PROFORMA FOR ANNUAL REPORT OF KVKS, 2012-13

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
KVK, Mamit District, Lengpui, Mizoram PIN-796421	0389-2573337	0389-2573338	kvkmamit@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Directorate of Agriculture (Research & Education) Aizawl, Mizoram	0389-2319025	0389-2315784	mizagri@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Vanlalhruaia Hnamte	0389-2315762	09436152189	kvkmamit@gmail.com

1.4. Year of sanction: 2005

1.5. Staff Position (As on 31st March, 2013)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Vanlalhruaia Hnamte	Programme Coordinator	Agro-forestry	15600+8000	25140	30.08.11	Temporary	ST
2	Subject Matter Specialist	Henry Saplalrinliana	S.M.S.	Soil Science	15600+5400	17550	22.4.08	Permanent	ST
3	Subject Matter Specialist	Md.Mintul Ali	S.M.S.	Fishery	15600+5400	17550	22.4.08	Permanent	Other
4	Subject Matter Specialist	Lalrinsangi	S.M.S.	Agro-forestry	15600+5400	17550	22.4.08	Permanent	ST
5	Subject Matter Specialist	Dr. C. Rinawma	S.M.S.	Animal Science	15600+5400	18060	22.4.08	Permanent	ST
6	Subject Matter Specialist	Dr.Rohit Shukla	S.M.S.	Horticulture	15600+5400	17550	22.4.08	Permanent	Other
7	Subject Matter Specialist	Vanlalhruaia	S.M.S.	Plant Protection	15600+5400	17550	22.4.08	Permanent	ST
8	Programme Assistant	K. Zohmingliani	Farm Manager	Agriculture	9300+4200	11580	22.4.08	Permanent	ST
9	Computer Programmer	Biakhlupuii Chenkual	Prog. Assistant	Home Science	9300+4200	11120	9.11.09	Permanent	ST
10	Farm Manager	C. Ramdinsanga	Computer Programmer	Computer Science	9300+4200	11580	22.4.08	Permanent	ST

11	Accountant / Superintendent	Lalrinchhana	Accountant / Superintendent	Commerce	9300+4200	11580	22.4.08	Permanent	ST
12	Stenographer	B.Laldinpuii	Stenographer	N.A.	5200+2400	8420	29.2.08	Permanent	ST
13	Driver	Lalchungnunga	Driver	N.A.	5200+1900	6610	29.2.08	Permanent	ST
14	Driver	Lalchuailova	Driver	N.A.	5200+1900	6610	29.2.08	Permanent	ST
15	Supporting staff	Lallawmkima	Supporting staff	N.A.	4440+1900	5330	10.7.08	Permanent	ST
16	Supporting staff	P.C.Lalthanpuii	Supporting staff	N.A.	4440+1900	5330	10.7.08	Permanent	ST

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	2.0
2.	Under Demonstration Units	2.5
3.	Under Crops	3.0
4.	Orchard/Agro-forestry	2.0
5.	Others (specify)	17.5

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	8.3.10	550	54,22,000.00	NA	NA	NA
2.	Farmers Hostel	ICAR	10.3.08	297.87	35,86,756.00	NA	NA	NA
3.	Staff Quarters (9)	ICAR for 6 Quarters and State Govt. for 3 quarters	1.6.08	400	39,00,000.00	NA	NA	NA
4.	Demonstration Units (2)	ICAR	1.6.08	-	NA	NA	NA	NA
5	Fencing	NA	NA	NA	NA	NA	NA	NA
6	Rain Water harvesting system	ICAR	8.310	NA	NA	NA	NA	NA
7	Threshing floor	NA	NA	NA	NA	NA	NA	NA
8	Farm godown	NA	NA	NA	NA	NA	NA	NA

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Maruti Gypsy (Hard Top)	2007	4,50,000.00	41896.7	Running Condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (`)	Present status
Xerox Machine (Xerox Work Center-518 Sl. No.ZZH-3503716240)	2008	1,54,000.00	Good Condition
Laser Printer (HP Laser Jet-1020+ Sl. No. VNC3760857)	2008	45,00.00	Good Condition
Speaker UMAX Model-UPB-1400FM	2008	1,500.00	Good Condition
CPU 55274-692-4406923-23495	2008	14,000.00	Good Condition
LCD Monitor BenQ G 700AD Model ET-0005-B	2008	8,800.00	Good Condition
UPS Supercomp SEV Fortune 600 B080515-10307	2008	2,000.00	Good Condition
One Bundle of blank CD	2008	400	Used
V-SAT (HCIL)	2009	1,00,000	Good condition
BSNL Broad band	2010	NA	Good condition
Projector Vivek (DLP Projector) Model.D325MX Sl.No.WD325MX7520162	2008	87,000.00	Good Condition
Handy Video Camera Sony 4.0MP Model No.HDR-SRIOEN50, 799807	2008	75,000.00	Good Condition
UPS Supercomp No.B080603-7519	2008	1,800.00	Good Condition
Plain Paper Fax with Copier Panasonic Model No.KX-FP701CX, KX-FP702CX	2008	9,996.00	Good Condition
Wireless Amplifier AHUJA WA-320 No.08011080	2008	12,600.00	Good Condition
Dynamic Wireless Microphone, AHUJA AWM-322	2008	460.00	Good Condition
Samsung ML-1640 Series Printer	2010	5,000.00	Good Condition
QS250 Speakers	2010	15,500.00	Good Condition
AC Voltage Stabilizer Model: VR45, Sr No. : 17569	2010	4,000.00	Good Condition
HP Office jet 3608 All-in-One (Fax-Print-Scan-Copy)	2010	NA	Good Condition
EPSON Stylus Office T1100, Model No: B322A	2010	20,000.00	Good condition
Amplifier Proton Power Mixer POD 650	2010	2,214.00	Good Condition
Microphone ,SHURE PG48-XLR-B	2010	6,000.00	Good Condition
Microphone Professional, MIPRO M7-103, MR-515, MH-202, Wireless.	2010	NA	Good Condition
Assemble Computer, Pentium(R) Intel Dualcore CPU-E5200 2.49ghz, 0.99GB of RAM, Frontech LCD Monitor	2008	NA	Good Condition
Assemble Computer, Pentium(R) Intel Dualcore CPU-E5200 2.70ghz, 2GB of RAM, HP LCD Monitor	2010	NA	Good Condition
Lenovo branded Computer , 1GB RAM,2.7ghz	2008	NA	Good Condition
Assemble Computer Pentium(R) Intel Dualcore CPU-E5200 2.50ghz, 1.99GB of RAM, Benq LCD Monitor	2010	NA	Good Condition
HP branded Computer, 2.50ghz, 1.99GB of RAM, Benq LCD Monitor	2010	21,500	Good Condition
Speaker Stand QSSAL, No.: 080819011, S.No.: 409 & 420	2010	3,500	Good Condition
Microphone Stand AHUJA BMS – 101, Made in India	2010	1,200	Good Condition
Television Panasonic 29”	2010	NA	Good Condition
Advanced DVD Player with 5.1 ch Samsung DVD- C460	2010	NA	Good Condition
Automatic weather station	2008	NA	Good Condition

