ANNUAL REPORT

(APRIL, 2017 TO MARCH, 2018)

KVK MAMIT DISTRICT

(Directorate of Agriculture
(Research & Extension),
Govt. of Mizoram)
(Estd : 2008)

ANNUAL REPORT OF KVK MAMIT, 2017-18

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	kvkmamit@gmail.com

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

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

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Mr. Vanlalhruaia	NA	9436365247	hruaia2@redifffmail.com

1.4. Year of sanction: 2005

1.5. Staff Position **(As on 31st March, 2018)**

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	Sr. Scientist & Head	Vanlalhruaia	i/c Senior Scientist & Head	Plant protection	15600+5400	21220	22.4.08	Permanent	ST
2	Subject Matter Specialist	Dr. C. Rinawma	Scientist	Animal Science	15600+5400	21220	22.4.08	Permanent	ST
3	Subject Matter Specialist	Dr. Henry Saplalrinliana	Scientist	Soil Science	15600+5400	21220	22.4.08	Permanent	ST
4	Subject Matter Specialist	Dr. Rohit Shukla	Scientist	Horticulture	15600+5400	21220	22.4.08	Permanent	Other

5	Subject Matter Specialist	Dr. Rebecca Lalmuanpuii	Scientist	Agro-forestry	15600+5400	21220	05.06.09	Permanent	ST
6	Subject Matter Specialist	Rualthantluanga Pachuau	Scientist	Fishery	15600+5400	15600	23.2.18	Permanent	ST
7	Subject Matter Specialist	B. Hminthanzami (attached from KVK Saiha)	Scientist	Home Science	15600+5400	21220	22.4.08	Permanent	ST
8	Accountant / Superintendent	Lalrinchhana Sailo	Assistant	Commerce	9300+4200	14120	22.4.08	Permanent	ST
9	Programme Assistant	K. Zohmingliani	Farm Manager	B.Sc Agri, M.Sc. (Agro-forestry.)	9300+4200	14120	22.4.08	Permanent	ST
10	Computer Programmer	C. Ramdinsanga	Computer Programmer	Computer Science	9300+4200	14120	22.4.08	Permanent	ST
11	Programme Assistant	Biakhlupuii Chenkual	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	16							

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 (pl. specify the name) i.Vermicomposting unit ii.Diary unit iii.Poultry unit iv.Fish pond v. Shadenet house vi.Seed processing unit vii. Mini rice mill viii. Oil expeller ix. Mushroom unit	2.5
3.	Under Crops (Cereals, pulses, oilseeds etc.) (Pl. specify separately) i. Rice/paddy ii. Maize iii. Rajmash iv. Field pea	2.5
4.	Under vegetables (Pl. specify separately) i. Tomato ii. Cabbage iii. Garden pea iv. Okra v. Brinjal vi. Chilli vii. Other vegetables	1.0
5.	Orchard/Agro-forestry i. Mango ii. Litchi iii. Banana iv. Pineapple v. Oil palm vi. Arecanut vii. Carambola	2.5
6.	Others (specify) i.	2.0

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	8.3.10	550	54,22,000.00	NA	NA	NA
2.	Farmers Hostel	ICAR	10.3.08	297.87	35,86,756.00	NA	NA	NA
3.	Staff Quarters (6)	ICAR for 6 Quarters and State Govt. for 5 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	State Government	-	-	NA	NA	NA	NA
6	Any Other (Pl. specify)							

B) Vehicles

Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Mahindra Bolero	MZ-01/ P 2675	2017	Purchased by Directorate of Agriculture (R&E), Govt. of Mizoram		Good condition
Tractor	MZ-01/D-2245 (Head)	2007	Purchased by Directorate of Agriculture (R&E), Govt. of Mizoram	105,375	Not working, 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 B080515-10307	2008	2,000.00	Good Condition
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	2010	NA	Not in good condition, needs upgradation/ replacement

2.50ghz, 1.99GB of RAM, Benq LCD Monitor			
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	Need to repair

1.8. A). Details SAC meeting* conducted in the year 2017-18

Date	**Name and Designation of Participants**	**Salient Recommendations**	**Action taken on last SAC recommendation**
25.1.2018	1.Shri Lalthansiama, Chairman SAC and Director of Agriculture (Research & Extension), Govt. of Mizoram 2. Vanlalhruaia, Member Secretary SAC and i/c Senior Scientist & Head, KVK, Mamit District 3. BT Romawia, Deputy Ranger for DSWO, Mamit District. 4. Shri Laldingngheta, AFO for District Fishery Officer, Mamit District. 5. Shri Zakamlova, Range Officer, for DFO, Mamit District. 6. Mr. Lalrinsanga, SDHO Rawpuichhip, for DHO, Mamit District, Tuidam. 7. Mr. Lalchhuanmawia, S/D(Sericulture) for DSO, Mamit District. 8. Mr. Vanlalruata Sailo, Farmers representative, Lengpui 9. Mr. Vanlalkunga, Farmers representative, Lengte. 10. Mrs. Lalhunnghaki, President, MHIP, Lengpui.	Reviewing of activities & progress of KVK. 2. Presentation and approval of Action Plan 2018-19. Some changes were made in the OFTs. 3.Made suggestion for overall improvement of KVK	All actions were taken.

**** A copy of SAC proceedings along with list of participants is attached in Annexure-I***

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 (2017-18):

Month	**Rainfall (mm)**	**Temperature ^{0} C**		**Relative Humidity (%)**
		Maximum	**Minimum**	
April 2017	354.1	31	21	76
May 2017	271.5	26	20	82
June 2017	446.4	24	21	89
July 2017	471.4	30	23	90
August 2017	545.8	31	23	92
September 2017	581.4	32	23	91
October 2017	397.5	32	21	83
November 2017	51.6	31	17	76
December 2017	115.8	28	15	77
January 2018	21.2	26	11	67
February 2018	1.6	29	15	57
March 2018	81.1	33	18	53

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	Production	Productivity
Fish	828	6020 q	7.27 q/ha
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 (2017-18)

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.	1
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.	2

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

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2017-18

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	2	2	6	6	23	23	23	23
Soil Science	2	2	5	5	4	4	4	4
Plant protection	2	2	6	6	6	6	6	6
Agroforestry	2	2	4	4	2	2	2	2
Animal Science	2	2	6	6	6	6	6	6
Home Science	2	2	20	20	13	13	50	50
Total	**12**	**12**	**47**	**47**	**54**	**54**	**91**	**91**

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	79	83	1775	2808				
Rural youth	33	20	675	393				
Extn. Functionaries	20	9	200	215				
Total	**132**	**112**	**2650**	**3416**	3609	2206	9433	6068

Seed Production (ton.)		Planting material (Nos. in lakh)	
5		6	
Target	**Achievement**	**Target**	**Achievement**
0.8	0.65	10,000	8,760

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2017-18

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	INM	Gladiolus	No recommended dose of nutrients for gladiolus under Mamit district Agro-climatic condition	Integrated nutrient Management in Gladiolus					Seeds and inputs
2	Irrigation managements	Tomato	Low water use efficiency in traditional system	On farm testing of furrow irrigated raised bed (FIRB)planting		Cultivation of vegetable during winter season			Seeds and inputs
3	Soil health	Hill agriculture system	Low Phosphorus availability in hilly agriculture land of the district	Use of PSB for enhancing phosphorus availability in hill agroecosystem					Seeds and inputs
4	Soil microbes (beneficial)	Rice (Jhum)	Low productivity although nutrient status is high	Use of microbial consortia in rice fields of jhum based cropping system					Seeds and inputs
5	IPM	Rice	Stem borer & leaf folder	IPM of Stem borer & Leaf folder in Rice		IPM of Stem borer & Leaf folder in Rice			Seeds and inputs

