PROFORMA FOR ANNUAL REPORT OF KVKS, 2016-17

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra Mamit District Lengpui- 796421	0389-2573352, 2573337	0389-2573338	Krishi Vigyan Kendra Mamit District Lengpui- 796421

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	Directorate of Agriculture (Research & Education) Aizawl, Mizoram

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Samuel Lalliansanga	0389-2324565	9436147625	samuelpachuau10@gmail.com

1.4. Year of sanction:

1.5. Staff Position **(As on 31st March, 2017)**

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	Senior scientist & Head	Dr. Samuel Laliansanga	Senior scientist & Head	Plant pathology	15600+8000	25140	6.1.15	Temporary	ST
2	Subject Matter Specialist	Lalrinsangi	Scientist	Agro-forestry	15600+5400	21220	22.4.08	Permanent	ST
3	Subject Matter Specialist	Dr. C. Rinawma	Scientist	Animal Science	15600+5400	21220	22.4.08	Permanent	ST
4	Subject Matter Specialist	Vanlalhruaia	Scientist	Plant Protection	15600+5400	21220	22.4.08	Permanent	ST
5	Subject Matter Specialist	Dr. Rohit Shukla	Scientist	Horticulture	15600+5400	21220	22.4.08	Permanent	Other
6	Subject Matter Specialist	Dr. Henry Saplalrinliana	Scientist	Soil Science	15600+5400	21220	22.4.08	Permanent	ST

7	Subject Matter Specialist	Vacant	Scientist	Fishery	15600+5400	21220	22.4.08	Permanent	ST
8	Programme Assistant	K. Zohmingliani	Assistant	Commerce	9300+4200	14120	22.4.08	Permanent	ST
9	Computer Programmer	Biakhlupuii Chenkual	Farm Manager	M.Sc. (Agri.)	9300+4200	14120	22.4.08	Permanent	ST
10	Farm Manager	C. Ramdinsanga	Computer Programmer	Computer Science	9300+4200	14120	22.4.08	Permanent	ST
11	Accountant / Superintendent	Lalrinchhana Sailo	Prog. Assistant	Home Science	9300+4200	13580	9.11.09	Permanent	ST
12	Stenographer	B.Laldinpuii	Stenographer	N.A.	5200+2400	10120	29.2.08	Permanent	ST
13	Driver	Lalchungnunga	Driver	N.A.	5200+1900	8250	29.2.08	Permanent	ST
14	Driver	Lalchuailova	Driver	N.A.	5200+1900	8250	29.2.08	Permanent	ST
15	Supporting staff	Lallawmkima	Supporting staff	N.A.	4440+1900	6410	10.7.08	Permanent	ST
16	Supporting staff	P.C.Lalthanpuii	Supporting staff	N.A.	4440+1900	6410	10.7.08	Permanent	ST
	Total	14							

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) : 12.5ha

b. Total cultivable land with KVK (in ha): 10.5ha

c. Total cultivated land (in ha): 8.5ha

S. No.	**Item**	**Area (ha)**
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	2.0
2.	Under Demonstration Units	2.5
3.	Under Crops (Cereals, pulses, oilseeds etc.)	2.5
4.	Under vegetables	1.0
5.	Orchard/Agro-forestry	2.5
6.	Others (specify)	2.0

11.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of	Stage	
			Complete	Incomplete

		funding	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 (10)	ICAR for 6 Quarters and State Govt. for 4 quarters	1.6.08	600	51,00,000.00	NA	NA	NA
4.	Demonstration Units (2)	ICAR	1.6.08	-	NA	NA	NA	NA
5	Fencing	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Maruti Gypsy (Hard Top)	MZ-01/ C-0759	2005	4,50,000.00	1,15,512	Old and need replacement
Tractor	MZ-01/D-2245 (Head)	2007	Purchased by Directorate of Agriculture (R&E), Govt. of Mizoram	105,375	Old and need replacement

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Ricoh Aficio MP 1600LC	2012	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	2008	2,000.00	Good Condition

B080515-10307			
V-SAT (HCIL)	2009	1,00,000	Disconnected/ not in use
BSNL Broad band	2010	NA	Good condition
Projector Vivek (DLP Projector) Model.D325MX Sl.No.WD325MX7520162	2008	87,000.00	Not in good condition, need replacement
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	Not in good condition, need replacement
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	Not in 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	Not in good condition, needs upgradation/ replacement
Assemble Computer Pentium(R) Intel Dualcore CPU-E5200 2.50ghz, 1.99GB of RAM, Benq LCD Monitor	2010	NA	Not in good condition, needs upgradation/ replacement
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	Need to repair
Advanced DVD Player with 5.1 ch Samsung DVD- C460	2010	NA	Good Condition

1.8. A). Details SAC meeting* conducted in the year 2016-17

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	19.12.16	1.Shri Lalsiamliana, Chairman SAC and Director of Agriculture (Research & Extension), Govt. of Mizoram 2.Shri R.L Thanzuala, Joint Dir, Directorate of Agri (R&E), Aizawl,Mizoram 3. Dr. Samuel Lalliansanga, Member Secretary SAC and Programme Coordinator, KVK, Mamit District 4.. Shri C.Lalkima, Sub Divisional Horticulture Officer, Mamit division, Government of Mizoram 5..Shri H.K. Rokima,i/c Range Officer, Environment & Forest Department, Lengpui 6.. Zothankima, Range Officer, Soil&Wtaer Conservation Department, Lengpui 7..Shri Vanlalkunga, Farmers representative, Lengte	Reviewing of activities & progress of KVK. 2. Presentation and approval of Action Plan 2015-16. Some changes were made in the OFTs. 3.Made suggestion for overall improvement of KVK	All actions were taken.
2.				

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

2. DETAILS OF DISTRICT

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
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)

Sl. 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

2.3 Soil type/s

Sl. 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, mixed, hyperthermic, deep to dark yellowish brown, sandy loam, sandy clay, broad and narrow valley	47706
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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1	Rice	3748	4241	11.32
2	Areca nut	3350	2345	7.00
3	Khasi Mandarin	2015	4211	20.90
4	Lime/ lemon	1090	3390	31.10
5	Banana	646	7501	116.12
6	Maize	633	1245	18.75
7	Bitter gourd	530	2772	52.30

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April 2016	355.70	33.02	18.96	71.15
May 2016	404.40	31.46	19.75	80.50
June 2016	505.20	32.12	21.81	80.52

July 2016	235.50	31.36	22.11	83.65
August 2016	454.00	31.90	22.07	85.60
September 2016	440.10	30.83	21.83	87.48
October 2016	244.10	30.94	20.36	85.40
November 2016	257.00	28.6	18.7	84.5
December 2016	0.00	27.40	12.89	83.90
January 2017	0.00	26.42	10.04	78.40
February 2017	12.00	28.66	12.26	68.09
March 2017	52.40	28.87	14.86	70.38

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

Category	Population	Production	Productivity
Cattle			
Crossbred	135	Milk-147 ton	7.323 lt/cow
Indigenous	1972	Milk-224 ton	1.01 lt/cow
Buffalo	208	Milk-16 ton	0.975 lt/buffalo
Sheep			
Crossbred	75	NA	NA
Indigenous	2	NA	NA
Goats	1780	5 ton of meat	8.651 kg/goat
Pigs			
Crossbred	17545	204 ton of meat	92.141 kg/ pig
Indigenous	5806	NA	NA
Rabbits	92	NA	Na
Poultry			
Hens	31233	NA	NA
Desi	50092	22 lakh egg produced	80 nos./hen/ season
Improved	14627	4 lakh egg produced	205 nos./hen/ season
Ducks	104	NA	NA
Turkey and others	4	NA	NA

Category	Area (ha)	Production (q)	Productivity (q/ha)

Fish	828	6020q	7.27 q/ha
Marine	*NA*	NA	NA
Inland	*NA*	NA	NA
Prawn	*NA*	NA	NA
Scampi	*NA*	NA	NA
Shrimp	*NA*	NA	NA

Category	**Area (ha)**	**Production (tons)**	**Productivity (t/ha)**
Fish	1042	1719	1.65
Marine	NA	NA	NA
Inland	NA	NA	NA
Prawn	NA	NA	NA
Scampi	NA	NA	NA
Shrimp	NA	NA	NA

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2016-17)

Sl. No.	**Taluk/ Eleka**	**Name of the block**	**Name of the village**	**Major crops & enterprises**	**Major problem identified**	**Identified thrust area**
1	W.Phaileng	W.Phaileng, Chhippui, Lallen, Saithah, Phuldungsei, Pukzing, Marpara, Andermanik, Rajivnagar, Tuipuibari, Damparengpui, Teirei, Khawhnai, Parvatui, Tuirum	Paddy, Maize, Ginger, Turmeric, Khasi mandarin, Vegetable, Oil Palm, livestock, fishery, oilpalm	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.	

