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
Krishi Vigyan Kendra, Rice Research Station Wangbal, Thoubal-795138	Office	FAX	kvkthoubal@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Department of Agriculture, Government of Manipur, Sanjenthong Imphal-795001.	-	-	amdmn@nic.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.S.Zeshmarani		8415902143	zeshma.sarangthem@gmail.com

1.4. Year of sanction:

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.S.Zeshmarani	Senior Scientist & Head	Animal Science	37400-67000	135300	28-02-18	Permanent	Gen
2	Subject Matter Specialist	Kh.Premlata Devi	SMS (Horticulture)	Horticulture	15600-39100	81200	12-4-07	-do-	SC
3	Subject Matter Specialist	N.Tomba Singh	SMS (Agronomy)	Agronomy	15600-39100	81200	25-7-07	Permanent	Gen
4	Subject Matter Specialist	Dr.M.Thoithoi Singh	SMS (Plant protection)	Plant protection	15600-39100	81200	25-7-07	-do-	-do-
5	Subject Matter Specialist	S.Sumangal Singh	SMS (Plant Breeding & Genetics)	PBG	15600-39100	81200	25-7-07	-do-	-do-
6	Subject Matter Specialist	R.K.Lembisana Devi	SMS (Home Sc.)	Home Science	15600-39100	59500	26-12-16	-do-	-do-
7	Subject Matter	Vacant							

	Specialist								
8	Programme Assistant	Vacant							
9	Computer Programmer	L.Babita Devi	Prog.Asst. (Computer)	Computer	15600-39100	57800	12-4-07	-do-	-do-
10	Farm Manager	Dr.W.Jiten Singh	Farm Manager		15600-39100	57800	12-4-07	-do-	OBC
11	Accountant / Superintendent	O.Shilhenba Singh	Accountant		9300-34800	37600	05-10-16	-do-	Gen
12	Stenographer	M.Geeta Devi	Jr.Steno cum Computer operator		5200-20,200	38100	12-4-07	-do-	-do-
13	Driver	M.Hemanta Singh	Driver cum Mechanic		5200	31000	12-4-07	-do	-do-
14	Driver	Th.Tiken Singh	-do-		5200	31000	03-5-07	-do	-do-
15	Supporting staff	E.Dhabali Singh	Peon cum Chowkidar		5200	23100	12-4-07	-do-	-do-
16	Supporting staff	Mangminthang Zou	-do-		5200	23100	12-4-07	-do-	ST
	Total	**14**							

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) : 10 ha

b. Total cultivable land with KVK (in ha): 7.5 ha

c. Total cultivated land (in ha): 5 ha

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	1
2.	Under Demonstration Units (pl. specify the name) i.Animal Sc. Demo Unit ii. Fish pond & integrated poultry fish unit iii.Vermiculture iv.Green house & shade net	 i) 1.5 ii) 1.5 iii) 0.1 iv) 0.2
3.	Under Crops (Cereals, pulses, oilseeds etc.) (Pl. specify separately) i.Paddy ii. Pea,Lentil,Chickpea iii.Rape seed and Mustard iv.Potato, Groundnut	 i) 3.5 ii) 0.4 iii) 0.4 iv) 0.3, 0.1
4.	Under vegetables (Pl. specify separately) i. Chilli ii. King Chilly iii. Brinjal iv. French bean	 0.2

	v. Cabbage	
5.	Orchard/Agro-forestry	0.5
6.	Others (specify)) Farm road,approach road,Wall fencing	0.95

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	2016	550(Ground floor)	76,33,000	Dec,2007	550(1st floor)	completed
2.	Farmers Hostel							
3.	Staff Quarters (5)	-do-	31-3-12		67.90	2-1-12		Completed
4.	Demonstration Units (2)	-do-	31-3-12		20.07	2-1-12		Completed
5	Fencing	-do-	31-3-12	215m	19.75	2-1-12		Completed

6	Any Other (Pl. specify)							

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero, Diesel jeep	MNO1K-8510	2006-07	5,08,657	259603	Bad
Tractor, complete set		2006-07	4,35,543	1933	Good

C) Equipments & AV Aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer with accessories(2nos.)	March 2010	75,000	Good
Fax	March,2010	25,000	Not working
Photo copier	March,2010	1,00,000	Not working
Digital Camera	March,2010	20,000	Not in working condition
LCD projector	March,2010	1,00,000	Not working
Portable carp hatchery	March,2010	2,25,000	Good
Computer with accessories(2nos.)	March,2016	2,00,000	Good
LCD Projector	March,2016	50,000	Good
Computer with accessories(1 no)	March,2019	32,000	Good

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

Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
27/01/2019	Y.Shyam Singh Jt.Director/ i/c Director Agriculture		A proposal has been put up for the construction of farmers'hostel but it has not yet been materialized. Numbering of slides were corrected as suggested to the best level. In case of Agronomy as suggested weed count would be done in spring maize in co-ordintion with SMS plant protection. In case of Horticulture problem identification has been correctly done . Regarding PBG, the action plan was reformed and two varieties are compared under zero tillage. It has been included. As suggested by the Commiittee the term SRI was replaced by line sowing/modified SRI . Coming to Animal Science, the source of technology has been mentioned. As suggested by Dr. Rashbehari Singh Dy Director Instruction It comparison between two breeds were done . Regarding Home Science identification of problem has been done properly. Regarding vocational training programme as by Dr. AK Singha suggested It has been taken
	Dr.AK Singha Principal Scientist, ZPD-VII	The SMSs were assured that the activities could done beyond the target i.e above 100%. It was suggested to put up a proposal for the construction of a farmers hostel to ATARI. In PP, it was suggested to record the severity of wilt carefully as the range was too high. Further it was suggested to include some parameters related to breeding.	
	Dr.S.Basanta Singh Director Instruction, CAU,Imphal	It was suggested to confirm the source of technology for jack fruit chip in Home Science Discipline. It was further suggested to take up some new sugarcane variety.	
	Dr.I Meghachandra Singh Jt.Director,ICAR,Imphal	It was suggested not to repeat the discipline while recruiting SMSs or Programme Assistant.. It was not to take up SRI as it is but to modify the methodology & take up. Further it was also suggested to check moisture % while recording yield. It was suggested to rectify the problem in Horticulture and not say "lack of variety".Further suggestion was made to check the variety of Jack fruit. In case of Agronomy regarding breeder seed that it could be procured through ICAR, Manipur if requested early. In case of PBG, it was suggested to change the clued variety from Norin-18 to RC-Maniphou-12 for OFT on WR-15-6-1.	
	Kh.Mohendra Singh, Project Coordinator (Manipur SFAC)		
	Ksh.Shyamjai Singh Jt.Director, Vety,Thoubal		

