PROFORMA FOR ANNUAL REPORT OF KVKS, 2016-17

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
KrishiVigyan Kendra (KVK), Khawzawl, PO-khawzawl, Distt.-Champhai (MIZORAM)-796310	03831-261484, 261486	03831- 261485	kvkkhawzawl@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), Aizawl, Mizoram- 796 001	0389-2319025	0389-2315784	mizagr@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Shri Lalthansiama Director of Agriculture (R & E)		9436354893	mizagr@gmail.com

1.4. Year of sanction: 2008

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

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	PC	Vacant	Sr Scientist & Head						
2	SMS	MALSAWMKIMI	Scientist	Horticulture	15,600-39,100+5,400	20,440/-	03.06.09	Permanent	ST
3	SMS	SYED KHALIDUDDIN AHMED	Scientist	Animal Science	15,600-39,100+5,400	21,220/-	26.4.08	Permanent	GENERAL
4	SMS	F. ZORAMTHARI	Scientist	Plant Protection	15,600-39,100+5,400	20,440/-	06.6.09	Permanent	ST
5	SMS	Dr. OM PRAKASH	Scientist	Agronomy	15,600-39,100+5,400	20,440/-	23.6.14	Permanent	General
6	SMS	ISRAEL LALREMRUATA	Scientist	Agro Forestry	15,600-39,100+5,400	20,440/-	09.03.12	Permanent	ST
7	SMS	VANLALDUATI	Scientist	Soil Science	15,600-39,100+5,400	18,240/-	09.02.15	Permanent	ST
8	Programme Asst	LALHRUAITLUANGI	PA (Home Sc)	Home Science	9,300-34,800+4200	14,120/-	1.7.08	Permanent	ST
9	Computer Programmer	SAMSON SAIRENGPUIA SAILO	PA (Computer)	Computer	9,300-34,800+4200	14,120/-	22.4.08	Permanent	ST
10	Farm Manager	PRAKASH THAPA	Farm Manager	B.Sc (Agri.)	9,300-34,800+4200	13,580/-	25.4.08	Permanent	GENERAL
11	Assistant	K.VANLALHMANGAIHI	Assistant	M.Com	9,300-34,800+4200	14,120/-	29.5.08	Permanent	ST
12	Stenographer	CRUSADE THANGPUII	Stenographer	B.A	5,200-20,200+2,400	10,170/-	29.2.08	Permanent	ST
13	Driver	LALNUNTLUANGA	Driver	-	5,200-20,200+1,900	8,250/-	29.2.08	Permanent	ST
14	Driver	R.DENGLIANA	Driver	-	5,200-20,200+1,900	8,250/-	9.2.08	Permanent	ST
15	Supporting staff	LALTANPUIA	Supporting staff	-	4,440-7,440+1,300	6,410/-	10.7.08	Permanent	ST
16	Supporting staff	LALVENHIMA	Supporting staff	-	4,440-7,440+1,300	6,410/-	24.7.08	Permanent	ST

1.6. **a. Total land with KVK (in ha)** **:**17.774
b. Total cultivable land with KVK (in ha) :12
c. Total cultivated land (in ha) :4

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	1.31
2.	Under Demonstration Units	12.464
3.	Under Crops (Cereals, pulses, oilseeds etc.)	1.5
4.	Under vegetables	1.25
5.	Orchard/Agro-forestry	0.5
6.	Others (specify)	0.75

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	2007	-	-	-	-	Completed
2.	Farmers Hostel	ICAR	2009	-	-	-	-	Completed
3.	Staff Quarters (6)	ICAR	2007	-	-	-	-	Completed
4.	Demonstration Units (2)	ICAR	2007	-	-	-	-	Completed
5	Fencing	ICAR	2009	-	-	-	-	Completed

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Gypsy	MZ-O1 D 4086	-	-	-	Running condition
Tractor	MZ-01 D 2246	-	-	-	Running condition

C) Equipments& AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LCD projector	Sept,2008	-	Good
Xerox machine	Sept,2011	-	Good
Computer	Sept,2008/2011	-	Good
Seed analyzer	Sept,2008	-	Good
Refrigerator	Sept,2008	-	Good
Incubator	Sept,2008	-	Good
Oven	Sept,2008	-	NOT WORKING
Grinder	Sept,2008	-	Good
Laptop	Sept,2008	-	Good
T.V.	Sept,2008	-	Good
A.C.	Sept,2008	-	NOT WORKING

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

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	22/02/2017	Shri. Lalthansiama, Director Of Agricuture, Research & Extension	1) Suggest all the Scientist to go for publisizing through media. 2) To simplify the presentations while presenting it and use local language when and wherever possible in view of the farmers..	
2.		Shri.P.Vanlalngheta,SMS(R & E)		

3		Shri Lalhmangaiha, Divisional Horti Officer		
4		Shri H.Malsawmkima, Wildlife		
5		Shri.Vanlalchhuana , RO (Soil)		
6		Shri James Vanlalluaia, District Agriculture Officer		
7		Shri Lalthanzuala, District Fisheries Development Officer		
8		Shri Rohmingthanga, FD (fishery)		
9		Shri PC Lalzarliana, Block President, AMFU		
10		Shri, P Lalbiakkima , SDO (minor Irrigation)		
11		Shri Lalchharliana ,Sub Divisional Agriculture Officer		
12		Dr.OM.Prakash, Scientist, Agro KVK		
13		Smt F.Zoramthari, Scientist PP		
14		Shri S.K.Ahmed, Scientist, Animal Sc		
15		Smt Malsawmkimi, Scientist, Horti		
16		Smt R.Vanlalduati, Scientist, SoilSc		
17		Smt Remveli , Block president,MHIP		
18		Smt K Vanlalhmangaihi,Assistant KVK		
19		Smt Lalhruaitluangi ,Programme Assistant Homescience		
20		Shri Samson S Sailo Programme Assistant Computer		

**** 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.	Horticulture +Maize + Animal Husbandry- Highland (>1250m MSL)
2.	Jhum Paddy + Vegetable + Animal Husbandry- Midland (900- 1250 m MSL)
3.	Wetland Rice + Fish + Winter Vegetables - Low land (< 900 m MSL)

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

Sl. No	Agro-climatic Zone	Characteristics
1	Sub- tropical/ Sub- temperate/ Humid	Some parts of the district like Ngopa &Khawzawl block experience all the three seasons i.e. winter, summer and rains, while in the Champhai valley the temperature ranges from 1-7^0 C for a longer period during winter, severely affecting the crops because of frosty weather. The relative humidity of the region is higher due to heavy rains (2500 mm annually).