2	Reiek	Bawngthah, Kanghmun, Khawrihnim, W.Lungdar, Ailawng, Reiek, Rulpuihlim, Tuahzawl, Chungtlang, Rawpuichhip, Hmunpui, West Serzawl, Lengpui, Lengte, Nghalchawm	Paddy, Maize, Ginger, Turmeric, Vegeable, Jatropha, 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	Zawlnuam	Kanhmun, Moraichera, Zamuang, Rengdil, Lushaicherra, Zawlpui, Hriphaw, Saikhawthlir, Chhuhvel, Zawlnuam, Bawrai, 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 2016-17

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	3	3	8	8	25	25	25	25
Soil Science	3	3	10	10	24	24	24	24
Plant Protection	2	2	6	6	2	2	6	6

Animal Science	3	3	9	9	7	7	7	7
Agroforestry	2	2	4	4	2	2	2	2
Total	**13**	**13**	**37**	**37**	**60**	**60**	**60**	**60**

Note: Target set during last Annual Zonal Workshop

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	66	122	2000	4036	2226			
Rural youth	23	10	595	205				
Extn. Functionaries	11	8	275	129				
Total	100	140	2870	4370	2226	2838	13300	5421

Seed Production (ton.)		**Planting material (Nos. in lakh)**	
5		**6**	
Target	**Achievement**	**Target**	**Achievement**
1.0	0.80	**0.125**	**0.205**
0.05	0.06		
1.05	**0.86**	**0.125**	**0.205**
1.0	0.80	**0.125**	**0.205**

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2016-17

Sl. No	**Thrust area**	**Crop/ Enterprise**	**Identified problems**	**Interventions**

				Title of OFT if any	**Title of FLD if any**	**Title of Training if any**	**Title of training for extension personnel if any**	**Extension activities**	**Supply of seeds, planting materials etc.**
1	High density planting	Papaya	Low productivity in Traditional cultivation system	High density planting of papaya		Commercial fruit cultivation	-	-	Seeds and inputs
2	Protected cultivation	Vegetables	Lack of awareness on improved Technologies to ensure round the year vegetable cultivation	Round the year vegetable cultivation under protected condition		Protected cultivation of vegetables	-	-	Seeds and inputs
3	Varietal evaluation	Gladiolus	Non availability of recommended gladiolus varieties	Varietal evaluation of Gladiolus					Seeds and inputs
4	Soil biology	Rice	Low productivity although nutrient status is high	Use of microbial consortia in rice fields of *jhum* based cropping system		Usefulness and conservation of soil microbes			Seeds and inputs
5	Nutrient management	Banana	1. Low productivity 2. Nutrient loss 3. Low soil retention capacity	Integrated nutrient management in banana		Soil retention by contour hedgerows			Seedlings and inputs

6	Nutrient management	Rice	Uneven soil nutrient status esp. Nitrogen along rice growing belts	Site specific nutrient management using Leaf colour chart		How to use Leaf colour charts			LCC, Seeds and inputs
7	IPM	Rice	Leaf Folder and Stem Borer	Integrated Pest Management in Rice					Seeds and inputs
8	IDM	Okra	Yellow vein mosaic virus	Integrated Disease Management in Okra					Seeds and inputs
9	Fodder production	Maize	No identified fodder varieties	Green Fodder Cultivation Using: a.Maize QPM-1					Seeds and inputs
10	Breed introduction	Vanaraja	No identified dual purpose poultry	Improved dual purpose bird: Vanaraja					birds and inputs
11	Breed introduction	Krishibro	No identified dual purpose poultry	Improved dual purpose bird: Krishibro					birds and inputs
12	Reclamation of degraded area with MPTs etc.	Rice bean	Nutritious fodder crops during Kharif in Degraded Jhum land	Cultivation of Fodder Rice bean(Bidhan-1) during kharif					Seeds and inputs
13	Reclamation of degraded area with MPTs etc.	Oats	Green Fodder scarcity during Winter season	Introduction of Fodder Oat(JHO-822)					Seeds and inputs

14	Varietal evaluation	Tomato			Varietal evaluation of Tomato var. Arka Rakshak				Seeds and inputs
15	Varietal evaluation	Garden pea			Varietal evaluation of Garden pea var. Arka Apporva & Arka Sampoorna				Seeds and inputs
16	Varietal evaluation	French bean			Varietal evaluation of French bean Var. Arka Komal and Arka Anoop				Seeds and inputs
17	Nutrient management	Oil Palm			Construction of half moon terrace for nutrient retention				Inputs
18	Bio fertilizer	Azolla			Multiplicatio of Azolla				Inputs
19	Nutrient management	Azolla			INM through use of Azolla in Paddy fields				Inputs
20	IPM	Chilly			IPM in Chilly				Seeds and inputs
21	IPM	Tomato			IPM in Tomato				Seeds and inputs
22	Fodder production	Guinea grass			Multiplicatin of Guinea grass				Seeds and inputs

23	Dual purpose poultry	Krishibro			Rearing of Dual purpose poultry layer Krishibro				Inputs
24	Land reclamation	Banana Maize Soybean			Sloping Agricultural land Technology(SALT)				Inputs

3.1 Achievements on technologies assessed and refined during 2016-17

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	2						1			3
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management				1				1		2
Integrated Farming System	1				1					2
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest	1									1

Management										
Integrated Disease Management					1					1
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	4			1	2		1	1		9

* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro farming 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										
Seed / Plant production										
Weed 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										

***** *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	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds		2						2
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder	1							1
Small Scale income generating enterprises								
TOTAL	1	2						3

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

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

A.5. Results of On Farm Testing

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	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 (if applicable)
1	High density planting of papaya	Low productivity in Traditional cultivation system	High density planting of papaya Var. Pusa Nanha Panting Spacing: 1.25m X 1.25 m. Square System of planting	Papaya	2	**High density planting** 1. No. Fruit/pant : 14 2. Fruit weight (g.) : 500g 3. Yield (t/ha) :44.80 t/ha **Normal density planting** 1. No. Fruit/pant : 16 2. Fruit weight (g.) : 600g 3. Yield (t/ha) :29.63 t/ha	Farmers are interested and willing to adopt this technology	More trials are required under different locations of Mamit district	**High density planting** 3.25:1 **Normal density planting** 3.20:1
2	Round the year vegetable cultivation under protected condition	Lack of awareness on improved Technologies to ensure round the year vegetable cultivation	Protected cultivation of vegetable crops : raised bed cultivation, Use of plastic mulching, low cost polythene tunnel, and low cost poly house etc.)	Cucumber (JLG) Tomato (Arka Rakshak) French bean (Arka Anoop)	3	**Protected cultivation** **Tomato** 1.No. of fruits/ plant : 34 2. Avg. fruit weight (gm): 76 3. Yield (t./ha): 34.2t/ha **French bean** **1.**Days to first picking : 52 2.Pod length (cm.): 16.9 3.Yield – 12.4 t/ha **Cucumber** No. of fruits per vine 14 Avg. fruit weight (gm) – 162.4g. Yield (t./ha) :-11.86 **Unprotected condition** **Tomato** **1**.No. of fruits per plant : 28	Farmers are interested and willing to adopt this technology	More trials are required under different locations of Mamit district	**Protected cultivation** Tomato: 3.07:1 French bean: 2.79:1 Cucumber : 2.56:1 **Unprotected condition** Tomato: 2.44:1 French bean: 2.16:1 Cucumber : 1.52:1

						2. Avg. fruit weight (gm): 63 3. Yield (t./ha): 27.2t/ha **French bean** **1.**Days to first picking : 56 2.Pod length (cm.): 13.8 3.Yield 9.60 t/ha **Cucumber** 1.No. of fruits per vine 9.0 2.Avg. fruit weight (gm) 126.8 3.Yield (t/ha) Open field -7.02			
3	Varietal evaluation of Gladiolus	Non availability of recommended gladiolus varieties	Varietal evaluation of Gladiolus 1. Bangalore 2. Melody (OPA) 3. Pusa Gungan 4. 451-V-2-1 5. Melody (OPA)pink 6. Pusa Mayur 7. Pusa Urvashi 8. Pusa Suryakiran 9. Dhanvantri 10. L X Oscar 11. Pusa Shabnam	Gladiolus	2	**Length of the spike (cm)** Bangalore:52.50 Melody :65.50 Pusa Gungan: 76.83 451-V-2-1 : 74.83 Melody pink : 68.67 Pusa Mayur :62.33 Pusa Urvashi : 57.33 Pusa Suryakiran : 69.67 Dhanvantri : 63.17 L X Oscar: 72. 67 Pusa Shabnam :69.33 **Number of florets per spike** Bangalore : 10.22 Melody : 12.78 Pusa Gungan :12.78 451-V-2-1 : 12.00 Melody pink :11.89 Pusa Mayur : 11.78 Pusa Urvashi : 10.67 Pusa Suryakiran: 13.00 Dhanvantri : 12.00 L X Oscar : 13.25 Pusa Shabnam : 12.56 **No. of Spike yield/ ha**	Farmers are interested and willing to adopt this technology	More trials are required under different locations of Mamit district	Bangalore : 2.63:1 Melody : 2.70:1 Pusa Gungan : 3.54:1 451-V-2-1: 3.38:1 Melody pink : 2.81: Pusa Mayur : 3.38:1 Pusa Urvashi : 2.63:1 Pusa Suryakiran : 2.72:1 Dhanvantri : 2.49:1 L X Oscar : 2.55:1 Pusa Shabnam : 3 2.8:1

						Bangalore : 31111 Melody : 32000 Pusa Gungan : 42000 451-V-2-1: 40000 Melody pink : 33333 Pusa Mayur : 40000 Pusa Urvashi : 31111 Pusa Suryakiran : 32222 Dhanvantri : 29556 3-L X Oscar : 30222 Pusa Shabnam : 38889			
4	Use of microbial consortia in rice fields of *jhum* based cropping system	Low productivity although nutrient status is high	1. Inoculation of microbes with seeds before sowing 2. Timely spraying of liquid MC formulation	Rice (*jhum*)	3	1. No of tillers- 10-14 2. Yield- 4-7 qt/ha 3. OC – 1.5% 4. Av. N- 356 kg/ha 5. Av. P- 26 kg/ha 6. Av.K- 315kg/ha **Farmers' practice** 1. No of tillers- 7-9 2. Yield- 3-5 qt/ha 3. OC – 1.41% 4. Av. N- 315 kg/ha 5. Av. P- 21 kg/ha 6. Av.K- 280kg/ha	1. Unfamiliarity of the technology 2. Is there any easier method of application ?	1. Site specific MC should be available.	1:1.24
5	Integrated nutrient management in banana	4. Low productivity 5. Nutrient loss 6. Low soil retention capacity	1. Half-moon terracing of planting area 2. Hedgerow platation across the slope for nutrient retention 3. Mulching with azolla and unwanted pseudostem 4. Application of recommended	Banana	3	1. No of suckers- 4-6 2. OC – 1.21% 3. Av. N- 386 kg/ha 4. Av. P- 19 kg/ha 5. Av.K- 241kg/ha **Farmers' practice** 1. No of suckers- 2-3 2. OC – 1.14% 3. Av. N- 265 kg/ha 4. Av. P- 15 kg/ha Av.K- 234kg/ha	1. Reliable but needs higher inputs		Will be calculated after 1st harvest