	AK Robert Singh,Inspector, Dist.Seri.Office,Thoubal		up in vermicomposting and mushroom cultivation by SMS, Plant Protection . In Horticulture, the identified problem was changed to low yield and long duration of existing varieties of . In case of Plant protection on the request of the concerned SMS the house permitted to take up a little old technology and was taken up. SMS PBG was allowed to repeat the OFT on Mustard var. DRMR 150-35 as the previous crops were damaged due to flood and it was repeated. It has been done. According to the suggestion it was done . Coming to Animal Science, the comparison was taken up between paddy straw and rice husks. In case of Home Science taste parameter has been included in Bori of chow chow. In another OFT methodology was included in value added product of. Contingency plan was submitted on time as was suggested by Dr. AK Singha.
	S.Bhimo Singh , Inspector, Dist.Fishery Office,Thoubal		
	S.Lemba Singh, District Agri.Officer, Thoubal		
	H.Ibomcha Singh, DO (H & SC), Thoubal		
	Th.Joyprakash, SAMETI, Thoubal		
	L.Amutombi Singh, Fishery Office, Thoubal		
	Dr.RK Imotomba Singh, Sr.Scientist & Head, KVK,Bishnupur	In case of Home Science, regarding chow chow bori, it was suggested to observe some work parameters eg keeping quality nutritional quality and also a comparative statement between normal bori & chow chow bori. In case of PP, it was suggested to incrase the parameters & to record in tabular form in order to enable for publication.	
	Dr.N.Jyotsana, Sr.Scientist & Head, KVK, Senapati		
	S.Monibala Devi, i/c Sr.Scientist & Head, KVK, Imphal East		
	AK Chitaranjan, Nodal Officer, Dept.of Agri.		
	Y. Megha Singh, Farmer Representative		
	M. Kunjo Singh, Farmer Representative		
	M. Ningthem Singh, Farmer Representative		
	M.Ibemcha Devi, Farmer Representative		
	M.Ibechoubi Leima, Farmer Representative		
	Th.Bineeta Devi, Yokhat Farmers Club		

		In case of Animal Science, regarding restricted feeding, it was suggested to test on the same breed. It was suggested to include the source of coloured broiler correctly. The OFT's proposed could be directly taken to FLD. Procurement rate of participatory rice seed should be as per ICAR norm. On the proposal of decomposition of paddy straw , the house appliciated the suggestion. It was also suggested to take care of in the next action plan.	

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

2. DETAILS OF DISTRICT

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

S. No	**Farming system/enterprise**
1.	Agriculture
2.	Agriculture-Horticulture
3.	Agriculture-Horticulture-Animal Husbandry
4.	Agriculture-Horticulture-Fishery
5.	Agriculture-Animal Husbandry-Fishery
6.	Agriculture-Fishery
7.	Fishery
8	Vety & A.H
9	Agriculture-vety & A.H

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

S. No	Agro-climatic Zone	Characteristics
1.	Sub tropical plain zone	The agro-climatic zone of the Thoubal dist. May be characterized by diverse soil type ranging from clay, clay loam, silty loam to peat and muck soil, high rainfall and high RH with distinct temperature variation between summer and winter, wide cultural diversity with different cropping pattern from fruits (pine apple, banana, mango), Vegetables (cauliflower, cabbage, brinjal, tomato), paddy, pulses and oil seeds, fish and farm animals. The district has the following topographical structures:- upland, medium land and low land and shallow lakes.

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Fine, Umbric Dystrochrepts Fine, Typic Haplo humults.	Deep, excessively drained fine soils moderately steep side slopes of hills having clayey surface with moderate erosion, associated with deep well drained fine soils on moderately sloping side slopes of hills with moderate erosion and slight stoniness.	3470
2.	Fine Typic, Haplo humults Fine, Loamy Umbric Dystrochrepts	Deep, well drained, fine soils on moderately sloping side slopes of hills having loamy surface with moderate erosion, associated with moderately deep, excessively drained fine loamy soils on moderately steep side slopes of hills with moderate erosion and slight stoniness.	14,320
3.	Fine, Typic Haplaquepts Fine Ruptic Ultic Dystrochrepts	Deep, poorly drained, fine soils on nearly level valleys having clayey surface with very slight erosion, ground water table between one to two meters of the surface and slight flooding, associated with deep well drained fine soils on gently sloping side slopes of hills with slight erosion.	6340
4.	Very fine, molic haplaquepts	Deep ,very poorly drained, very find soils on nearly valleys having clayey surface with very slight erosion ground water level between one meter of the surface and severe flooding associated with deep, poorly drained fine soils on very gently sloping valleys with slight erosion ground water table between one to two meters of the surface and slight flooding.	22,320
5.	Fine, Typic Hapludalfs, Fine Silty Tupic Haplumbrepts	Deep, somewhat excessively drained, fine soils on sloping side slopes of hillocks having clayey surface with moderate to severe erosion associated with well drained fine silty soils on moderately sloping side slopes of hillocks with moderate erosion.	4540

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Paddy			
	i) Pre kharif	6285	2,38,830	38.00
	ii) Kharif	2880	1,07,100	45.00
	iii) Improved	10,645	2,66,125	25.00
	iv) Local paddy	1227	19,600	16.00
2.	Maize	322	8372	26
3.	Kharif pulses	150	615	4.1
4.	Kharif oilseeds	136	979.2	7.2

5.	Sugarcane	724	1,08,600	1,50,000
6.	Rabi pulses	1325	8,612.5	6.5
7.	Rabi oilseeds	1550	17,050	11
8.	Potato	735	66,150	90
9.	Cole crops	2100	2,37,300	113
10	Chilli	250	1875	7.5
11.	Pineapple	2,500	2,055,000	822
12.	Wheat	45	945	21

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April	91.9	27.7	15.7	51.1
May	212.3	28.0	19.0	76.2
June	365.7	29.4	21.9	79.05
July	214.7	30.0	22.6	78.05
Aug	180.8	29.7	22.1	81.7
Sep	27.9	30.3	20.9	77.95
Oct	119.1	27.4	16.5	74.4
Nov	0.4	25.7	9.4	66.75
Dec	24.3	22.9	7.4	68.65
Jan	3.4	23.7	4.6	64.2
Feb	20.3	24.7	7.7	64.4
Mar	36.0	26.6	11.2	62.25
Total	1078.7	326.1	179	845.15

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

Category	Population	Production	Productivity
Cattle			

Crossbred	**24521**	**58874 lit/d**	**28 lit/d**
Indigenous	**70435**	**42261 lit/d**	**4 lit/d**
Buffalo	**5862**	**3282 lit/d**	**3.2 lit/d**
Sheep			
Crossbred			
Indigenous	**259**	**2318kg**	**11kg/sheep**
Goats	**3789**	**27820kg**	**12 kg/goat**
Pigs			
Crossbred	**38240**	**1005 tonnes**	**78 kg/pig**
Indigenous	**3450**	**53.05 tonnes**	**52 kg/pig**
Rabbits			
Poultry			
Hens	75258	40,28,697 eggs/year	170 eggs/year/hen
Desi	**171,548**	**50,66,612 eggs/year**	**320 eggs/year**
Improved	**11,050**	**52,12,764**	**420 eggs/year**
Ducks	**11,432**	**14,045 kg**	**40 kg/turkey**
Turkey and others	**840**	**-**	**-**

Category	**Area**	**Production**	**Productivity**
Fish	**750**	**4.90**	**320 kg/ha**

Marine			
Inland			
Prawn			
Scampi			
Shrimp			

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 & enterprise	Major problem identified	Identified Thrust Areas
1.		Thoubal	Yairipok	Paddy	Lack of suitable cultivation practice, fertilizer use and pest management	ICM, SRI, Hybrid Rice, INM, Balanced Fertilizer and IPM
				Goat farming	No vaccination, castration and improper feeding and housing	Goat farming with less input and vaccination
				Fishery	Lack of knowledge of scientific fish farming	Composite fish culture
2.			Charangpat	Paddy	Varietal admixture, improper cultivation methods	ICM, SRI, Hybrid Rice, INM, Balanced Fertilizer and IPM
				Horticulture (Green chilli)	Lack of knowledge of summer vegetable varieties and pest management	Summer vegetable, Corm Cultivation and IPM
				Pig farming	No, vaccination, improper feeding and breed	Vaccination, Castration and Housing