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Black Soils		36550 ha
2	Red Soils		89600 ha
3	Alluvial Soils		31000 ha
4	Sandy soil		3600 ha
5	Acid Soils		89600 ha

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1	Jhum Paddy	4350	4431	0.982
2	Paddy (WRC)	3750	8148	0.460
3	Maize	1660	2345	0.708
4	Rice bean	83	104	0.80
5	Arhar	20	17	1.18
6	Field pea	295	425	0.694
7	Cow Pea	210	231	0.909
8	French Bean	193	401	0.481
9	Soyabean	205	196	1.05
10	Potato	205	2057`	0.099

11	Onion	6	34	0.18
12	Brinjal	365	2355	0.154
13	Cauliflower	75	745	0.10
14	Pea	35	150	0.23
15	Carrot	55	393	0.14
16	Cabbage	175	2363	0.07
17	Tomato	31	292	0.11
18	Okra	279	1861.3	0.15
19	Capsicum	25	331.5	0.07
20	Broccolli	16	100.1	0.16
21	Ginger	1008	4969	0.20
22	Turmeric	555	2784	0.20
23	Bird Eye Chilli	1250	6875	0.18

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
April 2016	170	28	20.25	55
May	380	29.3	23.95	71.6
June	1250	31.8	22.9	81
July	2200	29	23.1	86.8
August	6400	26.25	20.1	94.25
September	3200	28.85	20.9	83.2
October	500	25.65	19.95	74.2
November	Nil	23.8	14	65.4
December	Nil	19.4	10.1	69.83
January 2017	Nil	20	12.95	46.5
February 2017	Nil	22.1	11.2	51
March 2017	130	24	18	-

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

Category	Population	Production	Productivity
Cattle			
Crossbred	346	560 tons	1.6

Indigenous	6663	788 tons	0.12
Buffalo	3053	14 tons	0.0045
Sheep			
Crossbred			
Indigenous	712 & 115	3 tons	
Goats			
Pigs	24186	437 tons	
Crossbred	6051	-	
Indigenous			
Rabbits			
Poultry			
Hens			
Desi			
Improved			
Ducks			
Turkey and others			

Note: Pl. provide the appropriate Unit against each enterprise

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

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1.	Khawzawl	Khawzawl	Khawzawl	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries	• Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • Integrated nutrient management • Integrated pest management • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
2.	Khawzawl	Khawzawl	New Chalrang	Jhum paddy + Orange + Vegetables + Animal Husbandry	• Lack of knowledge on crop rotation • No proper post harvest management in tea. • Lack of quality seed of different vegetables • Citrus declining • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Creating awareness on crop rotation and integrated farming • Training on post harvest management in tea. • Creating awareness for the use of quality seeds in different vegetables. • Rejuvenation of old citrus orchards. • Creating awareness for livestock management and feed and fodder production

3	Khawzawl	Khawzawl	Chawngtlai	WRC+Jhum Paddy Grapes + Ginger Passion fruit + Animal Husbandry	• Lack of Training and Pruning of Passion Fruit & Grapes • Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases.	• Cultivation practices of Grapes and Passion fruit • IDM on Ginger • Integrated nutrient management • Integrated pest management • Creating awareness for livestock management and feed and fodder production
4.	Champhai	Champhai	Champhai	WRC + Maize + Winter vegetables + Animal Husbandry and Fisheries	• Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • Integrated nutrient management • Integrated pest management • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.

5.	Champhai	Champhai	Zotlang	WRC + Jhum paddy +Potato + Winter vegetables + Animal Husbandry	• Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • Integrated nutrient management • Integrated pest management • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production
6.	Champhai	Champhai	Hmunhmeltha	Jhum paddy + Vegetables + Animal Husbandry	• Lack of knowledge on crop rotation • Lack of quality seed of different vegetables • Citrus declining • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Creating awareness on crop rotation and integrated farming • Creating awareness for the use of quality seeds in different vegetables. • Creating awareness for livestock management and feed and fodder production

7.	Champhai	Champhai	Tuipui	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries	• Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • Integrated nutrient management • Integrated pest management • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
8.	Khawzawl	Khawzawl	Kawlkulh	Jhum paddy + Maize + Banana + Ginger + Animal Husbandry + orange	• Lack of awareness towards integrated farming. • Improper nutrient management. • Citrus declining. • Lack of Orchard management	• Creating awareness for adoption of integrated farming. • Rejuvenation of old citrus orchards. • Creating awareness for livestock management

9.	Khawzawl	Khawzawl	Dulte	Jhum paddy + Banana + Maize + Ginger + Vegetables	• Lack of Orchard management. • Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	• Training on Orchard management. • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2016-17

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agonomy	3	3	9	6	2	2	20	20
Horticulture	3	3	9	9	2	2	20	20
Plant Protection	2	2	6	6	2	2	20	20
Soil Science	3	3	9	9	2	2	20	20
Animal Sc	2	2	7	7	1	1	40	40
Total	13	13	40	40	9	9	120	120

Note: Target set during last Action Plan Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	45	60	1282	1742	722	726	7398	8945
Rural youth	13	13	349	380				
Extn. Functionaries	4	3	70	40				

