PROFORMA FOR ANNUAL REPORT OF KVKS, 2018-19

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
KVK Mamit District, Lengpui	0389-2573352	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 (R&E)	0389-2319025	0389-2315784	mizagri@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Vanlalhruaia Hnamte	Luangmual	+919436152189	Hruaiahnamte111@gmail.com

1.4. Year of sanction: 2005

1.5. Staff Position **(As on 31st March, 2019)**

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	Dr. Vanlalhruaia Hnamte	Senior Scientist & Head	Agro-Forestry	15600-8000 (GP)	32790	24.07.2014	Permanent	ST
2	Subject Matter Specialist	Dr. C. Rinawma	Scientist (Animal Science)	Animal Science	15600-5400 (GP)	22850	22.4.2008	Permanent	ST
3	Subject Matter Specialist	Dr. Rohit Shukla	Scientist (Horticulture)	Horticulture	15600-5400 (GP)	22850	22.4.2008	Permanent	Gen
4	Subject Matter Specialist	Vanlalhruaia*	Scientist (Plant Protection)	Plant Protection	15600-5400 (GP)	22850	22.4.2008	Permanent	ST

5	Subject Matter Specialist	Dr. Rebecca Lalmuanpuii	Scientist (Agro-Forestry)	Agro-Forestry	15600-5400 (GP)	22020	05.6.2009	Permanent	ST
6	Subject Matter Specialist	Rualthantluanga Pachuau	Scientist (Fisheries)	Fisheries	15600-5400 (GP)	15600	23.2.2018	Permanent	ST
7	Programme Assistant	Biakhlupuii Chenkual	Programme Assistant	Home Science	9300-4200	14670	09.11.2009	Permanent	ST
8	Computer Programmer	C. Ramdinsanga	Computer Programmer		9300-4200	15240	22.4.2008	Permanent	ST
9	Farm Manager	K. Zohmingliani	Farm Manager	Agro-forestry	9300-4200	15240	22.4.2008	Permanent	ST
10	Accountant / Superintendent	Lalrinchhana Sailo	Accountant / Superintendent		9300-4200	15240	22.4.2008	Permanent	ST
11	Stenographer	B.Laldinpuii	Stenographer		5200-2400 (GP)	10890	29.2.2008	Permanent	ST
12	Driver	Lalchuailova	Driver		5200-2000 (GP)	8880	29.2.2008	Permanent	ST
13	Driver	Lalchungnunga	Driver		5200-2000 (GP)	8880	29.2.2008	Permanent	ST
14	Supporting staff	P.C.Lalthanpuii	Supporting staff		4440-1300 (GP)	6890	10.7.2008	Permanent	ST
15	Supporting staff	Lallawmkima#	Supporting staff		4440-1300 (GP)	6890	10.7.2008	Permanent	ST
	Total								

*Study Leave

Deceased (16th May2019)

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. 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
5.	Orchard/Agro-forestry i. Mango ii. Litchi iii. Banana iv. Pineapple v. Oil palm vi. Arecanut vii. Carambola	2.5
6.	Others (specify)	2

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

Sl. No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
1	Ricoh Aficio MP 1600LC	2012	1,54,000.00	Good Condition
2	Laser Printer (HP Laser Jet-1020+ Sl. No. VNC3760857)	2008	45,00.00	Good Condition
3	Speaker UMAX Model-UPB-1400FM	2008	1,500.00	Good Condition
4	CPU 55274-692-4406923-23495	2008	14,000.00	Good Condition
5	LCD Monitor BenQ G 700AD Model ET-0005-B	2008	8,800.00	Good Condition
6	UPS Supercomp SEV Fortune 600 B080515-10307	2008	2,000.00	Good Condition
7	V-SAT (HCIL)	2009	1,00,000	Disconnected/ not in use
8	BSNL Broad band	2010	NA	Good condition
9	Projector Vivek (DLP Projector) Model.D325MX Sl.No.WD325MX7520162	2008	87,000.00	Not in good condition, need replacement
10	Handy Video Camera Sony 4.0MP Model No.HDR-SRIOEN50, 799807	2008	75,000.00	Good Condition
11	UPS Supercomp No.B080603-7519	2008	1,800.00	Good Condition
12	Plain Paper Fax with Copier Panasonic Model No.KX-FP701CX, KX-FP702CX	2008	9,996.00	Not in good condition, need replacement
13	Wireless Amplifier AHUJA WA-320 No.08011080	2008	12,600.00	Good Condition
14	Dynamic Wireless Microphone, AHUJA AWM-322	2008	460.00	Good Condition
15	Samsung ML-1640 Series Printer	2010	5,000.00	Good Condition

16	QS250 Speakers	2010	15,500.00	Good Condition
17	AC Voltage Stabilizer Model: VR45, Sr No. : 17569	2010	4,000.00	Good Condition
18	HP Office jet 3608 All-in-One (Fax-Print-Scan-Copy)	2010	NA	Good Condition
19	EPSON Stylus Office T1100, Model No: B322A	2010	20,000.00	Good condition
20	Amplifier Proton Power Mixer POD 650	2010	2,214.00	Good Condition
21	Microphone ,SHURE PG48-XLR-B	2010	6,000.00	Good Condition
22	Microphone Professional, MIPRO M7-103, MR-515, MH-202, Wireless.	2010	NA	Good Condition
23	Assemble Computer, Pentium(R) Intel Dualcore CPU-E5200 2.49ghz, 0.99GB of RAM, Frontech LCD Monitor	2008	NA	Not in good condition
24	Assemble Computer, Pentium(R) Intel Dualcore CPU-E5200 2.70ghz, 2GB of RAM, HP LCD Monitor	2010	NA	Good Condition
25	Lenovo branded Computer , 1GB RAM,2.7ghz	2008	NA	Not in good condition, needs upgradation/ replacement
26	Assemble Computer Pentium(R) Intel Dualcore CPU-E5200 2.50ghz, 1.99GB of RAM, Benq LCD Monitor	2010	NA	Not in good condition, needs upgradation/ replacement
27	HP branded Computer, 2.50ghz, 1.99GB of RAM, Benq LCD Monitor	2010	21,500	Good Condition
28	Speaker Stand QSSAL, No.: 080819011, S.No.:	2010	3,500	Good Condition

	409 & 420			
29	Microphone Stand AHUJA BMS – 101, Made in India	2010	1,200	Good Condition
30	Television Panasonic 29"	2010	NA	Need to repair
31	Advanced DVD Player with 5.1 ch Samsung DVD- C460	2010	NA	Good Condition

1.8. A). Details SAC meeting* conducted in 2018-19

Date	**Name and Designation of Participants**	**Salient Recommendations**	**Action taken on last SAC recommendation**
18th January, 2019	1. Dr. H. Saithantluanga, Chairman SAC, Director of Agriculture R&E, Mizoram 2. Dr. A.K. Singha, Principal Scientist, ATARI 3. Dr. I. Shakuntala, Joint Director, ICAR, Kolasib 4. Lalrinsanga, SDHO, Mamit District 5. Dr. Lalmakzuala, DVO, Mamit District 6. Dr. Samuel Lalliansanga, IA, Directorate of Agriculture R&E, Mizoram 7. Dr. PL. Lalruatfela, Project Director , ATMA 8. Rualthantluanga Pachuau , Scientist (Fisheries) KVK Mamit 9. Dr. Rebecca Lalmuanpuii, Scientist (Agro-forestry) KVK	i.Agroforestry *Pursue new technology of Mizo (Bird's eye) Chilli. * Any tree bean trial must be included with IFS. * Introduce sturdier bamboo for the district ii. Horticulture * Introduce Swapna variety of Papaya in OFT *Change of introduction of cabbage variety to KGMR-1 * Change use of *Arka anamika* to *Kashi pragati* iii. Fisheries * Carry on more sponsored trainings towards fisheries iv. Animal Science *Popularize Vanaraja or Rainbow Rooster instead of turkey	All actions were taken

	Mamit 10. Dr. C.Rinawma, Scientist (Animal Science) KVK Mamit 11. Dr. Rohit Shukla Scientist (Horticulture) KVK Mamit 12. Vanlalkunga, Farmer Representative, Lengte 13. Dr. Henry Saplalrinliana, i/c Senior Scientist & Head, Soil Science, KVK Mamit		

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

2. DETAILS OF DISTRICT

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

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,	47706

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

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

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

2.5. Weather data

Month	**Rainfall (mm)**	**Temperature ^{0} C**		**Relative Humidity (%)**
		Maximum	Minimum	
April, 2018	69.1	33.06667	24	84.50
May, 2018	93.6	33.03226	24.54839	86.40
June, 2018	225.5	32	25.46667	93.60
July, 2018	163.2	31.90323	26.22581	92.10
August, 2018	157	32.70968	26.25806	95.31
September, 2018	54	32.6	26.26667	94.70
October, 2018	155.5	30.51613	24.19355	92.59
November, 2018	5.5	30.06667	20.6	85.30
December, 2018	2.4	26.70968	16.3871	84.40
January, 2019	1.7	26.09677	15.96774	79.60