3			Uyan	Paddy	Varietal Admixture, improper cultivation technique and pest management	ICM, SRI, Hybrid Rice, INM, Balanced Fertilizer and IPM
				Oilseeds & Pulses	Limited area under oilseed and pulses	Pulses and oilseed cultivation
				Poultry Farming	Lack of scientific knowledge of poultry farming	Broiler farming, vaccination
				Piggery	No vaccination, castration and improper housing	Pig rearing, vaccination
4.			Tekcham	Paddy	Lack of suitable cultivation practice ,fertilizer use & pest mgmt.	ICM, IPM, INM, Hybrid Rice
				Fishery	Lack of knowledge of Scientific fish farming	Composite Fish culture
5.			Tentha	Paddy	Lack of deep water rice varieties, nutrient & pest mgmt	Deep water rice var. , nutrient & pest mgmt.
				Fishery	Lack of scientific fish culture	Composite fish culture, integrated fish farming
				Gorgun nut	Phythoptora blights on lean and weevil infestation	IPM
6			Langathel	Cole crops, cucurbits	Selection of variety & injudicious use of fertilizer, pesticides. Lack of cultivation techniques	IPM, INM, Varietal demonstration and new cultivation techniques

7.			Khongjom	Cabbage, onion, broadbean	Lack of suitable varieties & its cultivation techniques	Varietal demonstration and new cultivation techniques
				Paddy	Lack of suitable cultivation techniques	SRI,Hybrid rice cultivation,ICM
				Oilseeds & pulses	Lack of knowledge of oilseed & pulses cultivation	Scientific pulse & Oilseed cultivation
8.			Ukhongsang	Paddy	Injudicious use of fertilizer,pesticides & lack of proper cultivation method	SRI,INM,intercropping of paddy with pulses & oilseed crops
				Fishery	Lack of Scientific fish culture	Composite fish culture,integrated fish farming
				Piggery	No vaccination & castration	Vaccination & castration
				Poultry	Problems in feeding readymade feeds	Feeding mgmt. with locally available feeds
				Tomato & cucurbits	Lack of relay cropping & pest mgmt.	Relay cropping with beans & cucurbits ,IPM
9.			Lourembam	Pig farming	Lack of good quality feed	Feeding management using indegineous micro organism
				Vegetable crops	Lack of knowledge of nutrient management eg. Crops & its cultivation techniques	INM, cropping system
				Potato	Improper variety & lack of nutrient & pest mgmt	IPM, INM, Kufri chipsona variety

				Paddy	Varietal admiature,improper cultivation methods	ICM, SRI, Hybrid Rice INM, balanced Fertilizer & IPM
10.			Wanging	Paddy	Injudicious use of fertilizers, Pest and diseases problem, Varietal admixture, failure of crop due to error in planting season	Integrated pest management, Integrated nutrient management, Balance fertilization, Seed prodn. Of paddy.
				Poultry farming	Problems in feeding readymade feeds.	Feeding management with locally available feeds.
				Horticulture (Green chilli)	Die Back, fruit rot.	Integrated pest management.
11.			Nongpok Sekmai	Paddy	Injudicious fertilizers used, lack of suitable cultivation technique	ICM, SRI, Hybrid Rice, INM, Balanced Fertilizer and IPM
				Oilseed & pulses	Not grown	Pulses & oilseed cultivation
12.		Kakching	Thongjao	Paddy	Injudicious use of fertilizers, Pest and diseases problem, Varietal admixture, failure of crop due to error in planting season	Integrated pest management, Integrated nutrient management, Balance fertilization, Seed prodn. Of paddy, varietal trails.
				Fishery	Lack of Knowledge of Disease management	Fish Health management.
				Pig farming	Reduce body weight, preweaning mortality.	Piggery management.

13.			Umathel	Paddy	Injudicious use of fertilizer,pesticides & lack of proper cultivation method	SRI,INM,Intercropping of paddy with pulses & oilseed crops
				Oilseeds & pulses	Lack of knowledge of oilseed & pulses cultivation	Scientific pulse & oilseed cultivation
14.			Waikhong	Paddy	Injudicious use of fertilizer,pesticides & lack of proper cultivation method	SRI,INM,Intercropping of paddy with pulses & oilseed crops
				Pig farming	No vaccination & castration	Vaccination & castration
15.			Serou	Maize	Lack of suitable maize varieties & its cultivation technique	Proper composite & hybrid varieties,intercropping of maize with pulses & oilseeds
16.			Wangoo	Paddy	Injudicious use of fertilizer,pesticides & lack of proper cultivation method	SRI,INM,Intercropping of paddy with pulses & oilseed crops
				Fishery	Lack of scientific fish culture	Composite fish culture
17.			Wabagai	Paddy	Lack of suitable cultivation technique	ICM,SRI,hybrid rice cultivation
				Horticulture (Chilli, cole crops)	Lack of relay cropping & pest management	Relay cropping with beans and cucurbits,IPM
				Fishery	Lack of scientific fish culture	Composite fish culture, integrated fish farming
				Potato	Improper variety & lack of nutrient & pest management	Kufri varieties, IPM,INM

				Tomato	Improper variety & lack of nutrient & pest management	IPM, INM, Hybrid varieties

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
Agronomy	3	3	10	10	1	1	5	5
Horticulture	3	3	10	10	1	1	5	5
Plant Breeding & Genetics	3	3	10	10	2	2	20	20
Plant Protection	3	3	15	15	2	2	15	15
Animal Science	3	3	5	5	1	1	10	10
Home Science	3	3	5	5	1	1	10	10
Total	**18**	**18**	**5**	**5**	**1**	**1**	**10**	**10**

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	72	45	1630	1464				
Rural youth	12	11	240	250				
Extn. Functionaries	5	6	100	86				
	89	62	1970	1800				
Total								

Seed Production (ton.)		Planting material (Nos. in lakh)	
Target	**Achievement**	**Target**	**Achievement**
11.20	11.17	2.50	1.70

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	Rice Production System	Rice	Due to unavailability of adequate quantity of organic manure, true SRI could not be practices.	Modified SRI	-	SRI	SRI	Field visit	Seed FYM
2	Intercropping of maize with pulses	Maize + Chickpea	Growing of only maize could not increase the LER & Yield equivalent ratio of the field.	Intercropping of maize with chickpea	-	Intercropping of maize with chickpea	-	Field visit	Seed
3	Wet sown semi deep rice	Rice	Cultivation of direct seed wet sown semi deep water rice CAUR-4	Less preference of existing variety due to its taste	-	Rice Seed production	-	Field visit	Seed
4	Zero tillage mustard	Mustard	Lack of many choice for short duration variety.	Varietal trial of DRMR-150-35 under zero tillage condition		Production of Zero tillage mustard		Field visit	Seed
5	Management of fusarium wilt in Tomato	Tomato	Fusarium wilt of tomato reduces yield by 10-80%.	Management of fusarium wilt of tomato using Tebuconazole 250 EC		Management of fusarium wilt of tomato		Field visit	Seed