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

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	22.3.2013	1. Pu C. Lalniliana, Chairman SAC and Director, Department of Agri (R&E) 2. PuVanlalhruaiaHnamte, Member Secretary SAC and Programme Coordinator, KVK, Mamit	1.Reviewing of activities & progress of KVK. 2.Presentation and	Action being taken

		District 3. Jenny Sailo, ACF (On behalf of DFO, Mamit) 4. VanlalvuanaRokhum, HEO, Mamit Subdivision 5. Danny LalrindikaHauhnar, F.C, Mamit Subdivision 6. Lallianzara, AEO, Mamit 7. Lalroliana, VFA (On behalf of DVO, Mamit) 8. Laldingluaia, for DFDO, Mamit 9. Lalthlengliana, Farmers representative 10. K.C. Laldawngliana, Farmers representative 11. P.C. Lalmuanpuii, Farmers representative 12. Lalramliani, Farmers representative 13. LalneihthangaColney, SMS (Research) Dte of Agri (R&E), Aizawl	approval of Action Plan 2012-13. Some changes were made in the OFTs. 3.Made suggestion for overall improvement of KVK	

**** Attach a copy of SAC proceedings along with list of participants***

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	*Jhum*
2.	Wet Rice Cultivation (Paddy)
3.	Cole crop farming
4.	Banana plantation
5.	Ginger / turmeric production system
6.	Orange production
7.	Areca nut plantation
8.	Fish farming
9.	Fish seed production
10.	Integrated backyard livestock farming

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

S. No	Agro-climatic Zone	Characteristics
1.	Humid Sub-tropical hill zone	Soil moisture regime – Udic, hyperthermic prevalent on eastern parts of the district on higher altitudes
2.	Humid Mid tropical zone	Soil moisture regime- Udic, hyperthermic, prevalent on western part of the district on lower hills and river valleys

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Alluvial soils	Entisols and inceptisols, mixed, hyperthermic, very deep to deep brown, aquic/fluventicdystrochrypts, broad and narrow valley	32159
2.	Sandy soils	Entisols and inceptisols,	47706

		mixed, hyperthermic, deep to dark yellowish brown, sandy loam, sandy clay, broad and narrow valley	
3.	Laterite soils	Ultisols, mixed, hyperthermic, dark brown to dark yellowish brown, sandy clay sub surface, well drained, hill side slopes and hill crest/top, moderate erosion, loamy skeletal texture	179606
4.	Acid soils	Ultisols, mixed, hyperthermic, strongly acidic horizons, hill side slopes, moderate to severe erosions, cutans are formed, fine loamy texture.	38146

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Rice	7391	111680	15.11
2.	Maize	640	9300	14.54
3.	Rice bean	135	940	6.97
4.	Pulses	432	3650	8.45
5.	Oil seed	387	2800	7.23
6.	Cotton	26	110	4.23
7.	Sugarcane	108	1700	15.75

2.5. Weather data

Month	**Rainfall (mm)**	**Temperature ^{0} C**		**Relative Humidity (%)**
		Maximum	Minimum	
April, 2012	180.58	30.2	17.1	86.7
May, 2012	272.82	30.4	18.9	97.0
June, 2012	464.0	29.5	20.4	98.0
July, 2012	799.3	29.4	21.1	99.0
August, 2012	617.37	28.5	22.0	99.0
September, 2012	559.65	27.5	22.0	99.0
October, 2012	815.43	27.6	17.4	99.0
November, 2012	634.0	25.0	14.0	90.0
December, 2012	285.0	24.7	8.6	90.0
January, 2013	57.38	15.5	8.0	70.0
February, 2013	180.0	16.9	9.9	70.0
March, 2013	145.67	21.2	14.1	70.94

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

Category	**Population**	**Production**	**Productivity**
Cattle			
Crossbred	*Crossbred*	*Crossbred*	*Crossbred*
Indigenous	*Indigenous*	*Indigenous*	*Indigenous*
Buffalo	**Buffalo**	**Buffalo**	**Buffalo**
Sheep			
Crossbred	Crossbred	Crossbred	Crossbred

Indigenous	*Indigenous*	*Indigenous*	*Indigenous*
Goats	**Goats**	**Goats**	**Goats**
Pigs	**Pigs**	**Pigs**	**Pigs**
Crossbred	*Crossbred*	*Crossbred*	*Crossbred*
Indigenous	*Indigenous*	*Indigenous*	*Indigenous*
Rabbits	**Rabbits**	**Rabbits**	**Rabbits**
Poultry			
Hens	Hens	Hens	Hens
Desi	*Desi*	*Desi*	*Desi*
Improved	*Improved*	*Improved*	*Improved*
Ducks	Ducks	Ducks	Ducks
Turkey and others	Turkey and others	Turkey and others	Turkey and others

Category	**Area**	**Production**	**Productivity**
Fish	828	6020	7.27
Marine	NA	NA	NA
Inland	NA	NA	NA
Prawn	NA	NA	NA
Scampi	NA	NA	NA
Shrimp	NA	NA	NA

2.6 Details of Operational area / Villages (2012-13)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
W.Phaileng	W.Phaileng	W.Phaileng, Chhippui, Lallen, Saithah, Phuldungsei, Pukzing, Marpara, Andermanik, Rajivnagar, Tuipuibari, Damparengpui, Teirei, Khawhnai, Parvatui	Paddy, Maize, Ginger, Turmeric, Khasi mandarin, Vegetable, Oil Palm, livestock, fishery	Scientific know how, quality breed, quality seeds and planting materials, feed, medicines, soil erosion, acidic soil, water scarcity, citrus decline, pests, paddy leaf roller, post harvest management and marketing problems, irrigation, communication problems.	Training on scientific agriculture and allied, introduction of quality seeds and planting materials, disease management, post harvest management, value addition, introduction of improved production technologies, integrated farming.	