Total	62	76	1701	2162	722	726	7398	8945

Seed Production (ton.)		Planting material (Nos. in lakh)	
5		6	
Target	Achievement	Target	Achievement
1.15	1.15	0.138	0.185

Note: Target set during last Action Plan Workshop

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

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Evaluation	Paddy	Low yield with local variety & lack of Known variety	Varietal evaluation of Rice var. Samba Mahsuri(BPT-5204), Jeera Phool .		-	-	Diagnostic visit,Field day,Palatability test of Rice varieties.	Seeds, Fertilizer etc.
2	Weed Management	Paddy	Low yield &higher cost of cultivation with manual weeding	Economic viability of herbicide on weed management in Rice.		Chemical weed mn in rice.	-	Diagnostic visit, Field day	Seeds, Fertilizer etc.
3	Integrated Nutrient Management	Field Pea	Lack of knowledge about seed treatment with biofertilizers		Popularization of Ap-3 with *Rhizobium* inoculation	Advantage of *Rhizobium* inoculation for Pulses		Diagnostic visit, Field day	Seeds, Bio- fertilizer etc.
4	Varietal Evaluation	Paddy	Lack of known improved variety		Popularization of paddy variety Gomati			Diagnostic visit, Field day	Seeds, Fertilizer etc.

5	Plant production	Garlic	New introduction	Performance of Garlic var. Agri Found Parvati under Champhai District		Scientific cultivation of Garlic		Diagnostic visit,Field day	Seeds , fertilizers etc
6	Plant production	Onion	No production during Kharif	Evaluation of Kharif Onion varieties in Champhai District				Diagnostic visit,field Days	Seeds etc
7	Varietal Evaluation	Tomato	Lack of multi resistant variety leading to low production and income	Introduction of Tomato var. Arka Rakshak		Scientific cultivation of Tomato		Diagnostic visit,field Days	Seeds , fertilizers etc
8	Varietal Evaluation	Onion	Lack of known high yielding variety		Popularization of Onion variety Agrifound Light Red			Diagnostic visit,	Seeds
9	Variatal evaluation	King Chilli	Lack of high yielding variety		Popularization of King chilli			Diagnostic visit, field day	Seeds
10	IPM	Tomato	Low yield due to infestation with white fly resulting in curling and drying of leaves and sometimes infected with virus	Integrated Pest Management of white fly in tomato		Integrated Pest Management of white fly in tomato		Diagnostic visit, field day	Seeds,pesticides,bio pesticides etc
11	IPM	Mustard	Low yield due to withering and stunting of plants due to secretion of honey dew by aphids,sooty molds grow and the infected plants look sickly and blighted in appearance	Integrated pest Management of Aphids (Lipaphis erysimi) in Mustard. (Brassica juncea var rugosa		Integrated pest Management of Aphids (Lipaphis erysimi) in Mustard.		Diagnostic visit, field day	Seeds,pesticides,bio pesticides etc

12	Soil Health		Nitrogenous fertilizer not affordable by the farmers	Effect of *Azolla* on the yield of Rice crop.		Advantages of Azolla on paddy Cultivation		Diagnostic visit,Field days	Azolla
13	Soil management		Low productivity due to traditional method of cultivation	Effects of micronutrients on growth, yield and quality of Chilli				Diagnostic visit,Field days	Seeds
14	Soil management		Low yield due to weed infestation	Effect of mulching method on the yield of Tomato var.*Arka rakshak*				Diagnostic visit,Field days	Seeds and polymulch
15	Soil Health		Lack of balance fertilization.		Popularisation of Chemical fertilizers on the yield of Brinjal			Diagnostic visit,Field days	Seeds,fertilizers
16	Soil management				Popularization of organic fertilizers on Growth and yield of Tomato			Diagnostic visit,Field days	Seeds,vermicompost
17	Breed Comparison	Piggery production	Non availability of prolific improved breeds	Evaluation and Comparison of Burmese local Sows with Improved Crossbreed (Hampshire cross) Sows with respect to Oestrus cycle, inter Furrowing Intervals & litter size				Diagnostic visit	Piglets & Mineral mixture
18	Feed and Fodder	Oat	Scarcity of green fodder during lean seasons	Introduction of oat varieties JHO-822 and Kent as Fodder crops				Diagnostic visits	seeds
17	Paddy cum fish culture	Paddy & fish			Integration of fish in Paddy fields	Paddy cum fish culture		Diagnostic visit	Fingerlings and seeds etc

3.1 Achievements on technologies assessed and refined during 2016-17

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	1				1					2
Seed / Plant production					2					2
Weed Management	1									1
Integrated Crop Management										
Integrated Nutrient Management	1				2					3
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management					2					2
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
Total	3				7					10

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

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

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds								
TOTAL								

A.5. Results of On Farm Testing

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
1	Varietal Evaluation of Rice variety Jeera Phool & Samba Mahsuri	Low productivity with the existing varieties	Varietal Evaluation var. Jeera Phool & Samba Mahsuri	Rice	3	No. of hills / sqm Jeera Phool: 16 Samba Mahsuri: 14 No. of tillers / sq m Jeera Phool – 224 Samba Mahsuri - 203 No. of effective tillers/ sq m Jeera Phool - 223 Samba Mahsuri – 198 No. of grains / panicle Jeera Phool – 238 Samba Mahsuri l – 216 Yield/ha Jeera Phool i– 3.78 t Samba Mahsuri – 3.06 t	It is good to enhance their income per unit area	Performance is up to the mark and less attack of insect pest & diseases but var. Jeera Phool was too late for further study will go for Refinement	1.69 1.61
2	Economic viability of herbicide on weed mngt in Rice	Severe weed infestation and cumbersome manual weeding compared to new generation broad	Weed Management Technology: Nominee Gold (Bispyribac	Rice	3	No. of weeds / sq m Treated– 16 Untreated -38 No. of hills / sq m Treated - 8	It's good to enhance their income & reducing cost of cultivation		2.02 1.56

		spectrum herbicide	sodium) @25g ai/ha at 15-25 DAT			Untreated -8 No. of tillers / hill Treated– 11 Untreated -9 No. of grains / panicle Treated- 561 Untreated -534 Yield/ha Treated – 3.78 t Untreated -3.32t			
3	Performance of king chilli under Champhai District.	Lack of Known variety	Introduction of King chilli	King chilli	2	Date of sowing: 1/may/1016 Average Fruit weight (g) King chili: 11.5 Control: 13.5 Average Fruit length (cm): King chili : 7.3 Control: 9.5 Average No of fruit /plant King chili :205 Control : 128 Average Yield: King chilli : 31.5 q/ha Control : 23q/ha	Farmers were motivated by seeing the Productivity and willing to continue for the next season.		King Chili : 3.1 Local: 2.7