6	Management of fruit damage by rodents	Brinjal	Damage of fruit by rodents	Double poison baiting with 0.0375% coumatetryl in brinjal field		Management of damage by rodents		Field visit	Seed
7	Management of Thrips and fruit borer of chilli	Chilli	Thrips & fruit borer of chilli losses yield by 20-30%	Management of Thrips & fruit borer of chilli using spine toram 12% EC		Pest management of chilli		Field Visit	Seed
8	Value addition	Jackfruit products	Keeping of fresh fruits highly perishable	Keep production of jackfruit chips		Jackfruit chip production		Field visit	Oil/ Preservation
9	Value addition	Bori production	High cost of blackgram bori	Development of chow chow bori		Production of chow chow bori		Field visit	Chow chow, preservation
10	Feeding management	Poultry birds	High mortality percentage especially during early stage	Effect of EM on growth and egg production of Japanese quail		Scientific poultry farming		Field visit	Birds (Japanese quail)
11	Varietal evaluation	French bean	Stringless, tolerant to high temp, bush type and resistant to mite varieties	Performance evaluation of French bean var.Arka arjun		INM in vegetable crops			Seeds/ NPK
12	Varietal evaluation	Okra	Longer duration of existing varieties	Performance evaluation of okra var.Kashi kranti		Performance evaluation of okra		Fiewld visit	Seed/ NPK

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	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	Rice (Var CAUR -4)	Mustard (DRMR 150-35)			Okra(var. Kashi kranti) French bean (Var. Arka arjun)					1
Seed / Plant production										
Weed Management										
Integrated Crop Management	Rice Tamph a phou									1
Integrated Nutrient Management										
Integrated										

Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition					Chow chow(1)	Jackfruit (1)				2
Integrated Pest Management					Chilli Brinjal Tomato					3
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										

TOTAL										

* *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								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								

Feed and Fodder		Japanese quail(1)						1
Small Scale income generating enterprises								
TOTAL								

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	Modified SRI	Due to unavailability of adequate quantity of organic manure, true SRI could not be practices	Modified SRI Var. Tampha phou Seed rate 7-10 kg/ ha,spacing 20 x 20 cm , organic manure- 10 tons/ha, no of seedling/ hill -1, Age of seedling- 17-20 days, irrigation – intermittent wetting and drying, weed management- cono weeding + HW at 25-30 DAT	Modified SRI Var. Tampha phou	3	**Technology:** No. of tillers/hill -23 No. of grains/panicle- 280 Yield-73.2q Net Return- 63,760 Basic Ratio- 1.93 **Farmers Practice:** No. of tillers/hill -8 No. of grains/panicle- 140 Yield-52.5q Net Return- 22.500 Basic Ratio- 1.35	Appreciated	Appreciated	1.93
2	Rice variety CAUR-4	Less preference of existing	Cultivation of direct seeded wet sown semi	Rice	3	**Technology:** P.Ht(cm)- 160 Grain/Panicle-198	Appreciated	Appreciated	1.41

	Vs Akutphou	variety due to its taste	deep water Paddy CAUR-4 compared with Akutphou (KD-14-7-9) Seed rate 60kg/ha, NPK- 30:40:20, sowing time –May			Tiller No. 15 Duration- 150 days Husk color-Reddish brown Grain Type – Medium slender Lodging-Susceptible Production per unit(q/ha)- 49 Net return-21,500 Basic ratio-1.41 **Farmers practices:** P. Ht (cm)- 155 Grain/panicle- 160 Tiller No- 11 Duration- 145 days Production per unit(q/ha)- 45 Net return-18,500 Basic ratio-1.33			
3	Mgmt. of *Fusarium* wilt	*Fusarium* wilt of Tomato	Mgmt. of *Fusarium* wilt caused by *F.oxysporium* &	Tomato	3	**Technology:** **i**)% of infected plants before	Appreciated	Recommended for FLD	6.8

	caused by *F.oxysporium* & sp.*Lycopersici*		*sp.lycopersici* by spraying Tebuconazole 250 EC[Folicur] @ 400 ml/ha 1st spray 15 DAT 2nd spray 40 DAT			spray-10.2 ii) No. of wilted plants 25 DAT=14.3 50 DAT=16.2 Production per unit(q/ha)- 297 Net return-506770 Basic ratio-6.8 **Farmers practice:** i)% of infected plants before spray-9.7 ii)No. of wilted plants 25 DAT- 17.850 DAT-21.9 Production per unit(q/ha)- 270 Net return-448320 Basic ratio-5.89			
4	Double poison baiting with 0.03757% coumatetr	Rodent infestation	Double poison baiting with 0.03757% coumatetralyl started from the	Brinjal	3	**Technology:** Before treatment Damage % -18%	Appreciated	Highly appreciated	5.24

	yl		month of Nov			By eating – 11% By Roting -7% After treatment Damage% - 4% By eating -2.7% By roting -1.3 Yield(q/ha)- 178 Production per unit(q/ha)- 178 Net return-288000 Basic ratio-5.24 **Farmers Practices:** Bromadiolone cake(Roban) Damage% - 5.66 By eating – 3.48 By rotting- 2.18 Yield(q/ha)-168 Production per unit(q/ha)- 168 Net return-280700			

						Basic ratio-4.73			
5	Management of Thrips and Fruit borer of chilli	Thrips & Fruit borer of Chilli	Application of Spinetoram 12 % Sc@ 60 gm ai/ha,three sprays at 15 days interval	Chilli	3	**Technology:** Mean population of thrips- 0.2% % fruit borer- 0.08 Yield- 48 Net return-188400 B.C ratio-4.2:1 **Farmers Practices:** Mean population of thrips- 12% % fruit borer- 6 Yield- 44 Net return-168350 B.C ratio-3.85:1	Appreciated	Highly appreciated	
6	Performance evaluation of Okra Var. Kashi Kranti	Longer duration of existing variety	Performance evaluation of Okra(Var. Kashi Kranti) Spacing - 45 cm X 30 cm, NPK-100:50:50 kg/ha	Okra	3	**Technology:** Plant ht-200cm Fruit length- 10-12cm Yield(q/ha)-86 Net Return-163000 B.C ratio-4.1 **Farmer practices:** Plant ht-250cm Fruit length- 12cm	Appreciated	Ready for demonstration	4.1

			as basal dose			Yield(q/ha)-81 Net Return-150500 B.C ratio-3.8			
7	Performance evaluation of French Bean Var.Arka Arjun	Stringless,tolerated to high temperature, bush type, resistant to Mite type of varieties are not available.	Performance of French bean Var. Arka Arjun Spacing-45 X 15 cm NPK- 30:60:50 kg/ha as basal dose	French bean	3	**Technology:** Plant ht-45 Pods/pl-70 Yield(q/ha)-80 Net return-156000 BC Ratio-2.8 **Farmer practices:** Plant ht-42 Pods/pl-50 Yield(q/ha)-77.6 Net return-142800 BC Ratio-2.5	Appreciated	Ready for demonstration	2.8
8	Effect of EM on Growth & Egg Production of Japanese Quail	High Mortality % especially during early stage	Amount of EM-10ml/100 birds/day for first 10 day & continue after 20 days break for 10 days again	Japanese Quail	3	**Technology: With EM** Age of 1st lay day-50 Hatchability %-82.8 Survivility%-92 B:C ratio-1.6 **Farmer Practices: Without EM** Age of 1st lay day-56 Hatchability %-70 Survibility%-84 B:C ratio-1.4	Appreciated	Appreciated	1.6
9	Development of Chow Chow Bori	High Cost of Blackgram bori	Development of bori from squash (40 % mixed with KMS @ 1.5 g/kg with blackgram paste 60%)	Value addition	3	**Technology:** Product recover/kg-400 B.C ratio-1.81 % increased-37.5 **Farmer practices:** Product recover/kg-250	Appreciated	Further demo needed	1.81