W.Phaileng	Reiek	Bawngthah, Kanghmun, Khawrihnim, W.Lungdar, Ailawng, Reiek, Rulpuihlim, Tuahzawl, Chungtlang, Rawpuichhip, Hmunpui, W.Serzawl, Lengpui, Lengte, Nghalchawm	Paddy, Maize, Ginger, Turmeric, Vegeable, Oil Palm, Khasi Mandarin, livestock, fishery	Scientific know how, quality breed, quality seeds and planting materials, feed, medicines, soil erosion, acidic soil, water scarcity, citrus decline, pests, paddy leaf roller, post harvest management and marketing problems, irrigation, communication problems.	Training on scientific agriculture and allied, introduction of quality seeds and planting materials, disease management, post harvest management, value addition, introduction of improved production technologies, integrated farming.	
Mamit	Zawlnuam	Kanhmun, Moraichera, Zamuang, Rengdil, Lushaicherra, Zawlpui, Hriphaw, Saikhawthlir, Chhuhvel, Zawlnuam, Bawrai	Paddy, Maize, Ginger, Turmeric, Vegeable, Oil Palm, Khasi mandarin, livestock, fishery	Scientific know how, quality breed, quality seeds and planting materials, feed, medicines, soil erosion, acidic soil, water scarcity, citrus decline, pests, paddy leaf roller, post harvest management and marketing problems, irrigation, communication problems.	Training on scientific agriculture and allied, introduction of quality seeds and planting materials, disease management, post harvest management, value addition, introduction of improved production technologies, integrated farming.	
Mamit	Mamit	Mamit town, N.Sabual, Pathiantlang, Suarhliap, Nalzawl, Liandophai, Darlak, Kawrtethawveng, Tuidam, Kawrthah, Serhmun, Bunghmun	Paddy, Maize, Ginger, Turmeric, Vegeable, Oil Palm, Khasi Mandarin, livestock, fishery	Scientific know how, quality breed, quality seeds and planting materials, feed, medicines, soil erosion, acidic soil, water scarcity, citrus decline, pests, paddy leaf roller, post harvest management and marketing problems, irrigation, communication problems.	Training on scientific agriculture and allied, introduction of quality seeds and planting materials, disease management, post harvest management, value addition, introduction of improved production technologies, integrated farming.	

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2012-13

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Horticulture	4	4	8	7	3	3	6	5
Agro-Forestry	3	3	6	6	-	-	-	-
Plant protection	3	3	6	5	-	-	-	-
Animal Scinece	3	3	6	11	-	-	-	-
Fisheries	2	2	4	4	-	-	-	-

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	85	37	925	936	165	361	5294	3929
Rural youth	16	7	125	187			1635	
Extn. Functionaries	8	5	50	92			518	100
	109	49	1100	1240	165	361	7447	4029

Seed Production (Qt.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
Rice (Chhimtung local),	1.42 qtl.	Brinjal	2000 Nos.
Maize	0.2 qtl.	Chilli	2000 Nos.
Parbhani Kranti	0.1 qtl	Cabbage, **Improved Bahar & Pragati plus**	4000 Nos.
Ginger	NA	Broccoli, **Aiswaraya**	2000 Nos.
		Tomato, **NP 503**	2000 Nos.
		Chinese cabbage	1000 Nos.
		Rose	NA
		Jackfruit	NA
		Ngiau (*Michelia champaca*)	NA
		Papaya	NA
		Tree-bean	20 nos.

3.B. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
	High density plantation	Banana	Low productivity due to wide spacing	High density plantation of banana var. Giant Cavendish*	NA	NA	NA	NA	Planting material
	Protected cultivation	Tomato	Scarcity during rainy season	Cultivation of tomato under protected condition	NA	Protected cultivation of Vegetables	NA	NA	Seed and seedling
	Production system	Birds-eye chilli	Low yield due to unscientific cultivation practices	Cultivation birds-eye using improved package of practices	NA	NA	NA	NA	Seeds
	Production system	French bean	Low yield due to unscientific cultivation practices	French bean cultivation by using improved package of practices	NA	NA	NA	NA	Seeds
	Green fodder cultivation	a. Maize (African tall) b. Alfalfa (Hybrid Texas/Dallas-137)	No identified varieties	Green fodder cultivation using: a. Maize African tall b. Alfalfa Hybrid Texas/Dallas-137	NA	Green fodder cultivation	NA	NA	Seeds
	Breed evaluation	Pigs	Non availability of improved breed that would otherwise have higher yield. Comparative analysis with the locally available crossbred pigs imported from Burma	Improved Pig Rearing: Hampshire	NA	Improved piggery farming	NA	NA	Piglets
	Improved dual purpose birds	Poultry	No identified dual purpose poultry	Improved dual purpose bird:. Vanaraja & local	NA	NA	NA	NA	NA
	Pest Management	Rice	Stem borer and leaf folder infestation	IPM of stem borer & leaf folder in rice.	NA	IPM on Rice	IPM on Rice	Diagnostic visit, Field Day	Seeds
	Weed management	Rice	Problem of weeding affected net yield	Weed management in WRC	NA	Weed management in WRC	Weed management in WRC	Diagnostic visit, Field Day	Seeds

	Disease Management	Tomato	Damping off, late & early blight and bacterial wilt.	Integrated Disease Management in tomato	NA	IDM on Tomato	IDM on Tomato	Diagnostic visit, Field Day	Seeds
	Agroforestry System	*Parkia roxburgii* Pineapple	Economic Productivity of Pineapple	Multipurpose tree based Agroforestry System (*Parkia roxburgii* with Pineapple)*	NA	Integrated farming system	NA	NA	Planting material
	Agri- Silvi System	agricultural crops (Cowpea, Green gram, Soybean) and Neem	No suitable agricultural crop neem based Agroforestry system	Interactions of Neem tree with Agricultural crops*	NA	NA	NA	NA	Seeds and planting material
	Agri-Horti System	Coconut, Ginger, soyabean	Lack of technical knowhow on cultivation of coconut and intercrop management	Intercropping under Coconut	NA	NA	NA	NA	Seeds
	Fishery	Fish (Catla, Rohu and Mrigal)	Poor pond management	Rearing of carp seed on backyard pond	NA	NA	NA	NA	Seed
	Fishery	Common carp & paddy	Low income from monoculture of paddy	Paddy cum fish culture	NA	NA	NA	NA	Seed
	Fishery	Common carp	Seed unavailability	NA	Breeding of common carp	Breeding of common carp	NA	NA	NA
	Production system	Okra	Low production due to conventional farming practice	NA	Cultivation of okra by using package of practices	Cultivation of Okra	NA	Field day	Seed
	Production system	Broccoli	Lack of technical know how on cultivation of broccoli	NA	Cultivation of exotic vegetable-broccoli	Improved package of ermin e s of broccoli cultivation	NA	Field day	Seeds
	Production system	Cabbage	Low production due to conventional farming practice	NA	Improved package of practices of cabbage cultivation	Improved package of practices of cabbage cultivation	NA	Field day	Seeds

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	-	-	-	-	3	1	-	-	-	4

Weed Management	1	-	-	-	-	-	-	-	-	1
Integrated Crop Management	-	-	-	-	-	-	-	3		3
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	1	-	-	-	-	-	-	-	-	1
Integrated Disease Management	-	-	-	-	1	-	-	-	-	1
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL	2	-	-	-	4	1	-	3	-	10

* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro situation.*

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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Seed / Plant production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weed Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Integrated Crop Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Integrated Nutrient Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Integrated Farming System	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mushroom cultivation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Drudgery reduction	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Farm machineries	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Post Harvest	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Technology										
Integrated Pest Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Integrated Disease Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Resource conservation technology	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Small Scale income generating enterprises	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

***** *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds	-	1	-	-	1	-	-	2
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-		
Production and Management	-	-	-	-	-	-	2	2
Feed and Fodder	1	-	-	-	-	-	-	1
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	1	1	-	-	1	-	2	5