February, 2019	3.8	27.92857	16.21429	79.90
March, 2019	17.4	30.70968	21.25806	83.91

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	6020q	7.27 q/ha
Marine	*NA*	NA	NA

Inland	*NA*	NA	NA
Prawn	*NA*	NA	NA
Scampi	*NA*	NA	NA
Shrimp	*NA*	NA	NA

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2018-19)

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1	W.Phaileng	W.Phaileng, Chhippui, Lallen, Saithah, Phuldungsei, Pukzing, Marpara, Andermanik, Rajivnagar, Tuipuibari, Damparengpui, Teirei, Khawhnai, Parvatui, Tuirum	Paddy, Maize, Ginger, Turmeric, Khasi mandarin, Vegetable, Oil Palm, livestock, fishery, oilpalm	Scientific know how, quality breed, quality seeds and planting materials, feed, medicines, soil erosion, acidic soil, water scarcity, citrus decline, pests, paddy leaf roller, post harvest management and marketing problems, irrigation, communication problems.	Training on scientific agriculture and allied, introduction of quality seeds and planting materials, disease management, post harvest management, value addition, introduction of improved production technologies, integrated farming.	
2	Reiek	Bawngthah, Kanghmun, Khawrihnim, W.Lungdar, Ailawng, Reiek, Rulpuihlim, Tuahzawl, Chungtlang, Rawpuichhip, Hmunpui, West Serzawl, Lengpui, Lengte, Nghalchawm	Paddy, Maize, Ginger, Turmeric, Vegeable, Jatropha, Khasi Mandarin, livestock, fishery	Scientific know how, quality breed, quality seeds and planting materials, feed, medicines, soil erosion, acidic soil, water scarcity, citrus decline, pests, paddy leaf roller, post harvest management and marketing problems, irrigation, communication problems.	Training on scientific agriculture and allied, introduction of quality seeds and planting materials, disease management, post harvest management, value addition, introduction of improved production technologies, integrated farming.	

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

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2018-19

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	03	03	07	07	02	02	25	25
Agroforestry	03	03	09	09	02	02	20	20
Animal Science	02	02	13	13	02	02	15	15
Fisheries	02	On going	04	On going	02	02	20	18
Total	**10**	**8**	**33**	**31**	**08**	**08**	**80**	**78**

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**
Farmers								
Rural youth								
Extn. Functionaries								
Total					1291	2264	6380	10822

Seed Production (ton.)		Planting material (Nos. in lakh)	
Target	**Achievement**	**Target**	**Achievement**
		25000	40640

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2018-19

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	Varietal evaluation	Papaya	Low productivity of local varieties	Varietal evaluation of Papaya varieties Arka Prabhath & Surya	-	Package of practices of Papaya cultivation			Seeds, Seedling Manure and fertilizer

2	Integrated Nutrient Management	Okra	Low productivity in Traditional cultivation system	Cultivation of Okra by using organic source of nutrient		Organic nutrient management vegetable crops			Seeds Manures bio-fertilizer Rock phosphate
3	Integrated crop Management	Dragon fruit	New crop no recommended scientific package of practices for area concern	Cultivation of high value crop Dragon fruit to increase farmer income		Dragon fruit cultivation			Cuttings Manure & fertilizer
4	Irrigation managements	Tomato	Scarcity of water during dry season		FLD on Furrow irrigated raised bed (FIRB) planting for water use efficiency	Irrigation management in winter vegetables			Seedlings Manures & fertilzer
5	FLD on protected cultivation of round the year vegetable cultivation	Tomato, French bean cucumber sequence	Open field cultivation not possible during off season		Round the year vegetable cultivation under protected condition	Round the year vegetable cultivation under protected condition			Seed seedling Manure & fertilizer PP chemicals
6	Introduction of MPTs in newly Developed Systems	Cotton plant *(Gossypuim hirsutum)*	Non practice for sustainable production on sloping land	Promotion on Cultivation of cash crop (upland Cotton plant) for enhancing sustainable production on sloping land with agriculture crops.		Package of practices of cotton cultivation			seedling Manure & fertilizer PP chemicals

7	Intercropping	Arecanut, Birds' eye chilli	Non practice of Inter cropping	Intercropping of Birds' Eye Chilli with Arecanut on hill slope for export oriented		Package practices of birds' eye chilli			Seeds seedling Manure & fertilizer PP chemicals
8	**Tree bean + Broom grass + Maize (Green cob)**	Non practice of Multistory cropping system for income generation (Surplus income	Non practice of Multistory cropping system for income generation (Surplus income)	Promotion of Multistory cropping system and Land use Model for Sustainable Production					Seeds seedling Manure & fertilizer PP chemicals
9	**Secondary forestry diversification (Bamboo/ Broomgrass etc.)**	Broom grass	Soil erosion		Cultivation of Broom grass for conservation of top soil loss and moisture retention on degraded jhum land.	Package practices of broom grass cultivation			Seeds Manure & fertilizer
10	**Intercropping**	Arhar and Paddy	Low productivity		Raised and sunken bed technology for crop diversification and productivity enhancement				Seeds Manure & fertilizer PP chemicals
11	**Fish breeding**	Fish	Seasonal breeder	Seed production of Silver barb *Puntius gonionotus*		Seed production of Silver barb *Puntius gonionotus*			Brooder fish *Ovaprim* injection

12	**Feed-based carp polyculture system**	Silver barb *Puntius gonionotus* (bleeker)	Not proper utilization of feed in in feed-based carp polyculture system	Incorporation of Silver barb *Puntius gonionotus* (bleeker) in feed-based carp polyculture system to increase farm production.					Fingerlings
13	**Pond management**	Rice Fish	Low productivity	Rice-Fish farming in rain water harvested tank under mid hill condition			Rice – fish farming system		Fingerlings
14	**Feeding management**	IMC & EMC	Imbalance diet	Food and feeding management of Major carps (IMC & EMC) to increase fish production.					Feed and fingerlings
15	**Popularization**	Introduction of Turkey & Quail	Farmers not aware of dressing percentage for better income	Turkey and Quail farming a. Body weight gain b. Egg production		Feed conversion ratio and poultry production			Turkey poult and quail birds

16	Popularization of improved sow & boar	Introduction of crossbred (Hampshire X Ghungru – changed to Yorkshire due to an in surge of PRRS in Mizoram) pigs -	Farmers not aware of improved variety in piggery	Assessment of growth and performance of crossbred (Hampshire X Ghungru - changed to Yorkshire due to an in surge of PRRS in Mizoram) pigs under local condition. a. Growth rate b. Litter size c. Marketable Weight d. B:C ratio e. Farmer's reaction		Piggery Management			Piglets, vaccination against Swine fever, medicines and pre starter feed.

17	Introduction of layer birds	Variety: Rainbow Rooster	Farmers not acquainted with poultry layer/dual purpose.		a. Analyze commercial available layer feeds per kilogram for Protein, calcium and zinc. b. Formulate a balanced feed trial using locally available plants/herbs c. Deworming in open range poultry farm using Ivermectin and Fenbendazole @ 10mg per 10 kg of birds and 150mg per 10 kg of birds d. Egg production	Poultry Management			Chicks and pre starter feed
18	Fodder Introduction	Production of Animal feed: RCM 75&76	Farmers not aware of improved variety of Maize as fodder		a. Sowing time: Late April to mid May and Nov to Early december b. Land preparation: Land prepared thoroughly c. Fertilization: 33.6 kg N, 11 Kg P and 3.6 Kg K in the form of Urea, SSP and MOP d. Pest and Disease: As per package of practices when necessary e. Planting distance 45 X 45 cm	Nutrition requirement in poultry			

19	Soil management	Rice	Poor P fertilization	Root dip treatment of Rice with SSP-MC slurry method of P manage ment					Seeds Microbial consortiu m SSP
20	Soil microbes (beneficial)	*jhum* based cropping system	Low productivit y although nutrient status is high	Use of microbial consortia in rice fields of *jhum* based cropping system					Microbial consortiu m
21	Soil management	Oil palm	nutrient and moisture loss		Half-moon terracing in oil palm for nutrient and moisture retention				Fertilizer Manures
22	Soil biology (BGA/ Azolla)	Rice	Less availability of fertilizer		Use of Azolla for nitrogen supplement in WRC				Azolla