						B.C ratio-1.27			
9	Production of Jackfruit Chips	Keeping of fresh fruits highly perishable	i. Cutting longitudinally into finger like pieces 94 x 1.5 cm slices) ii. Blanched in warm water with 1% KMS for 1 min iii. Deep fried	Value addition	3	**Technology:** Gross return-36000 (200kg of fruits) Net return-17872 B.C ratio-2.01 **Farmer practices**: Gross return-6660 (200kg of fruits)	Highly appreciated	Ready for demonstration	2.01

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	Maize (HQPM-1)	Cultivation of rabi maize	5	10	0.5

2	Chilli (Pusa sadabahar)	Popularization of chilli var.Pusa sadabahar	7	7	1.75
3	Sugarcane	Shoot borer & smut management with Chlopyriphous	8	8	1.75
4	Rice	Stem borer, BPH and Gundhibug management	10	10	1.75
5	Rice (RC maniphou-13)	Seed production Participatory Rice	10	10	4.88
6	Rice(RCM-12)	Seed production of Spring Rice variety RC Maniphou-12	10	10	3
7	Poultry	Performance of broiler chicken	10	10	

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

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

Sl. No.	**Crop**	**Thematic area**	**Technology Demonstrated**	**Season and year**	**Area (ha)**		**No. of farmers/ demonstration**			**Reasons for shortfall in achievement**	**Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)**	**Status of soil (Kg/ha)**		
												N	**P**	**K**
					Proposed	**Actual**	**SC/ST**	**Others**	**Total**					

1.	Chilli	Vegetable production	Popularization of chilli var.Pusa sadabahar	Rabi	0.25	0.25		5	5	-	Irrigated	320	15	290
2.	Rice	Seed production	Rice seed production of RCM-13	kharif	4.88	4.88		10	10	-	Rainfed	260	13	295
3.	Rice	Seed Production	Rice seed production of RCM-12	Pre-kharif	3	3		10	10		Rainfed	260	13	295

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	Chilli	Vegetable production	0.25	52	47	9.6	54	49			90510	208000	117490	2.3				

2	Rice RCM-13	Seed production	4.88	60	52	13.3	62.4	57			75000	168000	19792	2.23				
3	Rice RCM-12	Seed production	3	50	45	11	52	49			56000	140000	84000	2.5				
4	Sugarcane	Pest management	1.75	386	350	10.28	3.92	3.70			72000	480000	308000	2.79				
5	Rice	Pest management	1.75	58.3	52.7	10.6	64.2	53.1			37000	78660	21660	1.38				

***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	3	26-10-18 27-7-18 16-8-18	60	90	150	Training & distribution of inputs for OFT, FLD Seed production.
2	Farmers Training	9	25-4-18 19-5-18 21-5-18 29-5-18 14-8-18 8-9-18 11-9-18 29-9-18 10-12-18	106	80	186	Training & distribution of inputs for OFT, FLD Seed production.
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total						

e. Details of FLD on Enterprises

(i) Farm Implements

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

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

(ii) Livestock Enterprises

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

							m)												
1	Poultry	Feeding management	Copy	10	10	1000	180 450 850 1300 1900 2300 Survivility %-98	109 350 650 1050 1550 2000 Survivility %-94											**Easily adopted by the farmer**

**** 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**	**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**	

	etc.							**k**							******					

***** 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		
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	Grand Total (x + y)
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						
Integrated																						

Farming																						
Water management																						
Seed production	2	-	2	30	-	-	-	30	-	14	-	-	-	44	-	44	-	44	-	44	-	44
Nursery management																						
Integrated Crop Management																						
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops																						
Off-season vegetables																						
Nursery																						

raising																						
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardizatio n																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit																						
Management of young																						

plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation																						

techniques of Ornamental Plants																					
d) Plantation crops																					
Production and Management technology																					
Processing and value addition																					
e) Tuber crops																					
Production and Management technology																					
Processing and value addition																					
f) Spices																					
Production and Management technology																					
Processing and value																					

addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management																						
Soil and Water Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs																						

Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management																						
Piggery Management	2	1	3	20	12	8	5	28	17	3	5	3	8	5	13	20	12	13	5	34	26	60
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	4	-	4	6	-	51	-	57	-	-	-	-	11	-	11	-	6	-	-	6	62	68
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																					
Carp breeding and hatchery management																					
Carp fry and fingerling rearing																					
Composite fish culture																					
Hatchery management and culture of freshwater																					

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

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

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

technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL																						

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**						
				Male		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		
	Off	**Sp Off***	**Total**	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping	4	-	4	30	-	27	-	57	-	14	-	10	-	24	-	44	-	-	-	-	-	77

Systems																						
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production	6	1	7	67	20	-	-	67	20	9	-	4	-	-	-	76	20	32	-	-	20	128
Nursery management																						
Integrated Crop Management																						
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume	2	-	2	20	-	-	-	20	-	10	-	6	-	16	-	30	-	6	-	36	-	36

and high value crops																						
Off-season vegetables	2	-	2	20	-	15	-	35	-	-	-	-	-	-	-	-	-	20	-	15	-	35
Nursery raising	1	-	1	12	-	6	-	18	-	-	-	-	-	-	-	-	-	12	-	6	-	18
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management																						

of Orchards																						
Cultivation of Fruit																						
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of potted																						

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

f) Spices																					
Production and Management technology																					
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology and value addition																					
III Soil Health and Fertility Management																					
Soil fertility management																					
Soil and Water Conservation																					

Integrated Nutrient Management																						
Production and use of organic inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management	1	-	1	16	-	4	-	210	-	-	-	-	-	-	-	-	16	-	4	-	-	20
Poultry Management	2	-	1	18 17	2 3	- -	20 20	- -	- -	- -	- -	- -	- -	- -	- -	- -	18 17	- -	2 3	- -	- -	20 20

Piggery Management																						
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	2	1	3	-	23	42	47	83	70	-	-	27	-	27	-	-	23	42	47	-	-	112
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	8	1	9	117	15	60	-	132	15	-	-	-	-	-	-	117	-	60	15	-	-	192
Integrated Disease Management																						
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming																						
Carp breeding and hatchery management																						

Carp fry and fingerling rearing																					
Composite fish culture																					
Hatchery management and culture of freshwater prawn																					
Breeding and culture of ornamental fishes																					
Portable plastic carp hatchery																					
Pen culture of fish and prawn																					
Shrimp farming																					
Edible oyster farming																					
Pearl culture																					

Fish processing and value addition																						
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production																						
Vermi-compost production																						
Organic manures production																						
Production of fry and fingerlings																						

Production of Bee-colonies and wax sheets																						
Small tools and implements																						
Production of livestock feed and fodder																						
Production of Fish feed																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial																						

development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL																						
(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 +**
				General			**SC/ST**			**Total**			
	On		**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	

	(1)	Sp On* (2)	(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)	y)
Mushroom Production	1	1	2	9	15	7	-	16	15	-	-	-	-	-	-	9	15	7	-	15	16	31
Bee-keeping																						
Integrated farming																						
Seed production	1	1	2	22	15	-	-	22	15	-	-	-	-	-	-	37	-	-	-	22	15	37
Production of organic inputs																						
Integrated Farming																						
Planting material production	1	1	2	20	20	12	-	32	-	32	-	-	-	-	-	20	20	12	-	-	52	152
Vermi-culture																						
Sericulture																						
Protected cultivation of	1	-	1	16	-	-	-	16	-	6	-	-	-	6	-	22	-	-	-	-	-	22

vegetable crops																						
Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying																						