6	IDM	French Bean	*Sclerotinia* rot (white mold)	IDM of *Sclerotinia* rot (white mold) in French bean		IDM of *Sclerotinia* rot (white mold) in French bean			Seeds and inputs
7	Introduction of high value crops/ livestock in different systems	Ginger	Production of organic Ginger	Cultivation of Organic Ginger(Local)		Cultivation of Organic Ginger			Seeds and inputs
8	Integrated crop Management	Maize	high cost of cultivation	Zero tillage technology on Maize		Cultivation of maize using Zero tillage technology			Seeds and inputs
9	Feeding management	Yorkshire crossed with local sow	Traditional weaning age of 60 days is not profitable.	Varietal Evaluation with respect to early weaning Yorkshire boar crossed with locally available sow					Piglets

10	Breed introduction	Dual Purpose Poultry	No identified dual purpose poultry	Varietal evaluation with respect to Deworming in Layer poultry Layers (dual purpose) var. Rainbow Rooster					Dual Purpose Poultry var. Rainbow Rooster Chicks
11	Nutritional diet for children/ Pregnant women	Weaning food	1. Lack of knowledge on preparation of baby food. 2. Mal-nutrition on growing infants. 3. High cost of readymade baby food.	Introduction of weaning food (Assam Mix)					weaning foods
12	Storage techniques grains/ fruits/ fishes/ meat etc)	Pumpkin	1.High post harvest loss 2.Never practice value added products on pumpkin	Value addition on pumpkin (Pumpkin jam, pumpkin biscuits & pumpkin powder) for Income Generation		Value addition on pumpkin for Income Generation			
13	Integrated crop Management technology	Betel vine	Low productivity		betel vine cultivation in Shade net house (shade net boroj	betel vine cultivation in Shade net house (shade net boroj			Planting material and inputs

14	Varietal evaluation	Tomato	Low productivity		Cultivation of tomato var. Arka Rakshak				Seeds & inputs
15	Varietal evaluation	Garden pea	Low productivity		Cultivation of Dual purpose whole pod edible garden pea var. Arka Apoorva				Seeds & inputs
16	Soil management	Oil palm	Low productivity due nutrient & moisture loss		Half-moon terracing in oil palm for nutrient and moisture retention				Inputs
17	Soil biology	Azolla	less availability		Use of Azolla for nitrogen supplement in WRC				Inputs
18	IPM	Tomato	Fruit fly		IPM of Fruit Fly in tomato	IPM of Fruit Fly in tomato			Seeds & inputs
19	IDM	Ginger	Rhizome rot (Soft rot)		IDM in ginger	IDM in ginger			Seeds & inputs
20	Secondary forestry diversification (Bamboo/ Broomgrass etc.)	Broom grass	degraded Jhum land		Introduction of Broom grass in degraded Jhum land				Seeds & inputs
21	Reclamation of degraded area with MPTs etc.	Sloping Agricultural land Technology (SALT)	Nutrient & soil loss		Sloping Agricultural land Technology (SALT)				Seeds & inputs

22	Breed introduction	Duck	Low income due to tradition farming		Popularization of duck: khaki Campbell				Duckling
23	Fodder production and quality enhancement	Maize RCM (75,76)	Quality of fodder		Production of Animal Feed Crop variety: Maize RCM (75,76)				Seeds & inputs
24	Nutritional diet for children/ Pregnant women	Soyabean	Low nutrient diet		Supplementary nutrition by utilizing value added products of soybean among pre - school children.	Value added products of soybean			inputs
25	Storage techniques (grains/ fruits/ fishes/ meat etc)	Tamarind	Post harvest loss		Preservation techniques of tamarind. (Jam, Squash, Sauce & Sweets)	Preservation techniques of tamarind			inputs
26	Food preservation	Jack fruit	Post harvest loss		Processing of jackfruit for income generation among farm women.	Processing of jackfruit			inputs

3.1 Achievements on technologies assessed and refined during 2017-18

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Managem										

ent										
Integrated Crop Management	1				2					3
Integrated Nutrient Management	1						1			2
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition			1		1					2
Integrated Pest Management										
Integrated Disease Management					1					1
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	2	0	1	0	4	0	1	0	0	8

* *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	1	-	-	-	-	-	-	-	-	1
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	1	-	-	-	-	-	-	-	-	1
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-

Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL	2	-	-	-	-	-	-	-	-	2

***** *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					1			1
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL					1			1

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	-	1	-	-	-	-	-	1
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	-	-

Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	-	1	-	-	-	-	-	1

A.5. Results of On Farm Testing (OFT)

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	Integrated nutrient Management in Gladiolus	No recommended dose of nutrients for gladiolus under Mamit district Agro-climatic condition	T1= FYM @10 t/ha as basal dose T2= FYM 10 t/ha as basal dose + 300 kg N + 200 kg P2O5 + 200 kg K2O T3= FYM 10 t/ha as basal dose +VAM (5kg/ha) + Azospirillum(5kg/ha) + 75% N + 50% P2O5 + 200 kg K2O	Gladiolus	3	**Length of the spike (cm)** T1 -53.70 T2- 62.30 T3- 64.70 **Number of florets per spike** T1- 9.78 T2-11.89 T3- -13.50 **No. of Spike yield/ ha** T1-65222 T2-67222 T3-68333	Farmers are interested and willing to adopt this technology after more trials	More trials are required under different locations of Mamit district	T1-1.88:1 T2- 1.94:1 T3- 1.97:1

2	On farm testing of furrow irrigated raised bed (FIRB)planting	Low water use efficiency in traditional system	On farm testing of furrow irrigated raised bed (FIRB) planting Raised Bed of 90 cm wide, 20 cm high with convenient length. An irrigation furrow of 30 width will made between two beds Crop transplanted on both sides of the bed. Irrigation is given through furrow only (3/4th height) Mulching with paddy Straw@7.5 t/ha	Tomato	3	**FIRB Planting** 1 .No. Fruit per plant - 28 2. Fruit weight (g.) - 80 3. Yield (q/ha) - 368 **Farmer Practice** 1 .No. Fruit per plant -25 2. Fruit weight (g.) -70 3. Yield (q/ha)- 323	Farmers are interested and willing to adopt this technology after more trials	More trials are required under different locations of Mamit district	**FIRB Planting** 3.40:1 **Farmer Practice** 3.04:1
3	Use of PSB for enhancing phosphorus availability in hill agroecosystem	Low Phosphorus availability in hilly agriculture land of the district	1. Inoculation of PSB with seeds before sowing 2. Spraying of PSB at 45 DAS	Hill agriculture system	2	1. OC – 1.21% 2. Av. N- 386 kg/ha 3. Av. P- 19 kg/ha 4. Av.K- 241kg/ha 5. Yield: 14.74 qt ha^{-1} (rice equivalent yield) **Farmers' practice** 1. OC – 1.14% 2. Av. N- 265	Reliable but inconsistent source of PSB	PSB should be available in time and preferably isolated from the same area	1: 1.45

						kg/ha 3. Av. P- 15 kg/ha 4. Av.K- 234kg/ha 5. Yield: 12.52 qt ha^{-1} (rice equivalent yield)			
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- 12.71 qt/ha 3. OC – 1.6% 4. Av. N- 382 kg/ha 5. Av. P- 28 kg/ha 6. Av.K- 320kg/ha 7. **Farmers' practice** 8. No of tillers- 7-9 9. Yield- 9.37 qt/ha 10. OC – 1.53% 11. Av. N- 368 kg/ha 12. Av. P- 24 kg/ha 13. Av.K- 311kg/ha	1. Easy inoculation 2. Friendly with other *jhum* activities	1. Site specific MC should be available.	1:1.69
5	IPM of Stem borer & Leaf	Stem borer & leaf	1.Use of disease and insect free pure seeds. 2. Clipping of tip of	Rice	3	1.Crop yield =28.11qtl/ha 2. No. of infested	Farmers are interested in adopting	May be recommended for FLD	1.9:1

	folder in Rice	folder	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 6. Spraying of Tricyclazole			plant at 10 days interval (15 plants/ha,) 3. BC Ratio= 1.9 4. Farmers reaction (good)	the technology , though the Trichogramma was not readily available locally and release should be done within a short period of time		
6	IDM of *Sclerotinia* rot (white mold) in French bean	*Sclerotinia* rot (white mold)	1)Soil application of *Trichoderma harzianum* @ 2% w/w 2)Seed treatment with Carbendazim @ 2 g/ kg of seed 3)Foliar spray with Carbendazim @ 0.1 % at 30, 60 and 90 DAS	French Bean	3	1.Crop yield = 123qtl/ha. 2.No. of infected plant at 10 days interval(55 plants/ha) 3.BC ratio =3.13	Good	Although the performance is good, yet need another trials for better pest management	3.13
7	Introduction of high value crops in	Introduction of organic ginger	Cultivation of Organic Ginger(Local) 1.spacing-20-25cm 2. Application of 25g of powdered neem cake in each pit.	Ginger	2	Data not available as the scientist was transferred to other KVK.			

