
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Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production Production of fry and fingerlings	Planting material	<u> </u>					1				
Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production Production of fry and fingerlings	production										
production Bio-fertilizer production Vermi-compost production Organic manures production Production Production of fry and fingerlings	Bio-agents production			1	<u> </u>		1				
Bio-fertilizer production  Vermi-compost production  Organic manures production  Production ffry and fingerlings											
Vermi-compost production Organic manures production Production fry and fingerlings					1						
production Organic manures production Production of fry and fingerlings	Bio-fertilizer production			1	1						
Organic manures production Production of fry and fingerlings	Vermi-compost										
production Production of fry and fingerlings					ļ		1				
Production of fry and fingerlings	Organic manures										
fingerlings	production				1						
Troduction of Lico				1	<u> </u>						
	Production of Bee- colonies and wax										

sheets										26
implements   Frotox-tion of livestock										
Production of Fresholder Production of Fish Fleed X Capacity Duffining 1 13 12 25 13 12 25 Leadership development of ShGs Management of Interpreted Farming Shgtems Y Capacity Management of Interpreted Farming Shgtems Y Shgtems										
Feed and folder										
Production of Fish feed										
X Capator Bullding and Group Dynamics   1										
and Group Dynamics					12	10	OF.	10	40	OF.
Leadership	and Group Dynamics	1			13	12	25	13	12	25
development										
Group dynamics										
Formation and Management of SHGs Mobilization of social capital Entrepresentia	Group dynamics									
Mobilization of social capital										
Capital   Capi	Management of SHGs									
Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro forestry Production Entrepreneur Farmers Systems Syst										
development of farmers/youths										
Farmers/outner   WTO and IPR issues	Entrepreneurial									
WTO and IPR issues										
XI Agric forestry	WTO and IDD issues									
Production										
technologies   Nursery management										
Nutsery management										
Integrated Farming	Nursery management									
Systems										
TOTAL (9) RURAL YOUTH  Mushroom Production 1	Systems									
Mushroom Production   1	TOTAL	17			199	226	425	199	226	425
Bee-keping										
Integrated farming	Mushroom Production	1			13	12	25	13	12	25
Seed production										
Production of organic inputs										
Inputs										
Integrated Farming										
Planting material   1										
Varmi-culture	Integrated Farming				45	40	05	4.5	40	٥٢
Vermiculture		1			15	10	25	15	10	25
Sericulture										
Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horiculture crops Training and pruning of orchards Value addition 2 Production of quality animal products Dairying Sheep and goat rearing Quali farming Piggery 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 3		1			12	13	25	12	13	25
Vegetable crops					12	13	2.5	12	13	20
Commercial fruit										
Repair and maintenance of farm machinery and implements	Commercial fruit									
maintenance of farm machinery and implements         1         11         14         25         11         14         25           Nursery Management of Horiculture crops         1         11         14         25         11         14         25           Training and pruning of orchards         Value addition         2         28         22         50         28         22         50           Production of quality animal products         2         28         22         50         28         22         50           Pairying         3         2         28         22         50         28         22         50           Pairying         4         2         28         22         50         28         22         50           Pairying         5         29         21         50         29         21         50           Sheep and goat rearing         2         29         21         50         29         21         50           Radit farming         9         29         21         50         29         21         50           Para vets         9         9         29         21         50         29         21										
machinery and   implements										
Implements										
Nursery Management of Horticulture crops										
Training and pruning of orchards	Nursery Management				11	1/	25	11	1/	25
Training and pruning of orchards	of Horticulture crops	1			''	14	23	''	14	25
Value addition         2         28         22         50         28         22         50           Production of quality animal products         Briying         Bri										
Production of quality animal products Dairying Sheep and goat rearing Qualifarming Piggery 2 2 29 21 50 29 21 50 Rabbit farming Poultry production Ornamental fisheries Para vets Para extension workers Composite fish culture Freshwater prawn culture Shrimp farming Pearl culture Cold water fisheries Fish harvest and processing technology Fry and fingerling rearing Small scale processing Small scale processing Shrimp farming Frost Harvest Frost Harvest Freshwater Frost Harvest Fry and fingerling rearing Small scale processing Small scale processing I 1 14 11 25 14 11 25 Fost Harvest Fechnology										
animal products		2			28	22	50	28	22	50
Dairying   Sheep and goat   Fearing   Fearin	Production of quality									
Sheep and goat rearing Quail farming Piggery 2 29 21 50 29 21 50 Rabbit farming Poultry production Ornamental fisheries Para evets Para extension workers Composite fish culture Freshwater prawn culture Shrimp farming Pearl culture Cold water fisheries Fish harvest and processing technology Fry and fingerling rearing Small scale processing 1 1 14 11 25 14 11 25 Freshwater praves  Leave 1 29 21 50 29 21 50  Leave 2 30 29 21 50  Leave 3 40 29 21 50  Leave 3 40 29 21 50  Leave 4 50 29 20  Leave 4 50 29 21 50  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 29 20  Leave 4 50 20  Le										
rearing         Qualifarming         2         29         21         50         29         21         50           Rabbit farming         9         2         29         21         50         29         21         50           Rabbit farming         9         0	Dairying									
Quail farming         2         29         21         50         29         21         50           Rabbit farming         9         2         29         21         50         29         21         50           Rabbit farming         9         0         <										
Piggery         2         29         21         50         29         21         50           Rabbit farming         9         2         29         21         50         29         21         50           Poultry production         0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
Rabbit farming Poultry production Ornamental fisheries Para vets Para extension workers Composite fish culture Freshwater prawn culture Shrimp farming Pearl culture Cold water fisheries Fish harvest and processing technology Fry and fingerling rearing Small scale processing Small scale processing Tight and scale proc		2			20	21	50	20	21	50
Poultry production Ornamental fisheries Para vets Para extension workers Composite fish culture Freshwater prawn culture Shrimp farming Pearl culture Cold water fisheries Fish harvest and processing technology Fry and fingerling rearing Small scale processing 1 Post Harvest Technology					29	21	30	29	21	30
Ornamental fisheries Para vets Para extension workers Composite fish culture Freshwater prawn culture Shrimp farming Pearl culture Cold water fisheries Fish harvest and processing technology Fry and fingerling rearing Small scale processing Technology  Post Harvest Technology										
Para vets Para extension workers Composite fish culture Freshwater prawn culture Shrimp farming Pearl culture Cold water fisheries Fish harvest and processing technology Fry and fingerling rearing Small scale processing 1 14 11 25 14 11 25 Post Harvest Technology										
Para extension workers  Composite fish culture  Freshwater prawn culture  Shrimp farming  Pearl culture  Cold water fisheries  Fish harvest and processing technology Fry and fingerling rearing  Small scale processing  1 14 11 25 14 11 25  Post Harvest Technology			†							
workers  Composite fish culture  Freshwater prawn culture  Shrimp farming  Pearl culture  Cold water fisheries  Fish harvest and processing technology  Fry and fingerling rearing  Small scale processing  Technology  Small scale processing  Technology			<del>                                     </del>							
Freshwater prawn culture  Shrimp farming  Pearl culture  Cold water fisheries  Fish harvest and processing technology  Fry and fingerling rearing  Small scale processing  1 14 11 25 14 11 25  Post Harvest  Technology	workers									
culture Shrimp farming Pearl culture Cold water fisheries Fish harvest and processing technology Fry and fingerling rearing Small scale processing 1 14 11 25 14 11 25 Post Harvest Technology	Composite fish culture									
Shrimp farming Pearl culture Cold water fisheries Fish harvest and processing technology Fry and fingerling rearing Small scale processing Technology  Shrimp farming  1 14 11 25 14 11 25  Fost Harvest Technology										
Pearl culture  Cold water fisheries  Fish harvest and processing technology  Fry and fingerling rearing  Small scale processing 1 14 11 25 14 11 25  Post Harvest Technology										
Cold water fisheries  Fish harvest and processing technology  Fry and fingerling rearing  Small scale processing 1 14 11 25 14 11 25  Post Harvest Technology			<del>                                     </del>							
Fish harvest and processing technology  Fry and fingerling rearing  Small scale processing 1 14 11 25 14 11 25  Post Harvest Technology			<del>                                     </del>					1		1
processing technology Fry and fingerling rearing Small scale processing 1 14 11 25 14 11 25 Post Harvest Technology			+				-			
Fry and fingerling rearing  Small scale processing 1 14 11 25 14 11 25  Post Harvest Technology										
rearing         1         14         11         25         14         11         25           Post Harvest Technology         1         1         1         1         25         1         1         1         25         1         1         1         25         1         1         1         25         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1         1         1         1         2         1         1         1         2         1         1         1         1         1         2         1         1         1         1         2         1         1         1         1         1         2         1         1         1         1	Fry and fingerling		+ +	<del>-  </del>						
Small scale processing         1         14         11         25         14         11         25           Post Harvest Technology         1         14         11         25         14         11         25										
Post Harvest Technology		1			14	11	25	14	11	25
Technology		•			1	• • •		<u> </u>	<u> </u>	
	Technology		<u>                                       </u>				<u>L</u>			
<u> </u>	Tailoring and Stitching									