Sheep and goat rearing	-	1	1	-	6	-	3	-	9	-	3	-	3	-	6	-	9	-	6	-	-	15
Quail farming																						
Piggery	-	1	1	-	10	-	-	-	10	-	-	-	5	-	-	-	10	-	5	-	-	15
Rabbit farming																						
Poultry production	-	1	1	-	7	-	8	-	15	-	5	-	-	-	-	-	15	-	5	-	-	20
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						

Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing	1	-	1	-	-	9	-	9	-	-	-	10	-	10	-	-	-	19	-	-	19	19
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL																						

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**						
	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**	

					*		*		*		*		*								*	
Mushroom Production	-	1	1	-	15	-	-	-	15	-	-	-	-	-	-	-	15	-	-	-	15	15
Bee-keeping																						
Integrated farming	1	-	1	31	-	30	-	61	-	-	-	-	-	-	-	31	-	30	-	31	-	61
Seed production	1	-	1	-	-	8	-	8	-	13	-	-	-	-	-	13	-	8	-	21	-	21
Production of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit																						

production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery	1	-	1	15	-	9	-	24	-	-	-	-	-	-	-	-	15	-	9	-	24	-

24Rabbit 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	1	-	1	-	-	26	-	26	-	-	-	-	-	-	-	-	-	-	-	26	-	26
Tailoring and Stitching																						
Rural Crafts																						
TOTAL																						

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**
				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	**Sp. On** (y= b	**(x + y)**

								)	)					)	)		)		)	+c)	+d)	
Productivity enhancement in field crops	1	-	1	21	-	-	-	21	-	-	-	-	--	-	-	21	-	-	-	21	-	21
Integrated Pest Management	2	-	2	18	-	11	-	29	-	5	-	3	-	-	-	23	-	11	-	37	-	37
Integrated Nutrient management	1	-	1	22	-	18	-	40	-	4	-	-	-	-	-	-	-	-	-	44	-	44
Rejuvenation of old orchards																						
Protected cultivation technology	1	-	1	17	-	3	-	20	-	-	-	-	-	-	-	17	-	3	-	20	-	20
Formation and Management of SHGs																						
Group Dynamics and farmers organization																						
Information networking																						

among farmers																					
Capacity building for ICT application																					
Care and maintenance of farm machinery and implements																					
WTO and IPR issues																					
Management in farm animals																					
Livestock feed and fodder production	1	-	1	17	-	5	-	22	-	-	-	-	-	-	-	17	-	5	-	22	-	22
Household food security																					
Women and Child care																					
Low cost and nutrient																					

efficient diet designing																					
Production and use of organic inputs																					
Gender mainstreaming through SHGs	1	-	1	5	-	17	-	-	-	-	-	-	-	-	-	5	-	17	-	22	-	22

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																						
Integrated Pest Management																						

Integrated Nutrient management																						
Rejuvenation of old orchards																						
Protected cultivation technology																						
Formation and Management of SHGs																						
Group Dynamics and farmers organization																						
Information networking among farmers																						
Capacity building for ICT application																						
Care and maintenance of farm																						

machinery and implements																						
WTO and IPR issues																						
Management in farm animals																						
Livestock feed and fodder production																						
Household food security																						
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through																						

SHGs																					
TOTAL																					

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 cultivation	Mushroom cultivation	7-6-18	3	On	RY	12	-	12	-	-	-	12	-	12
	Mushroom cultivation	Mushroom cultivation	STRY	7	On	RY	10	-	10	-	-	-	10	-	10
	Bio Products	Vermi composting	17-10-18	3	On	EP	37	-	37	-	-	-	37	-	37
Animal Science	Production of quality animal product	Goat farming and management	19-5-18	3	On	RY	3	9	12	-	3	3	3	12	15
	Piggery management	Piggery management	17-6-19	3	On	RY	10	-	10	-	5	5	10	5	15
	Poultry management	Small poultry farmer	25-7-18	3	On	RY	7	8	15	5	-	5	12	8	20

	Feeding management	Bokashi piggery	17-8-19	3	On	EP	15	7	22	-	-	-	15	7	22
Home Science	Value addition	Osmotic dehydration of fruits & vegetables	26-4-18	3	On	PF	2	11	13	-	-	-	2	11	13
	Storage technique	Mango preservation	26-9-18	3	On	PF	2	16	18	-	-	-	2	16	18
	Small scale processing	Production of Jackfruit chips	12-7-18	3	On	PF	9	-	9	-	10	10	9	10	19
	Recycling of waste material	Minor fiber extraction	11-9-18	3	On	PF	6	12	18	-	-	-	6	12	18
	Small scale processing	Development of bori	8-6-18	3	On	RY	-	19	19	-	-	-	-	19	19
	Drudgery reduction	Drudgery reduction on tools for farm women	19-10-18	3	On	EP	10	12	22	-	-	-	10	12	22
Plant Breeding	Seed & planting material	Importance of seed & its production	29-5-18	3	On	RY	11	4	15	-	-	-	11	4	15
	Seed production	Roughing in rice seed production	29-10-18	3	On	RY	15	-	15	-	-	-	15	-	15

	Seed production	Quality seed growers		25days	On	RY	22	-	22	-	-	-	22	-	22
	Seed production	Participatory rice seed production	`17-8-18	3	On	EP	14	7	21	-	-	-	14	7	21
Agronomy	Seed production	Seed production	29-5-18	3	On	RY	-	-	-	11	4	15	11	4	15
	Seed production	Seed hub rabi programme	26-9-18	3	On	RY	18	4	22	-	-	-	18	4	22
	Tools & machineries	Use of foldscope	26-10-18	3	On	PF	30	14	44	-	-	-	30	14	44
	Seed production	Seed production	24-1-19	3	On	EP	40	4	44	-	-	-	40	4	44
Horticulture	Nursery management	Production of quality planting material	18-10-18	3	On	EP	20	2	22	-	-	-	20	2	22
	Nursery management	Nursery production	5-11-18	3	On	RY	20	-	20	-	-	-	20	-	20

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	IPM	Pest management of rice	7-4-18	3	Tentha Mareng band	Farmer	14	-	14	-	-	-	14	-	14
	IPM	Pest management of sugarcane & vegetable	19-4-18	3	Keirak maning	F	13	2	15	-	-	-	13	2	15
	IPM	IPM for winter crops	10-12-18	3	Laiphra kpam	F	13	-	13	-	-	-	13	-	13
	IPM	Pest management in orchard	26-9-18	3	Uyal	F	10	-	10	-	-	-	10	-	10
	IPM	Pest management in rice	12-10-18	3	Langme idong makha leikai	F	12	3	15	-	-	-	12	3	15
	IPM	Soil borne diseases in major field crops	17-1-19	3	Wabaga i	F	10	-	10	-	-	-	10	-	10
	IPM	Pest management in field crops	18-2-19	3	Wangji ng	F	15	-	15	-	-	-	15	-	15
	IPM	Stored grain pest management	17-3-19	3	Wabaga i	F	15	-	15	-	-	-	15	-	15