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

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

11). Results of On Farm Trials

Title of OFT	Problem Diagnosed	Technology Assessed	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio
High density plantation of banana var. Giant Cavendish*	Low productivity due to wide spacing	High density banana plantation (Giant Cavendish) Planting spacing 1.2 X 1.8m., treatment of planting material with Carbofuran (Furadon 3 G) @ 40 g/plant, pit size 45 X 45 X 45 cm filled with mixture of 12kg FYM and top soil. NPK was applied @ 110g, 33gm and 330 gm each plant	3	**High Density Planting** 1. Pseudo stem height (191cm) 2. Pseudo stem girth (56cm) 3. Days to shooting (259) 4. Shooting to harvesting interval (115) 4. Bunch weight (11kg) 5. Yield(49.25t/ha) **Farmer practices** . Pseudo stem height (194cm) 2. Pseudo stem girth (58cm) 3. Days to shooting (266) 4. Shooting to harvesting interval (121) 4. Bunch weight (15kg) 5. Yield(16.55t/ha)	Due to higher initial cost few progressive farmers are ready to adopt high density planting of banana	Limited availability of quality disease free planting material and other inputs.	HDP (1.59:1) FP(1.42:1)
Cultivation of tomato under	Scarcity during	a.Cultivation of tomato under protected condition (polyhouse)	3	**Protective condition**	1. Due to higher	This technology is	Protected cultivation

protected condition	rainy season	b. Cultivation under open field condition		No. fruits /plant: 20.0 Av. Fruit wt. : 58g Yield 620q/ha **Control:** No of fruits /plant :13.0 Av. Fruit wt: 41g Yield :240q/ha	initial cost few progressive farmers are willing to adopt this technology. 2. Incidence of bacterial wilt and early blight was observed	suitable for off season production but more incidences of diseases were observed.	(3.28:1) Control (1.52:1)
Cultivation birds-eye chilli using improved package of practices	Low yield due to unscientific cultivation practices	a. Improve package of practices b. Farmer practices	3	**Improved practices (IP)** Av. No of fruits /plant:70 Av. Fruit length (cm.): 2.18cm Av. Fruit weight (g):0.45g Av. Fruit Diameter (cm.): 0.54cm Yield(q/ha): 5.60q/ha **Farmer practices (FP)** Av. No of fruits /plant:53 Av. Fruit length (cm.): 1.83cm Av. Fruit weight (g):0.42g Av. Fruit Diameter (cm.): 0.52cm	Although improved package of practices are good but very few farmers are interested to grow bird's eye chilli as sole crop most of farmers preferred grow as mixed crop in *Jhum*	More trials are required to be taken up.	IP(3.38:1) FP(2.72:1)

				Yield(q/ha): 3.95q/ha			
French bean cultivation by using improved package of practices	Low yield due to unscientific cultivation practices	a. Improve package of practices b. Farmer practices	3	**Improved practices** Av. Fruit length (cm.): 13.5cm Yield(q/ha): 97q/ha **Farmer practices** Av. Fruit length (cm.): 11.4cm Yield(q/ha): 78q/ha	Farmers are willing to adopt the technology	Limited availability of inputs on time. More trials are required with dwarf varieties	IP(2.40:1) FP(2.24:1)
Multipurpose tree based agroforestry system(*Parkiaroxburgii* with Pineapple)	Economic productivity of pineapple	1.Farmers practice-Cultivation of Pneapple. 2.Cultivation of Pineapple with *Parkiaroxburgii*	3	23) Yield of Pineapple(1st year)= 120 qtl/ha 2.Farmers practice- yield 120 qtl/ha	Farmers are interested and willing to try out the technology	In the present study yield of Pineapple is not effected by *parkiaroxburgii*.To draw some concreate results a long term trials is needed.	Ongoing
Interactions of neem tree with agricultural crops	Suitable Agricultural Crop Neem based Agroforestry system	1.Cultivation of Agricultural crops(Cowpea,Greengram,soybean) 2.Cultivation of Agricultural crops with Neem tree	2	Planting of Neem trees is done with a spacing of 7mx7m in the first year, within this year cultivation of Agricultural crops will be carried out.	Farmers are not much interested.	Effect of one year old Neem tree will be study on growth and yield of Agricultural crops	Ongoing
Inter cropping under coconut	Lack of technical know how on cultivation of Coconut and	1. Coconut as monocrop 2. Coconut intercrop with Ginger 3. Coconut intercrop with Ginger and soyabean	3	1mx1mx1m size pit are dig and Coconut seedlings are planted at a spacing of 7.5mx7.5m during May,2012.This year Ginger and Soyabean will be cultivated .	Farmers are willing to accept the technology	Effect of intercropped will be study on growth and development of Coconut	Ongoing

	intercrop management						
IPM of Stem borer & Leaf Folder in Rice	Stem borer & Leaf Folder infestation in Rice	1) Seedling root dip treatment in Chlorpyriphos 20 EC @ 10ml/10 litre water for overnight. 2) 6-8 releases of *Trichogrammajaponicum* @ 50,000/ha/week 30DAT 3) Spraying of Monocrotophos 36 EC @ 2ml/litre water at 45 DAT	3	1. Crop yield = 48.85 q/ha 2.Pest incidence= 10% 3. Economic Threshold Level/sq.m a). Stem borer : 5% dead hearts or one egg mass/m2 at planting to tillering stages or one moth/sq.m at panicle initiation to booting or flowering stages. b) Leaf folder : One damaged leaf per hill or one larva per hill at planting and 1-2 freshly damaged leaf per hill at mid tillering or panicle initiation to booting stages **Farmers practice**: yield 30 qtl/ha pest incidence – 25%	Farmers are interested and willing to adopt the new technology but find it difficult to get the bio-pesticide as the only source in the State is at Thingdawl Agriculture Farm, about 110 kms from Lengpui via Aizawl.	The bio-pesticide was obtained from Thingdawl Agri. Farm about 110 kms from Lengpui via Aizawl and as it requires immediate application, a good channel to bring the bio-pesticide for timely application is needed.	Improved practice = 2.06 Farmer's practice = 1.19
Weed Management in WRC	Problem of weeding affected net yield	Pre-emergence application (3-5 DAT) of Butachlor 1 kg/ha followed by weeding at 40 DAT	3	Yield = 48.89 qtl./ha Dry wt. of weed : 30 DAT= 4.64g/sq.m 60 DAT= 5.0g/sq.m Harvest= 5.0g/sq.m **Farmers practice**: Yield 30 qtl/ha Dry wt. of weed : 30 DAT= 25g/sq.m 60 DAT= 30g/sq.m	Farmers are willing to accept the technology		Improved practice = 2.06 Farmer's practice = 1.19