5	Evaluation of Kharif Onion Variety Arka Kalyan	No production during Kharif Season	Introduction of Kharif Onion Productio	Onion	4	Technology : Time of sowing : 20.5.2015 Time of transplanting: 4/6/2015 Average weight of bulb (g): 150 Average height (cm): 42 Average yield: 335q/ha Farmers practice (Rabi) yield: 350q/ha	Farmers are willing to continue since there was production during November and fetched higher price in the market.	The technology needs large scale demonstration.	Technology : 2.7 Farmers practice: 2.4
3	Integrated Management of bacterial wilt in tomato	Low yield due to wilting	Soil treatment with bleaching powder (15 kg/ha). Seedling dip with Streptocycline Spraying with Streptocycline/Oxytetracycline 200ppm at 7 days interval	Tomato	2	• No of infected plants at ten days interval-5% • Disease incidence (%)-17% 3) Yield qt/Ha-250.80 qt **<u>Control</u>** 1) No of infected plants at ten days interval-30% 2) Disease incidence (%)-60%	The farmers were ready to adopt and continue with the technology by seeing the quantity and quality of the harvest.	Soil treatment and seedling dip treatment greatly influences the growth of timely monitoring and spraying the crop.And with bactericides greatly influences the overall health of the crop.	Treated-2.51 Control -1.89

						3) Yield qt/Ha-170.25 qt			
Soil science	Effect of Azolla on the yield of Rice crop.	Nitrogenous fertilizers not affordable by the farmers.	Popularization of biofertilizers-Azolla	Rice	3	i. No.ofgrains/panicle -258 ii. Yield (q/ha)- 39.87	Higher yield and more economic return	Proper Nutrient management response to higher productivity and more economic return	2.0
	Effect of Micronutrients on yield of Chilli	Low productivity due to traditional method of cultivation.	Nutrientl management	Bird's Eye Chilli	3	i. Yield (q/ha)-26.3q/ha	Farmers are willing to adopt proper application micronutrients	Micronutrients is recommended to increase the crop productivity on acidic soils.	2.7
Animal sc	Evaluation and Comparison of Burmese local Sows with Improved Crossbred (Hampshire cross) Sows	Non availability of prolific improved breed	Piggery Breed comparision	Piggery	4	Parameters: a) Age at first furrowing- b) Litters size at furrowing- c) Wt. of litter (weekly interval till weaning)- d) Mortality till weaning-	There is a sense of nervousness amongst the farmers as the burmese local pigs thrives good & are well adapted to the region	As of now the animals under observations have not come to heat	-
	Introduction of Oat	Scarcity of green fodder during lean	Cultivation of Oat Var: JHO -822 and Kent	Oat as green	3	Observations: a)Duration of Cutting: 55 DAS	Farmers are getting	Many farmers are inclined	

	varieties JHO-822 and Kent as fodder crops	season	as Fodder crops:	Fodder		b) No. of cuttings per Year: 4 times c)Yield t/ha:35t/h as green fodder	aware of the fact that Oat as fodder can be grown during lean period	towards the cultivation of Oat as subsidy to green fodder	

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

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

3.2 Achievements of Frontline Demonstrations during 2016-17

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

List of technologies demonstrated during previous year and popularized during 2015-16 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No of village	No of farmers	Area in ha
1	Paddy	Popularization of paddy variety Gomati	5	10	1
2	Field pea	Popularisation of AP- 3 with Rhizobium inoculation	3	10	2
3	King Chilli	Popularization of king Chilli	3	10	1
4	Onion	Popularization of Onion Var Agri Found Light Red	3	10	1

5	Brinjal	Popularisation of Chemical fertilizers on the yield of Brinjal Technology : NPK @ 120:100:50 kg/ha	2	10	1
6	Tomato	Popularization of organic fertilizers on Growth and yield of Tomato Technology : Vermicompost @ 10ton/ha	3	10	1

**** 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.	Paddy	Varietal Evaluation	Popularization of Rice variety Gomati	Kharif-2016	2	2	10	-	10	-	Rainfed	211	14	116

2.	Field Pea	INM	Popularization of AP-3 with *Rhizobium* inoculation	Rabi-2016-17	2	2	10	-	10	-	Rainfed, 800 M MSL	233	17	120
4	Onion	Weed management	Weed management in Onion by Using Pendimethalii	Rabi, 2015-16	1	1	10		10		Irrigated	273.4	16.7	126
5	Garden pea	Variatal evaluation	Introduction promising variety of Garden Pea var. Arkel	Rabi, 2015-16	1	1	10		10		irrigated	281.1	15.78	129
6.	Ginger	Biological control	Application of 10 kg : 1 kg (Rhizome seed : Biofor Pf) and prepare paste @ 1kg in 2 ltr of water and dip the Rhizome in the paste for 15 minutes and dry shade for 1 hour.	April 2015-February 2016	2.02	2.02	10		10		Rainfed	245	17	136
8	Tomato	Soil health	Growth and yield of Tomato as influenced by organic fertilizers	Rabi 2016	1	1	10	-	10	-	Rainfed	298	9.6	220