	different systems		3. Seed rhizomes should be mixed with well rotten cattle manure with 10g of Trichoderma. 4. Buffer zone of 25-50 feet is to be left all around the conventional farm. 5. Solarisation of the seed bed should be done for checking multiplication of pests and disease causing organisms. 6. Application of well rotten cow dung@2.5-3 tonnes/acre as basal dose along with Neem cake@800/acre. 7. During july-october spraying of neem oil(0.5%) fortnightly to prevent shoot borer. 8. Restricted use of Bordeaux mixture (1%)in disease prone areas may be made.			
8	Zero tillage technology on Maize	high cost of cultivation	Zero tillage technology on Maize	Maize	2	Data not available as the scientist was transferred to other KVK.
9	Feeding Management, varietal	No identified fodder	ICAR Research Complex for NEH Region, Umiam, Meghalaya, 2008	Piggery: Yorkshire	3	On-going due to delayed availability of variety and the need of 15 months for completion.

	Evaluation with respect to early weaning. Yorkshire Boar crossed with local breed.	varieties							
10	Improved dual purpose bird: Rainbow Rooster	No identified dual purpose poultry	Directorate of AH&Vety Aizawl Mizoram 2016	Rainbow Rooster	3	1.The age at sexual maturity 2.Egg Production The age at sexual maturity was 151 ± 3 days, and the egg production of 188 ± 2 eggs/hen/annum with an average egg weight of 58 g. Maturity: 168 ± 3 days Egg production: 148± 2 eggs			Improved practice 1.28:1 Farmers practice 1.11:1

11	Introduc-tion of weaning food (Assam Mix)	1. Lack of knowledge on preparation of baby food. 2. Mal-nutrition on growing infants 3. High cost of ready made baby food.	10 babies of 6 mths were selected (5 from Rulpui-hlim & 5 from Lengpui). Basic formula of Assam mix : 1.Pithaguri – 70g 2.Ground nut flour – 5g 3. Green gram flour-20g 4. Sesame flour – 5g Porridge with milk, add little jaggery or Sugar. AAU, Jorhat (Food & Nutrition Department). 2013	Weaning food	10	Increment of Hb level : Mean Avg: 11.3-12.7-14.1 gm/dL Avg. Increment of Ht : 60.5, 64.5 & 69 cms. Avg. Increment of Wt : 7.5, 10.8 & 11.7 Kgs. General Health status of seleted babies reached beyond expectations	Parents of those selected babies felt satisfied and are ready to develop the technology.	The Technology is satisfactory and is recommended for FLD in Mamit District	N.A.
12	Value addition of pumkin	1) High post harvest loss 2) Never practice value added products on pumkin	Pumkin jam, biscuits, soup & pumkin seed powder for Income Generation Deptt. Of Food Science & Nutrition, University of Agriculture Science, Bangalore-2008	Pumkin	1	a) The product is highly accepted in the area b) It is abundantly available. c) Shelf life is 6 months when packed (Jam).	Farmers are highly benefitted by the technology as it is abundantly available	The technology is highly appreciated and is recommended for FLD in Mamit District	N.A.

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 2017-18

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

List of technologies demonstrated during previous years and popularized during 2017-18 and recommended for large scale adoption in the district

Sl. No	Crop and Variety/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Oil Palm	**Half-moon terracing in oil palm for nutrient and moisture retention** 1. Construction of half moon terrace (2m dia) 2. Application of recommended fertilizer dose	1	2	2
2	Rice	**Use of Azolla for nitrogen supplement in WRC** 1. Introduction of Azolla in paddy cultivated plots 2. Thinning of excess azolla	2	2	2

**** 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.	Betel vine	Production and Management technology	Improved package of practices of betel vine cultivation	2017-18	0.03	0.04	3	-	3	-	Irrigated	364	32	308
2.	Tomato	Varietal evaluation	Cultivation of tomato var. Arka Rakshak	*Rabi* 2017-18	1.0	1.0	10		10	-	Irrigated	384	30	301
3	Garden pea	Varietal evaluation	Cultivation of garden pea var. Arka Apoorva (Dual purpose whole pod edible variety)	*Rabi* 2017-18	1.0	1.0	10		10	-	Irrigated	372	29	298
4	Oil Palm	Nutrient managemen	1.Construction of half moon terrace	Kharif	10	2	2	-	2	Fund abberations	Rainfed,	396	31	310

		t	(2m dia) 1. Application of recommended fertilizer dose	and Rabi, 2017-18							Sandy clay loam 360–845m MSL			
5	Rice	Nutrient management	1. Introduction of Azolla in paddy cultivated plots 2. Thinning of excess azolla	Kharif, 2017-18	4	2	2	-	2	Fund abberations	Rainfed, Sandy clay loam 280 - 465m MSL	382	29	298
6	Tomato	IPM	1)Making plastic bottle traps 2) Mix Ethyl Alcohol- 60ml + Methyl Eugenol-40ml + Malathion20ml (120ml mixture for 30 lures).	Rabi, 2017	0.4	0.4	3	-	3	-	irrigated	-	-	-
7	Ginger	IDM	1.Soil drenching with Mancozeb @ 0.3% 2.Seed/rhizome treatment with Carbendazim (0.3%) for soft	Kharif & Rabi, 2017	0.4	0.4	3	-	3	-	Rainfed	-	-	-

			rot 3. Combine treatment with Ridomil MZ (0.1%) + Carbendazim (0.1%) + Chlorpyriphos (0.05 %), by dipping the seed rhizomes for 30 minutes.											
8	Sloping Agricultural Land Technology (SALT)	Reclamation of degraded area with MPTs etc.	Sloping Agricultural land Technology(SALT)(Contour lines 4-6meters apart will be prepared and on each prepared contour line .two furrows will be prepared ½-1 meter apart. One furrow will be planted with Leguminous tree species like *Flemingia congesta*,the other furrow will be planted with *T.candida*. Between the contour lines	Kharif 2017	2	0.5	1	-	1	No data as the Scientist got transferred in other KVK.	Rainfed	-	-	-

			Crops will be planted suggested crops are (Maize, Banana, Soyabean, and Rice.)											
9	Introduction of Broom grass in degraded jhum land	Secondary forestry diversification (Bamboo/ Broomgrass etc.)	Introduction of Broom grass in degraded jhum land	Kharif 2017	2	0.4	1		1	No data as the Scientist got transferred in other KVK.	Rainfed	-	-	-

c. Performance of FLD on Crops during 2017-18

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.	Betelvine	Production and Management techn	0.04	30,22,222 no of leaves	4,30,178 no of leaves	602.55	33,27,632 no. of leaves/ha	26,44,730 no. of leaves/ ha	**No. of plant /ha** 29,630 **Vine**	**No. of plant /ha** 4,390 **Vine lengt**	3,87,519	7,55,556	3,68,037	1.95	28,558	53,772	25,214	1.88

		ology							**length(Cm.)** 189 **No. of Leaves /plant** 102	**h(Cm.)** 174 **No. of Leaves /plant** 98								
2.	tomato	Varietal evaluation	1.0	373	318	17.48	429	336	**No of fruit/ plant -**24 nos **Av. Fruit weight** – 70g	**No of fruit/ plant -**22 nos **Av. Fruit weight** – 65 g	86500	298400	211900	3.45	86500	254400	167900	2.94
3	Garden pea	Varietal evaluation	1.0	72	63	14.29	78	64	**Plant height (cm)** 73 cm. **Pod length (cm**) 7.8cm **No. of seed per pod** 6.00	**Plant height (cm**) 53 cm **Pod length (cm)** 8.2cm **No. of seed per pod** 4.78	57000	180000	123000	3.16	57000	157500	100500	2.76