TOTAL   9											
(C) Extension Personnel Personnel Productivity Productivity Productivity Production and Management Production and Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and implements WTO and IPR issues Management to IT application Livestock feed and fodder production Production and It and IT	Rural Crafts										
Personnel   Productivity enhancement in field crops   10   5   15   10   5   15   15   15	TOTAL	9				122	103	225	122	103	225
Personnel   Productivity enhancement in field crops   10   5   15   10   5   15   15   15											
Productivity enhancement in field crops   10   5   15   10   5   15   15   10   5   15   1											
enhancement in field crops  Integrated Pest Management											
Integrated Pest						10	5	15	10	5	15
Integrated Pest   1		1									
Management Integrated Nutrient management Rejuvenation of old orchards 1 9 7 16 9 7 16 9 7 16 Protected cultivation technology Formation and Management of SHGs 1 9 5 14 9 5 14 Management of SHGs 1 9 6 15 9 6 15 9 6 15 9 6 15 marmers organization Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and implements WTO and IPR issues Management in farm animals Livestock feed and fooder 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	crops										
Management Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology		1				11	6	17	11	6	17
Management	Management	'									
Rejuvenation of old orchards 1	Integrated Nutrient										
orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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 mainteraming through SHGs	management										
orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers organization Information networking among farmers 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 1 Household food security Women and Child care Low cost and nutrient efficient diet designing Production and use of organic inputs Gender mainstreaming through SHGs	Rejuvenation of old	1				9	7	16	9	7	16
technology Formation and 1 9 5 14 9 5 14 Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and implements WTO and IPR issues Management in farm animals Livestock feed and fooder 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	orchards	ı									
Formation and Management of SHGs	Protected cultivation										
Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT application Care and maintenance of farm machinery and implements 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	technology										
Management of SHGS Group Dynamics and farmers organization Information networking among farmers 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	Formation and	1				9	5	14	9	5	14
farmers organization Information networking among farmers 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	Management of SHGs	ı									
tarmers organization Information networking among farmers	Group Dynamics and	4				9	6	15	9	6	15
among farmers 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	farmers organization	'									
Capacity building for ICT application  Care and maintenance of farm machinery and implements  WTO and IPR issues  Management in farm animals  Livestock feed and foodder 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	Information networking										
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	among farmers										
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											
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	ICT application										
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	Care and maintenance										
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	of farm machinery and										
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	implements										
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	WTO and IPR issues										
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	Management in farm										
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	animals										
Todder 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	Livestock feed and	4				-	8	8	-	8	8
security  Women and Child care  Low cost and nutrient efficient diet designing  Production and use of organic inputs  Gender mainstreaming through SHGs	fodder production	'									
Women and Child care  Low cost and nutrient efficient diet designing  Production and use of organic inputs  Gender mainstreaming through SHGs	Household food										
Low cost and nutrient efficient diet designing  Production and use of organic inputs  Gender mainstreaming through SHGs	security										
efficient diet designing  Production and use of organic inputs  Gender mainstreaming through SHGs	Women and Child care										
Production and use of organic inputs  Gender mainstreaming through SHGs	Low cost and nutrient			İ							
Production and use of organic inputs  Gender mainstreaming through SHGs	efficient diet designing		<u> </u>								
Gender mainstreaming through SHGs	Production and use of					-					
Gender mainstreaming through SHGs	organic inputs		]								
through SHGs	Gender mainstreaming				İ						
	through SHGs		]								
	TOTAL	6		İ		48	37	85	48	37	85