				Harvest= 35g/sq.m			
Integrated Disease Management in Tomato	Damping-off, Late & Early Blight, Bacterial Wilt	1. Treating the nursery bed with *Trichodermaviride @ 2 %* 2. Soil drenching with Ridomil MZ 2g/l @ 8-10 days interval till seeds are ready for transplanting. 3. Removal and burning of affected leaves and fruits. 4. Application of Metalaxyl&Mancozeb @ 2g/l alternatively at the time of disease appearance.	3	**Crop yield** = 240 qtl /ha **Disease incidence :** 5 % infected **Farmers practice –** crop yield= 145 qtl/ha Disease incidence = 20 %	Farmers are willing to accept the technology	More trials are required to be taken up at different soil conditions for bacterial wilt.	Improved practice =2.87 : 1 Farmer's practice =1.73:1
Green Fodder Cultivation Using: a. Maize African tall b. Alfalfa Hybrid Texas/Dallas-137	No identified fodder varieties	ICAR Research Complex for NEH Region, Umiam, Meghalaya, 2008	3	Maize Dry Matter percentage: 13 Crude Protein percentage: 10.86 Crude fiber percentage: 25 Change in Milk yield: Fat%: 3.97 SNF%: 8.94 Alfalfa DM%: 9.66 CP%: 19.7 CF%: 10.53 Change in Milk Yield: Fat%: 3.2 SNF%: 7.2 *control: Fat%: 3.2 SNF%: 7.1	Farmers are interested and willing to adopt the new technology after more trials	It is expensive since Lengpui area has natural grass availability. But the concept with its suitability towards concentrate mixture poses the better advantage.	MAIZE: 2:1 ALFALFA: 1.4:1

Improved pig rearing: Hampshire	Non availability of improved breed.	ICAR Research Complex for NEH Region, Umiam, Meghalaya, 2008	3	Body Weight gain: 1.56 kg kitchen waste were given with an approximate 1 kg of locally available greens and an approximate 100 gms concentrate on a daily basis. The average monthly weight gain upto 10 months of age approximated 5.600 Kg	Farmers are interested and willing to adopt the new technology after more trials	Availability of Hampshire depends on breeding policy of the State often hindered by illegal importation of its half breed from neighboring country: Burma.	2:1
Improved dual purpose bird: Vanaraja	No identified dual purpose poultry	ICAR Research Complex for NEH Region, Umiam, Meghalaya, 2008	3	The age at sexual maturity was 171 ± 3 days, and the egg production of 145 ± 2 eggs /hen/annum with an average egg weight of 58 g.	Farmers are interested and willing to adopt the new technology after more trials	Since commercial feeds were used the optimum expected productivity could not be reached	2.93:1
Paddy cum fish culture	Low income from monoculture of paddy	1. Species: *Cyprinuscarpio* 2. Stocking density 5000nos./ha 3. Liming 500 kg/ha/year 4. Cow dung 20 tons/ha/year 5. Feeding 2 % of fish body weight	2	23) Productivity Fish: 440 kg/ha/5 months Rice: 29.62 q/ha Disease: No 2. Survivability of fish:82% **Farmers practice** Rice: 29.62 q/ha Disease: No	Farmers are willing to adopt the technology	Further refinement is needed in terms types of trench systems, fish stocking density and species of fish.	1. Improved practices-2.03:1 2. Farmers practice-1.77:1
Carp seed rearing	Poor pond	1. Species: Spawn of catla, rohu and	2	1. Survivability 55	Farmers are	Refinement is	1. Improved

at backyard pond	management	mrigal 2. Pond size: 200m^2 Depth: 1m 3. Lime : 1.75 kg/.02ha 4. Application of MOC (5kg) 5 days before stocking 4. Application of soap oil emulsion 6. Feeding with rice bran and oil cake (1:1), 1-5 days 4 times of the initial body weight, 6-12 days 8 times of the initial body weight		% 2. Average size of the harvest Length (mm) Weight (mg) Catla 21 93 Rohu 20.1 90 Mrigal 19.2 66 23) Numbers recovered 55000 nos. **Farmers practice** 1. Survivability 44 % 2. Numbers recovered 44000 nos.	willing to adopt the technology	needed in stocking density, pond types and feeding management.	practices-4.24:1 2. Farmers practice-3.10:1

Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and ermin compost kg/unit area.

****** Give details of the technology assessed or refined and farmer's practice***

3.2 Achievements of Frontline Demonstrations

23) Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2012-13 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
1			No. of villages	No. of farmers	Area in ha
2					
3					

**** Thematic areas as given in Table 3.1 (A1 and A2)***

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rf/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					
	Okra	Crop production	Improved package of practices of okra cultivation, developed by ICAR (RC) NEHR, Mizoram Centre,	Kharif, 2012	0.4	0.2	1	-	2	-	Rainfed	-	-	-

			Kolasib											
	Broccoli	Exotic vegetables production	Improved package of practices of broccoli cultivation, developed by ICAR (RC) NEHR, Mizoram Centre, Kolasib	Rabi, 2012	0.4	0.4	2	-	2		Irrigated	-	-	--
	Cabbage	Crop production	Improved package of practices of cabbage cultivation, developed by ICAR (RC) NEHR, Mizoram Centre, Kolasib	Rabi, 2012	0.4	0.4	2	-	2		Irrigated	-	-	-

Performance of FLD

Sl. No.	Crop	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Data on parameter in relation to technology demonstrated (Yield, Disease incidence, etc. as specified in FLD Programme)		Economic Impact				Technical Feedback on the Demonstrated Technology	Farmers' Reaction on specific Technologies
								Average Net Return (Profit) (Rs./ha)		B.C. Ratio			
								Demo	Local Check	Demo	Local Check		
		H	L	A		Demo	Local						
1	2	7	8	9	10	12	13						
1	Okra			96	71	Fruit length : 13.5 cm Fruit weight:	Fruit length : 10.5 cm	44,000	35,000	2.28:1	1.97:1	Yield attributed characters are superior to the	The villagers are motivated for adoption.

						1.6 g Yield:96q/ha	Fruit weight: 1.2 g Yield: 71 q/ha					Existing practices	Progressive farmers from nearby villages have come forward for adoption
2	Broccoli			112.6	84.48	Head weight : 352g Yield : 112.6 q/ha	Head weight : 264g Yield: 84.48 q/ha	165,080	118,560	3.74:1	3.35:1	Yield attributed characters are superior to the Existing practices	The villagers are motivated for adoption. Progressive farmers from nearby villages have come forward for adoption
3.	Cabbage			284.8	225.6	Head weight : 890g Yield : 284.6 q/ha	Head weight : 705g Yield : 225.6 q/ha	141660	101940	3.46:1	2.79:1	Yield attributed characters are superior to the Existing practices	The villagers are motivated for adoption. Progressive farmers from nearby villages have come forward for adoption

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

Extension and Training activities under FLD

Sl. sNo.	**Activity**	**No. of activities organized**	**Date**	**Number of participants**	**Remarks**
1	Field days	3	19.9.2012 19.11.2012 16.1.2013	89	Okra, paddy & cabbage, broccoli
2	Farmers Training	37		884	
3	Media coverage	9		-	