9	Paddy cum Fish culture	IFS	Integration of Fish in paddy fields	Kharif-2016	16	16	40	-	40		Rainfed	-	-	-	

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR **	GC	GR	NR	BCR
1	Paddy	Varietal Evaluation	2	36.20	30.62	18.22	38.45	32.60			41380	54300	12920	1.31	41380	55116	13736	1.33
2	Field Pea	INM	2	15.30	9.78	56.44	17.46	14.24	Rust	Rust	27480	61200	33720	1.81	27480	48900	21420	1.78
4	**Onion**	**Weed managem**	**1**	**120**	**95**	**26.3**	**123**	**113**	**-**	**-**	**110000**	**240000**	**130000**	**2.1**	**155000**	**190000**	**35000**	**1.2**

		en t																
5	Garden pea	Variatal evaluation	1	87.5	64.3	36.08	98	79	-	-	47454	104400	56945	2.2	55714	78000	22286	1.4
6	**Ginger**	Biological control	**2.02**	**82 qt**	**65.3 qt**	25.57%	**83.9 qt**	**65.3 qt**	**30%**	**60%**	**84,250/-**	**1,88,600/-**	**1,04,350/-**	**2.23**	**79,000/-**	**1,50,190/-**	**71,190/-**	**1.90**
7	**Tomato**	Soil health	**1**	**91**	**67**	26.3	**110**	**72**	**-**	**-**	**95000**	**330000**	**235000**	**3.4**	67000	201000	134000	3.1
8	Paddy cum Fish culture	IFS	16															

***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	5	220/10/16 5/11/2016 25/11/2016	-	110	110	

			18/1/2017 9/2/2016				
2	Farmers Training	1			32	32	
3	Media coverage	5					
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total	**11**			**142**	**142**	

e. Details of FLD on Enterprises

(i) Farm Implements

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

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

(ii) Livestock Enterprises

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

** 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	

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

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

(iv) Other enterprises

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

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

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

(v) Farm Implements and Machinery

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

						Demo	Check				

f. Performance of FLD on Crop Hybrids

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

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

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

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

3.3. Achievements on Training

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

Thematic area	No. of Courses/ prog			Participants																			
				General						SC/ST						Total						Grand 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)	(x + y)
I. Crop Production																						
Weed Management	1	-	1	-	-	-	-	-	-	22	-	10	-	32	-	22	-	10	-	32	-	32
Resource	-	1	1	-	-	-	-	-	-	-	30	-	5	-	35	-	30	-	5	-	35	35

Conservation Technologies																						
Cropping Systems	-	1	1	-	-	-	-	-	-	-	20	-	4	-	24	-	20	-	4	-	24	24
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production	-	1	1	-	-	-	-	-	-	-	30	-	10	-	40	-	30	-	10	-	40	40
Protected cultivation of Tomato	1		1							20		10										30
Integrated Crop Management																						
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Nursery raising		1	1								20		10				20		10		30	3o
Curing and storage of	1		1							20		10				20		10		30		30

onion																						
Protected cultivation of Tomato	1		1							20		10				20		10		30		30
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																						
Integrated Pest Management	6	4	10							175	135	30	5	205	140	175	135	30	5	205	140	345
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							44	-	6	-	50	-	44	-	6	-	50	-	50
Soil and Water Conservation																						
Integrated Nutrient Management		1	1	-	-	-	-	-	-	-	46	-	5	-	51	-	46	-	5	-	51	51
Production and use of organic inputs																						
Management of Problematic soils		1	1	-	-	-	-	-	-	-	45	-	9	-	54	-	45	-	9	-	54	54
Micro nutrient deficiency in																						

crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management		1	1						15											15		15
Poultry Management																						
Piggery Management	1	3	4						40	26		40	26							40	26	66
Rabbit Management																						
Disease Management																						
Feed management	1		1						15											15		15
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	6	4	10							175	135	30	5	205	140	175	135	30	5	205	140	345
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	20	18	38																		

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

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

Weed Management	1	1	2	-	-	-	-	-	-	48	18	5	2	53	20	48	18	5	2	53	20	73
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production	-	9	9	-	-	-	-	-	-	-	190	-	48	-	238	-	190	-	48	-	238	238
Nursery management																						
Integrated Crop Management																						
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						

Production of low volume and high value crops																						
Off-season vegetables																						
Nursery raising		1	1								30		10		30		30		10			30
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning		1	1								30		20		50		30		20			50
Layout and Management of Orchards		1	1								30		30		60		30		30			60
Scientific cultivation of M. Orange		1	1								45		15		55		45		15			55

Management of young plants/orchards		1	1								50		40		90		50		40			90
Rejuvenation of old orchards		1	1								40		30		70		40		30			70
Scientific cultivation of Kiwi		1	1								30		30		60		30		30			60
Scientific cultivation of grape		1	1								30		30		60		30		30			60
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 of Ginger		4	4								215		35		250						250
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology and value addition																					

III Soil Health and Fertility Management																						
Soil fertility management		1	1	-	-	-	-	-	-	-	30	-	5	-	30	-	30	-	5	-	35	35
Soil and Water Conservation		1	1	-	-	-	-	-	-	-	58	-	12	-	70	-	58	-	12	-	70	70
Integrated Nutrient Management		1	1	-	-	-	-	-	-	-	10	-	3	-	13	-	10	-	3	-	13	13
Production and use of organic inputs		1	1	-	-	-	-	-	-	-	8	-	7	-	15	-	8	-	7	-	15	15
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency		1	1	-	-	-	-	-	-	-	15	-	-	-	15	-	15	-	-	-	15	15
Soil and Water Testing	1	-	1	-	-	-	-	-	-	14	-	-	-	14	-	14	-	-	-	14	-	14
IV Livestock Production and Management																						
Dairy Management		1	1						15											15		15
Poultry Management																						
Piggery	1	3	4						40	26		40	26							40	26	66

Management																						
Rabbit Management																						
Disease Management																						
Feed management	1		1						15											15		15
Production of quality animal products		1	1						15											15		15
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																					