			dose of fertilizer						
6	Site specific nutrient management using Leaf colour chart	Uneven soil nutrient status esp. Nitrogen along rice growing belts	1. Comparison of rice leaf with LCC at critical growth stage 2. Application of fertilizers as per requirement	Lowland rice	4	1. No of tillers- 12-16 2. Yield- 20-24 qt/ha 3. OC – 0.9% 4. Av. N- 372 kg/ha 5. Av. P- 24 kg/ha 6. Av.K- 280kg/ha **Farmers' practice** 1. No of tillers- 14-18 2. Yield- 18-21 qt/ha 3. OC – 1.1% 4. Av. N- 327 kg/ha 5. Av. P- 18 kg/ha 6. Av.K- 280kg/ha	1. LCC though available, fertilizers is not readily always	1. LCC for major rice variety grown in the area should be standardized	1:1.42
7	Integrated Pest Management in Rice	Leaf Folder and Stem Borer	1.Use of disease and insect free pure seeds. 2.Clipping of tip of seedlings at the time of transplanting. 3.Release of *Trichogramma japonicum* & *T. chilonis* 4.Spraying of **Cartap Hydrochloride** 50% SP@ 1000gm/ha for stem borer & leaf folder. 5.Spraying of **Imidacloprid** 17.8% SL @ 1.5ml/litre of water for plant hopper.	Rice	3	**Improved practices:** 1.No. of infested plant at 10 days interval (15 plants/ha,) 2 .Yield record (29.2qtl./ha), 3.Farmers' reaction (good) **Farmers' Practices :** 1.No. of infected plant at 10 days interval (35 plants/ha,), 2.Yield record (19.4qtl/ha)	Farmers are quite interested in this technology as the infestation is quite common in their fields and they used to get very less yield.	Although the performance is good, yet need another refinement for better pest management	**Improved practices:** 1.72:1 **Farmers practice :** 1.49:1

8	Integrated Disease Management in Okra	Yellow vein mosaic virus	1.Use of resistant variety, viz Arka Anamika. 2.Spraying of Imidacloprid @1.5 ml/litre water	Okra	3	**Improved practices:** 1.No. of infected plant at 10 days interval (10 plants/ha) 2 .Yield record (80qtl./ha), 3.Farmers' reaction (good) **Farmers' Practices :** 1.No. of infected plant at 10 days interval (30 plants/ha), 2.Yield record (58qtl/ ha)	Farmers are interested in adopting the technology	May be recommended for FLD	Improved practices: 2.85:1 Farmers practices : 2.19:1
9	Green Fodder Cultivation Using: a.Maize QPM-1	No identified fodder varieties	ICAR Research Complex for NEH Region, Umiam, Meghalaya, 2008	Maize	3	**Improved practices:** Dry Matter percentage: 13 Crude Protein percentage: 10.86 Crude fiber percentage: 25 Change in Milk yield: Fat%: 3.97 SNF%: 8.94 **Farmers' Practices :** Fat%: 3.2 SNF%: 7.1	Maize for fodder cultivation is not economically convenient unless mechanization can be adopted towards its processing from village	Climate resilient maize seeds should be instituted in the future	2:1

									1.7:1
10	Improved dual purpose bird: Vanaraja	No identified dual purpose poultry	ICAR Research Complex for NEH Region, Umiam, Meghalaya, 2008	Vanaraja	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' Practices :** Maturity: 178 ± 3 days Egg production: 127± 2 eggs	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	1.31:1 1.15:1
11	Improved dual purpose bird: Krishibro	No identified dual purpose poultry	ICAR Research Complex for NEH Imphal 2014	Krishibro	3	1.The age at sexual maturity 2.Egg Production The age at sexual maturity was 171 ± 3 days, and the egg production of 141 ± 2 eggs/hen/annum with an average egg weight of 58 g.			1.28:1

						Maturity: 178 ± 3 days Egg production: 123± 2 eggs			1.11:1
12	Fodder Rice bean(Bidhan-1)	Nutritious fodder crops during Kharif in Degraded Jhum land	a)60 kg/hectare seed was sown in lines during August 2016. The spacing between row to row is 30 cm. B) The seed was treated with Mancozeb 75% WP @ 2.5 g/kg of seed to ensure freedom from any seed borne diseases. c) 10 kg of Urea was applied at 30	Cultivation of Fodder Rice bean(Bidhan-1) during kharif		1. Green fodder Yield 2. Adaptability 3. Farmers Reaction 4.B:C ratio	200q/hac	10000@Rs 50/kg	2

			days after sowing and 60 days after sowing 10 kg of Urea was applied. d) During the month of October,2016 at its pre flowering stage fresh fodder was harvested . e) yields 200kg/hectare						
13	oats	Green Fodder scarcity during Winter season	a)100 kg seeds per hectare was sown in lines during first week of December 2016. The spacing between row to row is 20-25 cm. b) 40 kg of Urea should be applied at	Introduction of Fodder Oat(JHO-822)	1	1.Adaptability 2. Green fodder Yield 3. B:C rat	200-300q/hac	40000@Rs2/kg	2

			30 days after sowing . c)The feed value of fodder at pre-flowering and flowering is high. The crop should be harvested at 50 % flowering/bloom stage						

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

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

3.2 Achievements of Frontline Demonstrations during 2016-17

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Chilli	IPM in Chilli:	1	1	0.4

		1.Seed treatment with Imidacloprid @ 5gm/kg seed. 2. Sowing of trap crop, ie., Marigold as border crop. 3. Spraying of Imidacloprid @ 1 ml/3-4 litres water.			
2	Tomato	IPM in Tomato: 1.Seed treatment with Imidacloprid @ 5gm/kg seed. 2. Sowing of trap crop, ie., Marigold as border crop. 3. Spraying of Imidacloprid @ 1 ml/3-4 litres water.	1	1	0.4

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

b. Details of FLDs conducted 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 (Rainfed / Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					
1.	Tomato	Varietal evaluation	Tomato var. Arka Rakshak	Rabi 2016-17	1.0 ha	1.0 ha	5		5		Irrigated Sandy loam			

2.	Garden pea	Varietal evaluation	Garden pea var. Arka Apporva & Arka Sampoorna	Rabi 2016	1.0 ha	1.0 ha	10		10		Irrigated Sandy loam			
3	French bean	Varietal evaluation	French bean Var. Arka Komal and Arka Anoop	Rabi 2016	1.0 ha	1.0 ha	10		10		Irrigated Sandy loam			
4	Oil Palm	Nutrient management	1. Construction of half moon terrace (2m dia) 2. Application of recommended fertilizer dose	Kharif and Rabi, 2016	4	4	4	-	4	NA	Rainfed, Sandy clay loam 360 - 459m MSL	350	22	280
5	Azolla	Bio fertilizer	1. Making of raised dug out pond (2.5X1m^2) 2. Polythene lining 3. Addition of top soil (2-4 cm) 4. Accumulation of water (20-25 cm) 5. Release of Azolla	Kharif, 2016	2	2	10	-	10	NA	Rainfed, Sandy clay loam 365 - 480m MSL	350	22	280
6	Rice	Nutrient	1. Introductio	Kha	2	2	10	-	10	NA	Rainf	35	2	28

		management	n of Azolla in paddy cultivated plots 2. Thinning of excess azolla	rif, 2016							ed, Sandy clay loam 280 - 465m MSL	0	2	0
7	Chilli	IPM	1.Seed treatment with Imidacloprid @ 5gm/kg seed. 2. Sowing of trap crop, ie., Marigold as border crop. 3. Spraying of Imidacloprid @ 1 ml/3-4 litres water.	Rabi 2016	0.4	0.4	1	-	1	NA	Rainfed, Sandy clay loam 382m MSL			
8	Tomato	IPM	1.Seed treatment with Imidacloprid @ 5gm/kg seed. 2. Sowing of trap crop, ie., Marigold as border crop. 3. Spraying of Imidacloprid @ 1 ml/3-4 litres water.	Rabi 2016	0.4	0.4	1	-	1	NA	Rainfed, Sandy clay loam 340m MSL			
9	Guinea	Fodder production	Guinea Grass	2016-17	-		3		3					

	Grass (CO 3)		(CO 3)											
10	Krishi bro	Dual purpose poultry layer	Dual purpose poultry layer Krishibro	2016-17			3		3					
11	Banana Maize Soybean	Sloping Agricultural land Technology(SALT)	Sloping Agricultural land Technology(SALT)	2016-17	2.0	2.0	3		3		Rainfed, Sandy clay loam			

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Tomato	Varietal evaluation	1.0	384	326	15.10	416	345	No of fruit/ plant -28 nos	No of fruit/ plant -23 nos	86500	307200	225600	3.55	86500	260800	174300	3.02

									Av. Fruit weight – 70g	**Av. Fruit weight** – 61 g							
2	Garden pea	Varietal evaluation	1.0	**Arka Apoorva** 70	61	**Arka Apoorva** 14.75	Arka Apoorva 74	Arka Apoorva 63	Arka Apoorva Plant height (cm) 72 cm. Pod length (cm) 7.7cm No. of s eed per pod 6.00	Plant height (cm) 52 cm Pod length (cm) 8.4cm No. of seed per pod 4.86	57000	**Arka Apoorva** 175000	**Arka Apoorva** 118000	**Arka Apoorva** 3.07	57000	152500	95500	2.68
				Arka Sampoorna 67		Arka Sampoorna 9.84	Arka Sampoorna 59	Arka Sampoorna 70	Arka Sampoorna Plant height (cm) 70 cm. Pod length (cm) 7.9cm No. of s eed per pod 5.80			Arka Sampoorna 167500	Arka Sampoorna 110500	Arka Sampoorna 2.94			