4	Training for extension functionaries	5		92	

23) Details of FLD on Enterprises

23) Farm Implements

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

**** Field efficiency, labour saving etc.***

(ii) Livestock Enterprises

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

**** Milk production, meat production, egg production, reduction in disease incidence etc.***

(iii) Other Enterprises

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom								
Apiary								
Sericulture								
Vermi compost								

Achievements on Training both On and Off Campus (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit) :

Thematic area	No. of courses			Participants																			
				Others						SC/ST						Total						Grand Total
	On	Off	Total	Male		Female		Total		Male		Female		Total		Male		Female		Total		
				On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	
(A) FARMERS & FARM WOMEN																							
I. Crop Production																							
Weed Management																							
Resource Conservation Technologies																							
Cropping Systems																							
Crop Diversification																							
Integrated Farming																							
Water management																							
Seed production																							
Nursery management																							
Integrated Crop Management																							
Fodder production																							
Production of organic inputs																							
II. Horticulture																							
a) Vegetable Crops																							
Production of low volume and high value crops																							
Off-season vegetables																							
Nursery raising	-	1	1							-	20	-	12	-	32	-	20	-	12	-	32	32
Exotic vegetables like Broccoli	1	-	1							10	-	10	-	20	-	10	-	10	-	20	-	20
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	-	2	2							-	30	-	12	-	42	-	30	-	12	-	42	42
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques	1	1	2							15	15	8	9	23	24	15	15	8	9	23	24	47
c) Ornamental Plants																						
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 addition																						
e) Tuber crops																						
Production and																						

Management technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management																						
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 Production and Management																						
Dairy Management	1	-	1							15	-	10	-	25	-	15	-	10	-	25	-	25
Poultry Management	1	1	2							15	15	10	10	25	25	15	15	10	10	25	25	50
Piggery	2	1	3							30	15	20	10	50	25	30	15	20	10	50	25	75

Management																						
Rabbit Management																						
Disease Management	1	1	2							15	15	10	10	25	25	15	15	10	10	25	25	50
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening																						
Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition	1	1	2							-	-	22	25	22	25	-	-	22	25	22	25	47
Income generation activities for empowerment of rural Women	-	1	1							-	-	-	25	-	25	-	-	-	25	-	25	25
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																						
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	3	1	4							50	15	27	10	77	25	50	15	27	10	77	25	102
Integrated Disease Management																						
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming	1	1	2							15	25	8	10	23	35	15	25	8	10	23	35	58
Carp breeding and hatchery management	-	1	1							-	25	-	10	-	35	-	25	-	10	-	35	35
Carp fry and fingerling rearing	1	1	2							15	17	6	11	21	28	15	17	6	11	21	28	49
Composite fish culture	-	2	2							-	35	-	20	-	55	-	35	-	20	-	55	55
Hatchery																						

management and culture of freshwater prawn																						
Breeding and culture of ornamental fishes																						
Portable plastic carp hatchery																						
Pen culture of fish and prawn																						
Shrimp farming																						
Edible oyster farming																						
Pearl culture																						
Fish processing and value addition																						
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production																						
Vermi-compost production																						
Organic manures production																						
Production of fry and fingerlings																						
Production of Bee-colonies and wax sheets																						
Small tools and implements																						
Production of livestock feed and fodder																						
Production of Fish																						

feed																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies	-	7	7							-	98	-	38	-	136	-	98	-	38	-	136	136
Nursery management	-	2	2							-	21	-	15	-	36	-	21	-	15	-	36	36
Integrated Farming Systems																						
TOTAL	**13**	**24**	**37**							**180**	**346**	**131**	**227**	**311**	**573**	**180**	**346**	**131**	**227**	**311**	**573**	**884**
(B) RURAL YOUTH																						
Mushroom Production	1	2	2							15	37	10	17	25	54	15	37	10	17	25	54	79
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	1	-	1							18	-	8	-	26	-	18	-	8	-	26	-	26
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery	2	-	2							30	-	20	-	50	-	30	-	20	-	50	-	50
Rabbit farming																						
Poultry production	1	-	1							15	-	10	-	25	-	15	-	10	-	25	-	25
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	1	-	1							25	-	7	-	32	-	25	-	7	-	32	-	32
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL	**5**	**2**	**7**							**103**	**37**	**55**	**17**	**158**	**54**	**103**	**37**	**55**	**17**	**158**	**54**	**212**
C) EXTENSION PERSONNEL																						
Productivity enhancement in field crops	1	-	1							12	-	3	-	15	-	12	-	3	-	15	-	15
Integrated Pest Management	1	-	1							10	-	5	-	15	-	10	-	5	-	15	-	15
Integrated Nutrient management																						
Rejuvenation of old 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	1	-	1							15	-	10	-	25	-	15	-	10	-	25	-	25
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	1	-	1							10	-	5	-	15	-	10	-	5	-	15	-	15
Gender mainstreaming through SHGs																						
Integrated Farming System	1	-	1							18	-	4	-	22	-	18	-	4	-	22	-	22
TOTAL	**5**	**-**	**5**							**65**	**-**	**27**	**-**	**92**	**-**	**65**	**-**	**27**	**-**	**92**	**-**	**92**
Grand Total (A+B+C)	**23**	**26**	**49**							**348**	**383**	**213**	**244**	**561**	**627**	**348**	**383**	**213**	**244**	**561**	**627**	**1188**

Note: Please furnish the details of above training programmes as <u>Annexure</u> in the proforma given below

Date	**Clientele**	**Title of the training programme**	**Discipline**	**Thematic area**	**Duration in days**	**Venue (Off / On Campus)**	**Number of other participants**			**Number of SC/ST**			**Total number of participants**		
							Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
11.9.2012	PF	Nursery raising of vegetable crops	Horticulture	Nursery raising	1	Off-campus	-	-	-	20	12	32	20	12	32
9.10.2012	PF	Exotic vegetable production	Horticulture	Exotic vegetables	1	On-campus	-	-	-	10	10	20	10	10	20
22.5.2012	PF	Cultivation	Horticulture	Cultivation of	2	Off-	-	-	-	30	12	42	30	12	42