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 Courses/ Prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Training and pruning of orchards		1	1								20		10				20		10		30	30
Mushroom Production	1		1							20				20		20				20		20
Integrated pest	1		1							40		9		49		40		9		49		49

management																						
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								20	6	26			20		6				26
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																					
Production of organics input		1	1	-	-	-	-	-	-	-	14	-	-	-	14	-	-	14	-	-	14	14
TOTAL																					

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

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

Thematic area	No. of Courses/ Prog.			Participants																		Grand Total
				General						SC/ST						Total						
	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							20		2		22		20		2		22		22
Integrated pest management	1		1							10		10		20		10		10		20		20
Winter vegetable	1		1							20		10										30

cultivation																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Macro & Micro nutrient deficiency symptoms		1	1	-	-	-	-	-	-	-	16	-	1	-	17		16	-	1	-	17	17
Soil and moisture conservation		1	1	-	-	-	-	-	-	-	13	-	3	-	16	-	13	-	3	-	16	16
Fish harvest and processing technology																						
Fry and fingerling rearing																						

Small scale processing																					
Post Harvest Technology																					
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 Courses/ prog			Participants																		Grand Total (x + y)
	On	Sp On*	Total (1+2)	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				On	Sp.	On	Sp.	On	Sp.	On	Sp.	On	Sp.	On	Sp.	On	Sp.	On	Sp.	On	Sp.	

	(1)	(2)		(4)	On (5)	(6)	On (7)	(a= 4+6)	On (b= 5+7)	(8)	On (9)	(10)	On (11)	(c= 8+10)	On (d= 9+11)	(4+8)	On (5+9)	(6+10)	On (7+11)	(x= a +c)	On (y= b +d)	
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																					

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 Courses/ prog.			Participants																		Grand Total
	Off	Sp Off*	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Citrus decline and its management		1	1								15		5		20		15		5			20
Integrated Pest Management		1									19		1		20		19		1		20	20
Integrated Nutrient management		1	1	-	-	-	-	-	-	-	8	-	7	-	15	-	8	-	7	-	15	15
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 Annexure in the proforma given below

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

Discipline	Area of 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
Agronomy	Weed Management	Chemical weed management in rice	10.7.15	1	KVK Training Hall	Farmers & Farm women	-	-	-	22	3	25	22	3	25
	Seed Production	Seed production & storage of Rice and Field pea	10/4/15 & 13/11/15	1	KVK Training Hall	Farmers & Farm women	-	-	-	34	10	64	34	10	44
	Resource	Direct Seeded	6/6/15	1	KVK Training	Farmers & Farm women	-	-	-	30	5	35	30	5	35

	Conservation Technologies	Rice			Hall											
Horticulture	Post harvest management	Curing and Storage of Onion	29.4.2015	1	KVK, Training Hall	Farm and farm women				20	10	30	20	10	30
	Protected cultivation	Protected cultivation of Tomato	6.5.2015	1	KVK, Training Hall	Farm and farm women				20	10	30	20	10	30
	Nursery management	Nursery management of horticulture crops	21.5.2015	1	KVK, training Hall	RY				20	10	30	20	10	30
	Training and pruning	Training and pruning of Young Orchard	4.2.2016	1	KVK, training Hall	RY				20	10	30	20	10	30
Plant protection	IPM	Pest and disease management of Ginger	22/7/15 11/8/15 9/2/16	1 day each ie 3 day	KVK,Training Hall ,Khawzawl	Farmer & Farm women				132	30	162	132	30	162
Soil Science	Soil Health manag	Integrated Nutrient	10.04.2015	1	KVK Training	Farmers & Farm women	-	-	-	23	2	25	23	2	25

	ement	Management			Hall										
	Soil manag ement	Soil fertility management in degraded jhumland	17.04.201 5	1	KVK Training Hall	Farmers & Farm women	-	-	-	21	4	25	21	4	25
	Nutrient manag ement	Balance fertilization	20.04.201 5	1	KVK Training Hall	Farmers & Farm women	-	-	-	46	5	51	46	5	51
	Soil amend ment	Management of acidic soils	22.04.201 5	1	KVK, Training Hall	Farm and farm women				45	9	54	45	9	54
	Soil health manag ement	Soil solarisation	28.04.201 5	1	KVK, Training Hall	Rural Youth				14	-	14	14	-	14
Animal Science	Scien tific Mana geme nt of pig	Piggery productio n	10/06/ 15, 18/6/1 5	2	KVK, Trainin g Hall	Farmers & farm women				3 4	7	34	7	-	41
	Padd y cum fish cultur e	Integratio n of fish in paddy fields	01/9/1 5 ;16/9/1 5& 06/10/ 15	3	Zotlan g & Khawz awl	As above				4 6	9	46	9		55

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
Agronomy	Seed Production	Seed production of Rice, Maize and Field pea	17/4/15 – 10/11/15	1	YMA Hall etc.	**Farmer & Farm women**				190	48	238	190	48	238
	Integrated Crop Management	Scientific use of Urea, DAP, MOP & Lime	03/03/2016	1	Rabung Primary School	**Farmer & Farm women**				48	5	53	48	5	53
	Weed Mngt	Scientific use of herbicide in Rice & other crops	11/03/2016	1	SDAO, Training Hall, Khawzawl	**Farmer & Farm women**				18	2	20	18	2	20
Horticulture	Nursery management	Better nursery management	10.4.2015	1	Chawngtlai	RY				20	10	30	20	10	30
	Training and pruning	Training and pruning of major fruit crop	27.5.2015	1	Arro	Farm and farm women				30	20	50	30	20	50
	Lay out of orchard	Layout and management of orchard	29.5.2015	1	Hmuncheng	Farm and farm women				30	30	60	30	30	60
	Cultivation practice	Scientific cultivation of M orange	10.6.2015	1	Vankal	Farm and farm women				45	15	55	45	15	55