3.1 Achievements on technologies assessed and refined during 2018-19

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

Thematic areas	**Cere als**	**Oilsee ds**	**Pulses**	**Commerci al Crops**	**Vegetable s**	**Fruit s**	**Flowe r**	**Plantatio n crops**	**Tube r Crop s**	**TOT AL**
Varietal Evaluation						1				1
Seed / Plant production										
Weed Management										
Integrated Crop						1				1

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

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds		1			1		1	3
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder							1	1
Small Scale income generating enterprises								
TOTAL		1			1		2	4

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

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

A.5. Results of On Farm Testing (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	Growth performance of Turkey bird in deep litter system in Mamit district.	Insufficient meat availability due to outbreak of a virulent namely Ranikhet Disease.	Division of Livestock Production, ICAR RC for NEH Region, Umiam 2011	Poultry	2	6th week: 1.73 kg 7th week: 1.73 kg 8th week: 2.20 kg 9th week: 2.51 kg 12th week: 3.11 kg Egg production in Turkey: The birds have not attained 30th week of age.	Unless a good business-marketing model is developed, the farmers are hesitant to follow up with turkey.	Farmers asked for provision of small-scale egg incubator as well as a cheaper fodder production for laying poultry.	1.46
2	Performance of Japanese Quail raised under scientific management practices.	Insufficient egg protein supplement	Division of Livestock Production, ICAR RC for NEH Region, Umiam 2011	Poultry	2	Body weight at 35 days of age: 108-120gm Body weight at 42 days of age: 124-140gm Egg production: Litter – 28.14 Cage – 37.43	Farmers are eager to continue quail farming	-do-	1.35
3	Assessment of growth and performance of Yorkshire	Poor performance of local variety of pigs in Mamit	NRC, Pig, Rani, ICAR 2009	Pig rearing	2	Growth rate of 15 kg in 34.6 days Litter size at 8-12	Farmers are willing to rear sow supplemented with artificial	Irrespective of breed, the farmers are more inclined towards dual colored	1.77

	pigs under local condition.	district.				per sow Marketable weight of piglets at 15-22kg in 47±5 days	insemination.	breeds due to the massive imports from Burma for the past 15 years.	
4	Promotion on cultivation of cash crop (upland cotton) for enhancing sustainable production on sloping land with agriculture crops.	Non practice for sustainable production on sloping land	**Spacing:** 50 – 120 cm between rows and 15 – 60 cm within rows (Average 80 – 30 cm) as hedge row planting on hill slope.	**Cotton plant *(Gossypuim hirsutum)***	03	**Technology-** 1. Survival% - 80% **2.** Yield of cotton/ha. - 458 kg/ha. **Farmers' practice-** 1. Survival% - 78% **2.** Yield of cotton/ha. - 396kg/ha.	Farmers are interested and willing to adopt this technology after more trials	More trials are required under different locations of Mamit district	**Technoloy** – 1.77:1.0 **Farmers' practice** – 1.53:1.0
5	Promotion of Multistory cropping system and land use model for	Non practice of Multistory cropping system for income generation (Surplus	Local natural tree (Tree bean) at a spacing of 5m X 5m advocated at hill top.	Tree bean + Broom grass + Maize (Green cob)	03	**Technology-** 1. Survival % - 82% 2. Yields from different crop	Farmers are interested in adopting the technology	May be recommended for FLD	**Technoloy** – 2.0:1.0

	sustainable production	income)	Broom grass as hedge row planting in contour for soil conservation and generation of income. Cover cropping of Maize in rainy season and Rapeseed in dry season.			enterprises/ha - 32.14 qtls/ha **Farmers' practice-** 1. Survival % - 78% 2. Yields from different crop enterprises/ha – 24.25 qtls/ha			**Farmers' practice –** 1.51:1.0
6	Intercropping of Birds' Eye Chilli with Arecanut on hill slope for export oriented.	Non practice of Inter cropping	Arecanut at a spacing of 2.50m X 2.50m pl to pl & 2.00m X 2.00m r to r (triangular system) Birds' eye chilli at a spacing of –Between rows 75 cm, Between plants 60cm.	Arecanut, Birds' eye chilli	03	**Technology** – 1.Survival %- 86% 2.No.of fruits/plt- 87 3. Yields of birds' eye chilli/ha.- 30.14 qtls/ha. **Farmers'parctice**- 1.Survival %- 78% 2.No.of fruits/plt- 72 3. Yields of birds' eye chilli/ha.-	Farmers are interested in adopting the technology	May be recommended for FLD	**Technoloy –** 1.87:1.0 **Farmers' practice –** 1.62:1.0

						26.27qtls/ha.			
7	Varietal evaluation of Papaya varieties Arka Prabhath & Surya for higher income	Low productivity of local varieties	Papaya: Arka Prabhath Gynodioecious variety Surya Gynodioecious variety Recommended package of practices of cultivation will be adopted Spacing: 1.8x1.8m	Papaya	2	Ongoing Crop in Vegetative stage Plant height -1.2 m			
8	Cultivation of Okra by using organic source of nutrient	Low productivity in Traditional cultivation system	Cultivation of Okra by using organic source of nutrient Spacing 50cm X45 cm Seed rate 10 kg	Okra	3	organic source of nutrient 1.Days to flowering 48 days	Farmers are interested and willing to adopt this technology after more trials	More trials are required under different locations of Mamit district	organic source of nutrient 3.62:1 Farmer Practices 3.08:1

			/ha Seed treatment with bio fertilizer AZB and PSB@ 7.5g each per 100g of seeds Manure application FYM 5t/ha & vermin compost 1t/ha with Rock phosphate 313kg/ha			2.Days to fruiting 54 days 3. No. of fruits/ plant 14.6 4 Fruit length (cm.) 14.6cm 6. Yield (t/ha) 9.76 t/ha Farmer Practices \ 5. Yield (t/ha) 5.54 t/ha			
9	Cultivation of high value crop Dragon fruit to increase farmer income	New crop no recommended scientific package of practices for area concern	Cultivation of high value crop Dragon fruit to increase farmer income Type :Red flesh Planting	Dragon fruit	2	Ongoing Crop in Vegetative stage Plant height: 1.08 m. No. of branches : 4			

			distance 3m.X 3m. Training Structure: Concrete pillars or wooden poles and using tyres as base structure Growing media: Soil enriched with organic inputs like farmyard manure and vermi-compost along with bio-fertilizers. Planting of 4 rooted cuttings around each pillar.						
10	Root dip treatment of Rice with SSP-MC slurry method of P management	Poor P fertilization	Soil management 1. Uprooting of rice seedlings 1 day before transplanting 2. Dipping of rice seedling in SSP (112mg P/kg mud) slurry in	Rice	2	**Technology** 1.Soil fertility status SOC: 0.87% Nitrogen-219 kg ha^{-1} Phosphorus-19.58kg ha^{-1} Potassium-191.42 kg ha^{-1} 2. Yield (q/ha)-37.89		Can there be local strains of MC available?	T: 2.16 FP: 2.06

			main field (45sq m) 3. Dipping of the rice seedlings in 4kg MC formulation 2 hrs prior to transplanting 4. Transplanting of rice seedlings after overnight dipping.			**Farmer's practice** 1.Soil fertility status SOC: 0.84% Nitrogen-232 kg ha^{-1} Phosphorus-21.28kg ha^{-1} Potassium-213.47 kg ha^{-1} 2. Yield (q/ha)-36.22			
11	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- 12-14 2. Yield- 13.71 qt/ha 3. OC – 1.8% 4. Av. N- 352 kg/ha 5. Av. P- 27 kg/ha 6. Av.K- 230kg/ha 7. **Farmers' practice** 8. No of tillers- 9-11 9. Yield- 11.23qt/ha 10. OC – 1.73% 11. Av. N- 268 kg/ha 12. Av. P- 27 kg/ha 13. Av.K- 241kg/ha	1. Easy inoculation 2. Friendly with other *jhum* activities	Can there be local strains of MC available?	T: 1.56 FP: 1.28
12	Seed production of Silver barb *Puntius gonionotus*	Seasonal breeder	Seed production of Silver barb *Puntius gonionotus*		On going	Due to immature brooders during peak breeding season, breeding could not be done, and breeding will be done during this coming breeding season i.e June – August,2019	On going	On going	Ongoing

13	Incorporation of Silver Barb Puntius gonionotus in feed based carp polyculture system to increase farm production	Unavailability of seed in the entire state of Mizoram	Incorporation of Silver Barb Puntius gonionotus in feed based carp polyculture system to increase farm production		On going	This OFT will start as soon as breeding of Silver barb is done, during this breeding season i.e June – August, 2019	On Going	On going	On going