28.6.2012		of fruit crops		fruit		campus									
23.5.2012 27.6.2012	PF	Plant propagation techniques	Horticulture	Plant propagation techniques	2	On & off-campus	-	-	-	23	24	47	23	24	47
20.4.2012	RY	Commercial fruit production	Horticulture	Commercial fruit production	1	On-campus				18	8	26	18	8	26
19.9.12	PF	Dairy management	Animal Science	Dairy management	1	On-campus				15	10	25	15	10	25
9.10.12 23.10.12	PF	Poultry management	Animal Science	Poultry management	2	On & off-campus				25	25	50	25	25	50
17.8.12 7.11.12 5.12.12	PF	Piggery management	Animal Science	Piggery management	3	Off & On-campus				45	30	75	45	30	75
28.9.12	EP	Management in farm animals	Animal Science	Management in farm animals	1	On-campus				15	10	25	15	10	25
22.5.12 28.6.12	PF	Disease management	Animal Science	Disease management	2	On & off-campus				25	25	50	25	25	50
17.4.12	RY	Piggery	Animal Science	Piggery	2	On-campus				30	20	50	30	20	50
8.6.12	RY	Poultry production	Animal Science	Poultry production	1	On-campus				15	10	25	15	10	25
27.6.12	PF	IPM in Citrus	Plant Protection	Integrated Pest Management	1	On-campus				15	10	25	15	10	25
28.6.12	PF	IPM in Citrus	Plant Protection	Integrated Pest Management	1	Off-campus				15	10	25	15	10	25
21.9.2012	PF	IPM in Tomato & Cole crops	Plant Protection	Integrated Pest Management	1	On-campus				25	7	32	25	7	32

17.10.12	PF	IPM in Khasi Mandarin	Plant Protection	Integrated Pest Management	1	On-campus				10	10	20	10	10	20
26.6.12	EP	Top Soil Bedded Terrace	Plant Protection	Productivity enhancement in field crops	1	On-campus				12	3	15	12	3	15
25.9.12	EP	IPM in citrus	Plant Protection	Integrated Pest Management	1	On-campus				10	5	15	10	5	15
25.9.2012	EP	Composting	Plant protection	Production and use of organic inputs	1	On-campus				10	5	15	10	5	15
22.3.2013	RY	Mushroom cultivation	Plant protection	Mushroom production	1	On-campus				15	10	25	15	10	25
19.4.12	PF	Integrated fish farming	Fishery	Integrated fish farming	1	On-campus				15	8	23	15	8	23
25.4.2012	PF	Composite fish culture	Fishery	Composite fish culture	1	Off-campus				13	8	21	13	8	21
10.5.2012	PF	Carp fry and fingerling rearing	Fishery	Carp fry and fingerling rearing	1	On-campus				15	6	21	15	6	21
25.5.2012	PF	Carp fry and fingerling rearing	Fishery	Carp fry and fingerling rearing	1	Off-campus				17	11	28	17	11	28
22.6.2012	PF	Integrated fish farming	Fishery	Integrated fish farming	1	Off-campus				25	10	35	25	10	35
22.6.2012	PF	Carp breeding and hatchery management	Fishery	Carp breeding and hatchery management	1	Off-campus				25	10	35	25	10	35
23.7.2012	PF	Composite fish farming	Fishery	Composite fish farming	1	Off-campus				22	12	34	22	12	34
21.9.2012	RY	Fry and fingerling	Fishery	Fry and fingerling	1	On-campus				22	10	32	22	10	32

		rearing		rearing											
23.4.2012	EF	Integrated farming system	Agroforestry	Integrated farming system	1	On-campus				18	4	22	18	4	22
9.5.2012	RY	Mushroom cultivation in agroforestry system	Agroforestry	Mushroom production	1	Off-campus				37	17	54	37	17	54
20.6.2012 23.7.2012	PF	Nursery management	Agroforestry	Nursery management	2	Off-campus				21	15	36	21	15	36
22.8.2012 5.9.2012	PF	Agroforestry for citrus cultivators	Agroforestry	Production technologies	2	Off-campus				25	11	36	25	11	36
19.9.2012 6.11.2012	PF	Agroforestry : principle, types, needs, etc.	Agroforestry	Production technologies	2	Off-campus				27	12	39	27	12	39
22.10.12	PF	Agroforestry for SRI farmers	Agroforestry	Production technologies	1	Off-campus				16	7	23	16	7	23
17.1.13 20.2.13	PF	Important fast growing tree species in Mamit District	Agroforestry	Production technologies	2	Off-campus				30	8	38	30	8	38
23.4.2012	Farm women	Value addition for farm women	Home Sc.	Value addition	1	On-campus				-	22	22	-	22	22
15.5.2012	Farm women	Income generation for rural women	Home Sc.	Income generation activities for empowerment of rural	1	Off-campus				-	25	25	-	25	25

				women											
20.6.2012	Farm women	Value addition for farm women	Home Sc.	Value addition	1	Off-campus				-	25	25	-	25	25
Total					**49**					**711**	**477**	**1188**	**711**	**477**	**1188**

(D) Vocational training programmes for Rural Youth

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

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

Sl. No	Date	Title	Discipline	Thematic area	Duration (days)	Client (PF/RY/EF)	No. of courses	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
								Others			SC/ST			Total				
								Male	Female	Total	Male	Female	Total	Male	Female	Total		
1	26-28th March, 2013	Training cum Demonstration on Harvest and Post-Harvest Technologies	Fishery	Harvest & post-harvest Technology	3	PF	12				5	47	52	5	47	52	Central Institute of Fisheries Technology, Visakhapatnam.	NA
Total					3		12				5	47	52	5	47	52		NA

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such xas Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc)

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Diagnostic visits	Fisheries, Animal Sc., Horti., Soil sc., Agroforestry, Plant protection	90	-	-	-	220	74	294	12	4	16	232	78	310
2.	Advisory Services	Fisheries, Animal Sc., Horti., Soil sc., Agroforestry, Plant protection	44	-	-	-	250	117	367	-	-	-	250	117	367
3.	Animal Health Camp		2	-	-	-	125	75	200	2	-	2	127	75	202
4.	Training manual publication		-	-	-	-	-	-	-	-	-	-	-	-	-
5.	Celebration of important days	31.5.2012 15.8.2012	2	-	-	-	30	12	42	10	4	14	40	16	56
6.	Exhibition		-	-	-	-	-	-	-	-	-	-	-	-	-
7.	Exposure visits		-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Extension Literature		8	-	-	-	-	-	1100	-	-	-	-	-	1100
9.	Farm Science Club Conveners meet		-	-	-	-	-	-	-	-	-	-	-	-	-
10.	Farmer-Scientist interaction	Fisheries, Animal Sc., Horti., Soil sc., Agroforestry, Plant protection	2	-	-	-	40	22	62	8	2	10	48	24	72
11.	Farmers Seminar		-	-	-	-	-	-	-	-	-	-	-	-	-
12.	Farmers Visit to KVK	Fisheries, Animal Sc., Horti., Soil sc., Agroforestry, Plant protection	122	-	-	-	550	337	887	-	-	-	550	337	887
13.	Field Day		2	-	-	-	50	39	89				50	39	89
14.	Film Show	Ornamental fish farming, vegetable nursery management, chemical war,	3	-	-	-	45	26	71	5	2	7	50	28	78
15.	Group meetings		4	-	-	-	50	43	93				50	43	93
16.	Kisan Gosthi		-	-	-	-	-	-	-	-	-	-	-	-	-