3	French bean	**Varietal evaluation**	1.0	Akra Anoop 109 Arka Komal 105	91	Akra Anoop 19.78 Arka komal 15.38	Arka Anoop 114 Arka komal 111	Arka Anoop 105 Arka komal 97	Arka Anoop **Days to first picking** 52 days **Pod length (cm.)** -16.1 cm Arka komal **Days to first picking** 53 days **Pod length (cm.)** -16.1 cm	Days to first picking 65 days Pod length (cm.) 13.9 cm	Arka Anoop 7200 Arka komal 7200	Arka Anoop 218000 Arka komal 210000	Arka Anoop 146000 Arka komal 138000	Arka Anoop 3.03 Arka komal 2.92 000	7200	182000	110000	2.53
4	**Oil Palm**	**Nutrient management**	**4**	**38250**	**33150**	**13.33 %**	**45118**	**30430**	1.No of FFB/ yr/ha -22502.Male-female	No of FFB/ yr/ha -19802.Male-female inflore	**80,000**	**1,95,840**	**1,15,840**	**2.45**	**80,000**	**1,69,728**	**89,728**	**2.13**

									inflore scenc e ratio – 3:10 3. Av. Wt of FFB – 17	scenc e ratio – 4:9 3. Av. Wt of FFB – 12								
5	**Azolla**	**Bio fertilizer**	**2**	**36**			**37.2**	**32.4**	1. Adaptibility-92% 2. Biomass turnover – 36q/ha		**8,000**	**18,000**	**10,000**	**2.25**				
6	**Rice**	**Nutrient management**	**2**	**28**	**22.5**	**19.64 %**	**29.8**	**23.1**			**25,000**	**42,000**	**17,000**	**1.68**	**25,000**	**33,750**	**8,750**	**1.35**
7	**Tomato**	**IPM**	**0.4**	230	108	112.96	240	220	1500 plants/ha (5%) infection	6500 plants/ha (21.6 %) infection	85185	230000	144815	2.7	44500	108000	63500	1.7
8	**Chilli**	**IPM**	**0.4**	98.5	52.4	87.97	101.5	95.5	1555 plants/ha (10%) infection	4675 plants/ha (32.16%) infection	85650	197000	111350	2.3	58250	104800	46550	1.79

9	Banana, Maize, Soya bean	**SALT**	**2.0**	On going	On going	On going	On going	On going	On going	On going	On going	On going	On going	On going	On going	On going	On going	On going

***H-Highest recorded yield, L- Lowest recorded yield**

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days						
2	Farmers Training	2	4.11.2016 23.11.2016	-	83 20	83 20	Dapchhuah Dialdawk
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total	**2**			**103**	**103**	

e. Details of FLD on Enterprises

(i) 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

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Dairy	*Fodder production: Crop variety: Guinea Grass (CO 3)*	*AAU, Jorhat, 2006*	3	1		1. Total milk production 2. Fat%	production 2. Fat%												Failed

2	Poultry	*Breed Introduction: Krishibro*	ICAR Research Complex for NEH Imphal 2014	3	1	10 birds per farmer	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.	Maturity : 178 ± 3 days Egg production: 127± 2 eggs	3.93% 14.17%			884	1160	276	1.3 1:1	884	1016	132	1.1 5:1	

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(iii) Fisheries

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	Thematic area	Name of Technology	No. of farmers	No. of union	No. of fish/ fingerlings	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(iv) Other enterprises

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(v) Farm Implements and Machinery

Sl. No.	Name of implement	Crop	Name of Technology demonstrated	No. of farmers	Area (In ha.)	Field observation (Output/ man-hours)		% change in the parameter	Labour reduction (Man days)	Cost reduction (Rs. per ha. or Rs. per unit etc.)	Remarks
						Demo	Check				

f. Performance of FLD on Crop Hybrids

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)			
					Demo.	Check		H*	L*	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR

H-Highest recorded yield, L- Lowest recorded yield

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

3.3. Achievements on Training

3.3.1. Farmers and Farm Women in On Campus including Sponsored On Campus Training Programmes (*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog			Participants																		
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	Grand Total (x + y)
I. Crop Production																						
Weed Management																						

Resource Conservation Technologies																					
Cropping Systems																					
Crop Diversification																					
Integrated Farming																					
Water management																					
Seed production																					
Nursery management																					
Integrated Crop Management																					
Fodder productio																					

n																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	1		1							15		6		21		15		6		21		21
Off-season vegetable																						
Nursery raising	1		1							17		5		22		17		5		22		22
Exotic vegetables like Broccoli																						
Export potential vegetable																						
Grading and standardi																						

zation																					
Protective cultivation (Green Houses, Shade Net etc.)	1		1							28		13		41		28		13		41		41
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit	1		1							58		25		83		58		25		83		83
Management of young plants/orchards																						
Rejuvenation of old orchards	1		1							17		7		24		17		7		24		24
Export potential																						

fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques	1		1							14		5		19		14		5		19		19
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornament																						

al Plants																					
d) Plantation crops																					
Production and Management technology	1		1							12		6		18		12		6		18		18
Processing and value addition																					
e) Tuber crops																					
Production and Management technology																					
Processing and value addition																					
f) Spices																					
Production and Management																					

technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management	1		1							30		14		44		30		14		44		44
Soil and		1	1								12		8		20		12		8		20	20

Water Conservation																						
Integrated Nutrient Management		1	1								17		7		24		17		7		24	24
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 Managem																						

ent																						
Poultry Management	1	1	2							15	31	10	13	25	44	15	31	10	13	25	44	69
Piggery Management	1	1	2							15	16	10	8	25	24	15	16	10	8	25	24	49
Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening	1		1								24		24					24		24		24

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 technique																						
Value addition	2		2								53		53					53		53		53
Income generation activities for empowerment of rural Women	2		2								53		53					53		53		53
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care	1		1								29		29					29		29		29
VI Agril. Engineering																						
Installation and maintena																						

nce 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 Technolo																						

gy																					
VII Plant Protection																					
Integrated Pest Management	5		5							105		48		153		105		48		153		153
Integrated Disease Management	4		4							93		32		125		93		32		125		125
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
VIII Fisheries																					
Integrated fish farming	2		2							30		17		47		30		17		47		47
Carp breeding and hatchery																						

managem ent																					
Carp fry and fingerling rearing	2		2							32		15		47		32		15		47		47
Composit e fish culture	2		2							55		20		75		55		20		75		75
Hatchery managem ent and culture of freshwate r prawn																						
Breeding and culture of ornament al 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	1		1							15		10		25		15		10		25		25
Nursery management																						
Integrated Farming Systems	1		1							15		10		25		15		10		25		25
TOTAL	33	4	37							567	77	412	35	979	112	567	77	412	35	979	112	1091

3.3.2. Achievements on Training of <u>Farmers and Farm Women</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes (*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prg.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Total	Off	Sp Off	Off	Sp Off	Off	Sp Off	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	

					*		*		*													
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	1	4	5							20	108	12	43	32	151	20	108	12	43	32	151	183
Off-season vegetables	1		1							30		11		41		30		11		41		41
Nursery raising	1		1							30		11		41		30		11		41		41
Exotic vegetables like																						

Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)	1	1	2							30	15	18	8	48	23	30	15	18	8	48	23	71
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards	1		1							25		15		40		25		15		40		40
Cultivation of Fruit	1		1							30		11		41		30		11		41		41
Management of																						

young plants/orchards																						
Rejuvenation of old orchards	1		1							30		11		41		30		11		41		41
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
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	1	1	2							30	15	11	5	41	20	30	15	11	5	41	20	61
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and																						

value addition																					
III Soil Health and Fertility Management																					
Soil fertility management	1	4	5							30	72	14	33	44	105	30	72	14	33	44	105	149
Soil and Water Conservation	1	2	3							22	30	13	20	35	50	22	30	13	20	35	50	85
Integrated Nutrient Management	2	4	6							50	68	20	32	70	100	50	68	20	32	70	100	170
Production and use of organic inputs	4	3	7							60	45	40	22	100	77	60	45	40	22	100	77	177
Management of Problematic soils																					
Micro nutrient deficiency in crops	1		1							25		15		40		25		15		40		40

Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management	1		1							20		10		30		20		10		30		30
Poultry Management	1	3	4							30	14	14	2	44	16	30	14	14	2	44	16	60
Piggery Management	2	1	3							60	31	28	12	88	43	60	31	28	12	88	43	131
Rabbit Management																						
Disease Management	1		1							40		15		55		40		15		55		55
Feed management	1		1							30		11		41		30		11		41		41
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	2		2									45		45				45		45		45
Income generation activities for empowerment of rural Women	1		1									22		22				22		22		22
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 implemen																						

ts																						
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management	7	1	8							213	32	97	11	310	43	213	32	97	11	310	43	353
Integrated Disease Management	6	2	8							169	45	73	18	239	63	169	45	73	18	239	63	302
Bio-control of pests and diseases																						
Production of bio control agents and bio																						

pesticides																						
VIII Fisheries																						
Integrated fish farming	5	1	6							150	33	65	10	205	43	150	33	65	10	205	43	248
Carp breeding and hatchery management																						
Carp fry and fingerling rearing	1		1							22		10		32		22		10		32		32
Composite fish culture	2	1	3							80	17	25	7	105	24	80	17	25	7	105	24	129
Hatchery management and culture of freshwater prawn																						
Breeding and culture of ornament	1		1							33		15		48		33		15		48		48

al 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	4		4							140		45		185		140		45		185		185
Nursery management	1		1							16		8		24		16		8		24		24
Integrated Farming Systems		4	4							70		30		100		70		30		100		100
TOTAL	54	31	85	0	0	0	0	0	0	1485	525	715	223	2187	758	1485	525	715	223	2187	758	2945