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 2018-19

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	RCM 75&76 for fodder production	a. Sowing time: Late April to mid May and Nov to Early december b. Land preparation: Land prepared thoroughly c. Fertilization: 33.6 kg N, 11 Kg P and 3.6 Kg K in the form of Urea, SSP and MOP	1 (Saithah)	4	2

		d. Pest and Disease: As per package of practices when necessary e. Planting distance 45 X 45 cm			
2	Broom grass	Cultivation of Broom grass on hill slope for conservation of top soil loss and moisture retention on degraded jhum land. **Technology:** 6 X 6 ft	05	05	2.0
3	Paddy + Arhar	Raised and sunken bed technology for crop diversification and productivity enhancement. **Technology:** **Spacing of 90 cm** X 90 cm Arhar variety - Local Paddy (Var. Gomati)			

**** 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)**		
					Proposed	**Actual**	**SC/ST**	**Others**	**Total**			**N**	**P**	**K**
1	Tomato	Protected	Round the year vegetable	2018	0.2	0.2	10	-	10	-	Rainfed,	292	27	1

	French bean Cucumber in sequence	cultivation	cultivation under Shade net house	-19							Sandy loam 390–867m MSL			
2	Tomato	Irrigation managements	**Furrow irrigated raised bed (FIRB) Planting for water use efficiency** 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	Rabi 2018-19	5.0	5.0	15	-	15	-	Irrigated, Sandy clay loam 214 & 286m MSL	281	26	2
3.	Oil Palm	Nutrient management	1.Construction of half moon terrace (2m dia) 1. Application of recommended fertilizer dose	Kharif and Ra	10	10	10	-	10		Rainfed, Sandy loam 390–867m MSL	296	28	290

				bi, 2018-19										
4.	Rice	Nutrient management	1. Introduction of Azolla in paddy cultivated plots 2. Thinning of excess azolla	Kharif, 2018-19	2	2	2	-	2		Rainfed, Sandy clay loam 214 & 286m MSL	287	26	197
5	Broom grass	**Secondary forestry diversification (Bamboo /broom grass)**	Cultivation of Broom grass on hill slope for conservation of top soil loss and moisture retention on degraded jhum land.	2018-2019	2.0	2.0	10	-	10	-	Rainfed, sandy loam 390-867 m MSL	292	27	1

c. Performance of FLD on Crops during 2018-19

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR

1	Tomato French bean Cucumber in sequence	Protected cultivation	0.2	Tomato 382	Tomato 243	34.98	423	342	Tomato No. fruits /plant: 20.0 Av. Fruit wt. : 58g	Tomato No of fruits /plant :13.0 Av. Fruit wt: 41g	104600	573000	468400	5.48	104600	424500	319900	4.06
				French bean 98	French bean 82	25.93	111	93	French bean Days to first picking-54 Pod length (cm.) 14.6 cm	French bean Days to first picking-58 Pod length (cm.) 12.9 cm	76000	306000	230000	4.03	76000	243000	167000	3.20
				Cucumber 122	Cucumber 103	25.77	136	109	Cucumber 1.No. of fruits per vine	Cucumber 1.No. of fruits per vine	81000	244000	163000	3.01	81000	194000	113000	2.40

									13.0 2.Avg. fruit weight :172g	10.0 2.Avg. fruit weight :124g.								
2	Tomato	Irrigation managements	5.0	352	310	13.55	382	327	1 .No. Fruit per plant - 27 2. Fruit weight (g.) - 79	1 .No. Fruit per plant - 24 2. Fruit weight (g.) - 69	113600	528000	414400	4.65	113600	465000	351400	4.09
3	Oil Palm	Nutrient management	10	2757.5	2112	23.41	2880	2635	1.No of FFB/ yr/ha - 11489 2.Male-female inflorescence ratio – 3:10 3. Av. Wt of FFB – 24 kg	No of FFB/ yr/ha - 10560 2.Male-female inflorescence ratio – 4:9 3. Av. Wt of FFB – 20	120000	1378750	1258750	11.49	90000	1056000	966000	11.73
4	Rice	Nutrient manageme	2	37.425	35.8	4.34	36.35	38.5	Rice yield - 37.42 q/ha	Rice yield - 36.35 q/ha	68000	149700	81700	2.20	66000	143200	77200	

		nt																
5	**Broom grass**	**Secondary forestry diversification (Bamboo/broom grass)**	**2.0**	**52.5**	**50.01**	**12.3 %**	**55**	**50**	**49.95**	**48.90**	**35000**	**66000**	**31000**	**1.88 :1**	**31000**	**62000**	**29000**	**1.30: 1**

***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	12.11.18 15.11.18		34	34	
2	Farmers Training	3	11.5.18 13.6.18 10.9.18		63	63	

3	Media coverage						
4	Training for extension functionaries	2	15.5.18 12.6.18		23	23	
5	Any other (Pl. specify)						
	Total	**7**			**120**	**120**	

e. Details of FLD on Enterprises

(i) Farm Implements

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

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

(ii) Livestock Enterprises

Sl. No.	**Enterprise/ Catego**	**The matic**	**Name of Tech**	**No. of farm**	**No. of**	**No. of animals, poultry**	**Major Performance parameters /**	**% change in**	**Other parameters (if any)**	**Econ. of demo. (Rs./Ha.)**	**Econ. of check (Rs./Ha.)**	**Remarks**

	ry (e.g., Dairy, Poultry etc.)	area	nology	ers	units	birds etc.	indicators		the parameter	Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
							Demo	Check												
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	5760	9600	1.2	36000	43200	7200	1.2	Farmers are willing to grow the variety for the next season
2	Poultry	Dual purpose layer: Rainbow Rooster	Dept of AH&Vety, Mizoram, Aizawl 2016	10	1	10 per farmer	Body weight gain in 60 days Egg production Feed analysis for protein, calcium & supplementing with dietary zinc (60mg/kg of feed during	Body weight gain in 60 days Egg production Feed analysis for protein, calcium & zinc	1.48 4.0 4-12% 3.8-4.1% 16-24%			8000	10240	2240	1.28	7680	9040	1360	1.17	The farmers are willing to rear layer/dual purpose poultry birds.

							laying period)												

**** 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**	
1	Paddy cum fish culture	Pond Management	Rice-Fish farming in rain water harvested tank under mid hill	8	8	3000-4000/ha	Average 500gm/ fish /4 months	Average 400/fish/4 months	20%			20,000	35000	15,000	1.75	20,000	30,950	10,950	1.54	Farmers are interested

			condition																
2	IMC & EMC	Feeding Management	Food and feeding management of Major carps (IMC & EMC) to increase fish production.	10	10	7000-9000/ha	800gm in 10 months	680gm in 10 months	15%			30,000	57,120	27,120	1.9	30,000	45,560	15,560	1.51	Farmers are interested and would like to continue.

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

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

(iv)Other enterprises

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

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

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

(v) Farm Implements and Machinery

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

f. Performance of FLD on Crop Hybrids

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

H-Highest recorded yield, L- Lowest recorded yield

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

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

3.3. Achievements on Training during 2018-19

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 Trainings (Courses)			Participants																		
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		Grand Total
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	(x + y)
I. Crop Production																						
Weed Management																						

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

inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops																						
Off-season vegetables	1	-	1	-	-	-	-	-	-	10	-	9	-	19	-	10	-	9	-	19	-	19
Nursery raising	1	-	1	-	-	-	-	-	-	10	-	9	-	19	-	10	-	9	-	19	-	19
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net	1	-	1	-	-	-	-	-	-	30	-	12	-	42	-	30	-	12	-	42	-	42

etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit	1	-	1	-	-	-	-	-	-	10	-	9	-	19	-	10	-	9	-	19	-	19
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						

c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology																						
Processing and value addition																						
e) Tuber crops																						
Production and Managemen																						

t technology																						
Processing and value addition																						
f) Spices																						
Production and Managemen t technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery managemen t																						
Production and managemen t technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility managemen																						

t																						
Soil and Water Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs	1	-	1	-	-	-	-	-	-	25	-	2	-	27	-	25	-	2	-	27	-	27
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing	2	-	2	-	-	-	-	-	-	29	-	20	-	49	-	29	-	20	-	29	-	49
IV Livestock Production and Management																						

Dairy Management																						
Poultry Management																						
Piggery Management	4	-	4	-	-	-	-	-	-	60	-	40	-	100	-	60	-	40	-	100	-	100
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																					
Design and development of low/minimum cost diet																					
Designing and development for high nutrient efficiency diet																					
Minimization of nutrient loss in processing																					
Gender mainstreaming through SHGs																					
Storage loss minimization techniques																					
Value addition																					