4	**Oil Palm**	**Nutrient management**	2	2240	1512	32.50%	2380	2100	1.No of FFB/ yr/ha - 11200 2.Male-female inflorescence ratio – 3:10 3. Av. Wt of FFB – 20 kg	No of FFB/ yr/ha - 8400 2.Male-female inflorescence ratio – 4:9 3. Av. Wt of FFB – 18	48000	1299200	1251200	27.1	48000	876960	828960	18.27
5	**Rice**	**Nutrient management**	2	28.1	23.8	15.3%	31.4	24.8	Rice yield - 28.1 q/ha	Rice yield - 23.8 q/ha	28800	281000	252200	9.76	29000	238000	209000	8.21
6	Tomato	IPM	0.4	267.34	163.33	63.68	316.67	218	7%	20%	160404	401010	240606	2.5	145120	244995	99875	1.68
7	Ginger	Disease management	0.4	180	105	71.43	200	160	8%	25%	69230	180000	110770	2.6	61765	105000	43235	1.69

***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	2.7.2017 18.7.2017 3.11.2017	-	107	107	Organized under FAO programme Betel Vine cultivation under Shade net boroj IPM on Rice & use of Azolla on rice.
2	Farmers Training	12	8-12 may,12 june,11&18 sept, 20 Oct, 5 Dec, 2017	-	370	370	-
3	Media coverage	-	-	-	-	-	-
4	Training for extension functionaries	3	7-11 Aug, 28&29 Sept, 5&6 Oct, 2107		69	69	Mostly Soil Laboratory trainings and Shifting cultivation
5	Any other (Pl. specify)	2	7 July, 4 Sept, 2017	-	7	7	Chemistry of soap making
	Total	**18**			**443**	**443**	

e. Details of FLD on Enterprises

i) Home Science:

	Category/		Name of	No. of	No. of	Major Performance parameters /	Remarks

Sl. No.	Enterprise	Title of FLD	Technology	farmers	units	indicators		
						Demo	Check	
1.	Nutritional Diet for children	Supplementary Nutrition by utilizing value added products of soybean among pre-school children (CIAE, Bhopal 2011)	Provided soy products as mid-day meal among 10 pre-school children (3 – 4 yrs) 1. to uplift nutritional status 2. to overcome specific deficiency diseases 3. to combat mal nutrition. Conducted training on healthy meal pattern to their parents and workers.	10 children	4	a) Acceptability b) Wt increment @ 2 mths interval. c) Incidence of PEM	a) The selected pre-school children not only accepted the product but likes to consume everyday. b) 1.5kgs – 2kgs – 2.3kgs approx. c) After consumption of soy products the incidence of PEM has been decreased.	Among 10 children the doctors found that 2 were malnourished. After 8 months supplementation of mid day meal and trained their parents the correct food habit, the condition of 2 Mal nourished children were corrected.
2.	Value Addition	Scientific Methods on Preservation techniques of Tamarind for Income generation. (CFTRI, Mysore 2010)	Preparation of tamarind into tamarind jam, squash, sauce & sweets)	20 farm women	4	Record of Income generated	Rs. 2000/month	People in the area accepted the product and are ready to adopt the technology.
3.	Food Processing	Processing of jackfruit for Income Generation (Post Harvest	Food Processing Technology 1) Jackfruit Chips 2) Jackfruit Pickles	20		Record of Income generated	Avg. income generated: Rs.8000/month.	Immature fruit is never utilized before while jackfruit is abundantly available in the area. After

		Technology Centre, TNAU, Coimbatore)	3) Jackfruit Curry 4) Jackfruit Chutney 5) Jackfruit squash		5			conducting training on processing of jackfruit, it becomes a good source for income generation among rural women.

(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: RCM 75&76	ICAR Research Complex for NEH Imphal 2014	3	1		1. SNF 2. Fat%	1. SNF 2. Fat%	79.4 80.6			48000	57600	9600	1.2	36000	43200	7200	1.2	Farmers are willing to grow the variety for the next season

2	Poultry	Breed Introduction: Khaki Campbell	ICAR Research Complex for NEH Imphal 2014	3	1	10 birds per farmer	Sexual maturity Dresing percentage Increase in fish production	-	-	-	-	-	-	-	-	-	-	-	-	-	On going, since predators' victimized ducks and a new batch distributed in October 2017. Final results by October 2018

**** 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 units	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	
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**** 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	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	

	etc.																		
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

***** 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**				
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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			
	On-	Spo	Tot	General	SC/ST	Total	Gran

	Campus (1)	n On * (2)	al (1+2)	Male		Female		Total		Male		Female		Total		Male		Female		Total		d Total (x + y)
				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)	
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		1	.						13		8		21		13		8		21		21
Off-season vegetables																						
Nursery raising		1	1								19		9		28		19		9		28	28

Exotic vegetables like Broccoli																					
Export potential vegetables																					
Grading and standardization																					
Protective cultivation (Green Houses, Shade Net etc.)		1	1								17		10		27		17		10		27	27
b) Fruits																					
Training and Pruning																					
Layout and Management of Orchards																					
Cultivation of Fruit																					
Management of young plants/orch																					

ards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques		1	1								17		10		27		17		10		27	27
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 Manageme																					

nt 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	.						27		13		40		27		13		40		40
Soil and Water Conservation																					

Integrated Nutrient Management																						
Production and use of organic inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management																						

Poultry Management		2	2								10		7		17		10		7		17	17
Piggery Management		1	1								10		6		16		10		6		33	16
Rabbit Management																						
Disease Management																						
Feed management	1		1	.						13		8		21		13		8		21		21
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition	1	4	5	.								21	42	21	42			21	42	21	42	63

gardening																					
Design and development of low/minimum cost diet	2		2	.								22		22				22		22		22
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition	3	4	7	.								42	42	42	42			42	42	42	42	84

Income generation activities for empowerment of rural Women																					
Location specific drudgery reduction technologies																					
Rural Crafts																					
Women and child care																					
VI Agril. Engineering																					
Installation and maintenance of micro irrigation systems																					
Use of Plastics in farming practices																					
Production of small																					

tools and implements																					
Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					
Post Harvest Technology																					
VII Plant Protection																					
Integrated Pest Management	3	1	1							120	51	75	24	195	75	120	51	75	24	195	75	270
Integrated Disease Management	2	1	1							90	52	40	28	130	80	90	52	40	28	130	80	210
Bio-control of pests and diseases																					

Production of bio control agents and bio pesticides																					
VIII Fisheries																					
Integrated fish farming		1	1								13		9		22		13		9		22	22
Carp breeding and hatchery management																					
Carp fry and fingerling rearing																					
Composite fish culture																					
Hatchery management and culture of freshwater prawn																					
Breeding and culture																					

of ornamental fishes																					
Portable plastic carp hatchery																					
Pen culture of fish and prawn																					
Shrimp farming																					
Edible oyster farming																					
Pearl culture																					
Fish processing and value addition																					
IX Production of Inputs at site																					
Seed Production																					
Planting material																					

production																					
Bio-agents production																					
Bio-pesticides production																					
Bio-fertilizer production																					
Vermi-compost production																					
Organic manures production																					
Production of fry and fingerlings																					
Production of Bee-colonies and wax sheets																					
Small tools and implements																					

Production of livestock feed and fodder																					
Production of Fish feed																					
X Capacity Building and Group Dynamics																					
Leadership development																					
Group dynamics																					
Formation and Management of SHGs																					
Mobilization of social capital																					
Entrepreneurial development of farmers/youths																					
WTO and																					