	s														
	Management of young plants	Canopy management in major fruit crop	26.6.2015, 7.7.2015.28.7.2015 and 3.3.2016	1	Hliappui	Farm and farm women				50	40	90	50	40	90
	Rejuvenation of Orchard	Citrus rejuvenation	11.8.2015	1	New Chalrang	Farm and farm women				40	30	70	40		70
	Cultivation practices	Scientific cultivation of M orange -	21.8.2015	1	Ngaizawl	Farm and farm women				30	30	30	30	60	60
	Cultivation practices	Scientific cultivation of Kiwi -	3.9.2015	1	Tualpui	Farm and farm women				40	30	70	40	30	70
	Production technology	Scientific cultivation of Ginger.	5.5.2015, 13.5.2015	4	Newchalrang, Hliappui, Khawzawl , Ngopa, rabung	Farm and farm women				265	55	250	265	35	320
	Production technology	Winter vegetable scultivation	14.10.2015	1	Khawzawl	RY				20	10	20	10	30	30
Plant protection	IPM	IPM in Ginger : DDT banned in agriculture and IPM in	17/4/15 20/4/15	4	Neihdawn Chawngtl	Farmer and farm women				125	20	145	125	20	145

		paddy	28/4/15 1/5/15		ai Rabung Chalrang										
	IPM	IPM in paddy	11/9/15 7/10/15	2	Tuimuk Phaisen	Farmer and farm women				50	10	60	50	10	60
	IPM	Management of Insect pest and Diseases of Passion fruit	24/8/15 21/10/15	1 day each (ie 2 days)	Chawngtlai & Ruantlang	Farmer and Farm women				30 30		30 30 30	30 30		30 30 30
	IPM	IPM in paddy Ginger & cowpea	9/10/15	1	Puilo	Farmer and farm women				50		50	50		50
	IPM	IPM in Ginger , Parkia and Tomato	8/12/15	1	Lungsummual	Farmer and farm women				25	5	30	25	5	30
		IPM in winter vegetables	11/12/15	1	Phaizau, champhai	Extension personnel				19	1	20	19	1	20
	Mushroom	Mushroom Cultivation	15/12/15	1 day	Chhingaveng,khawzawl	Rural Youth				10	12	22	10	12	22

	IPM	Management of Storage pest of Paddy	22/12/15	1 day	Vengthar ,khawza wl	Rural Youth				20		20	20		20
Soil Science	Nutrient Manag ement	Nutrient Management in Paddy	1.05.2015	1	New Chalrang	Farm and farm women				30	5	35	30	5	35
	Soil conserv ation	Different types of mulching methods	17.06.201 5	1	Tuipui	Farm and farm women				58	12	70	58	12	70
	Nutrient manag ement	Nutrient use efficiency	7.07.2015	1	Khualen	Farm and farm women				10	3	13	10	3	13
	Product ion of organic inputs	Methods of vermiculture construction	12.08.201 5	1	Neihdaw n	Farm and farm women				15	-	15	15	-	15
	Fertilize r use efficien cy	Methods of fertilizer applications	28.09.201 5	1	Rabung	Farm and farm women				15	-	15	15	-	15
	Soil testing	Importance of soil testing	1.10.2015	1	Chawngtl ai	Farm and farm women				14	-	14	14	-	14
	Manag ement of Agricult ural crops	Macro and micro deficiency symptoms in Agricultural crops	10.11.201 5	1	Khawhai	Rural Youth				16	1	17	16	1	17
	Mulchin g techniq	Importance and benefits of mulching	25.10.201 5	1	Ruantlan g	Rural Youth				13	3	16	13	3	16

	ue	methods													
	Foliar fertilization	Foliar fertilization in fruit crops	16.02.2016	1	Tualte	Extension Personnel				15	-	15	15	-	15
Animal sc	Paddy cum fish culture	Integration of fish in paddy fields	01/9/15 ;16/9/15& 06/10/15	3	Zotlang & Khawzawl	As above				46	9	46	9		55

(D) Vocational training programmes for Rural Youth

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

					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	

*training title should specify the major technology /skill transferred

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

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

On	**F/ FW**	10.7.15	1	Agronomy	Weed Management	Chemical weed management in rice				22	3	25	22	3	25	RKVY	
On	**F/ FW**	10/4/15 & 13/11/15	1	Agronomy	Seed Production	Seed production & storage of Rice and Field pea				34	10	64	34	10	64	RKVY & NFSM	
On	**F/ FW**	6/6/15	1	Agronomy	Resource Conservation Technologies	Direct Seeded Rice				30	5	35	30	5	35	RKVY	
Off	**F/ FW**	17/4/15 – 10/11/15	1	Agronomy	Seed Production	Seed production of Rice, Maize and Field pea				190	48	238	190	48	238	RKVY	
Off	**F/ FW**	11/03/2016	1	Agronomy	Weed Mngt	Scientific use of herbicide in Rice & other crops				18	2	20	18	2	20	ATMA	
On	F/FW	-	1	Horticuture	Nursery raising	Better nursery management				20	10	30	20	10	30	RKVY	
off	F/FW	-	1	Horticuture	Nursery raising	Better nursery management				20	10	30	20	10	30	IWMP	
off	F/FW	-	1	Horticuture	Training and pruning	Training and pruning of major fruit crop				30	20	50	30	20	50	IWMP	
Off	**F/FW**	**-**	**1**	**Horticulture**	**Layout of orchard**	**Layout and management of orchard**				**30**	**30**	**60**	**30**	**30**	**60**	**IWMP**	