17.	Kisan Mela		-	-	-	-	-	-	-	-	-	-	-	-	-
18.	Lectures delivered as resource persons		5	-	-	-	100	103	203	6	4	10	106	107	213
19.	Mahila Mandal Conveners' meetings		-	-	-	-	-	-	-	-	-	-	-	-	-
20.	Method Demonstrations	Fisheries, Horti., Soil sc., Plant protection	26	-	-	-	110	73	183	15	10	25	125	83	208
21.	Newspaper coverage		9	-	-	-	-	-	-	-	-	-	-	-	-
22.	Popular articles published		7	-	-	-	-	-	-	-	-	-	-	-	-
23.	Radio talks		-	-	-	-	-	-	-	-	-	-	-	-	-
24.	Scientists visit to farmers field	Fisheries, Animal Sc., Horti., Soil sc., Agroforestry, Plant protection	33	-	-	-	125	33	158	10	4	14	135	37	172
25.	Self Help Group Conveners meetings		-	-	-	-	-	-	-	-	-	-	-	-	-
26.	Soil health Camp		-	-	-	-	-	-	-	-	-	-	-	-	-
27.	Soil test campaigns		-	-	-	-	-	-	-	-	-	-	-	-	-
28.	TV talks		1	-	-	-	-	-	-	-	-	-	-	-	-
29.	Workshop		-	-	-	-	-	-	-	-	-	-	-	-	-
30.	Others 1. Mass Vaccination against swine fever		2	-	-	-	100	80	180	2	-	2	102	80	182
31.															
32.															
33.															
	Grand Total		**361**						**3929**			**100**			**4029**

* Example for guidance only

3.5 Production and supply of Technological products during 2012-13

SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Provided to No. of Farmers/Other Agencies
CEREALS	**Rice**	**Local *Kanghmun***	**1.42**	**2130**	**14**
OILSEEDS					
;					
PULSES					
VEGETABLES	Okra	Parbhani Kranti	0.1	500	20
FLOWER CROPS					
OTHERS (Specify)					

SUMMARY

Sl. No.	Major group/class	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers/Other Agencies
1	CEREALS	1.42	2130	14
2	OILSEEDS			
3	PULSES			
4	VEGETABLES	0.1	500	20

5	FLOWER CROPS			
6	OTHERS			
TOTAL		**1.52**	**2630**	**34**

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Papaya	Local			
SPICES					
VEGETABLES	Brinjal	BE-706	**2000**	**10000**	**50**
	Chilli	Pusa Jwala	**2000**	**10000**	**50**
	Cabbage	Bahar, Improved Bahar	**4000**	**20000**	**60**
	Broccoli	Aishwarya	**2000**	**10000**	**40**
	Tomato	NP-503	**2000**	**10000**	**40**
	Chinese cabbage		**1000**	**2000**	**20**
FOREST SPECIES					
ORNAMENTAL CROPS					
PLANTATION CROPS	**Tree-bean**		**20**	**300**	**10**
Others (specify)					

SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS			
2	VEGETABLES	13000	62000	260
3	SPICES			
4	FOREST SPECIES			
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS	20	300	10
7	OTHERS			
	TOTAL			

BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
BIOFERTILIZERS						
1						
2						
3						
4						
BIO PESTICIDES						
1						
2						
3						
4						

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

LIVESTOCK

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

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
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
Research papers			
Total			
Technical reports			
Popular articles			
Leaflets/folders			
Total			
GrandTOTAL			

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

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

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

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)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Paddy	A Trap-gun is made with bamboo and rubber and a small iron rod to kill bird pests and placed at paddy field for perchment.	To kill the perching bird pests at paddy field

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

- Identification of courses for farmers/farm women
- Rural Youth
- Inservice personnel

3.11 Field activities

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

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :

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

Sl. No	Name of the Equipment	Qty.	Cost
1			
2			
3			
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 participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

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

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

5.0 LINKAGES

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1. ATMA	Conducting Training Programmes, etc.
2. IGNOU	Conducting Vocational Training Programmes & Certificate courses
3.	
4.	

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

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

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/No

S. No.	Programme	Nature of linkage	Remarks
1	Training and ATMA farmers visit KVK farm	SMS as resource person	Completed
2	Farmers scientist interaction	Financial assistance	Completed

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
NA	NA	NA	NA

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
NA	NA	NA	NA

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estt.	Area	Details of production	Amount (Rs.)	Remarks

				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Dairy	2008	0.02	HF Cross	Milk		NA	NA	NA
2	Piggery	2010	0.002	yorkshire	NA	NA	NA	NA	NA
3	Poultry	2010	0.002	Vanaraja	Eggs	20eggs/hen/month	NA	NA	NA

6.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rice	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pulses									
Pigeonpea									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Cattle	Cross	Milk				
	Pig	Yorkshire					
	Poultry	Vanaraja	Eggs	**92 chicks**		**4,600.00**	

				(9.20kg)			
2	Fish	IMC & exotic carps	Table fish	**107 Kg**	**7250.00**	**10,700.00**	**Sold to 123 farmers**

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.5 Utilization of hostel facilities (Month Wise):

Accommodation available (No. of beds) :

Months	Title of the training course/Purpose of stay	Duration of Training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA
Total	NA	NA	NA	NA	NA
Grand total					

(Duration of the training course X No. of trainees)=Trainee days

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	NA	NA	NA
With KVK	State Bank of India	Lengpui	11821318372

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31st March, 2013
	2009-10	2010–11	2011-12	2012-13	
Inputs	NA	NA	NA	NA	NA
Extension activities	NA	NA	NA	NA	NA
TA/DA/POL etc.	NA	NA	NA	NA	NA
TOTAL	NA	NA	NA	NA	NA

7.3 Utilization of KVK funds during the year 2012 -13

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**		104.74	
2	**Traveling allowances**		1.4	
3	**Contingencies**	**3.29**		
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			0.6
B	POL, repair of vehicles, tractor and equipments			1.0
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			0.4
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			0.2
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			1.0
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			0.09
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)				
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				**109.43**

7.4 Status of revolving fund (Rs. in lakhs) for last three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2010 to March 2011	0.78158	0.64842	NIL	1.43
April 2011 to March 2012	1.43	NIL	0.34708	1.08292
April 2012 to March 2013	1.08292	0.28249	NIL	1.36541

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

8.1 Constraints

a) Administrative:

1. Vehicles for field inspectors: - The Kendra covers 86 villages located at remote and isolated places in the hills. The technical staff needs to visit the farmers and demonstration site quite often. One light vehicle is not sufficient for efficient monitoring of the going works. Therefore other vehicles may be provided for this KVK for better and efficient administration and monitoring of field works.

2. Water problem :- There is water scarcity during the dry season even for drinking, therefore, could not meet the farm water requirements. More public water connection should be made and construction of water harvesting structures.

b) Financial:

Fund channeling is very slow and complicated which creates a lot of problems. Better and quicker ways may be sought. With the present limited fund allocation no much achievement can be expected. So, more funds may be allocated to the KVK.

c) Technical:

1. Right technology for OFTs and FLDs.
2. Training for KVK staff is needed.
3. Laboratories need be set up in running conditions.
4. A new tractor is required for farm works.