Note: Please furnish the details of above training programmes as  $\underline{\text{Annexure}}$  in the proforma given below

Date	Cliente le	Title of the training programm	Disciplin e	Themati c area	Duration in days	Venue (Off / On	othe	ber of r cipant	s	Num SC/S	ber of T			numbe cipang:	
		e				Campu s)	Ma le	Fe ma le	Tot al	Ma le	Fe ma le	Tot al	Ma le	Fe mal e	Tot al

### (D) Vocational training programmes for Rural Youth

Crop /				Duration	No.	of Participa	nts	S	elf employed a	after training	Number of persons employed
Enterprise	Date	Training title*	Identified Thrust Area	(days)	Male	Female	Total	Type of units	Number of units	Number of persons employed	else where
Broccoli	22/10/09	Weed management and soil conservation	Weed and soil management	2	8	17	25				
Piggery	23 Feb.		Feed formulation using locally available feeds	3	15	10	25		8	8	

### (E) Sponsored Training Programmes

SI.N	Date	Title		Thematic	Duratio	Client	No. of	No. of	Particip	ants							Sponsor	Amount
0			Discipli ne	area	n (days)	(PF/RY/EF)	cours es	Other			SC/ST			Total			ing Agency	of fund received (Rs.)
								Mal e	Fema le	Tot al	Male	Female	Total	Male	Femal e	Tota I		
1	9/10/09	Winter vegetable	Horticult ure	Vegetable production	2	PF	1				10	15	25				ATMA	20,000
2	14 <sup>th</sup> Oct	IPM	Entomol ogy	Pest managem ent	2	PF	2				12	13	25				Agri. Directora te	25,000
3	11 <sup>th</sup> dec	Piggery manageme nt	Vety &A.H	Hygienic	2	PF	2				8	16	24				ATMA	20,000
4	19 <sup>th</sup> oct	Cultivation of rapeseed	Agrono my	Oilseed production	1	PF	1				10	25	25				ATMA	8,000
Total					7		6				40	69	99					73,000

# 3.4. Extension Activities (including activities of FLD programmes)

		Purpose/	No						Partic	ipants					
SI. No	Nature of Extension	topic and Date	No. of activi	(0	Farmers Others)(I	)		T (Farm	, , ,	O	xtensio		G	rand To	
•	Activity		ties	Male	Female	Total		Femal e	Total	Mal e	Fema le	Total	Male	Fema le	Total
1.		Rapeseed					40	45						46	
	Field Day	17.12.09 20.12.09	2						95	1	1	2	41		87
2.	Field Day	Pea 16.12.09	1				24	30	54	1	1	2	25	31	56
3.	Field day	Tomato 15.01.10	1				13	22	35	2	3	5	15	25	40
	Total		4				77	97	184	4	5	9	81	102	183
4.	Kisan Ghosthi		2				17	24	41				17	24	41
5.	Exhibition		1												
6.	Film Show		3												
7.	Farmers		1				8	11	19				8	11	19
	Seminar														
8.	Workshop														
9.	Group		4				30	45	75				30	45	75
	meetings														
10.	Lectures		12												
	delivered as														
	resource														
44	persons		-												
11.	Newspaper		3												
12.	coverage Radio talks		7												
			4				75	45	400				75	45	120
13.	Advisory Services		4				75	45	120				75	45	120
14.	Scientific visit		8				14	16	30				14	16	30
	to farmers field						1-7	10	00				1-7	10	00
15.	Farmers visit to KVK		8				52	40	92				52	40	92
16.	Diagnostic visits		3				15	15	30				15	15	30
17.	Animal Health Camp		2				65	80	145				65	80	145
18.	Self Help Group Conveners meetings		3				7	8	15				7	8	15
	Total		61				283	284	567				283	284	567
	Grand Total		65				360	381	751	4	5	9	360	381	751