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

tools and implements																						
Repair and maintenance of farm machinery and implements																						
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management																						
Integrated Disease Management																						
Bio-control of pests and diseases																						
Production																						

of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming	1	-	1	-	-	-	-	-	-	15	-	4	-	19	-	15	-	4	-	19	-	19
Carp breeding and hatchery management	3	-	3	-	-	-	-	-	-	80	-	41	-	121	-	80	-	41	-	121	-	121
Carp fry and fingerling rearing																						
Composite fish culture	1	-	1	-	-	-	-	-	-	20	-	6	-	26	-	20	-	6	-	26	-	26
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	-	-	-	-	-	-	20	-	12	-	32	-	20	-	12	-	32	-	32

Nursery management																						
Integrated Farming Systems	1	-	1	-	-	-	-	-	-	15	-	15	-	30	-	15	-	15	-	30	-	30
TOTAL	12	-	12	-	-	-	-	-	-	249	-	124	-	373	-	249	-	124	-	373	-	373

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

Thematic area	**No. of Trainings (Courses)**			**Participants**																		**Grand Total**
				General						**SC/ST**						**Total**						
	Off	**Sp Off***	**Total**	**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		
				Off	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologie																						

s																						
Cropping Systems																						
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production																						
Nursery management																						
Integrated Crop Management																						
Fodder production																						
Production of organic inputs																						
II. Horticulture																						

a) Vegetable Crops																						
Production of low volume and high value crops																						
Off-season vegetables	1	-	1	-	-	-	-	-	-	15	-	15	-	30	-	15	-	15	-	30	-	30
Nursery raising	1	-	1	-	-	-	-	-	-	20	-	10	-	30	-	20	-	10	-	30	-	30
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	1	-	1	-	-	-	-	-	-	15	-	15	-	30	-	15	-	15	-	30	-	30
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques	1	-	1	-	-	-	-	-	-	18	-	14	-	32	-	18	-	14	-	32	-	32
c) Ornamental Plants																						
Nursery Managemen																						

t																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology																						
Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						

Processing and value addition																						
f) Spices																						
Production and Management technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management	2	-	2	-	-	-	-	-	-	68	-	52	-	120	-	68	-	52	-	120	-	120

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	1	-	1	-	-	-	-	-	-	10	-	8	-	18	-	10	-	8	-	18	-	18
IV Livestock Production and Management																						

Dairy Management																						
Poultry Management	6	-	6	-	-	-	-	-	-	115	-	64	-	179	-	115	-	64	-	179	-	179
Piggery Management	1	-	1	-	-	-	-	-	-	22	-	2	-	24	-	22	-	2	-	24	-	24
Rabbit Management																						
Disease Management	1	-	1	-	-	-	-	-	-	25	-	5	-	30	-	25	-	5	-	30	-	30
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening																						

and nutrition gardening																					
Design and development of low/minimum cost diet																					
Designing and development for high nutrient efficiency diet																					
Minimization of nutrient loss in processing																					
Gender mainstreaming through SHGs																					
Storage loss minimization techniques																					
Value addition																					

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																					
Integrated Disease Management																					
Bio-control of pests and diseases																					

Production of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming	2	-	2	-	-	-	-	-	-	50	-	12	-	62	-	50	-	12	-	62	-	62
Carp breeding and hatchery management	3	-	3	-	-	-	-	-	-	50	-	38	-	88	-	50	-	38	-	88	-	88
Carp fry and fingerling rearing	1	-	1	-	-	-	-	-	-	5	-	-	-	5	-	5	-	-	-	5	-	5
Composite fish culture	1	-	1	-	-	-	-	-	-	16	-	10	-	26	-	16	-	10	-	26	-	26
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	2	-	2	-	-	-	-	-	-	33	-	27	-	60	-	33	-	27	-	60	-	60

s																						
Nursery management	2	-	2	-	-	-	-	-	-	62	-	47	-	109	-	62	-	47	-	109	-	109
Integrated Farming Systems	6	-	6	-	-	-	-	-	-	106	-	71	-	177	-	106	-	71	-	177	-	177
-TOTAL	32	-	32	-	-	-	-	-	-	630	-	390	-	1020	-	630	-	390	-	1020	-	1020

(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 Trainings (Courses)**			**Participants**																		**Grand Total (x + y)**
				General						**SC/ST**						**Total**						
				Male		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		
	On (1)	**Sp On* (2)**	**Total (1+2)**	**On (4)**	**Sp. On (5)**	**On (6)**	**Sp. On (7)**	**On (a=4+6)**	**Sp. On (b=5+7)**	**On (8)**	**Sp. On (9)**	**On (10)**	**Sp. On (11)**	**On (c=8+10)**	**Sp. On (d=9+11)**	**On (4+8)**	**Sp. On (5+9)**	**On (6+10)**	**Sp. On (7+11)**	**On (x=a+c)**	**Sp. On (y=b+d)**	
Mushroom Production		3	3	-	-	-	-	-	-	12	-	40	-	52	-	12	-	40	-	52	-	52
Bee-																						

keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops	1	-	1	-	-	-	-	-	-	15	-	10	-	25	-	15	-	10	-	25	-	25
Commercial fruit production	1	-	1	-	-	-	-	-	-	11	-	9	-	20	-	11	-	9	-	20	-	20
Repair and maintenance of farm machinery																						

and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery	1	-	1	-	-	-	-	-	-	21	-	0	-	21	-	21	-	0	-	21	-	21
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	3	3	6	-	-	-	-	-	-	59	-	59	-	118	-	59	-	59	-	118	-	118

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

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

Thematic area	**No. of Trainings (Courses)**			**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																						
Bee-keeping																						
Integrated farming																						
Seed																						

production																						
Production of organic inputs																						
Integrated Farming	2	-	2	-	-	-	-	-	-	18	-	32	-	50	-	18	-	32	-	50	-	50
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops	1	-	1	-	-	-	-	-	-	18	-	2	-	20	-	18	-	2	-	20	-	20
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	3	-	3	-	-	-	-	-	-	36	-	34	-	70	-	36	-	34	-	70	-	70	
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 Trainings (Courses)**			**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)**	
Productivity enhancement in field crops	2	-	2	-	-	-	-	-	-	24	-	15	-	39	-	24	-	15	-	39	-	39	
Integrated Pest Management																							

Integrated Nutrient management																						
Rejuvenation of old orchards	1	-	1	-	-	-	-	-	-	10	-	9	-	19	-	10	-	9	-	19	-	19
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	1	-	1	-	-	-	-	-	-	15	-	10	-	25	-	15	-	10	-	25	-	25

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 mainstreami																					

ng through SHGs																					

3.3.6. Achievements on Training of Extension Personnel in Off Campus including Sponsored Off Campus Training Programmes

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

Thematic area	**No. of Trainings (Courses)**			**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***	
Productivity enhancement in field crops		1	1	-	-	-	-	-	-	-	1350	-	1275	-	2625	-	1350	-	1275	-	2625	2625
Integrated Pest Management																						
Integrated Nutrient management		1	1	-	-	-	-	-	-	-	1350	-	1275	-	2625	-	1350	-	1275	-	2625	2625
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		1	1	-	-	-	-	-	-	-	1350	-	1275	-	2625	-	1350	-	1275	-	2625	2625
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
TOTAL		3	3	-	-	-	-	-	-	-	1350	-	1275	-	7875	-	4050	-	3825	-	7875	7875

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

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

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
Plant Protection	Mushroom	Mushroom cultivation	11th - 16th Feb, 2019	6	KVK	Farmer	-	-	-	4	18	22	4	18	22
Plant Protection	Mushroom	Mushroom cultication	18th – 22nd , 2019	5	KVK	ROWE	-	-	-	10	12	22	10	12	22
Horticulture	Agro-textile	Agro-textile	30th may, 2018	1	KVK	Extention personnel	-	-	-	10	9	9	10	9	19
Horticulture	Dragon fruit	Post Harvest Management of Dragon Fruit	16th August, 2018	1	KVK	Farmer	-	-	-	10	9	19	10	9	19
Agro-Forestry	Rabi crops	Training on rabi crops	5th December, 2018	1	KVK	Farmer	-	-	-	20	5	25	20	5	25
Animal Science	Piggery	Pig rearing	8th December, 2018	1	KVK	Farmer	-	-	-	25	5	30	25	5	30