(B) RURAL YOUTH

3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes

(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ Prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Mushroom Production	1	1	2							20	18	6	4	26	22	20	18	6	4	26	22	48
Bee-keeping																						
Integrated farming																						
Seed production																						
Productio																						

n of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit production	1		1							13		2		15		13		2		15		15
Repair and maintenance of farm machiner																						

y and implements																						
Nursery Management of Horticulture crops	1		1							12		6		18		12		6		18		18
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit																						

farming																						
Poultry production	1		1							14		4		18		14		4		18		18
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture	1		1							25		7		32		25		7		32		32
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	6	1	7							109	18	32	4	141	22	109	18	32	4	141	22	163

3.3.4. Achievements on Training of <u>Rural Youth</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes

(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ Prog.	Participants	Grand Total

	Off	Sp Off	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
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	1		1							10		5		15		10		5		15		15
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	1		1							10		2		12		10		2		12		12
Rabbit farming																						
Poultry production																						
Ornamental fisheries	1		1							10		5		15		10		5		15		15
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																						

Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL	3		3							30		12		42		30		12		42		42

C. Extension Personnel

3.3.5. Achievements on Training of Extension Personnel in On Campus including Sponsored On Campus Training Programmes

(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	(x + y)
Productivity enhancement in																						

field crops																					
Integrated Pest Management																					
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																					
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.3.6. Achievements on Training of <u>Extension Personnel</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes

(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog.	Participants	Grand Total

	Off	Sp Off*	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Productivity enhancement in field crops	1		1							15		3		18		15		3		18		18
Integrated Pest Management	1		1							12		3		15		12		3		15		15
Integrated Nutrient management	1		1							14		4		18		14		4		18		18
Rejuvenation of old orchards	1		1							12		3		15		12		3		15		15
Protected cultivation technology																						
Formation and Management of SHGs	1		1							12		3		15		12		3		15		15

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		3		18		15		3		18		18
Livestock feed and fodder production	1		1							12		3		15		12		3		15		15
Household food																						

security																						
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs	1		1							12		3		15		12		3		15		15
Gender mainstreaming through SHGs																						
TOTAL	8		8							104		25		129		104		25		129		129

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

Annexure 1: Details of Training Programme (On Campus including Sponsored On Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Sl. No	Discipline	Area of	Title of the	Date (From	Duration in	Venu	Please specify Beneficiary group (Farmer & Farm	General participants	SC/ST	Grand Total

		training	training programme	– to)	days	e	women/ RY/ EP and NGO Personnel)	M	F	T	M	F	T	M	F	T
1	Horticulture	Production of low volume and high value crops	Production technologies of vegetables	25.5.16	1	On campus	Farmer & Farm women	-	-	-	15	6	21	15	6	21
2	Horticulture	Nursery raising	Nursery raising of vegetable crops	21.7.16	1	On campus	Farmer & Farm women	-	-	-	17	5	22	17	5	22
3	Horticulture	Protective cultivation (Green Houses, Shade Net etc.)	Protected cultivation of vegetable	14-162.16	3	On campus	Farmer & Farm women	-	-	-	28	13	41	28	13	41

4	Horticulture	Cultivation of Fruit	Cultivation of Fruit crops	20.12.16	1	On campus	Farmer & Farm women	-	-	-	58	25	83	58	25	83
5	Horticulture	Rejuvenation of old orchards	Rejuvenation of old khasi mandarin orchards	5.12.16	1	On campus	Farmer & Farm women	-	-	-	17	7	24	17	7	24
6	Horticultu	Plant propagation techniques	Plant propagation techniques of fruit crops	24.2.17	1	On campus	Farmer & Farm women				14	5	19	14	5	19
7	Horticulture	Production and Management technology	Cultivation of Arecanut	27.2.17	1	On campus	Farmer & Farm women				12	6	18	12	6	18
7	Horticulture	Nursery Manage	Nursery Management of Horticultu	5-9.12.16	5	On campus	**RY**	-	-	-	12	6	18	12	6	18

		ment of Horticulture crops	re crops													
8	Horticulture	Commercial fruit production	Commercial fruit production	28.11.16 to 3.12.16	5	On campus	**RY**				13	2	15	13	2	15
9	Soil Science	Soil fertility management	Soil fertility management	11.5.2016	1	KVK Training Hall	Farmer & Farm women				30	14	44	30	14	44
10	Soil Science	Integrated Nutrient Management	Integrated Nutrient Management	15.4.16	1	On campus	Farmer & Farm women				17	7	24	17	7	24
11	Soil Science	Soil and Water Cons	Soil and Water Conservation	11.7.16	1	On campus	Farmer & Farm women				12	8	20	12	8	20

		ervation														
12	Plant Protection	IPM	IPM and Safe use of Pesticides	15.4.16	1	KVK Training Hall	Farmer s & Farm women	-	-	-	21	10	31	21	10	31
13	Plant Protection	IPM	IPM and Safe use of Pesticides	19.7.16	1	KVK Training hall	Farmer s & Farm women	-	-	-	21	10	31	21	10	31
14	Plant Protection	IPM	IPM & Safe use of Pesticides	21.7.16	1	KVK Training Hall	Farmer s & Farm women	-	-	-	21	10	31	21	10	31
15	Plant Protection	IPM	IPM in Rice	21.12.16	1	Lengpui	Farmer s & Farm women	-	-	-	21	9	30	21	9	30
16	Plant Protection	IPM	Safe use of Pesticides	11.11.2016	1	KVK training Hall	Farmer s & Farm women	-	-	-	21	9	30	21	9	30
17	Plant Protection	IDM	IDM in maize	3-27.2.17	2	KVK Training Hall	Farmer s & Farm women & Rural Youth	-	-	-	23	8	31	23	8	31
18	Plant	IDM	IDM in	24.2.1	1	KVK	Farmer s & Farm women	-	-	-	23	8	31	23	8	31

	Protection		ginger	7		training Hall											
19	Plant Protection	IDM	IDM in citrus	14.2.17	1	Lengpui	Farmer s & Farm women	-	-	-	23	8	31	23	8	31
20	Plant Protection	IDM	IDM in Vegetables	16.2.17	1	Lengpui	Farmer s & Farm women	-	-	-	24	8	32	24	8	32
21	Plant Protection	Mushroom Production	Mushroom Production	28.11.2016-2.11.16	5	Lengpui	RY	-	-	-	20	6	26	20	6	26
22	Plant Protection	Mushroom Production	Mushroom Production	5-9.12.16	5	Lengpui	RY	-	-	-	18	4	22	18	4	22
23	Animal Science	Poultry Management	Dual purpose poultry	15.4.16	1	Lengpui,	Farmer & Farm Women				31	13	44	31	13	44
24	Animal Science	Piggery Manage	Piggery Management	21.12.16	1	Lengpui	F & FW				16	8	24	16	8	24

		ment														
25	Animal Science	Diploma in watershed Development	Dual purpose Poultry production	23.8.16	1	Lengpui	F & FW				15	10	25	15	10	25
26	Animal Science	Piggery management	Piggery management	5.7.16	1	Lengpui	F & FW				15	10	25	15	10	25
27	Animal Science	Poultry production	Poultry production	18.7.16	1	Lengpui	RY				14	4	18	14	4	18
28	Fishery	Composite fish culture	Composite fish culture	3.11.16	1	Lengpui	F & FW				25	10	35	25	10	35
29	Fishery	Carp fry and fingerling	Carp fry and fingerling rearing	2.9.16	1	Lengpui	F & FW				15	7	22	15	7	22

		rearing														
30	Fishery	Carp fry and fingerling rearing	Carp fry and fingerling rearing	18.7.16	1	Lengpui	F & FW				15	10	25	15	10	25
31	Fishery	Integrated fish farming	Integrated fish farming	25.5.16	1	Lengpui	F & FW				15	10	25	15	10	25
32	Fishery	Integrated fish farming	Integrated fish farming	21.7.16		Lengpui	F & FW				15	7	22	15	7	22
33	Fishery	Composite fish culture	Composite fish culture	30.11.16	1	Lengpui	F & FW				30	10	40	30	10	40
34	Fishery	Composite fish culture	Composite fish culture	5-9.12.16	5	Lengpui	RY				25	7	32	25	7	32

		re														
35	Fishery	Fry and fingerling rearing	Fry and fingerling rearing	28.11.16-2.12.16	5	Lengpui	RY				25	7	32	25	7	32
36	Agroforestry	Production technologies	Production technologies of MPT	21.12.16	1	Lengpui	F &FW				15	10	25	15	10	25
37	Agroforestry	Integrated Farming Systems	Integrated Farming Systems	4.7.16	1	Lengpui	F &FW				15	10	25	15	10	25
38	Home Science	Household food security by kitchen gardening and	Household food security by kitchen gardening and nutrition gardening	5.7.16	1	Lengpui	F &FW					24	24		24	24

		nutrition gardening														
39	Home Science	Value addition	Value addition	12.4.16	1	Lengpui	F &FW					27	27		27	27
40	Home Science	Value addition	Value addition	22.12.16	1		F &FW					26	26		26	26
41	Home Science	Income generation activities for empowerment of rural Women	Income generation activities for empowerment of rural Women	18.7.16	1	Lengpui	F &FW					26	26		26	26
42	Home Science	Income generatio	Income generation activities	10.1.17	1	Lengpui	F &FW					27	27		27	27

		n activities for empowerment of rural Women	for empowerment of rural Women													
43	Home Science	Women and child care	Women and child care	10.10.16	1	Lengpui	F &FW					29	29		29	29

Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Horticulture	Production of low volume and high value	Hybrid vegetable production	13.7.16	1	Darlak	Farmer & Farm women	-	-	-	19	13	32	19	13	32

	crops															
Horticulture	Production of low volume and high value crops	Hybrid vegetable production	21.8.16	1	Zawlnuam	Farmer & Farm women	-	-	-	20	11	31	20	11	31
Horticulture	Production of low volume and high value crops	Hybrid vegetable production (IIHR technologies)	22.8.16	1	Saikhawthlir	Farmer & Farm women	-	-	-	20	10	30	20	10	30
Horticulture	Production of low volume and high value crops	Vegetable based cropping system	12.12.16	1	Dialdawk	Farmer & Farm women	-	-	-	17	4	21	17	4	21
Horticulture	Production of low volume and	Vegetable based cropping system	16.12.16	1	Saithah	Farmer & Farm women	-	-	-	23	10	33	23	10	33

	high value crops															
Horticulture	Production of low volume and high value crops	Vegetable based cropping system	21.12.16	1	Lengte	Farmer & Farm women	-	-	-	12	4	16	12	4	16
Horticulture	Nursery raising	Nursery raising of vegetable crops	16.7.16	1	Dialdawk	Farmer & Farm women	-	-	-	18	10	28	18	10	28
Horticulture	Protective cultivation (Green Houses, Shade Net etc.)	Protected cultivation of vegetables	8.9.16	1	Dialdawk	Farmer & Farm women	-	-	-	30	20	50	30	20	50
Horticulture	Layout and Manageme	Management of fruit orchards	26.5.16	1	Dampui	Farmer & Farm women	-	-	-	32	20	52	32	20	52

	nt of Orchards															
Horticulture	Rejuvenation of old orchards	Rejuvenation of khasi mandarin orchard	20.1.17	1	W. Phaileng	Farmer & Farm women	-	-	-	125	75	200	125	75	200
Horticulture	Rejuvenation of old orchards	Rejuvenation of khasi mandarin orchard	8.7.16	1	Dialdawk	Rural Youth	-	-	-	14	5	19	14	5	19
Soil Science	Soil health	Importance of macro and micro fauna in soil health maintenance	12.4.16 8.5.16 13.6.16 12.7.16 8.8.16 13.9.16 10.10.16 9.11.16	1 1 1 1 1 1 1 1	Lengpui Nghalchawm Lengte Rawpuichhip Tuahzawl Chungtlang W. Phaileng Saithah	Farmer & Farm women				15 15 15 15 15 15 15 15	10 10 10 10 10 10 10 10	25 25 25 25 25 25 25 25	15 15 15 15 15 15 15 15	10 10 10 10 10 10 10 10	25 25 25 25 25 25 25 25

Soil Science	Sampling technique	Modern approach to soil sampling, techniques and procedures	19.4.16 5.5.16 14.6.16 21.7.16	1 1 1 1	Saithah Lallen Chhippui Lengpui	Rural Youth				15 15 15 15	5 5 5 5	20 20 20 20	15 15 15 15	5 5 5 5	20 20 20 20
Soil Science	Soil health	Modern concept of soil rejuvenation	18.8.16	1	Lengte	Extension personnel				15	5	20	15	5	20
Soil Science	Nutrient management	Farming with nature- the soil aspect	16.9.16 14.10.16	1	Saithah Lengpui	Civil Society				40 40	40 40	80 80	40 40	40 40	80 80
Plant Protection	IPM & IDM	IPM & IDM in kharif crops	19.4.2016	1	Saithah	Farmer s & Farm women	-	-	-	24	12	36	24	12	36
Plant Protection	IPM	IPM in Rice	27.5.2016	1	Saithah	Farmer s & Farm women	-	-	-	40	12	52	40	12	52
Plant Protection	IPM	IPM in Rice	2.6.2016	1	Saikhawthlir	Farmer s & Farm women	-	-	-	20	14	34	20	14	34
Plant Protection	IPM	IPM in Rice	3.6.2016	1	Chuhvel	Farmer s & Farm women	-	-	-	13	3	16	13	3	16
Plant Protection	IPM	IPM in Rice	7.6.2016	1	Dialdawk	Farmer s & Farm women	-	-	-	16	1	17	16	1	17

Plant Protection	IPM & IDM	IPM Orientation	14.7.2016	1	Saithah	Farmer s & Farm women	-	-	-	41	37	78	41	37	78
Plant Protection	IPM	IPM Citrus & Citrus Rejuvenation	15.7.2016	1	Dampui	Farmer s & Farm women	-	-	-	27	1	28	27	1	28
Plant Protection	IPM	IPM in Rice	9.8.2016	1	Lengte	Farmer s & Farm women	-	-	-	15	5	20	15	5	20
Plant Protection	IPM	IPM in Citrus	16.8.2016	1	Nghalchawm	Farmer s & Farm women	-	-	-	22	2	24	22	2	24
Plant Protection	IPM	IPM	26.8.2016	1	Lengte	Farmer s & Farm women	-	-	-	17	8	25	17	8	25
Plant Protection	IPM	IPM	22.9.2016	1	Lengpui VC Hall	Farmer s & Farm women	-	-	-	32	18	50	32	18	50
Plant Protection	IPM	IPM in Ginger	27.9.2016	1	Saithah	Farmer s & Farm women	-	-	-	40	15	55	40	15	55
Plant Protection	IPM	IPM in Ginger soft rot	10.10.2016	1	Tuahzawl	Farmer s & Farm women	-	-	-	23	4	27	23	4	27
Plant Protection	IPM & IDM	IPM & IDM in Rabi Crops	12.12.2016	1	Dialdawk	Farmer s & Farm women	-	-	-	13	4	17	13	4	17
Plant Protection	IPM & IDM	IPM & IDM in Rabi Crops	21-24.1.2017	2	W.Phaileng	Farmer s & Farm women	-	-	-	250	135	385	250	135	385

Plant Protection	IPM & IDM	IDM of Ginger Rhizome Rot	14.3.2017	1	Tuahzawl	Farmer s & Farm women	-	-	-	39	9	48	39	9	48
Plant Protection	IPM & IDM	Pradhan Mantri Fasal Bima Yojana	30.3.2017	1	Lengpui VC Hall	Farmer s & Farm women	-	-	-			156			156
Animal Science	Piggery	Backyard Pigery	27th May 2016	1	Saithah	F&FW				20	10	30	20	10	30
Animal Science	Disease Management	Vaccination Schedule	24th May 2016	1	Saithah	F&FW				40	20	60	40	20	60
Animal Science	Leadership	Village beekeeping Committee	19 Jan 2017 9 Feb 2017 23 March 2017 24March 2017	1	West Phaileng, Saithah, Tuahzawl, Rulpuihlim, Chungtlang, West Lungdar	F&FW and RY				80	24	104	80	24	104
Animal Science	Group Dynamics	Awareness on Zoonotic disease due to climate change	16 Dec 2016 20 Jan 2017 3 Feb 2017	1	Saithah, Rawpuichhip and Lengpui	F&FW and RY				60	18	78	60	18	78
Fishery	CFC, IFS Nursery management	Composite fish culture, paddy cum fish culture, integrated fish farming,	9.11.15 18.4.16 17.5.16 21.6.16	1	V.C. Hall Lengpui	Farmer s & Farm women	-	-	-	15 15 15 15	10 10 10 10	25 25 25 25	15 15 15 15	10 10 10 10	25 25 25 25

	nt	fish seed rearing and nursery management, disease management	16.7.15							15	10	25	15	10	25
Fishery	IFS Nursery management	Integrated fish farming, fish seed rearing and nursery management, ornamental fisheries	16.9.15 14.10.15	1	Saithah	Rural Youth				10 10	10 10	20 20	10 10	10 10	20 20
Agroforestry	Farmers	Agroforestry systems	14.7.2015	1	Saithah	Farmers				44	34	78	44	34	78

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants			Impact of training in terms of Self employment after training	Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General	SC/ST	Total		

					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
Swine	May 17 to 19th 2016 Sept 21st to 23rd 2016 Nov 9th to 11th 2016	3 3 3	Veterinary management	Castration in pigs				8 10 10	2	10 10 10	28	2	30	Veterinary field assistant	2	-	-	-

*training title should specify the major technology /skill transferred

Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From-To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		

Off	F & FW	26.5.2016	1	Plant Protection	IPM	IPM in Rice	-	-	-	40	12	52	40	12	52	Seed Village Programme	7800
Off	F & FW	2.6.2016	1	Plant Protection	IPM	IPM in Rice	-	-	-	20	14	34	20	14	34	Seed Village Programme	5100
Off	F & FW	3.6.2016	1	Plant Protection	IPM	IPM in Rice	-	-	-	13	3	16	13	3	16	Seed Village Programme	2400
Off	F & FW	6.6.2016	1	Plant Protection	IPM	IPM in Rice	-	-	-	1	1	17	1	1	17	Seed Village Programme	2550
Off	F & FW	14.7.2016	1	Plant Protection	IPM & IDM	IPM Orientation	-	-	-	41	37	78	41	37	78	RKVY	11700
Off	F & FW	18.7.2016	1	Plant Protection	IPM & IDM	IPM Citrus & Citrus Rejuvenation	-	-	-	27	1	28	27	1	28	RKVY	4200
On	F & FW	5.8.2016	1	Plant Protection	IPM	IPM & Safe use of Pesticides	-	-	-	25	-	25	25	-	25	ATMA	20000
Off	F & FW	8.8.2016	1	Plant Protection	IPM	IPM	-	-	-	15	5	20	15	5	20	Seed Village Programme	3000
Off	F & FW	17.8.2016	1	Plant Protection	IPM	IPM in Citrus	-	-	-	22	2	24	22	2	24	RKVY	3600
Off	F & FW	26.8.2016	1	Plant Protection	IPM	IPM in Rice	-	-	-	17	8	25	17	8	25	RKVY	3750