IPR issues																						
XI Agro-forestry																						
Production technologies	1	1	2							19	23	11	13	30	36	19	23	11	13	30	36	66
Nursery management																						
Integrated Farming Systems	1	1	2							20	23	11	12	31	35	20	23	11	12	31	35	66
TOTAL	**16**	**11**	**27**	**-**	**-**	**-**	**-**	**-**	**-**	**302**	**235**	**251**	**212**	**553**	**447**	**302**	**235**	**251**	**212**	**553**	**447**	**1000**

3.3.2. Achievements on Training of Farmers and Farm Women in Off Campus including Sponsored Off Campus 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	1								30		22		52		30		22		52	52
Off-season vegetables																					
Nursery raising																					
Exotic vegetables like Broccoli																					
Export potential vegetables																					

Grading and standardization																					
Protective cultivation (Green Houses, Shade Net etc.)																					
b) Fruits																					
Training and Pruning																					
Layout and Management of Orchards																					
Cultivation of Fruit																					
Management of young plants/orchards																					
Rejuvenation of old orchards	1		1							17		11		28		17		11		28		28
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	1		1							16		11		27		16		11		27		27
Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology	1		1							16		11		27		16		11		27		27
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	2	2	4							60	30	46	10	106	40	60	30	46	10	106	40	146
Soil and Water Conservation		1	1								23		8		21		23		8		21	21
Integrated Nutrient Management	2	2	4							60	30	42	10	102	40	60	30	42	10	102	40	142
Production and use of organic	2	2	4							60	26	42	10	102	36	60	26	42	10	102	36	138

inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing	1		1							30		21		51		30		21		51		51
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management	1		1							54		26		70		54		26		70		70
Piggery Management	1		1							53		25		68		53		25		68		68

Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening	2	1	3									22	35	22	35			22	35	22	35	67
Design and development of low/minimum cost diet	1		1									10		10				10		10		10

Designing and developme nt for high nutrient efficiency diet	2		2									22		22				22		22		22
Minimizatio n of nutrient loss in processing																						
Gender mainstream ing through SHGs																						
Storage loss minimizatio n techniques																						
Value addition	3	1	4									30	35	30	35			30	35	30	35	65
Income generation activities for empowerm ent of rural Women																						

Location specific drudgery reduction technologies																					
Rural Crafts																					
Women and child care																					
VI Agril. Engineering																					
Installation and maintenance of micro irrigation systems																					
Use of Plastics in farming practices																					
Production of small tools and implements																					
Repair and maintenance of farm																					

machinery and implements																						
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management	3	1	4							151	30	100	26	251	56	151	30	100	26	251	56	307
Integrated Disease Management	2	1	3							110	30	64	26	174	56	110	30	64	26	174	56	230
Bio-control of pests and diseases																						
Production of bio control agents and bio																						

pesticides																					
VIII Fisheries																					
Integrated fish farming																					
Carp breeding and hatchery management																					
Carp fry and fingerling rearing																					
Composite fish culture	1		1							80		38		118		80		38		118		118
Hatchery management and culture of freshwater prawn																					
Breeding and culture of ornamental fishes																					

Portable plastic carp hatchery																						
Pen culture of fish and prawn																						
Shrimp farming																						
Edible oyster farming																						
Pearl culture																						
Fish processing and value addition																						
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						

Bio-pesticides production																					
Bio-fertilizer production																					
Vermi-compost production																					
Organic manures production																					
Production of fry and fingerlings																					
Production of Bee-colonies and wax sheets																					
Small tools and implements																					
Production of livestock feed and fodder																					

Production of Fish feed																					
X Capacity Building and Group Dynamics																					
Leadership development																					
Group dynamics																					
Formation and Management of SHGs																					
Mobilization of social capital																					
Entrepreneurial development of farmers/youths																					
WTO and IPR issues																					
XI Agro-forestry																					
Production technologie	1		1							25		10		35		25		10		35		35

s																							
Nursery management	1	1	2							24	20	10	11	34	31	24	20	10	11	34	31	65	
Integrated Farming Systems	4	1	5							90	20	42	10	132	30	90	20	42	10	132	30	162	
TOTAL	**32**	**13**	**45**							**846**	**239**	**583**	**203**	**1423**	**701**	**846**	**239**	**583**	**203**	**1423**	**701**	**2124**	

(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	2		2							30		23		53		30		23		53		53

Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs	1		1							12		8		20		12		8		20		20
Integrated Farming	1		1							12		8		20		12		8		20		20
Planting material production	1		1							25		10		35		25		10		35		35
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops	1		1							25		10		35		25		10		35		35
Commercial fruit production																						

Repair and maintenance of farm machinery and implements																					
Nursery Management of Horticulture crops																					
Training and pruning of orchards																					
Value addition	5		5								54									54		54
Production of quality animal products																					
Dairying																					
Sheep and goat rearing																					
Quail farming																					
Piggery																					

Rabbit farming																					
Poultry production																					
Ornamental fisheries																					
Para vets																					
Para extension workers																					
Composite fish culture	1		1							12		8		20		12		8		20		20
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	**12**	**-**	**12**							116	54	67	-	183		116		67		237		237

3.3.4. Achievements on Training of Rural Youth in Off Campus including Sponsored Off Campus Training Programmes

(*Sp. Off means Off 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		
	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*	

Mushroom Production	1		1							21		13		34		21		13		34		34
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs	1		1							4				4		4				4		4
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit production																						

Repair and maintenance of farm machinery and implements																					
Nursery Management of Horticulture crops																					
Training and pruning of orchards																					
Value addition																					
Production of quality animal products																					
Dairying																					
Sheep and goat rearing																					
Quail farming																					
Piggery																					

Rabbit farming																					
Poultry production																					
Ornamental fisheries																					
Para vets																					
Para extension workers																					
Composite fish culture																					
Freshwater prawn culture																					
Shrimp farming																					
Pearl culture																					
Cold water fisheries																					
Fish harvest and processing technology																					

Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL	**2**	**-**	**1**							25		13		38		25		13		38		38

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 (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On	Sp On *	Total (1+	On	Sp. On	On	Sp. On	On (a=	Sp. On	On	Sp. On	On	Sp. On	On (c=	Sp. On	On (4+	Sp. On	On (6+1	Sp. On	On (x=	Sp. On	

	(1)	(2)	2)	(4)	(5)	(6)	(7)	4+6)	(b=5+7)	(8)	(9)	(10)	(11)	8+10)	(d=9+11)	8)	(5+9)	0)	(7+11)	a+c)	(y=b+d)	
Productivity enhancement in field crops		1	1								15		12		27		15		12		27	27
Integrated Pest Management		1	1								18		10		28		18		10		28	28
Integrated Nutrient management	4		4							20		7			27	20		7		27		27
Rejuvenation of old orchards																						
Protected cultivation technology	1		1							16		9		25		16		9		25		25
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	1		1									27			27			27		27		27
Low cost and nutrient efficient diet designing																					
Production and use of organic inputs	1		1							16		10			26	16		10		26		26
Gender mainstreaming through SHGs																					
TOTAL	**9**	**-**	**9**							**52**	**33**	**53**	**22**	**25**	**135**	**52**	**33**	**53**	**22**	**25**	**135**	**160**

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**	**Tot**	**General**	**SC/ST**	**Total**	

		Off*	al	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								10		2		12		10		2		12	12
Integrated Pest Management																						
Integrated Nutrient management	4		4							25		5		30		25		5		30		30
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	**4**	**1**	**5**								25	10	2	30	12	25	10	5	2	30	12	42

Note: Please furnish the details of above training programmes as Annexure 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