# 3.5 Production and supply of Technological products

#### SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
OILSEEDS					
	Toria	TS-38	1.5	6900	45
PULSES					
	Pea	Azad	0.70	2100	15
VEGETABLES					
	Tomato	Megha-1	0.02	1200	30
FLOWER CROPS					
OTHERS (Specify)					

### SUMMARY

SI. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS			
2	OILSEEDS	1.5	6900	45
3	PULSES	0.70	2100	15
4	VEGETABLES	0.02	1200	30
5	FLOWER CROPS			
6	OTHERS			
<u> </u>	TOTAL	7.8	29250	105

### PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
SPICES					
VEGETABLES					
FOREST SPECIES					
	Alder	Local	1000	5000	50
ORNAMENTAL CROPS					
PLANTATION CROPS					
Others (specify)					

### SUMMARY

SI. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS			
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES	1000	5000	50
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS			
7	OTHERS			
	TOTAL	1000	5000	50

BIO PRODUCTS : NA

Major group/class	Product Name	Species	Quantity No (kg)		Value (Rs.)	Provided to No. of Farmers
BIOAGENTS						
BIOFERTILIZERS						
BIO PESTICIDES						

# SUMMARY

CI No	Product Name	Species	Qua	ntity	Value (Rs.)	Provided to
SI. No.			Nos	(kg)		No. of Farmers
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

### LIVESTOCK :NA

SI. No.	Type	be Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs	-	
Cattle						
SHEEP AND GOAT						
POULTRY						
FISHERIES						
Others (Specify)						

### Summary

SI. No.	Туре	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
01. 140.			Nos	Kgs	value (IX3.)	Trovided to No. of Farmers
1	CATTLE					
2	SHEEP & GOAT					
3	POULTRY					
4	FISHERIES					
5	OTHERS					
	TOTAL					

#### 3.6. Literature Developed/Published (with full title, author & reference)

- (A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)
- (B) Literature developed/published

Item	Title	Authors name	Number of copies
Technical reports			
News letter	KVK Mokokchung, News letter	KVK Mokokchung	
Popular articles			
Leaflets/folders	<ul> <li>Clonal propagation of tea</li> <li>Tapioca – A promising livestock feed</li> <li>Training need and assessment</li> <li>Pest management in tomato.</li> <li>Cultivation of off season cucumber</li> <li>Impact of climate change on agriculture</li> </ul>	KVK Mokokchung	300
Total	7		
GrandTOTAL	7		306

N.B. Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Documentation on KVK activities	25

- 3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year : NA
- 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):NA

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

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

### 3.11 Field activities

i. Number of villages adopted : 4
ii. No. of farm families selected : 30
iii. No. of survey/PRA conducted : 4

#### 3.12. Activities of Soil and Water Testing Laboratory :NA

Status of establishment of Lab :

1. Year of establishment :

2. List of equipments purchased with amount :

SI. No	Name of the Equipment	Qty.	Cost
1			
Total			

3. Details of samples analyzed so far

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 % of		Change in income (Rs.)		
	participants	adoption	Before (Rs./Unit)	After (Rs./Unit)	
Cultivation of tomato (Megha -1)	6	75	-	3400	
Cultivation of pea (Azad)	4	65	1200	3300	
Cultivation of Toria (TS-38)	6	75	1500	3500	

4.2. Cases of large scale adoption: NA (Please furnish detailed information for each case)

#### 4.3 Details of impact analysis of KVK activities carried out during the reporting period

#### IMPACT STUDY REPORT

Most of the farming families in Nagaland are still practicing age old traditional system of cultivation. Except in few cases, majority are aware about the recent advances in technologies like use of HYV seeds, improved method of cultivation etc. Nagaland, particularly Mokokchung district is endowed with a very favourable acro-climatic condition and has potentiality to grow all types of food crops and animal rearing but due to non adoption of new technologies it has led to poor production. Considering the situation, KVK Mokokchung, with an aim to adopt the improved systems, imparted training progarmmes on various improved practices on use of HYV crop seeds, FLDs, OFTs, management of farm animals etc to bring about a change in the life of the farming families. To assess the impact of KVK interventions, a case study was conducted at Aliba, Chuchuyimpang, and Moalenden under Mokokchung district with the following objectives:

- 1. To study traditional practices
- 2. To assess adoption of new technologies.
- 3. To study change in economic status of the farming families.
- 4. To plan future strategies.