Agro-forestry	Arecanut	Arecanut plantation	12th February, 2019	1	KVK	Farmer	-	-	-	15	10	25	15	10	25
Plant protection	Mushroom	Mushroom cultivation	11th-16th Febuary, 2019	6	KVK	Rural Youth	-	-	-	4	18	22	4	18	22
Soil Science	Vermicompost	Vermicomposting	8th -13th September, 2018	6	KVK	Rural Youth	-	-	-	1	14	15	1	14	15
Animal Science	Poultry	Poultry rearing	15th-20th April, 2019	6	KVK	Farmer	-	-	-	10	12	22	10	12	22
Plant protection	Mushroom	Mushroom cultivation	22nd-26th April, 2019	6	KVK	Rural Youth	-	-	-	10	12	22	10	12	22
Soil Science	Vermicompost	Vermicomposting	15th-20th April, 2019	6	KVK	Farmer	-	-	-	10	12	22	10	12	22
Plant Protection	IPM	Training on safety use and handling on agriculture chemicals	19th October, 2018	1	KVK	Farmer	-	-	-	18	12	30	18	12	30
Fisheries	IFS	IntegratedFarming System	30th May, 2018	1	KVK	Farmer	-	-	-	22	8	30	22	8	30

Animal Science	Piggery	Pig rearing	22nd September, 2018	1	KVK	Farmer	-	-	-	28	2	30	28	2	30
Animal Science	Poultry	Poultry Farming	25th September, 2018	1	KVK	Rural youth	-	-	-	15	15	30	15	15	30

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**
Plant Protection	Bawngva Bungthuam Rawpuichhip Rengdil Lengpui Reiek Phuldungsei Tuidam Tuipuibari Kawrt	Mushroom cultivation	4th June to 15th August, 2018	About 60 days	Bawngva Bungthuam Rawpuichhip Rengdil Lengpui Reiek Phuldungsei Tuidam Tuipuibari Kawrt	Farmers	-	-	-	650	600	1250	650	600	1250

	ethawveng Marpara North Damparengpui Kawrthah Lengte Nghalchawm				ethawveng Marpara North Damparengpui Kawrthah Lengte Nghalchawm										
Home Science	Bawngva Bungthuam Rawpuichhip Rengdil Lengpui Reiek Phuldungsei Tuidam Tuipuibari	Kitchen Gardening	4th June to 15th August, 2018	About 60 days	Bawngva Bungthuam Rawpuichhip Rengdil Lengpui Reiek Phuldungsei Tuidam Tuipuibari	Farmers	-	-	-	650	600	1250	650	600	1250

	Kawrtethawveng Marpara North Damparengpui Kawrthah Lengte Nghalchawm				Kawrtethawveng Marpara North Damparengpui Kawrthah Lengte Nghalchawm										
Animal Science	Bawngva Bungthuam Rawpuichhip Rengdil Lengpui Reiek Phuldungsei Tuidam Tuipuibari	Modern Bee culture	4th June to 15th August, 2018	About 60 days	Bawngva Bungthuam Rawpuichhip Rengdil Lengpui Reiek Phuldungsei Tuidam Tuipuibari	Farmers	-	-	-	650	600	1250	650	600	1250

	Kawrtethawveng Marpara North Damparengpui Kawrthah Lengte Nghalchawm				Kawrtethawveng Marpara North Damparengpui Kawrthah Lengte Nghalchawm										
Plant Protection	Chuhvel Damdiai Hriphaw Kanhmun Kawnmawi Khawhnai Lallen Luimawi N. Kangh	Mushroom cultivation	1st January -31st January	31 days	Chuhvel Damdiai Hriphaw Kanhmun Kawnmawi Khawhnai Lallen Luimawi N. Kangh	Farmers	-	-	-	700	675	1375	675	600	1375

	mun Nalzawl Pukzing Rajivnagar Rulpuihlim Saikhawthlir Sihthiang Silsuri Suarhliap Teirei Forest Thinghlun Tuirum Tumpanglui Zamuang				mun Nalzawl Pukzing Rajivnagar Rulpuihlim Saikhawthlir Sihthiang Silsuri Suarhliap Teirei Forest Thinghlun Tuirum Tumpanglui Zamuang										
Home Science	Chuhvel Damdiai Hriphaw Kanhm	Kitchen Gardening	1st January -31st January	31 days	Chuhvel Damdiai Hriphaw Kanhm	Farmers	-	-	-	700	675	1375	675	600	1375

	un Kawn mawi Khawh nai Lallen Luima wi N. Kangh mun Nalza wl Pukzin g Rajivn agar Rulpui hlim Saikha wthlir Sihthia ng Silsuri Suarhli ap Teirei Forest Thingh lun Tuiru m Tumpa nglui				un Kawn mawi Khawh nai Lallen Luima wi N. Kangh mun Nalza wl Pukzin g Rajivn agar Rulpui hlim Saikha wthlir Sihthia ng Silsuri Suarhli ap Teirei Forest Thingh lun Tuiru m Tumpa nglui									

	Zamuang				Zamuang										
Animal Science	Chuhvel Damdiai Hriphaw Kanhmun Kawnmawi Khawhnai Lallen Luimawi N. Kanghmun Nalzawl Pukzing Rajivnagar Rulpuihlim Saikhawthlir Sihthiang Silsuri	Modern Bee keeping	1st January -31st January	31 days	Chuhvel Damdiai Hriphaw Kanhmun Kawnmawi Khawhnai Lallen Luimawi N. Kanghmun Nalzawl Pukzing Rajivnagar Rulpuihlim Saikhawthlir Sihthiang Silsuri	Farmers	-	-	-	700	675	1375	675	600	1375

	Suarhliap Teirei Forest Thinghlun Tuirum Tumpanglui Zamuang				Suarhliap Teirei Forest Thinghlun Tuirum Tumpanglui Zamuang										
Agro-forestry	Dialdawk	Broom cultivation	18th August, 2018	1 day	Dialdawk	Farmer	-	-	-	17	13	30	17	13	30
Fisheries	Lengpui	Integrated Farming System	17th December, 2018	1 day	Lengpui	Farmer	-	-	-	20	10	30	20	10	30
Plant protection	Lengpui	Integrated pest management in vegetable crops	21st Februay, 2019	1 day	Lengpui	Farmer	-	-	-	12	18	30	12	18	30
Agro-forestry	Rulpuihlim	Broom cultivation	13th Februay, 2019	1 day	Rulpuihlim	Farmer	-	-	-	15	10	25	15	10	25
Agro-forestry	Dialdawk	Arecanut cultivation	22nd July,	1 day	Dialdawk	Farmer	-	-	-	16	14	30	16	14	30

			2018													
Horticulture	Dialdawk	Fruit crop propagation	4th July, 2018	1day	Dialdawk	Farmer	-	-	-	8	22	30	8	22	30
Fisheries	Lengpui	Demonstration of carp hatchery	5th July, 2018	1 day	Lengpui	Farmer	-	-	-	5	-	5	5	-	5
Agro-Forestry	Kawrthah	Arecanut and broom cultivation	8th July, 2018	1day	Kawrthah	Farmer	-	-	-	50	44	94	50	44	94
Fisheries	Dialdawk	IFS	12th August, 2018	1 day	Dialdawk	Farmer	-	-	-	12	13	25	12	13	25
Animal Science	Dialdawk	Piggery rearing	17th May, 2018	1day	Dialdawk	Farmer	-	-	-	58	22	80	58	22	80
Agro-Forestry	Dialdawk & W.Phaileng	Arecanut and broom cultivation	8th-9th May, 2018	2days	Dialdawk & W.Phaileng	Farmer	-	-	-	54	40	94	54	40	94
Fisheries	Zawlnuam	IFS	2nd May, 2018	1 day	Zawlnuam	Farmer	-	-	-	88	33	121	88	33	121
Agro-Forestry	Lengte	Rabi crop cultivation	9th November, 2018	1day	Lengte	Rural youth	-	-	-	10	5	15	10	5	15
Horticulture	Lengte	Post Harvest	14th Novemb	1 day	Lengte	Farmer	-	-	-	17	5	22	17	5	22

		management	er,2018													
Fisheries	Reiek	Pond Management	9th November, 2018	1day	Reiek	Farmer	-	-	-	32	30	62	32	30	62
Agro-Forestry	Lengte	Raised and sunken bed	12th September, 2018	1Day	Lengte	Farmer	-	-	-	18	12	30	18	12	30
Agro-Forestry	Dialdiak	Raised and sunken bed	15th September, 2018	1Day	Dialdawk	Rural youth	-	-	-	12	13	25	12	13	25
Fisheries	Dialdawk	Water Quality Management	22nd September, 2018	1day	Dialdawk	Rural youth	-	-	-	20	6	26	20	6	26
Animal Science	Lengpui	Poultry and piggery Rearing	22nd – 25th January, 2019	4days	Lengpui	Farmer	-	-	-	200	160	360	200	160	360

(D) Vocational training programmes for Rural Youth

Crop /	Date	Dura	Area of	Training	No. of Participants	Impact of training in terms of Self	Whether