Discipline	Area of	Title of the training	Date (From –	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP	General participants	SC/ST	Grand Total

	training	**programme**	**to)**			**and NGO Personnel)**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Horticulture	Production of low volume and high value crops	Hybrid vegetable production	19.4.17	1	KVK training Hall	Farmer & Farm women				13	8	21	13	8	21
Horticulture	Nursery raising	Nursery raising of vegetables	24.5.17	1	KVK training Hall	Farmer & Farm women				19	9	28	19	9	28
Horticulture	Protective cultivation (Green Houses, Shade Net etc.)	Protective cultivation (Green Houses, Shade Net etc.)	13.6.17	1	KVK training Hall	Farmer & Farm women				17	10	27	17	10	27
Horticulture	Plant propagation techni	Plant propagation techniques	18.7.17	1	KVK training Hall	Farmer & Farm women				17	10	27	17	10	27

	ques	of Fruits														
Soil Science	Soil fertility management	Soil fertility management	9.5.17	1	KVK training Hall	Farmer & Farm women				27	13	40	27	13	40
Animal Science	Poultry Management	Poultry Management	20.6.17	1	KVK training Hall	Farmer & Farm women				10	7	17	10	7	17
Animal Science	Piggery Management	Piggery Management	27.7.17	1	KVK training Hall	Farmer & Farm women				10	6	16	10	6	16
Animal Science	Feed management	Feed management	20.9.17	1	KVK training Hall	Farmer & Farm women				13	8	21	13	8	21
Home Science	Household food security by kitchen garde	Household food security by kitchen gardening and nutrition	16.5.17	1	KVK training Hall	Farmer & Farm women				21	42	63	21	42	63

	ning and nutrition gardening	gardening													
Home Science	Design and development of low/ minimum cost diet	Design and development of low/minimum cost diet	15.11.17	1	KVK training Hall	Farmer & Farm women				-	22	22	-	22	22
Home Science	Value addition	Value addition	10-12.1.18	3	KVK training Hall	Farmer & Farm women				42	42	84	42	42	84
Plant Protection	Integrated Pest Management	Integrated Pest Management	12-14.9.17	3	KVK training Hall	Farmer & Farm women				171	99	270	171	99	270
Plant Protection	Integrated Disease Mana	Integrated Disease Management	17-19.10.17	3	KVK training Hall	Farmer & Farm women				142	68	210	142	68	210

	gemement														
Fishery	Integrated fish farming	Integrated fish farming	13.3.18	1	KVK training Hall	Farmer & Farm women				13	9	22	13	9	22
Agroforestry	Production technologies	Production technologies	24-25.1.18	2	KVK training Hall	Farmer & Farm women				42	24	66	42	24	66
Agroforestry	Integrated Farming Systems	Integrated Farming Systems	5-6.6.17	2	KVK training Hall	Farmer & Farm women				43	23	66	43	23	66
Plant Protection	Mushroom Production	Mushroom Production	17.1.18	1	KVK training Hall	Rural Youth				30	23	53	30	23	53
Soil science	Production of organic inputs	Production of organic inputs	11.12.17	1	KVK training Hall	Rural Youth				12	8	20	12	8	20

	Integrated Farming	Integrated Farming			KVK training Hall	Rural Youth				12	8	20	12	8	20
Horticulture	Planting material production	Planting material production	6.2.18	1	KVK training Hall	Rural Youth				25	10	35	25	10	35
Horticulture	Protected cultivation of vegetable crops	Protected cultivation of vegetable crops	8.8.17	1	KVK training Hall	Rural Youth				25	10	35	25	10	35
Home Science	Value addition	Value addition	22-23.3.18	2	KVK training Hall	Rural Youth				-	54	54	-	54	54
Fishery	Composite fish culture	Composite fish culture	27.3.18	1	KVK training Hall	Rural Youth				12	8	20	12	8	20
	Productivity enhan	Productivity enhanceme	22.3.18		KVK training	Extension Personnel				15	12	27	15	12	27

	cement in field crops	nt in field crops			Hall										
Plant Protection	Integrated Pest Management	Integrated Pest Management	24.1,18		KVK training Hall	Extension Personnel				18	10	28	18	10	28
Horticulture	Integrated Nutrient management	Integrated Nutrient management	27.10.17		KVK training Hall	Extension Personnel				20	7	27	20	7	27
Horticulture	Protected cultivation technology	Protected cultivation technology	17.1.18		KVK training Hall	Extension Personnel				16	9	25	16	9	25
Home Science	Women and Child care	Women and Child care	13.2.18	1	KVK training Hall	Extension Personnel				-	27	27	-	27	27

Soil Science	Production and use of organic inputs	Production and use of organic inputs	14.3.18	1	KVK training Hall	Extension Personnel				16	10	26	16	10	26

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 crops	Production of low volume and high value crops	25.5.17	1	W. Phailen g	Farmer & Farm women				30	22	52	30	22	52
Horticulture	Rejuvenation of old orchards	Rejuvenation of old orchards	21.7.17	1	Rulpuih lim	Farmer & Farm women				17	11	28	17	11	28

Horticulture	Production and Management technology	Production and Management technology	14-16 2.17	1	Rulpuihlim	Farmer & Farm women				16	11	27	16	11	27
Horticulture	Production and Management technology	Production and Management technology	7.12.17	1	Saithah	Farmer & Farm women				16	11	27	16	11	27
Soil science	Soil fertility management	Soil fertility management	5.12.17	3	Rulpuihlim	Farmer & Farm women				90	56	146	90	56	146
Soil science	Soil and Water Conservation	Soil and Water Conservation	23.2.18	1	W. Phaileng	Farmer & Farm women				13	8	21	13	8	21
Soil	Integrated	Integrated Nutrient	27.2.18	1	W. Phailen	Farmer & Farm women				90	52	142	90	52	14

science	Nutrient Management	Management			g										2
Soil science	Production and use of organic inputs	Production and use of organic inputs	5-9.12.16	1	Rulpuihlim	Farmer & Farm women				86	52	138	86	52	138
Soil science	Soil and Water Testing	Soil and Water Testing	28.11.17	1	Saithah	Farmer & Farm women				30	21	51	30	21	51
Animal Science	Poultry Management	Poultry Management	11.5.2017	1	Rulpuihlim	Farmer & Farm women				54	26	70	54	26	70
Animal Science	Piggery Management	Piggery Management	15.4.17	1	W. Phaileng	Farmer & Farm women				53	25	68	53	25	68
Home	Household	Household food	11-	2	Rulpuih	Farmer & Farm women				22	45	67	22	45	67

Science	food security by kitchen gardening and nutrition gardening	security by kitchen gardening and nutrition gardening	2.7.17		lim										
Home Science	Design and development of low/minimum cost diet	Design and development of low/minimum cost diet	14.4.17	1	Saithah	Farmer & Farm women					10		10	10	10
Home Science	Designing and development for high nutrient	Designing and development for high nutrient efficiency diet	18.7.17	1	W. Phaileng	Farmer & Farm women					22		22	22	22

	efficiency diet														
Home Science	Value addition	Value addition	21.7.17	4	Saithah	Farmer & Farm women				30	35	65	30	35	65
Plant Protection	Integrated Pest Management	Integrated Pest Management	21.12.17	4	Lengpui	Farmer & Farm women				181	90	271	181	90	271
Plant Protection	Integrated Disease Management	Integrated Disease Management	14-16.11.2017	3	KVK training Hall	Farmer & Farm women				140	90	230	140	90	230
Fishery	Composite fish culture	Composite fish culture	27.2.18	1	Saithah	Farmer & Farm women				80	38	118	80	38	118
Agroforestry	Production technologie	Production technologies	23.2.18	1	Saithah	Farmer & Farm women				25	10	35	25	10	35

	s														
Agroforestry	Nursery management	Nursery management	14.2.18	2	W. Phailen g	Farmer & Farm women				44	21	65	44	21	65
Agroforestry	Integrated Farming Systems	Integrated Farming Systems	16.2.18	3	Rulpuih lim	Farmer & Farm women				110	62	172	110	62	172
Plant Protection	Mushroom Production	Mushroom Production	2.11.17	1	Saithah	Rural Youth				21	13	34	21	13	34
Soil Science	Production of organic inputs	Production of organic inputs	9.12.17	1	Rulpuih lim	Rural Youth				4	-	4	4	-	4
	Productivity enhancement in field	Productivity enhancement in field crops	15.4.17	1	Rulpuih lim	Extension Personnel				10	2	12	10	2	12

	crops														
	Integrated Nutrient management	Integrated Nutrient management	21.12.17	1	W. Phailen g	Extension Personnel				25	5	30	25	5	30