The study was conducted using a semi-structured interview where people from all age groups participated. Information gathered are highlighted below:

All the respondents were farming families and engaged in one or the other activities/enterprise and in some cases have even the experience of working in small groups. The main crop of the district is paddy followed by tapioca. Except in some villages particularly in the lower zones, most of the villages are jhumias. This is mainly due to land topography and lack of irrigation facilities. After paddy the farmers are giving more emphasis on tapioca as a source for animal feeds. Inspite of favourable agro-climatic conditions farming families of the district mostly practices age old systems using only locally available seed materials with very poor managements which lead to low production. Therefore to improve upon the present traditional practices KVK intervened by imparting training, conducting FLDs and OFTs with the participation of the farmers in the KVK operational areas. Seed inputs of improved varieties were supplied and using the materials the farmers took the cultivation following improved package of practices. Timely supervision was conducted and during the monitoring it was observed that the performance of the different enterprises was doing very well. In some cases the produce are exhibited during Independence/Republic days and received awards.

The farm women were more expert and knowledgeable in production technologies of vegetable crops, fruits etc. At present the farmer are fetching good harvest from their enterprises and sold in the local markets and earns a good return. There is high potentiality for better productions and so they are planning to expand their cultivation areas. In this regard they are further seeking the help of KVK for technical advices like planning, layout, demonstration, training, seed inputs of improved varieties and also care and management of livestock etc.

#### Constraints:

Some of the major constraints reported by the respondents are listed below.

- In tomato the yield is better under shade condition but to construct a shade for large scale cultivation is a problem because the
  cost of construction is high.
- 2. Construction of separate room for rearing in large scale
- 3. Fencing problems for horticultural crops.
- 4. Lack of marketing facilities.
- 5. Post harvest management
- 6. Difficult to get good breed of animals.
- 7. Lack of pastureland
- 8. Restricted free grazing.

### Future strategies:

From the case study it is evident that there is high potentiality for large scale cultivation of food crops but due to non availability of improved/HYV seeds and non adoption of recent advances of technologies the production is low. After KVK intervention there has been an increase in crop yield through adoption of new system, the farmers are convinced and are willing to continue cultivating improved varieties provided seed inputs are available. However, during implementation of any programmes the traditional practices of the farmers should be taken into consideration and improve upon it. Extension functionaries and scientists need to update knowledge, disseminate and encourage the farmers on adoption of improved technologies, post harvest management etc to bring about a change in crop production system. Inputs like seeds etc should also be made available to the farmers in time and also timely bask up of the activities should be done for achieving food security and increase farmer purchasing power.

### **5.0 LINKAGES**

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage				
State Agricultural Research Station (SARS) Yisemyong, AICRIP	Joint implementation in conducting training, demonstration, meeting, trials etc.				
DAO, DHO, DVO, DSCO in the district	Conducting training, demonstration programmes				
ICIMOD, Kathmandu	Conducting Field Research activities.				
ICAR, Jharnapani, Nagaland University	Consultation, meeting and exchange of technologies				
AIR Doordashan Mokokchung	Technology dissemination through broadcasting media through AIR by staff of KVK.				
NABARD, Nagaland	Joint implementation in forming farmers ' clubs				

### 5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies: NA

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)

#### 5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district: Yes

S. No.	Programme	Nature of linkage	Remarks
1	Training, Demonstration, Exhibition	Resource person and programme implementation as AMC and BTT members	75 % of ATMA activities implemented by KVK

5.4 Give details of programmes implemented under National Horticultural Mission: NA

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board : NA

S. No.	Programme	Nature of linkage	Remarks	

### 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm): NA

				Details of	of production	า	Amoun	t (Rs.)	
Sl. No.	Demo Unit	Year of estt.	Area	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks

6.2 Performance of instructional farm (Crops) including seed production

Name	Date of sowing	Date of	Date of B (Page 4)		ails of production	on	Amour	nt (Rs.)	Remarks
Of the crop	-	harvest	Ar ()	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Pulses									
Pea	18/10/09	=	0.008	Arkel	Pod	0.64	750	1325	good
Oilseeds									
Toria	21/10/09	-	0.01	TS-36 & 38	Seed	0.18	1400	2220	good
Spices & Plantatio	n crops		•						
Turmeric	28/05/09	On going	0.0585	Megha -1	Rhizome	On going	-	-	Yet to analyse
Vegetables									
Tomato	07/01/10	20 <sup>th</sup> /04/09 to 15 <sup>th</sup> /05/09	0.0495	Megha- 1	Fruit	1.5	450	1500	Yield was satisfactory
Aochisang	04/06/09	On going	0.003	Local	Leafy	0n going			
Others (specify)	•	•	•	•	•		ı		•
Pig weed	01/03/09	On going	0.003	Local	Leaves	On going			

Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

SI.	Name of the	_	Amoun	nt (Rs.)		
No.	Product	Qty	Cost of inputs	Gross income	Remarks	
1	Vermi compost	2	18,000		Newly constructed	

6.4 Performance of instructional farm (livestock and fisheries production): NA

SI.	Name	Deta	ails of production		Amou	nt (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks

	Rainwater Harvesting: NA rogrammes conducted by	_	iter Harvestir	ıg Demoi	nstrationUn	it :NA			
Date	Title of the training	Client	No. of	No. of	Participants SC/ST	including	No. c	of SC/STPartion	cipants
	course	(PF/RY/EF)	Courses	Male	Female	Total	Male	Female	Total