	IPM	Pest management on rice	14-2-19	3	Keirak	RY	13	-	13	-	-	-	13	-	13
	IPM	IPM of rice	23-2-19	3	Wabagai turel maning	RY	9	6	15	-	-	-	9	6	15
	IPM	Mushroom cultivation		3	Tangjeng	RY	12	-	12	-	-	-	12	-	12
Agronomy	SRI	SRI	14-8-18	3	Wangoo	PF	-	-	-	20	10	30	20	10	30
	Cultivation of rabi field crops	Cultivation of rabi field crops	27-11-18	3	Kakching khunou	PF	-	-	-	21	-	21	21	-	21
	Seed hub	Seed hub	12-11-18	3	Serou	PF	30	5	35	-	-	-	30	5	35
	Cultivation of kha	Cultivation of kharif field crops	25-7-18	3	Lourembam	PF	25	-	25	-	-	-	25	-	25
	Integrated nutrient management	Integrated nutrient management	12-2-18	3	Wangjing	PF	15	-	15	-	-	-	15	-	15
Animal Science	Integrated farming system	Integrated farming system	29-6-18	3	Sekmaijing	PF	50	30	80	-	-	-	50	30	80
	poultry farming	Backyard poultry farming	20-7-18	3	Umathel	PF	-	-	-	15	5	20	15	5	20

	dairy farming	Profitable dairy farming	17-11-18	4	Kuraop okpi	PF	19	11	30	-	-	-	19	11	30
	Feeding management	Bokasi piggery	16-10-18	3	Lourem bam	RY	24	-	24	-	-	-	24	-	24
PBG	Rice seed production	Rice seed production	29-6-18	3	Keirak	PF	30	20	50	-	-	-	30	20	50
	Seed Production	Importance of seed & its production	28-7-18	3	Keirak	PF	35	5	40	-	-	-	35	5	40
	Seed Production	Harvesting & storage of rice seed	16-11-18	3	Wangji ng	PF	60	6	66	-	-	-	60	6	66
	Seed Production	Importance of seed & its production	29-9-18	3	Laiphra kpam	RY	-	21	21	-	-	-	-	21	21
Home Science	Value addition	Post harvest storage technique	21-5-18	3	Yairipo k Bishnun aha	PF	5	25	30	-	-	-	5	25	30
	Utilization of waste material.	Briquette production	27-10-18	3	Kakchin g khunou	PF	-	20	20	-	-	-	-	20	20
	Nutrition gardening	Nutrition gardening	12-11-18	3	Lourem bam	PF	10	10	20	-	-	-	10	10	20

	Nutrition gardening	Nutrition gardening	24-7-18	3	Langathel	PF	8	10	18	-	-	-	8	18	18
	Drudgery reduction	Drudgery reduction tools	8-10-18	3	Lourembam	RY	-	26	26	-	-	-	-	26	26
		Market let extension	3-1018	3	louremb am	PF	-	24	24	-	-	-	-	24	24
Horticulture	INM in vegetable crops	INM in vegetable crops	25-4-18	3	Khongjom	PF	15	2	17	-	-	-	15	2	17
	Nursery management	Nursery management of fruit crops	18-5-18	3	Heitupokpi	PF	18	-	18	-	-	-	18	-	18
	Cultivation of summer veg crops	Cultivation of summer veg crops	24-7-18	3	Langathel	PF	9	6	15	-	-	-	9	6	15
	Organic farming	Organic farming based on horticulture	23-8-18	3	Kakching	PF	14	-	14	-	-	-	14	-	14
	Off season vegetable production	Off season vegetable production	16-6-18	3	Lourembam	PF	10	-	10	-	-	-	10	-	10
	Protected cultivation	Protected cultivation	10-6-18	3	Wangjing	RY	15	-	15	-	-	-	15	-	15

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
Piggery	19-3-19 to 25-3-19	15	Feeding management	Bokashi piggery	17	3	20	-	-	-	17	3	20					MANAGE(Rs.42.000/-)
Mushroom	15-3-19 to 21-3-19	7	Mushroom cultivation	Mushroom cultivation	15	-	15	-	-	-	15	-	15			6		Manage (Rs.42.000/-)
IFS	14-3-19 to 20-3-19	7	Organic Farming	Organic Farming	20	-	20	-	-	-	20	-	20					Manage (Rs.42.000/-)

*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		
On	RY	14-1-19 to 20-1-19	7	Animal Science	Goat management	Goat farming and management	10	1	11	3	6	10	13	7	20	Manage	Rs.42,000/-
On	RY	19-3-19 to 25-3-19	7		Piggery management	Piggery management	10	4	14	5	1	6	15	5	20	Manage	Rs.42,000/-
On	RY	9-11-18 to 28-11-18	20		Poultry farming	Small Poultry Farmer	8	10	18	2	-	2	10	10	20	ASCI	212001/-
On	RY	7-3-18 to 26-3-18	20	PBG	Quality Seed Grower	Quality Seed Grower	20	-	20	-	-	-	20	-	20	ASCI	18,000/-
Total																	

3.4.Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 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	3657		1												3657
2.	Diagnostic visit	114	294	195	489	32	13	45						326	208	534
3.	Field day			1	27	17	44	13	3	16				40	20	60
4.	Group Discussion			29	178	134	312	27	23	50				205	157	362
5.	Kishan Gosthi															
	Kishan Mela															
6.	Film show			2	47	41	88	10	27	37				57	68	125
7.	SHG formation															
8.	Exhibition			1	68	33	101	15	11	26				83	44	127
9.	Scientists visit to farmers fields			169	197	110	307	67	3	100				264	143	407
10.	Plant/ Animal Health camp			2	130	35	165	13	5	18				143	40	183

11.	Farm science club	1.Thongjao Farmer Club 2.Khangabok Loumi Development club 3.Farmer club Salungpham 4.Irel Farmers club Langathel Agro Farmers Committee, Langathel		10	145	80	225	50	37	87				195	117	312
12.	Ex-trainee Sammelan															
13.	Farmers seminar/ workshop															
14.	Method demonstration	1.Chemical castration of pig. 2.Milk products 3.Production of Jackfruit	6-4-18 12-5-18 27-6-18	13	118	69	187	19	24	43				137	93	230

		chips 4.Development of chow chow bori 5.Pineapple corn cum slicer 6.Minor fiber extraction 7.Minor fiber extraction 8.Production of bokasi feed 9.Production of fish silage 10.Soil sample collection	15-7-18 21-8-18 4-9-18 13-10-18 7-11-18 16-12-18 5-1-19													
15.	Celebration of important days			5	273	33	306	23	11	44				296	44	340
16.	Exposure visits			5	54	15	69	13	3	16				67	18	85
17.	Electronic media (CD/DVD)															

18.	Extension literature															
19.	Newspaper coverage			6												
20.	Popular articles			Every Monday												
21.	Radio talk			19												
22.	TV talk			8												
23.	Training manual															
24.	Soil health camp			1												
25.	Awareness camp															
26.	Lecture delivered as resource person			20												
27.	PRA															
28.	Farmer-Scientist interaction			4	55	10	65	10								75
29.	Soil test campaign															
30.	Mahila Mandal Convener meet (Mahila Kisan Divas)		15-10-18	1	55	32	87	45	-	45	27	-	27	127		159
	Any other (Please specify)															
31.																