Enterprise	(From – To)	tion (days	training	title*	General			SC/ST			Total			employment after training				Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					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	
Piggery	12-16 November. 2018	220hours + 10 days practical	Pig rearing		-	-	-	30	-	30	30	-	30					IGNOU
Poultry	23-28 September, 2018	220 hours + 10 days practi	Poultry rearing		-	-	-	36	-	36	36	-	36					IGNOU

		cal																

*training title should specify the major technology /skill transferred

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

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

Off	Farmer	4th June to 15th August, 2018	60 days	Plant protection,	Bawngva Bungthuam Rawpuichhip Rengdil Lengpui Reiek Phuldungsei Tuidam Tuipuibari Kawrtethawveng Marpara North Damparengpui Kawrthah Lengte Nghalchawm	Mushroom cultivation,	-	-	-	650	600	1250	650	600	1250	KKA Phase-I	1.2 lakhs

Off	Farmer	4th June to 15th August, 2018	60 days	Home Science,	Bawngva Bungthuam Rawpuichhip Rengdil Lengpui Reiek Phuldungsei Tuidam Tuipuibari Kawrtethawveng Marpara North Damparengpui Kawrthah Lengte Nghalchawm	Kitchen Gardening,	-	-	-	650	600	1250	650	600	1250		

Off	Farmer	4th June to 15th August, 2018	60 days	Animal Science	Bawngva Bungthuam Rawpuichhip Rengdil Lengpui Reiek Phuldungsei Tuidam Tuipuibari Kawrtethawveng Marpara North Damparengpui Kawrthah Lengte Nghalchawm	Modern bee culture	-	-	-	650	600	1250	650	600	1250		

OFF	Farmers	1st January – 31st January, 2019	31 days	Plant protection,	Chuhvel Damdiai Hriphaw Kanhmun Kawnmawi Khawhnai Lallen Luimawi N. Kanghmun Nalzawl Pukzing Rajivnagar Rulpuihlim Saikhawthlir Sihthiang Silsuri Suarhliap Teirei Forest Thinghlun Tuirum Tumpanglui Zamuang	Mushroom cultivation,	-	-	-	700	675	1375	675	600	1375	KKA Phase-II	1.2 lakhs

OFF	Farmers	1st January – 31st January, 2019	31 days	Home Science,	Chuhvel Damdiai Hriphaw Kanhmun Kawnmawi Khawhnai Lallen Luimawi N. Kanghmun Nalzawl Pukzing Rajivnagar Rulpuihlim Saikhawthlir Sihthiang Silsuri Suarhliap Teirei Forest Thinghlun Tuirum Tumpanglui Zamuang	Kitchen Gardening,	-	-	-	700	675	1375	675	600	1375		

OFF	Farmers	1st January – 31st January, 2019	31 days	Animal Science	Chuhvel Damdiai Hriphaw Kanhmun Kawnmawi Khawhnai Lallen Luimawi N. Kanghmun Nalzawl Pukzing Rajivnagar Rulpuihlim Saikhawthlir Sihthiang Silsuri Suarhliap Teirei Forest Thinghlun Tuirum Tumpanglui Zamuang	Modern bee culture	-	-	-	700	675	1375	675	600	1375		

OFF	Farmers	25th - 30th March, 2019	5 days	Plant Protection	Lengpui, Chungtlang, W.Lungdar, Tuahzawl, Rulpuihlim	On the spot field visit and training on integrated pest management	-	-	-	62	98	160	62	98	160	NICPM	1.5 lakhs
ON	Farmers	11th - 16th Febuary, 2019	6 days	Plant Protection	KVK	Mushroom cultivation	-	-	-	4	18	22	4	18	22	ASCI	1.8 lakhs
ON	Farmers	8th – 13th September, 2018	6 days	Soil Science	KVK	Vermicomposting	-	-	-	1	14	15	1	14	15	MANAGE	0.42 lakhs
ON	Farmers	15th - 20th April, 2019	6 Days	Animal Science	KVK	Pig rearing	-	-	-	10	12	22	10	12	22	MANAGE	0.42 lakhs
ON	Farmers	22nd - 26th April, 2019	6 Days	Plant Protection	KVK	Mushroom Cultivation	-	-	-	10	12	22	10	12	22	MANAGE	0.42 lakhs
ON	Farmers	15th - 20th April, 2019	6 Days	Soil Science	KVK	Vermicomposting	-	-	-	10	12	22	10	12	22	MANAGE	0.42 lakhs

Total							**-**	**-**	**-**	**41 47**	**39 81**	**81 38**	**41 47**	**39 81**	**81 38**		**7.38 lakhs**

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 2018-19

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 ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2018-19	1307				825	482	1307				825	482	1307
2.	Diagnostic visit	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2018-19	455				336	142	478				336	142	**478**

3.	Field day	Rice, Protected cultivation	2018-19	2				30	15	45	3	2	5	33	17	**50**
4.	Group Discussion	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2018-19	268				2120	702	2822				2120	702	**2822**
5.	Kishan Gosthi									0				0	0	**0**
	Kishan Mela	Doubling farmers income	2018-19	1				321	124	445				321	124	**445**
6.	Film show	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2018-19	35				398	227	625				398	227	**625**
7.	SHG formation									0				0	0	**0**
8.	Exhibition		2018-19	4				530	268	798				530	268	**798**

9.	Scientists visit to farmers fields	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2018-19	123				200	97	297				200	97	**297**
10.	Plant/ Animal Health camp									0				0	0	**0**
11.	Farm science club									0				0	0	**0**
12.	Ex-trainee Sammelan									0				0	0	**0**
13.	Farmers seminar/ workshop									0				0	0	**0**
14.	Method demonstration	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2018-19	55				484	237	721				484	237	**721**
15.	Celebration of important days									0				0	0	**0**

16.	Exposure visits									0				0	0	**0**
17.	Electronic media (CD/DVD)									0				0	0	**0**
18.	Extension literature	Horticulture, Agro forestry, Fishery, Animal Science, Home Science	2018-19	10				2654	852	3506				2654	852	**3506**
19.	Newspaper coverage									0				0	0	**0**
20.	Popular articles	Technologies intervention for doubling farmer	2018-19	1						0				0	0	**0**
21.	Radio talk									0				0	0	**0**
22.	TV talk									0				0	0	**0**
23.	Training manual									0				0	0	**0**
24.	Soil health camp									0				0	0	**0**
25.	Awareness camp									0				0	0	**0**
26.	Lecture delivered as resource person	Horticulture, Agro forestry, Fishery, Animal	2018-19	19				247	135	382				247	135	**382**

		Science, Home Science														
27.	PRA	Village development	2018-19	3				73	42	125				73	42	125
28.	Farmer-Scientist interaction	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2018-19	14				380	191	571				380	191	**571**
29.	Soil test campaign									0				0	0	**0**
30.	Mahila Mandal Convener meet									0				0	0	**0**
31.	Any other (Please specify)									0				0	0	**0**
32.										0				**0**	0	**0**
Grand Total					**2294**	**0**	**0**	**0**	**8525**	**3472**	**11997**	**3**	**2**	**5**	**8528**	**3474**

3.5 Production and supply of Technological products during 2018-19

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS							
OILSEEDS							
PULSES	Soya bean	JS335	2960	Distributed under KKA		370	370
VEGETABLES	Okra	Arka Anamika	1.35	10800		36	36
FLOWER CROPS							

OTHERS (Specify)							

A1. SUMMARY of Production and supply of Seed Materials during 2018-19

Sl. No.	Major group/class	Quantity (q) produced	Quantity (q) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries		
					General	SC/ST	Total
1	CEREALS						
2	OILSEEDS						
3	PULSES	-	29.6	Distributed under KKA		370	370
4	VEGETABLES		1.35	10800		87	87
5	FLOWER CROPS						
6	OTHERS						
TOTAL							

B. Production and supply of Planting Materials (Nos. in No.) during 2018-19

Major group/class	Crop	Variety	Quantity (In No.) produced	Quantity (In No.) suppliedced	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries		
						General	SC/ST	Total
Fruits	Papaya	Surya, Pusa Nanha, Local	2340	2340	Distributed free of cost	-	30	30
Spices								
Ornamental Plants								
VEGETABLES	**Cabbage**	KGM-1, Golden Acre	10000	10000	Distributed free of cost		**87**	**87**
	Tomato	Arka Rakshak	10000	10000	Distributed free of cost			
	Broccoli	Kendi	5000	5000	Distributed free of cost			
	Brinjal	Muktakeshi. Arka Keshav	5000	5000	Distributed free of cost			
	Chilli	Soldier	3000	3000	Distributed free of cost			