#### 6.5 Utilization of hostel facilities: Not constructed, however use SARS farmers hostel when needed

Accommodation available (No. of beds): 30

Months	Title of the training course/Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2009	Oilseeds, Pulses and Vegetables cultivation	25	75	
Total		25	75	
Grand total		25	75	

#### <u>7.</u> FINANCIAL PERFORMANCE

#### 7.1 **Details of KVK Bank accounts**

Bank account	Name of the bank	Location	Account Number
With Host Institute	SBI	Lerie , Kohima	01000050059
With KVK	SBI	Mokokchung	01000050913

7.2 Utilization of funds under FLD on Oilseed (Rs. In Lakhs)

	Release	ed by ICAR	Expenditure			
Item	Kharif 2008	Rabi 2009 –10	Kharif 2008	Rabi 2009-10	Unspent balance as on 1 <sup>st</sup> April 2009	
Inputs		6650		6650	Nil	
Extension activities		950		950	Nil	
TA/DA/POL etc.		1900		1900	Nil	
TOTAL		9500		9500		

7.3 Utilization of funds under FLD on Pulses (Rs. In Lakhs)

tinization of failes and if ED on Faises (No. III Earlis)					
Released		d by ICAR	Expenditure		Unspent balance
Item	Kharif 2008	Rabi 2008 -09	Kharif 2008	Rabi 2008-09	as on 1 <sup>st</sup> April 2009
Inputs		13300		13300	Nil
Extension activities		1900		1900	Nil
TA/DA/POL etc.		3800		3800	Nil
TOTAL		19000		19000	

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

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

7.5 Utilization of KVK funds during the year 2009 -10

1.5	Othization of NVN funds during the year 2003-10		1	
S. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	curring Contingencies			
1	Pay & Allowances			
2	Traveling allowances	1.5	1.3	0.75
3	Contingencies			
Α	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1.6	1.36	0.70
В	POL, repair of vehicles, tractor and equipments			
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	6.4	5.44	2.2

D	Training material (posters, charts, demonstration material including chemicals				
	etc. required for conducting the training)				
E	E Frontline demonstration except oilseeds and pulses (minimum of 30				
	demonstration in a year)				
F	On farm testing (on need based, location specific and newly generated				
	information in the major production systems of the area)				
G	Training of extension functionaries				
Н	Maintenance of buildings				
1	Establishment of Soil, Plant & Water Testing Laboratory				
J	Library				
	TOTAL (A)	9.5	8.1	3.65	
B. No	n-Recurring Contingencies				
1	Works				
2	2 Equipments including SWTL & Furniture		2.35		
3	Vehicle (Four wheeler/Two wheeler, please specify)				
4	Library (Purchase of assets like books & journals)		0.10		
	TOTAL (B)	7.55	2.45	2.45	
C. RE	VOLVING FUND		100000		
	GRAND TOTAL (A+B+C)		100000		
	GRAND TOTAL (A+B+C)		11.55	6.1	

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
31/7/2008	100000	15000	20000	95000
2009	95000	30000	25000	100000
2010	100000	45000	20000	1,25,000

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

#### 8.1 Constraints

(a) Administrative: Construction of Farmers hostel, farm fencing

(b) Financial: Shortage of fund ie. Meals/refreshment @ Rs. 40 per trainee is too less.
(c) Technical: Lack of livestock demonstration units, farm machineries like tractor,

power tiller, pumping set etc.

Annexures

### District Profile - I

#### Include the details of

General census

#### **Basic information about Mokokchung district:**

1. Population Census (2001)

a) Total Population - 2,27,230
b) Rural Population - 1,96,026
c) Cultivators - 1,33,020
d) % of farming population - 58.54%
2. Total geographical area - 1,615 Sq km.
3. Average Jhum Cycle - 10,5 yrs

3. Average Jhum Cycle - 10.5 yrs
4 Food grain Production - 36731 MT (2005-06)
5. Commercial Crops Production - 52726 MT (2005-06)
6. Oilseed production - 1013 MT (2005-06)

Agricultural and allied census

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

SI.No.	Crop	Area (ha)	Production (Qtl)	Productivity(Qtl/ha)
1	Jhum paddy	11390	246400	21.63
2	TRC paddy	4960	153000	30.84
3	Maize	1028	16345.2	15.9
4	Tapioca	1050	308910	294.2
5	Mustard	795	5000	06.3
6	Tomato	28	7600	271.4
7	Potato	125	9375	75
8	Colocassia	1500	180000	120
9	Passion fruit	908	63560	70
10	Orange	460	20700	45

11	Banana	270	3888	144.4
12	Pineapple	340	238000	700
13	Pear	16	3500	218.7
14	Tea	520	3120	6 (made tea)
15	Arecanut	44	600	15

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

Category	Population	Production	Productivity
Cattle			
Crossbred	2125	29.87 tons milk	6 litrs/day
Indigenous	1437	-	-
Buffalo	250	-	-
Goats	3278	14.75 tons	9 kg/year
Pigs			
Crossbred	81,345	2870 tons	110 kg/year
Hens	1,01,287	3000	20 eggs/year
Desi	20,12,325	1042 tons	1.1 kg/8 months
Ducks	491	290 kg	1 kg/6 months
Turkey and others			