Off	F & FW	29.9.2016	1	Plant Protection	IPM/IDM	IDM in rhizome rot of Ginger	-	-	-	40	15	55	40	15	55	RKVY	8250
Off	F & FW	10.10.2016	1	Plant Protection	IPM/IDM	IDM in rhizome rot of Ginger	-	-	-	23	4	27	23	4	27	RKVY	4050
On	F & FW	5-9.12.2016	1	Plant Protection	IPM	IPM Orientation	-	-	-	29	17	46	29	17	46	RKVY	6900
Off	F & FW	14.12.2015	1	Plant Protection	IPM	IPM & IDM in Rabi crops	-	-	-	13	4	17	13	4	17	RKVY	2550
Off	F & FW	16.3.2017	1	Plant Protection	IPM/IDM	IDM in rhizome rot of Ginger	-	-	-	39	9	48	39	9	48	RKVY	7200
on	Farmers	5.8.2016	1	Agroforestry	farmers	Agroforestry for farmers				25	-	25	25	-	25	ATMA	5000
on	Farmers	1-2..12.2016	2	Agroforestry	Farmers	Principle of Agroforestry &MPT's				25		25	25		25	RKVY	5000
On	**F/ FW**	5-9.12.16	5	Horticulture	Production of low volume and high value crops	Cultivation of winter vegetables	-	-	-	15	10	25	15	10	25	RKVY	3750
On	**F/ FW**	5.8.16	1	Horticulture	Protective cultivation (Green Houses, Shade Net etc.)	Protected cultivation of vegetables	-	-	-	15	10	25	15	10	25	RKVY	3750
on	**F/ FW**	9.6.16	1	Horticulture	Spice Production and Management technology	Cultivation of ginger and turmeric	-	-	-	25	15	40	25	15	40	IWMP, Zawlnuam u	Provide training materials

OFF	**F/ FW**	24.8.16	1	Horticulture	Production of low volume and high value crops	Hybrid vegetable production	-	-	-	19	13	32	19	13	32	RKVY	3200
OFF	**F/ FW**	26.8.15	1	Horticulture	Production of low volume and high value crops	Hybrid vegetable production	-	-	-	20	11	31	20	11	31	RKVY	3100
OFF	**F/ FW**	29.8.15	1	Horticulture	Production of low volume and high value crops	Hybrid vegetable production)	-	-	-	20	10	30	20	10	30	RKVY	3000
OFF	**F/ FW**	12.12.16	1	Horticulture	Production of low volume and high value crops	Vegetable based cropping system	-	-	-	17	4	21	17	4	21	RKVY	3150
OFF	**F/ FW**	16.12.16	1	Horticulture	Production of low volume and high value crops	Vegetable based cropping system	-	-	-	23	10	33	23	10	33	NEDP	4950
OFF	**F/ FW**	21.12.16	1	Horticulture	Production of low volume and high value crops	Vegetable based cropping system	-	-	-	12	4	16	12	4	16	NEDP	2400

OFF	**F/ FW**	8.9.16	1	Horticulture	Protective cultivation (Green Houses, Shade Net etc.)	Use of Agro-textile (Crop cover, Ground cover, Shade net)	-	-	-	30	20	50	30	20	50	SASMIRA,	Provide training materials & inputs
Vocational	RY	3th to 8th October 2015	5	Animal Science	Integrated water shed development	IGNOU, Diploma in Water Shed Management				2		2	2		2	IGNOU	Still pending
Total																	

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2016-17

Sl. No.	**Extension Activity**	**Topic**	**Date and duration**	**No. of activities**	**Participants**											
					General (1)			**SC/ST (2)**			**Extension Officials (3)**			**Grand Total (1+2)**		
					M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
1.	Advisory services	IPM, INM, soil health, IDM, etc	12 months activities	1987				1200	787	1987				1200	787	1987
2.	Diagnostic visit	IPM, INM, soil health, IDM, etc	12 months activities	383				240	143	383				240	143	383
3.	Field day	IPM in Rice	28.10.2017	2				30	10	40	3	1	44	33	11	43

4.	Group Discussion	INM, soil health, etc	12 months activities	10				250	50	300	20	7	27	270	57	327
5.	Kishan Gosthi															
	Kishan Mela															
6.	Film show		8					200	41	241				200	41	241
7.	SHG formation															
8.	Exhibition															
9.	Scientists visit to farmers fields		12 months activities	365				290	75	365				290	75	365
10.	Plant/ Animal Health camp	World Rabies Day Awareness on Zoonotic diseases Other PHC	28th Sept 2016 4 Sept 2016 8 Nov 2016	3				165	70	235				165	70	235
11.	Farm science club															
12.	Ex-trainee Sammelan															
13.	Farmers seminar/ workshop															
14.	Method demonstration		12 months activities	40				288	202	490	20	8	28	308	210	518
15.	Celebration of important days			5				138	42	180	32	11	43	170	53	223
16.	Exposure visits															

17.	Electronic media (CD/DVD)															
18.	Extension literature			1				250	100	350				250	100	350
19.	Newspaper coverage			8												
20.	Popular articles															
21.	Radio talk															
22.	TV talk	Azolla, Climate change, self recognition for rural youth		9												
23.	Training manual															
24.	Soil health camp	Healthy *jhum*		3				140	64	204				140	64	204
25.	Awareness camp															
26.	Lecture delivered as resource person			16				100	60	160	50	25	75	180	55	235
27.	PRA	Village development		1				70	40	110				70	40	110
28.	Farmer-Scientist interaction			5				150	50	200				150	50	200
29.	Soil test campaign	Optimum fertilizer dose														

30.	Mahila Mandal Convener meet															
31.	Any other (Please specify)															
32.																
Grand Total				2838				3511	1734	5245	125	52	217	3666	1756	5421

3.5 Production and supply of Technological products during 2016-17

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Rice	CAUR-1 Gomati	5qt. 3qt.	7500 4500		20 13	20 13
OILSEEDS							
PULSES							

VEGETABLES	Okra	Arka Anmika	0.2qt.	800		5	5
	Pea	Arkel	0.2qt.	800		5	5
	French bean	Arka Anoop	0.2qt.	800		5	5
FLOWER CROPS							
OTHERS (Specify)							

A1. SUMMARY of Production and supply of Seed Materials during 2016-17

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	0.80	12000	-	33	33
2	OILSEEDS	-	-	-	-	-
3	PULSES	-	-	-	-	-
4	VEGETABLES	0.06	2400	-	15	15
5	FLOWER CROPS	-	-	-	-	-
6	OTHERS	-	-	-	-	-
TOTAL		**0.86**	**14400**	**-**	**48**	**48**

B. Production of Planting Materials (Nos. in lakh)

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits	**Papaya**	**Pusa Nanha**	**0.01**	**-**			
Spices							
Ornamental Plants							
VEGETABLES	**Cabbage**	Bahar,Pragati	**0.05**	**500**		**50**	**50**
	Tomato	NP5024	**0.05**	**500**		**50**	**50**
	Broccoli	Kendi	**0.03**	**300**		**32**	**32**
	Brinjal	Muktakeshi. Pusa Purple Long	**0.03**	**300**		**35**	**35**
	Chilli	Soldier	**0.02**	**200**		**20**	**20**
	Capsicum	ArkaMohani	**0.01**	**500**		**40**	**40**
Forest Spp.							
Plantation crops							
Medicinal plants	**Neem**	-	**0.005**	-	-	-	-
OTHERS (Pl. Specify)							
			0.205	**2300**		**227**	**227**

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2016-17

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits	0.01	-	-	-	-
2	Spices	-	-	-	-	-
3	Ornamental Plants	-	-	-	-	-
4	VEGETABLES	0.19	2300		227	227
5	Forest Spp.	-	-	-	-	-
6	Medicinal plants	0.005	-	-	-	-
7	Plantation crops	-	-	-	-	-
8	OTHERS (Specify)	-	-	-	-	-
TOTAL		0.205	2300	-	227	-

C. Production of Bio-Products during 2016-17

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								

BIOFERTILIZERS								
1. Vermicompost	**Vermicompost**	-		**10**	**12000**		**10**	**10**
2								
3								
4								
BIO PESTICIDES								
1								
2								
3								
4								

C1. SUMMARY of production of bio-products during 2016-17

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS							
2	BIO FERTILIZERS	Vermi compost		1000	1200		10	10
3	BIO PESTICIDE							

	TOTAL			1000	1200		10	10

D. Production of livestock during 2016-17

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
	Cattle/ Dairy	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
	Goat	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
	Piggery	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
	Poultry	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
		-	-	-	-	-	-	-
	Fisheries	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
		-	-	-	-	-	-	-
	Others (Specify)	-	-	-	-	-	-	-
		-	-	-	-	-	-	-

		-	-	-	-	-	-	-

D1. SUMMARY of production of livestock during 2016-17

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	CATTLE	-	-	-	-	-	-	-
2	SHEEP & GOAT	-	-	-	-	-	-	-
3	POULTRY	-	-	-	-	-	-	-
4.	PIGGERY	-	-	-	-	-	-	-
5	FISHERIES	-	-	-	-	-	-	-
6	OTHERS (Pl. specify)	-	-	-	-	-	-	-
	TOTAL							

3.6. Literature Developed/Published (with full title, author & reference) during 2016-17

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			

1.	Impact of Shifting Cultivation on litter accumulation and properties of *jhum* soils of North East India/ Journal of Indian Society of Soil Science	Henry Saplalrinliana, Dwipendra Thakuria, Sapu Changkija, Samarendra Hazarika	NA
2.	Myths and Facts of Shifting Cultivation in North East India / Int. J. of Unsuf. Mngt.	H.C. Kalita, Vishram Ram, Dwipendra Thakuria, Sapu Changkija, Henry Saplalrinliana	NA
3.			
Training manuals			
Technical Report			
1.			
2.			
3.			
Book/ Book Chapter			
Popular articles			
Technical bulletins			
Extension bulletins	Khuai Khawi Dan Leh Enkawl Dan	KVK, Mamit District, Lengpui, Mizoram	KVK, Mamit District, Lengpui, Mizoram
Newsletter			
Conference/ workshop proceedings			
Leaflets/folders			

e-publications			
Any other (Pl. specify)			
TOTAL			

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 produced

3.7. Success stories on horizontal spread of the technologies/Case studies, if any (two or three pages write-up on each case/ successes 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

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

- Identification of courses for farmers/farm women- PRA, survey, questionnaire
- Rural Youth -PRA, survey, questionnaire