(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	

*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		

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 2017-18

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	1605				1116	489	1605				1116	489	1605
2.	Diagnostic visit	IPM, INM, soil health, IDM, etc	12 months activities	371				240	131	371				240	131	371
3.	Field day			2				104	23	127				104	23	127
4.	Group Discussion	INM, soil health, etc	12 months activities	30				296	158	454				296	158	454
5.	Kishan Gosthi															
	Kishan Mela															
6.	Film show		8	7				258	89	347				258	89	347
7.	SHG formation															

8.	Exhibition			2				301	147	448				301	147	448
9.	Scientists visit to farmers fields		12 months activities	111				196	56	252				196	56	252
10.	Plant/ Animal Health camp			1				110	43	153				110	43	153
11.	Farm science club															
12.	Ex-trainee Sammelan															
13.	Farmers seminar/ workshop															
14.	Method demonstration		12 months activities	40				279	141	420				279	141	420
15.	Celebration of important days			3				236	69	305				236	69	305
16.	Exposure visits			1				18	4	22				18	4	22
17.	Electronic media (CD/DVD)															
18.	Extension literature			10				630	486	1116				630	486	1116
19.	Newspaper coverage			4												
20.	Popular articles															
21.	Radio talk															
22.	TV talk	Azolla, Climate change, self recognition		4												

		for rural youth														
23.	Training manual															
24.	Soil health camp	Healthy *jhum*														
25.	Awareness camp															
26.	Lecture delivered as resource person			9				96	64	160				96	64	160
27.	PRA	Village development														
28.	Farmer-Scientist interaction		12 months activities	6				214	74	288				214	74	288
29.	Soil test campaign															
30.	Mahila Mandal Convener meet															
31.	Any other (Please specify)															
32.																
Grand Total				2206				4094	1974	6068				4094	1974	6068

3.5 Production and supply of Technological products during 2017-18

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	2qt. 4qt.	3000 6000		12 20	12 20
OILSEEDS							
PULSES							
VEGETABLES	Okra	Arka Anmika	0.3qt.	3000		21	21
	French bean	Arka Komal	0.2qt.	800		5	5
FLOWER CROPS							

OTHERS (Specify)							

A1. SUMMARY of Production and supply of Seed Materials during 2017-18

Sl. No.	Major group/class	Quantity (q) produced	Quantity (q) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries		
1	CEREALS	6	6	Distributed free of cost		32	32
2	OILSEEDS						
3	PULSES						
4	VEGETABLES	0.5	0.5	Distributed free of cost		26	26
5	FLOWER CROPS						
6	OTHERS						
TOTAL		**6.5**	**6.5**			**83**	**83**

B. Production and supply of Planting Materials (Nos. in No.) during 2017-18

Major group/class	Crop	Variety	Quantity (In No.) produced	Quantity (In No.) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries		
						General	SC/ST	Total
Fruits	**Papaya**	**Pusa Nanha**	**1000**	**1000**	Distributed free of cost		**5**	**5**
Spices								
Ornamental Plants								
VEGETABLES	**Cabbage**	KGM-1, Golden Acre	**2000**	**2000**	Distributed free of cost		**50**	**50**
	Tomato	Arka Rakshak	**2000**	**2000**	Distributed free of cost		**30**	**30**
	Broccoli	Kendi	**1000**	**1000**	Distributed free of cost		**14**	**14**
	Brinjal	Muktakeshi. Arka Keshav	**1200**	**1200**	Distributed free of cost		**14**	**14**
	Chilli	Soldier	**1000**	**1000**	Distributed free of cost		**11**	**11**
	Capsicum	Arka Mohani	**560**	**560**	Distributed free of cost		**6**	**6**

Forest Spp.								
Plantation crops								
Medicinal plants								
OTHERS (Pl. Specify)								

C. Production of Bio-Products during 2017-18

Major group/class	**Product Name**	**Species**	**produced 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. Trichoderma	*Trichoderma harzianum*			0.08			10	10
2								
3								
4								

D. Production of livestock during 2017-18

Sl. No.	**Type/ category of livestock**	**Breed**	**Quantity**		**Value (Rs.)**	**Number of Recipient beneficiaries**		
			(Nos)	**Kgs**		**General**	**SC/ST**	**Total**
1	**Cattle/ Dairy**	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
2	**Goat**	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
3	**Piggery**	-	-	-	-	-	-	-

		-	-	-	-	-	-	-
4	**Poultry**	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
		-	-	-	-	-	-	-
5	**Fisheries**	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
		-	-	-	-	-	-	-
6	**Others (Specify)**	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-

3.6. Literature Developed/Published (with full title, author & reference) during 2017-18

(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	
			Produced/ published	Supplied/ distributed
Research papers				
1.				
2.				

3.				
Training manuals				
Technical Report				
1.				
2.				
3.				
Book/ Book Chapter				
Popular articles				
Technical bulletins				
Extension bulletins				
Newsletter				
Conference/ workshop proceedings				
Leaflets/folders	1.Processing of Soybean 2. Value addition of pumpkin 3. Tie & dye 4. Nursery management of Vegetable crops .5.Value addition of locally available fruits & vegetables. 6. Processing of chips from locally available roots & tubers. 7. Preparation of Nutritional Gardening (Kitchen Garden). 8. Mushroom Cultivation	B. Hmingthanzami B. Hmingthanzami B. Hmingthanzami Dr. Rohit Shukla B. Hmingthanzami B. Hmingthanzami B. Hmingthanzami Vanlalhruaia	300 300 300 300 300 300 1000	300 300 300 300 300 300 800

e-publications				
Any other (Pl. specify): **Animal Science**	"Classical Swine Fever" / Maryma, Vol.36, Issue No. 22, Ramhlun North, Aizawl, the 2nd June, 2018	Dr. C.Rinawma	500	500
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/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

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

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

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

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: 2

ii. No. of farm families selected :247

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 (2017-18):

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	115	242	23	NIL
Water Samples	68	68	14	NIL
Plant Samples	10	10	6	NIL
Petiole Samples	-	-	-	-
Total	193	320	43	NIL

4. Details of Soil Health Cards (SHCs) (2017-18)

a. No. of SHCs prepared:167

b. No. of farmers to whom SHCs were distributed: 167

c. Name of the Major and Minor nutrients analysed: SOC, N, P, K

d. No. of villages covered : 23

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	430	430	430	430					430	430			1290	1290
Voice only	740	740	1150	1150					469	469			2359	2359
Voice and Text both														
Total	1170	1170	1580	1580					899	899			3649	3649

3.14 Contingency planning for 2017-18w

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**

b. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	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
PRRS	200	4	4	500		100	100
PRRS	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 established during 2017-18

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 2017-18

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

RKVY	Rejuvenation of declining orchard (mandarin Orange)	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
RKVY	IPM Orientation Training	September, 2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
RKVY	Farmers Field School	September, 2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
RKVY	Demonstration on livestock based farming system	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
	Training of farm women on value addition of fruit and vegetables	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
RKVY	Soil fertility Management in degraded Jhum land for sustaining crop production	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA

RKVY	Frontline Demonstration on improved paddy cultivation (Integrated crops Management ICM and direct seeded rice)	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
RKVY	Variety Specific targeted seed production (VSTSP) for oil seed	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
RKVY	Promotion of Apiculture	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
RKVY	Capacity building on concept of integrated farming, good agricultural practice on soil and crop Management	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA

RKVY	Study on "Impact of soil nutrient status by practice of shifting cultivation in hill area and its reclamation through introduction of nitrogen fixing trees	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
RKVY	Strengthening of home science laboratory	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
RKVY	Up- gradation of poultry hatchery	2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
NFSM	Demonstration of NFSM Rice and Pulses	June, 2017	Agriculture Dept. (R & E) Govt. of Mizoram	NA
Promotion of Modern Bee keeping for sustaining rural livelihood in Mamit District	Modern Bee-keeping	April, 2016* *On going	NABARD, Mizoram	NA