Category	Area	Production	Productivity
Inland	5,00,000	10 tons	1 kg/year
Prawn			

#### Agro-climatic zones

No	Agro-climatic Zone	Characteristics		
1	Mid Tropical hill Zone	1.	Hot and humid in the foot hills to moderate in the mid and high with	
			heavy rainfall during summer	
		2.	Moderate to extreme cold and dry during winter	

# Agro-ecosystems Description of major agro ecological situations (based on altitude)

No	Agro ecological situation	Characteristics
1	AES – 1 (Below 500 msl)	Hot & Humid with sub tropical climate
2	AES – II (500-1000 msl)	Moderate, sub-montane hill zone
3	AES – III (1000-1500 MSL)	Moderate to extreme cold and dry during winter
4	AES - IV (Above 1500 msl)	Moderate to extreme cold and dry during winter

### Major and micro-farming systems

### Major farming systems existing in the district\*(based on the study made by the KVK)

No	Farming systems identified
1	Agriculture +Horticulture
2	Agriculture + Veterinary
3	Agriculture + Fishery
4	Agriculture + Horticulture + Veterinary + Fishery

Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc.

Jhum paddy based mixed cropping system like jhum paddy-colocassia-beans-maize

Major agriculture and allied enterprises

- Agriculture + Horticulture Agriculture + Animal Husbandry

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

#### Include

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

S.No	Target area	Agro- ecosystem	Survey method
1	Mopongchuket	AES – III	PRA, transect walk, matrix ranking, bio resource
2	Longkhum	AES-IV	flow model
3	Changtongya	AES-II	
4	Longnak	AES-I	
5	Lakhuni	AES-II	

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

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

✓ Participatory method of resource mapping on the ground using leaves, stones, twigs and other materials. Major enterprises were displayed on a chart and the participants were asked to rank the enterprises as per their preference

#### Analysis and conclusions

Along with the participants the results were complied in a fresh chart paper and the major enterprises were displayed in accordance to their ranking. With the compiled results, discussion and interaction among the participants was conducted and a list of priority wise was jot out.

List of location specific problems and brief description of frequency and extent/ intensity/severity of each problem

Problem	Frequency and extend	Intensity	severity
Deforestation	Cutting down of forest area for Jhum every	Approx. 8000 ha. were	High – Jhum cycle decreasing
	year covering a large area	effect due to deforestation	year by year
Marketing	Lack of organise market system	Throughout the year	High
Indigenous germplasm	Low production due to use of age old	75% in crops, 40% in	Medium
	germplasm	livestock	
Livestock feeds	During dry season	Covered all livestock	High
Post harvest	Seasonal, whole district	All crops especially	High
		perishable items	
Processing	Seasonal, whole district	Horticulture crops	High

#### Matrix ranking of problems

- Deforestation
- 2. Marketing
- 3. Post harvest and processing
- 4. Indigenous germplasm
- 5. Livestock feed

#### List of location specific thrust areas

- Appropriate monitoring, evaluation and information systems to facilitate proper planning and effective implementation in Agri & allied sectors.
- Co-ordination & synchronizing in various activities of small farmers with those of the large and medium farmers so as to improve the prospects of growth for the small farmers.
- Shaping agriculture and allied sectors to commercial enterprise through individual ownership and joint cultivation.
- Implementation of IPM. INM and identification of botanical and other bio control measures for insect pest management.
- Popularization of low cost and high efficiency farm machinery tools and implements.
- Production of certified seeds/ quality planting materials and popularizing newer HYV.
- Collaboration with multi-disciplinary departments/institutions/organizations/ agencies such as ICAR, SAU and CAV, NABARD, ZSI, BSI, NRC on Mithun, GER, ICIMOD, NEPED, State Deptt, ATMA, knowledge partnership for NEH Region etc.
- · Promotion of suitable crop rotations and integrated plant nutrient management for better soil productivity.
- Strengthening the marketing channels and credit linkage.
- Identification, characterization, documentation and conservation of indigenous local cultivars in agriculture and allied sectors.
- Strengthening and streamlining the data recording system for better traceability, assistance in efficient implementation of breeding policies and avoid flock of mixed unknown genome with poor productivity.
- Infrastructure development.
- HRD programmes for capacity building.
- Promotion of horticulture and floriculture as well as of medicinal and aromatic plants and herbs, including organic farming and post harvest technology and value addition of different produces.
- Promotion of all forms of animal husbandry, fisheries, dairying and bird life accompanied by promotion of fodder cultivation and sustained availability of animal feed and identification analysis of indigenous fodder crop.
- Documentation, validation and promotion of ITKs in livestock and poultry production system.
- Developing modules to strengthen service delivery in Agri and Allied sectors.
- Promoting knowledge and skill transfer and application of ICT.