Grand Total															

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	Rice	Tampha phou	120.8	420000	700	105	805
		RC Man-9					
		Sana phou					
		Akut phou					
		RC Man-13					
		WR 15-6-1					
		RC Mani-12					
		Gin phou					
		Pari phou					
OILSEEDS							
PULSES							
VEGETABLES							
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						
4	VEGETABLES						
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								
Spices								
Ornamental Plants								

VEGETABLES	Brinjal	Arka Kesav	200	10	100	10	-	10
	Chilli	Arka Meghana	800	10	400	8	2	10
	Onion	Prema	11500	20	1150	17	3	20
	Broccoli	Green magic	6000	27	6000	27	-	27
	Cabbage	Green Hero	2000	15	2000	13	2	15
	Cauliflower	White Excel	5000	15	5000	15	-	15
	Knol khol	Challanger	1700	20	850	20	-	20
	Tomato	Arka rakshak	3000	13	1500	10	3	13
Plantation crops								
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	Vermicompost	*E-fotidae*		10	20,000	33	2	35

BIO PESTICIDES								

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

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.				
Training manuals				
Technical Report				
1.				
Book/ Book Chapter				
Popular articles	Every Monday on local newspaper Hueiyen Lanpao http://hueiyenlanpao.com/	• Dr.S.Zeshmarani • Dr.M.Thoithoi Singh • S.Sumangal Singh • Dr.W.Jiten Singh	• Livestock • Plant Protection • Plant breeding & genetics • Soil Science	
Technical bulletins				
Extension bulletins				
Newsletter				
Conference/ workshop proceedings				

Leaflets/folders	• Seed production of RC-Maniphou-13 • Zero tillage cultivation of mustard Var. DRMR-150-35 • Value added product from Carombola • Development of Chow-Chow bori • Ginger-Package & practices • Scientific cultivation of capsicum	• N.Tomba Singh (SMS Agronomy) • S.Sumangal Singh (SMS PBG) • RK Lembisana Devi (SMS Home Science) • RK Lembisana Devi (SMS Home Science) • Kh Premlata Devi (SMS Horticulture) • Kh Premlata Devi (SMS Horticulture)		300 Each
e-publications				
Any other (Pl. specify)				
TOTAL				

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

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced

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

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

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

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

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

- Identification of courses for farmers/farm women-PRA
- Rural Youth: PRA
- Extension personnel: Depending upon their scheme

3.11 Field activities

i. Number of villages adopted: 4

ii. No. of farm families selected: 30

iii. No. of survey/PRA conducted: 2

3.12. Activities of Soil and Water Testing

Status of establishment of Lab :

1. Year of establishment :2016
2. List of equipments purchased with amount :90300

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1		**Mridaparikshak**	Nagarjuna Agro Chemical	1	90300
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	217	357	10	
Water Samples				
Plant Samples				
Petiole Samples				
Total				

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

- **a. No. of SHCs prepared: 650**
- **b. No. of farmers to whom SHCs were distributed:600**
- **c. Name of the Major and Minor nutrients analysed: N, P, K, S, Zn,B,Fe,Mn, Cu(Ph , 0.C and EC)**
- **d. No. of villages covered: 10**

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	106	750	56	396	4	25	1	20	9	150	24	250	200	1591
Voice only	1400	1400	632	632	30	30	50	50	50	50	300	300	2462	2462
Voice and Text both														
Total	**1506**	**2150**	**688**	**1028**	**34**	**55**	**51**	**70**	**59**	**200**	**324**	**550**	**2662**	**4053**

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
Flood /drought	Introduction of new variety or crop	500	1500	500	2000
Drought	Introduction of Resource Conservation Technologies	100	300	100	400
Flood /drought	Distribution of seeds and planting materials	500	1500	500	2000
	Any other (Please specify)				

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
Flood		20	5	1000	750	250	1000

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	% of adoption	Change in income (Rs.)

	participants		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.Dept. of Agriculture,Manipur	SAC,Training & Demonstration
2.Dept. of Horticulture,Manipur	SAC,Training & Demonstration
3.Dept. of Veterinary & Animal Science	SAC,Training & Demonstration
4.Dept. of Sericulture,Manipur	SAC
5.Dept. of Forestry	SAC
6.Dept. of Fishery,Manipur	SAC,Training & Demonstration
7.Bank	SAC,Training & Demonstration
8.DRDA / IWMP	Training, purchase of seeds from KVK

9.ATMA/RKVY	Training, lecture in ATAMA related trg.programmes
10.MSFAC	Training
11.NABARD	SAC, sponsored fund under some projects providing low cost tools and implements to the Farmers club, Formation of JLG for Piggery production especially to the women farmers.
12.NFDB	Supplied fingerlings of Jayanti Rohu and Amar carp to the farmerws.

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.)
Pradhan mantra Fasal Bima Yojana				
Mera Gaon Mera Gaurauv		**Every month**	**ATARI**	**30300**
Rabi Campaign		**26-10-18**	**ATARI**	**80,000**
World Soil Health		**5-12-18**	**ATARI**	**24,780**
Skill Development Programme under ASCI	**Lecture, Field visit, Demonstration, Exposure visit**		**ASCI**	**39,2000**
Swachhta Pakhwada		**Every Month**	**ATARI**	**12710**

Swachhta Action plan		**Every Month**	**ATARI**	**22,500**
Mahila Kissan Divas		**15-10-18**	**ATARI**	**10,415**

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No: Yes

Sl. No.	**Programme**	**Nature of linkage**	**Remarks**
1	**Training**	**Training**	**Training programme for extension personal**

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**
1	**Demonstration**	**Supply of fingerling (Jyanti rohu, Amur carp)**	**Supply of seed through farmer**

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									
2									

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									
Wheat									
Maize									
Any other									
Pulses									
Green gram									
Black gram									

Arhar									
Lentil									
Ay other									
Oilseeds									
Mustard									
Soy bean									
Groundnut									
Any other									
Fibers									
i.									
Spices & Plantation crops									
i.									
Floriculture									
i.									
Fruits									
i.									
Vegetables									
i.									
a. Others									

(specify)									
i.									

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	

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	State Bank of India	Thoubal	11746667259
With KVK	State Bank of India	Thoubal	11746667259
Revolving Fund	State Bank of India	Thoubal	37606402881

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	1.67913	1.78240(last year unspent bal.)	1.67847	1.78240	0.00066
Extension activities	0.20247		0.20247		
TA/DA/POL etc.					
TOTAL	**1.88160**	**1.78240**	**1.88094**	**1.78240**	

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**	135.00	135.00	130.28007
2	**Traveling allowances**	4.00	4.00	3.96525
3.	**HRD**	1.10	1.10	1.10
4.	**Contingencies**	18.75	18.75	18.70719

A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses			
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)		**158.85**	**158.85**	**154.05251**
B. Non-Recurring Contingencies				
1	**Works**			

2	**Equipments including SWTL & Furniture**	0.30	0.30	0.30
3	**Vehicle** (Four wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		**159.15**	**159.15**	**154.35251**
C. REVOLVING FUND				
D. NARI		3.00	3.00	3.00
GRAND TOTAL (A+B+C)		**162.15**	**162.15**	**157.35251**

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	3.78888	2.73212	2.43786	4.083135
April 2017 to March 2018	4.083135	1.23454	2.45260	5.31768
April 2018 to March 2019	5.31768	5.92701	5.02185	6.22284

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: Lack of infrastructures such as farmers hostel,full fledged soil testing laboratory,demonstration units.Lack of full strength staff 1 SMS & 1 programme Assistant. Lack of adequate no. of vehicle.

(b) Financial: Piecemeal release fund creates irregularity in proper implementation of activities such as OFTs,FLDs etc.

(c) Technical: Availability of location specific varieties of crops and livestocks having less than 10 years of release is very rare in the region.

(Signature)
Sr. Scientist cum Head