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1 2	Assessment, refinement, validation and adoption of frontline technologies and other short term researchable issues. Farmer Scientist interaction	**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
-	-	-	-
-	-	-	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2017-18

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit (Name and No.)	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety/ species/ breed	Type of 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	9.6.2017	8.11.2017	0.5	CAU-R1, Gomati	seeds	6 q			9000
Wheat									
Maize	23.6.2014	03.10.2013	0.5	RCM-76	Fodder &Seed	10 q			

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. Pineapple	**15.6.15**	**ongoing**
iii.										
Vegetables										
i.	**Okra**	**24.5.17**	**2.9.17**	**0.05**	**, ArkaAnamika**	**Fruit & Seed**	**2q & 0.2 q seeds**		**5000**	Distributed to 20 farmers
ii.	**Cow pea**	**26.5.17**	**16.9.17**	**0.05**	**Kashi Kanchan**	**Fruit**	**1.5 q**		**4000**	Distributed to 30 farmers
iii.	Garden pea	17.10.17	18.1.18	0.05	ArkaApoorva, ArkaSampoorna	Pod and seed	1q &Seed 0.2 q		5000	Distributed to 30 farmers
iv.	**French bean**	15.10.17	22.1.18	0.05	ArkaKomal, ArkaAnoop	Pod and seed	1q & Seed 0.2 q		4500	Distributed to 30 farmers
v.	**Tomato**	8.10.17	22.2.18	0.06	Arka Rakshak	Fruit	2q		4000	Distributed to 30 farmers

vi.	**Brinjal**	14.6.17	19.10.17	0.02	Pusa Anpuma	Fruit	0.5 q		1000	Distributed to 20 farmers
vii.	**Cabbage**	21.1117	22.2.18	0.02	Bahar	Head	1q		1000	Distributed to 30 farmers
viii.	**Capsicum**	5.9.16	16.2.17	0.001	Arka Mohini	Fruit	0.4 q		1200	Distributed to 20 farmers
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	
Cross	Milk	1176 lts	24,000	34,800	2 calves,1 milking cow	Cross	Milk
Giriraja	Eggs & Chicks	-	-	-	Ongoing	Giriraja	Eggs & Chicks
IMC & Exotic carp	Table fish	-	-	-	-	IMC & Exotic carp	Table fish

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structure

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

6.6. Utilization of hostel facilities (Month-Wise) during 2017-18

Accommodation available (No. of beds): 25

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	-
September	IPM	5	24	120	-
February	Skill development	15	23	345	-
February -March	Skill development	15	20	300	-
Total	5	45	113	995	
Grand total	5	45	113	995	

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	11821318372
Revolving Fund	SBI	LENGPUI	30734028269

7.2 Utilization of funds under CFLD on Oilseeds and Pulses *(Rs. In Lakhs) if applicable during 2017-18*

Item	Released by ICAR/ATARI (in lakh)		Expenditure (in lakh)		Unspent balance as on 31st March, 2018
	Amount	Amount	Amount	Amount	
Inputs	NA	NA	NA	NA	NA
Extension activities	NA	NA	NA	NA	NA
TA/DA/POL etc.	NA	NA	NA	NA	NA
TOTAL	NA	NA	NA	NA	NA

7.3 Utilization of KVK funds during the year 2017 -18

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	82.34	80.21495	80.21495
2	**Traveling allowances**	1.90	1.90	1.90
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	14.50	14.50	14.50

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			
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			
k	HRD	0.75	0.75	0.75
TOTAL (A)		**99.49**	**97.36495**	**97.36495**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
5	**IFS**	1.50	1.50	1.50

6	**Sankalp Se Siddhi**	.63275	.63275	.63275
TOTAL (B)		**2.13275**	**2.13275**	**2.13275**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**101.62275**	**99.4977**	**99.4977**

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 with KVK (in lakh)
April 2015 to March 2016	1.74280	0.60556	0.40000	1.94836
April 2016 to March 2017	1.94836	0.61786	-	2.56622
April 2017 to March 2018	2.56622	0.37918	-	2.94540

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 and Suggestion (Provide point-wise if any, for recommendation)

a) Administrative:

There is no such issue that hampered the normal functioning of KVK, Mamit at the moment in connection with Administration. However, for the smooth running of this KVK, following are the major constraint related to Administrative constraint:

(1) **Replacement of Tractor:** - The present condition of Tractor allotted to KVK, Mamit is very old (more than 10 years old) and need frequent repair and maintenance and now not in a running condition. Therefore, immediate replacement of Tractor would improve in carrying out various farm works of KVK.

(2) **Requisition for allotment of Two Wheeler:** As mentioned earlier, conducting OFT and FLD in the Farmers field invites frequent visit of the farmers and their field which are located in a very remote areas. As there is only one Vehicle in the KVK, constant monitoring cannot be made which sometime hampered in the proper dissemination of Technology. Therefore, allotment of One Motorcycle is a prerequisite for the smooth implementation of various activities.

(3) **More public water connection in the campus**: - Due to shortage of water supply from Public Health Department through water connection, staff of KVK, Mamit residing within the Campus have been facing water scarcity especially during dry season. The existing water connection should be increased to overcome this problem. Improvement of the existing water distribution system within the Campus and instructional Farm is also required.

b) Financial:

(1) Arrangement may be made to improve the system of fund flow as most of the KVK activities are seasonal and time bound activities which require timely implementation.

c) Technical:

1. Right technology for OFTs and FLDs.
2. Frequent Training for KVK staff is needed.
3. Improvement of Laboratories.
4. Replacement of old Tractor is required for farm works.

(Signature)
Sr. Scientist cum Head

ANNEXURE – I

Minutes of 9th Scientific Advisory Committee for KVK, Mamit District, Mizoram

Date : 25th January 2018
Venue : Training Hall, KVK Mamit District, Lengpui
Chairman : Shri Thansiama, Director of Agriculture (Research & Extension), Mizoram, Aizawl

Members present:

1. Shri Vanlalhruaia, i/c Seniour Scientist & Head cum Convener/member secretary, Scientist (Plant Protection)
2. Shri Bt. Romawia, Dpty Ranger *for* DSWO, Mamit District
3. Shri C. Laldingngheta, AFO Fishery *for* District Fishery Officer, Mamit District
4. Shri Zakamlova, R.O. Forest *for* DFO, Mamit District
5. Shri Vanlalruata Sailo, Lengpui cum SAC member
6. Smt T. Lalhunnghaki, President MHIP Lengpui cum SAC member
7. Shri Vanlalkunga, Lengte, SAC member
8. Shri Lalrinsanga, SDHO Rawpuichhip *for* DHO, Tuidam, Mamit District
9. Shri Lalchhuanmawia S/D (Sericulture) *for* DSO, Mamit District.

Staff of KVK Mamit District present:

1. Dr. Rohit Shukla, Scientist (Horticulture)
2. B. Hmingthanzami, Scientist (Home Sc)
3. Dr. Henry Saplalrinliana, Scientist (Soil Sc)
4. Dr. C. Rinawma, Scientist (Anim Sc)

The Chairman after welcoming the members gave a brief opening to the need and importance of the SAC committee: focusing the need to scrutinize and accept the proposal laid by the scientists of the concerned KVK, the activities for the year 2018-2019. He then asked for self-introduction of the members and staff of the KVK present for the meet.

The Chairman requested the Convener to highlight the Agenda of the committee, followed by asking the KVK scientists to present their activities during the year 2017-18 and proposal for the year 2018-19.

During presentation by the scientists which was analyzed by the members of the committee, few additional suggestions were put on the floor such as control of snail infestation especially in backyard farms and nursery, popularization of wood vinegar etc. Even though some of the suggestions did not align with inventories of ICAR, the proposal for the activities for the year 2018-19 was acknowledged and accepted by the members of the 9th SAC for KVK Mamit District, Mizoram.

Vote of thanks was proposed by Dr Rohit Shukla.

Dated: 25th January 2018

Sd-

(CHAIRMAN)
SAC

25.1.2018

(MEMBER SECRETARY)
SAC