#### List of location specific technology needs for OFT and FLD

Crop/enterprise	Technology	OFT	FLD
Toria	TS -36	INM on toria	-
	TS- 38		Late sowing with 25% higher seed rate
Green gram	Pratap, Meha, TMB	Varietal evaluation	
	-37, SG-21-5		
Black gram	PU-31, IPU-94-1,	Performance trial	
	KU-301,USJD-113		
King Chilli	Naga chilli		Intercropping with Jhum paddy
Rice	SARS-2		Critical timing of rodenticide application
Piggery	Hampshire	Upgrade local pigs with Hampshire	
		inheritance	

#### Matrix ranking of technologies

- 1. Rice
- 2. Piggery
- 3. King chilli
- 4. Toria
- 5. Green gram
  - Black gram

#### List of location specific training needs

- Planning for early vegetables to get higher returns, resource conservation technologies, nutrition garden, soil fertility management, scope for farm mechanization and management of livestock's
- Proper management of spices and tuber crops, integrated plant nutrient management, Introduction of high yielding breeds of pig, poultry etc. and their management.
- 3. Processing of fruits and vegetables, propagation of fruits and vegetables and lay out and management of orchards
- 4. Production of low volume high value crops
- 5. Soil conservation, soil fertility management and introduction of improved farm tools and implements
- 6. Training and pruning of fruit plants, organic cultivation of fruits and vegetables, Bio control of pests and diseases, IPM, location specific drudgery reduction technologies, soil water testing and vaccination and health care for animals
- 7. Rejuvenation of declining orchards, management of medicinal and aromatic plants, soil nutrient management, vaccination and health care for animals, mother and child care
- 8. Short duration HYV paddy, SRI method, Vermi-compost and vermin-wash making technique, Production of hybrid maize, QPM and baby corn, Water management, Improved jhuming and fallow management, Seed production in oilseed
- 9. Production of off-season vegetables, Production of cole crops, INM in vegetable crops, Training and pruning of fruit trees, Layout and management of orchard, Nursery raising and management, INM in fruit crops
- 10. Swine fever Prevention, Treatment and control, Promotion of pig breeding farm, balance feeding for economic livestock production
- 11. IPM on paddy and maize, Rodent control/ management, Pesticide formulation and safe handling, Care and up-keepment of PP equipment, Care and management of apiary
- 12. Production of quality seeds and planting materials, Selection and hybridization, Bio-diversity conservation of endangered species
- 13. Gender sensitization, Development of women entrepreneurs in agri and allied sectors, Use of PRA tools, mobilization of social capital in villages, Formation and management of SHGs/ CIGs

#### Focus areas of KVK

- Replacing the long duration Kharif TRC Paddy Varieties with short duration HYV
- Promotion of SRI
- Collection, selection and screening of the local variety of crops
- Creation and recognition of role models amongst farming community
- Post harvest processing and value addition in important agri-horti commodities.
- Conducting OFT and FLD with their critical evaluation for feed back or feed forward
- Development and publication of need based literatures, newsletters, leaflets, pamphlets, manual etc.
- Optimization of crop nutrient requirement through organic and IFS.
- Identification and use of microbes for fast decomposition of organic/crop residues and promotion of organic fertility.
- Rain water harvesting, in-situ conservation of water and their judicious use through micro irrigation.
- Promoting feed and fodder resources including locally available fodder for livestock, upgradation of local breeds, management and health care.
- Formation of SHG and promotion of storage, processing and value addition.
- Socio-economic viability approaches.
- Problem identification of the area with community participation approach (PRA) etc.
- Conduction, seminar, trainings, exhibition, conference and workshop etc.
- Development of farmers database.
- HRD, Monitoring evaluation, impact analysis and follow up reporting.
- Documentation on lesser known wild edibles of the district.
- Development of Integrated Farming System Model in the district

#### Technology Inventory and Activity Chart - III

#### Include

- Names of research institutes, research stations, regional centres of NARS (SAU and ICAR) and other public and private bodies having relevance to location specific technology needs
- 2. Inventory of latest technology available

SI. No	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference/cit ation
1.	TS -36 & 38	Toria	2006	RARS, Shillongani, NRC on Rapeseed – Mustard, Bharatpur	NA
2.	Megha-1, Sel -1, Punjab chaura, Longkum local	Tomato	2005	RARS, Shillongani	NA
3	Pushpa	Broccoli	2008	ICAR	NA

#### 3. Activity Chart

Crop/Animal/Ent erprise	Problem	Cause	Solution	Activity	Reference of Technology
Toria	Low productivity under rainfed condition	Use of old aged local cultivars     Non adoption of water conservation	Introduction of HYV and moisture stress     Tolerant varieties     Practice of mulching using paddy straw	Single component     FLD to demonstrate     effect of paddy     straw as mulch     material      OFT on HYV	NA
Tomato	1.Low productivity	use of local varieties     2.non adoption of recommended practices     3. non availability of improved seeds	Introduction of high yielding varieties,     adoption of recommended practices	training and FLD programme on recommended practices     OFT on HYV	NA

### 1. Details of each of the technology under Assessment, Refinement and demonstration

#### Include

a. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD and OFT

1. Toria (TS -36 & TS -38):

 Plant height
 42-99 cm

 Branches
 3.6 - 5.6

 Seeds
 12-20

 Days of maturity
 102-125

- Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc., for technologies selected under FLD and OFTs Broccoli, tomato
- c. Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for FLD and OFT
  - 1. Toria (TS -38 & TS -36)

Varieties are late sowing and more tolerance to moisture stress, after the Jhum paddy harvest farmers get enough time for land preparation for sowing