	Capsicum	Arka Mohani	2000	2000	Distributed free of cost			
Forest Spp.								
Plantation crops	Arecanut	Mangala	1000	1000	Distributed free of cost		15	15
	Neem		1000	1000	Distributed free of cost		15	15
	Tree bean	Tahlim Local	500	500	Distributed free of cost		20	20
	Cotton seedling	Upland cotton local	500	500	Distributed free of cost		10	10
	Accacia pinnata,	-	300	300	Distributed free of cost		10	10
Medicinal plants								
OTHERS (Pl. Specify)								

C. Production of Bio-Products during 2018-19

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**	**-**		**12**	**12000**		**15**	**15**
2								
3								
4								
BIO PESTICIDES								
1								
2								
3								
4								

D. Production of livestock during 2018-19

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**	**Yorkshire**	**4**	**56**			**4**	
4	**Poultry**	**Rhode island Red**	**60**				**6**	
5	**Fisheries**							
6	**Duckery**	**khaki campbell**	**90**				**9**	
	Total		**154**				**19**	

3.6. Literature Developed/Published (with full title, author & reference) during 2018-19

(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.	"Vegetable production: A survey based study in Mamit district" *International Journal of Agriculture Sciences*, 10 (10), 6015-6017	ROHIT SHUKLA, MD MINTUL ALI, VANLALHRUAIA, HENRY SAPLALRINLIANA		
2.				
3.				
Training manuals				
Technical Report				
1.				
2.				
3.				
Book/ Book Chapter				
Popular articles				
Technical bulletins				
Extension bulletins				
Newsletter				
Conference/ workshop	**Technological Intervention for Doubling**	R. Shukla, H. Saplalrinliana, C.		

proceedings	**Farmers' Income in Mamit District, Mizoram** Souvenior Krishi Unnati Mela " Rural livelihood improvement options for tribal farmers in Mizoram" at ICAR RC NEH Region, Mizoram Centre, Kolasib, during 28th and 29th January, 2019	Rinawma, R. Lalmuanpuii and R. Pachuau		
Leaflets/folders	Cultivation & Management of Areca nut Package & practices of broom grass cultivation & its management Cultivation & its management of Tree bean Mushroom Cultivation Cultivation & its management of bird's eye chilli Kitchen Gardening Integrated farming System Breeding of common carp Protected cultivation of vegetable crops Papaya cultivation	Dr. Rebecca Lalmuanpuii Dr. Rebecca Lalmuanpuii Dr. Rebecca Lalmuanpuii Dr. Rebecca Lalmuanpuii Dr. Rebecca Lalmuanpuii Dr. Rebecca Lalmuanpuii Rualthantluanga Pachuau Rualthantluanga Pachuau Dr. Rohit Shukla & K, Zohmingliani Dr. Rohit Shukla & K, Zohmingliani	400 400 400 400 400 400 400 400 400	360 342 332 328 389 382 344 315 321 392
e-publications				
Any other (Pl. specify)				
TOTAL	**12**		**4000**	**3505**

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
- Rural Youth
- Extension personnel

3.11 Field activities

i. Number of villages adopted

ii. No. of farm families selected

iii. No. of survey/PRA conducted

3.12. Activities of Soil and Water Testing

Status of establishment of Lab :

1. Year of establishment :

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 Scientific	1	NA
14	Water Distillation unit		Borosil	4	NA
15	Deep freezers		LG, Empro	3	NA
Total					

3. Details of samples analyzed (2018-19) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	942	1081	22	NIL
Water Samples	31	31	4	NIL
Plant Samples	-	-	-	-
Petiole Samples	-	-	-	-
Total	**973**	**1112**	**26**	**NIL**

4. Details of Soil Health Cards (SHCs) (2018-19)

5. No. of SHCs prepared: 1081

6. **No. of farmers to whom SHCs were distributed: 1081**
7. **Name of the Major and Minor nutrients analysed: SOC, N, P, K**
8. **No. of villages covered: 22**

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	1478	1478	963	963					1663	1663			4104	4104
Voice only	498	498	428	428					346	346			1272	1272
Voice and Text both														
Total	1976	1976	1391	1391	0	0	0	0	2009	2009	0	0	5376	5376

3.14 Contingency planning for 2018-19

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	**10 ha**		**50**	**50**

	e.g. **PAC-740**				
	Introduction of Resource Conservation Technologies	**50ha**		**100**	**100**
	a. Water harvesting etc	**15 ha**		**50**	**50**
	b. Micro irrigation / pipes	**15 ha**		**50**	**50**
	Distribution of seeds and planting materials	**50ha**		**100**	**100**
	Rice CAUR-1/Soybean/ Vegetable	**50ha**		**100**	**100**
	Maize T**-4**	**20 ha**		**50**	**50**
	Any other (Please specify)				
	Custom hiring of farm equipments	**50ha**		**100**	**100**
	Community nursery raising for rice	**50 ha**		**100**	**100**

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	**Number of birds/ animals to be 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 2018-19

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 2018-19

Name of the scheme/ special programme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Gram Swaraj Abhiyan Kisan Kalyan Karyashala "Doubling Farmers' Income by 2022"	**Awareness & training**	**2nd May, 2018**	**Organized by ATMA,**	**-**
Krishi Kalyan Abhiyan Phase I& II		**June-August 2018**		

World Environment Day		**5.6.2018**		

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

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

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2018-19

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	2calves,1 milking cow
2.	Poultry	2010	0.002	Rhode island Red	Eggs & Chicks	-	-	-	Ongoing
3.	Vermi composting	2010	0.002	*Eisenia fetida*	Vermi compost	12 q.	8600	10800	ongoing

6.2 Performance of instructional farm (Crops) including seed production during 2018-19

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	11.6.2018	8.11.2018	0.5	CAU-R1, Gomati	seeds	6 q		9000	
Wheat									
Maize	23.6.2018	03.10.2018	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	**12.6.18**	**ongoing**	**0.2**	**Kew**	**Fruits & suckers**	**-**	Pineapple		**ongoing**
ii.	Dragonfruit	**14.7.18**	**ongoing**	**0.2**	**Red flesh**	**cuttings**				
Vegetables										
i.	**Okra**	**22.5.18**	**30.8.18**	**0.05**	**, ArkaAnamika**	**Fruit & Seed**	**2q & 0.2q seeds**		**5000**	Distributed to 20 farmers
ii.	**Cow pea**	**24.5.18**	**14.9.18**	**0.05**	**Kashi Kanchan**	**Fruit**	**1.5 q**		**4000**	Distributed to 30 farmers

iii.	Garden pea	17.10.18	18.1.19	0.05	ArkaApoorva, ArkaSampoorna	Pod and seed	1q &Seed 0.2q		5000	Distributed to 30 farmers
iv.	**French bean**	15.10.18	22.1.19	0.05	ArkaKomal, ArkaAnoop	Pod and seed	1q & Seed 0.2q		4500	Distributed to 30 farmers
v.	**Tomato**	8.10.18	22.2.18	0.06	Arka Rakshak	Fruit	2q		4000	Distributed to 30 farmers
vi.	**Brinjal**	14.6.18	22.10.18	0.02	Pusa Anpuma	Fruit	0.5q		1000	Distributed to 20 farmers
vii.	**Cabbage**	22.1118	21.2.19	0.02	Bahar	Head	1q		1000	Distributed to 30 farmers
viii.	**Capsicum**	5.9.18	18.2.19	0.001	Arka Mohini	Fruit	0.4q		1200	Distributed to 20 farmers
a.	**Others (specify)**									
i.										
ii.										

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) during 2018-19

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) during 2018-19

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Milk	1176 lts	24,000	34,800	2 calves,1 milking cow	Cross	Milk
2	Eggs & Chicks	-	-	-	Ongoing	Rhode island Red	Eggs & Chicks
3	Table fish	-	-	-	-	IMC & Exotic carp	Table fish

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structure during 2018-19

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

6.6. Utilization of hostel facilities (Month-Wise) during 2018-19

Accommodation available (No. of beds):

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

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	SBI	Lengpui	11821318372
With KVK			
Revolving Fund	SBI	Lengpui	30734028269

7.2 Utilization of funds under CFLD on Oilseeds and Pulses (Rs. In Lakhs) if applicable during 2018-19

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

7.3 Utilization of KVK funds during the year 2018-19

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	115.00	115.00	115.00
2	**Traveling allowances**	3.00	3.00	3.00
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	5.632	5.632	5.632
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees	11.868	11.868	11.868
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			
TOTAL (A)			**136.6**	**136.6**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**	.30	.30	.30
3	**Vehicle** (Four wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)			**.30**	**.30**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)			**136.90**	**136.90**

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 2016 to March 2017	1.94836	.61786	-	2.56622
April 2017 to March 2018	2.56622	.37918	-	2.94540
April 2018 to March 2019	2.94540	1.47588	.314	4.10728

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

(b) Financial

(c) Technical

(Signature)
Sr. Scientist cum Head