- Extension personnel- Survey, questionnaire

3.11 Field activities

i. Number of villages adopted- 1
ii. No. of farm families selected- 157
iii. No. of survey /PRA conducted- 4

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Running

1. Year of establishment : 2016
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1		1	Nagarjuna Agrochemicals	1	
2	Flame Photometer		ELICO	1	NA
3	Nitrogen Analyser		Pelican	1	NA
4	Auto Titrator		Titroline	1	NA
5	Centrifuge		REMI	2	NA
6	Photosynthesis system		CID Bioscience	1	NA
7	Plant Canopy Analyser		CID Bioscience	1	NA
8	Co_2 Gas Analyser		CID Bioscience	1	NA
9	PCR Machine		Eppendorf	1	NA
10	Leaf area meter		CID Bioscience	1	NA
11	Refractometer		Metler & Toledo	1	NA
12	Weighing balance		Sartorius	2	NA
13	Bio Safety Cabinet		Thermo Scientifi	1	NA
14	Water Distillation unit		Borosil	4	NA
15	Deep freezers		LG, Empro	3	NA
Total					

3. Details of samples analyzed (2016-17):

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	173	173	23	NIL
Water Samples	68	68	14	NIL
Plant Samples	10	10	6	NIL
Petiole Samples	-	-	-	-
Total	251	251	43	NIL

4. Details of Soil Health Cards (SHCs) (2016-17)

a. No. of SHCs prepared:…173……
b. No. of farmers to whom SHCs were distributed:…62……
c. Name of the Major and Minor nutrients analysed: SOC, N, P, K
d. No. of villages covered:23
e. Soil health card based nutrient management in different crops (pl. submit in brief in separate page)

3.13. Details of SMS/ Voice Calls sent on various priority areas

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	400	400	400	400					400	400			2400	2400
Voice only	680	680	1152	1152					356	356			2188	2188
Voice and Text both														
Total	1080	1080	1552	1552					756	756			4588	4588

3.14 Contingency planning for 2016-17

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
	Introduction of new variety or crop				
	Rice – Drought tolerant varieties	**50ha**		**100**	**100**
	Introduction of short duration drought tolerant Maize variety e.g. **PAC-740**	**10 ha**		**50**	**50**
	Introduction of Resource Conservation Technologies	**50ha**		**100**	**100**
	a. Water harvesting etc	**15 ha**		**50**	**50**
	b. Micro irrigation / pipes	**15 ha**		**50**	**50**
	Distribution of seeds and planting materials	**50ha**		**100**	**100**
	Rice CAUR-1/Soybean/ Vegetable	**50ha**		**100**	**100**
	Maize T**-4**	**20 ha**		**50**	**50**
	Any other (Please specify)				
	Custom hiring of farm equipments	**50ha**		**100**	**100**
	Community nursery raising for rice	**50 ha**		**100**	**100**

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
					General	SC/ST	Total

	distributed						
PPRS	**200**	**4**	**4**	**500**		**100**	**100**
PPRS	**200**	**4**	**4**	**500**		**100**	**100**

4.0. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period only)

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 ESTABLISHED

5.1 Functional linkage with different organizations

Name of organization	**Nature of linkage**
1. National Bank for Agriculture & Rural Development (NABARD)	Funding Agent for Implementation of Modern Beekeeping within Mamit District.

2. Food & Agricultural Organization (FAO)	Funding KVK for Implementation of Farmers Field School on Sloping Agriculture Land Use Technology (SALT).
3. Directorate of Cold Water Fisheries Research, Uttaranchal	Project Implementation
4. CIFA, Bhubaneswar	Project Implementation
5. CPGS, CAU, Umiam, Megahalaya	Demonstration on *jhum* improvement
6. Khadi and Village Industry Board, Aizawl, Mizoram	Joint implementation of bee-keeping project
7. Agriculture Department, Mizoram.	Trainings
8. AH & Vety Deoartment, Mizoram	Vaccination Camp
9. Village Councils	Conducting trainings
10. IGNOU	Diploma courses in Poultry Farming
11. Synthetic and Art Silk Mills' Research Association	Training for usage of Green House for High value crop Cultivation
12. ICAR (RC) Research Complex for NEH Region, Mizoram Centre, Kolasib, Mizoram	Technology backup

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 during 2016-17

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
RKVY	**Studies on Soil Borne Fungal pathogens and tgeir management**	November, 2016	Agriculture Dept. (R & E) Govt. of Mizoram	**81,600**

RKVY	**IPM Orientation Training**	Dec, 2016	Agriculture Dept. (R & E) Govt. of Mizoram	**1,52,000**
RKVY	**Farmers Field School**	June, 2016	Agriculture Dept. (R & E) Govt. of Mizoram	**54,000**
	Zoonotic disease surveillance	September, 2015	Agriculture Dept. (R & E) Govt. of Mizoram	2,56,000
RKVY	Demonstration of HQPM	April, 2016	Agriculture Dept. (R & E) Govt. of Mizoram	75,000
NFSM(2015-16)	**Demonstration of NFSM Rice and Pulses**	June, 2016	Agriculture Dept. (R & E) Govt. of Mizoram	**41,250**
Promotion of Modern Bee keeping for sustaining rural livelihood in Mamit District	**Modern Bee-keeping**	April, 2016	NABARD, Mizoram	**9,56,000**
NMOOP Mini Mission-III TBO	Raising of Jatropha nursery	1ST July 2016	Agriculture Dept. (R & E) Govt. of Mizoram	**6,50,000.00**

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	Assessment, refinement, validation and adoption of frontline technologies and other short term researchable issues.	Fund received for demonstration	Action taken

5.4 Give details of programmes implemented under National Horticultural Mission

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

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
1	Project on Climate Resilient Integrated Farming System		On going

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2016-17

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estd.	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	

1.	Dairy	2008	0.02	Cross	Milk	1176 lts	24,000	34,800	1calves, 1 milking cow
2.	Piggery	2010	0.002	-	-	-	-	-	-
3.	Poultry	2010	0.002	Giriraja	Eggs & Chicks	-	-	-	Ongoing
4.	Fishery	2008	0.045	IMC & Exotic carp	Table fish	-	-	-	-

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									
Rice	Rice	10.6.2016	8.11.2016	0.5	CAU-R1, Gomati	Seeds	8 q		12000
Wheat	Wheat								
Maize	Maize	23.6.2014	03.10.2013	0.5	RCM-76	Fodder &Seed	10 q		15000
Any other									
Pulses									

Green gram									
Black gram									
Arhar									
Lentil									
Ay other									
Oilseeds									
Mustard									
Soy bean									
Groundnut									
Any other									
Fibers									
i.									
ii.									
Spices & Plantation crops									
i.									
ii.									
Floriculture									
i.									
ii.									

Fruits										
i.	Pineapple	**15.6.15**	**ongoing**	**0.2**	**Kew**	**Fruits & suckers**	**-**		**-**	**-**
ii.										
Vegetables										
i.	**Okra**	**23.5.16**	**2.9.16**	**0.05**	**, ArkaAnamika**	**Fruit & Seed**	**2q & 0.2q seeds**		**5000**	Distributed to 20 farmers
ii.	**Cow pea**	**28.5.16**	**15.9.16**	**0.05**	**Kashi Kanchan**	**Fruit**	**1.5 q**		**4000**	Distributed to 30 farmers
iii.	Garden pea	18.10.16	19.1.17	0.05	ArkaApoorva, ArkaSampoorna	Pod and seed	1q &Seed 0.2q		5000	Distributed to 30 farmers
iv.	**French bean**	15.10.16	22.1.17	0.05	ArkaKomal, ArkaAnoop	Pod and seed	1q & Seed 0.2q		4500	Distributed to 30 farmers
v.	**Tomato**	5.9.16	22.1.17	0.06	Arka Rakshak	Fruit	2q		4000	Distributed to 30 farmers
vi.	**Brinjal**	14.6.16	19.10.17	0.02	Pusa Anpuma	Fruit	0.5q		1000	Distributed to 20 farmers
vii.	**Cabbage**	21.10.16	22.1.17	0.02	Bahar	Head	1q		1000	Distributed to 30 farmers
viii.	**Capsicum**	5.9.16	16.2.17	0.001	Arka Mohini	Fruit	0.4q		1200	Distributed to 20 farmers
ix.										
a.	**Others (specify)**									
i.										
ii.										

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	

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/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Dairy	Cross	Milk	1176 lts	24,000	34,800	2 calves,1 milking cow
2	Poultry	Giriraja	Eggs & Chicks	-	-	-	Ongoing
3.	Fishery	IMC & Exotic carp	Table fish	-	-	-	-

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
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

6.6. Utilization of hostel facilities (Month-Wise) during 2016-17

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)
July	Bee keeping	5	21	105	-
November	Mushroom cultivation	5	25	125	-
December	IPM	5	24	96	-
February	RAWE	10	23	230	
March	RAWE	10	8	80	
February -March	Skill development	30	20	600	
Total	6	65	121	1226	-
Grand total	**6**	**65**	**113**	**1156**	**-**

Note: (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/ Branch	Account Number
With Host Institute	NA	NA	NA
With KVK	SBI	LENGPUI, MIZORAM	11821318372
Revolving Fund	SBI	LENGPUI	30734028269

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31st March, 2015
	Year	Year	Year	Year	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2016 -17

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**		106.66	106.54021
2	**Traveling allowances**		2.00	1.99820
3	**Contingencies**		24.916	24.91431

A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
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			
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**		13.48719	13.48719
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			

4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				Nil
GRAND TOTAL (A+B+C)				**146.93991**

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 2014 to March 2015	1,20,967	53,313	-	1,74,280
April 2015 to March 2016	1,74,280	60,556	40,000	1,94,836
April 2016 to March 2017	1,94,836	61,786	-	2,56,622

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

(Write in detail)

8.1 Constraints

(a) Administrative

(b) Financial

(c) Technical

(Signature)
Sr. Scientist cum Head