Off	F/FW	-	1	Horticulture	Cultivation practices	Scientific cultivation of M orange				45	15	55	45	15	55	IWMP	
Off	F/FW	-	1	Horticulture	Management of young plants	Canopy management in major fruit crops				50	40	90	50	40	90	RKVY	
Off	F/FW	-	1	Horticulture	Rejuvenation	Rejuvenation of declining orchard				50	40	30	40	30	70	RKVY	
Off	F/FW	-	1	Horticulture	Cultivation practices	Scientific cultivation of M orange				30	30	60	30	30	60	RKVY	
Off	F/FW	-	1	Horticulture	Cultivation practices	Scientific cultivation of Kiwi				40	30	70	40	30	70	RD , Khawzawl	
Off	F/FW	-	4	Horticulture	Cultivation practices	Scientific cultivation of Ginger				215	35	250	215	35	250	RKVY, NABARD , ATMA	
Off	RY	-	1	Horticulture	Production technology	Winter vegetable cultivation				20	10	30	20	10	30	RKVY	
Off	EP	-	1	Horticulture	Management of citrus	Horticulture				10	10	20	10	10	20	IWMP	

Off	F and FW	24/8/2015	1	Plant protection	IPM	Management of Insect pest and Diseases of Passion fruit				30		30	30		30	RKVY	10,00o/-
Off	F and FW	9/10/15	1	Plant protection	IPM	IPM in paddy Ginger & cowpea				50		50	50		50	RKVY	10,000/-
Off	F and FW	21/10/15	1	Plant protection	IPM	Management of Insect pest and Diseases of Passion fruit				30		30	30		30	RKVY	10,000/-
Off	F and FW	8/12/15	1	Plant protection	IPM	IPM in Ginger , Parkia and Tomato				25	5	30	25	5	30	RKVY	10,000/-
off	EP	11/12/15	1	Plant protection	IPM	IPM in winter vegetables				19	1	20	19	1	20	RKVY	20.000/-
On	F/FW	20.04.2015	1	Soil Science	Nutrient management	Balance fertilization	-	-	-	46	5	51	46	5	51	RKVY	
On	F/FW	22.04.2015	1	Soil Science	Soil amendment	Management of acidic soils				45	9	54	45	9	54	RKVY	
Off	F/FW	1.05.2015	1	Soil Science	Nutrient Management	Nutrient Management in Paddy				30	5	35	30	5	35	RKVY	

Off	F/FW	17.06.2015	1	Soil Science	Soil conservation	Different types of mulching methods				58	12	70	58	12	70	RKVY	
Off	F/FW	7.07.2015	1	Soil Science	Nutrient management	Nutrient use efficiency				10	3	13	10	3	13	RKVY	
Off	F/FW	12.08.2015	1	Soil Science	Production of organic inputs	Methods of vermiculture construction				15	-	15	15	-	15	RKVY	
Off	F/FW	28.09.2015	1	Soil Science	Fertilizer use efficiency	Methods of fertilizer applications				15	-	15	15	-	15	RKVY	
Off	F/FW	1.10.2015	1	Soil Science	Soil testing	Importance of soil testing				14	-	14	14	-	14	RKVY	
On	**RY**	**28.04.2015**	**1**	Soil Science	Soil health management	Soil solarisation				14	-	14	14	-	14	RKVY	
Off	**RY**	10.11.2015	**1**	Soil Science	Management of Agricultural crops	Macro and micro deficiency symptoms in Agricultural crops				16	1	17	16	1	17	RKVY	
Off	**RY**	25.10.2015	**1**	Soil Science	Mulching technique	Importance and benefits of mulching methods				13	3	16	13	3	16	**RD**	
Off	EP	16.02.2015	1	Soil Science	Foliar fertilization	Foliar fertilization in fruit crops				15	-	15	15	-	15	RKVY	

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

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1.	**Advisory services**	**Agriculture and allied subject**	**April 2015-16**	**165**				**100**	**65**	**165**				**100**	**65**	**165**
2.	Diagnostic visit	**Agriculture and allied subject**		**45**				**30**	**15**	**45**				**30**	**15**	**45**
3.	Field day	**Paddy. Onion, Garden pea**		**7**				**280**	**60**	**340**				**280**	**60**	**340**
4.	Group Discussion	**Agriculture and allied subject**		**12**				**190**	**50**	**240**				**190**	**50**	**240**
5.	Kishan Gosthi	-		**2**				**40**	**20**	**60**				**40**	**20**	**60**
6	Kishan Mela	-		**1**				**190**	**46**	**236**				**190**	**46**	**236**
6.	Film show	Post harvest management on Onion and weed management		2				50	40	90				50	40	90

		on Maize														
7.	SHG formation			-												
8.	Exhibition	Pre Kharif Awareness Campaign, Pre-Rabi Awareness Campaign and PMFBY		3				600	300	900				600	300	900
9.	Scientists visit to farmers fields	**Agriculture and allied subject**		25				45	15	60				45	15	60
10.	Plant/ Animal Health camp			1				200	20	220				200	20	220
11.	Farm science club			-												
12.	Ex-trainee Sammelan			-												
13.	Farmers seminar/ workshop			-												
14.	Method demonstration	**Agriculture and allied subject**		20				70	30	100				70	30	100
15.	Celebration of important days			5				30	20	50				30	20	50
16.	Exposure visits			-												
17.	Electronic media (CD/DVD)															
18.	Extension literature			3												--
19.	Newspaper coverage			50												
20.	Popular articles			-												
21.	Radio talk			1												
22.	TV talk			-												

23.	Training manual															
24.	Soil health camp			2												
25.	Awareness camp			4												
26.	Lecture delivered as resource person			15												
27.	PRA			-												
28.	Farmer-Scientist interaction															
29.	Soil test campaign	Importance of soil testing	1 day	5				280	80	360				280	80	360
30.	Mahila Mandal Convener meet															
31.	Any other (Please specify)															
32.																
Grand Total								**2205**	**761**	**2866**				**2205**	**761**	**2866**

3.5 Production and supply of Technological products during 2016-17

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total

CEREALS	Maize	RCM 76	2	10,000/-		20	20
	Paddy	Gomati Sambha Mahshuri	2 2	6,000/- 8,000/-		20 20	20 20
	Groundnut	GG 20	0.5	3,000/-		10	10
	Field pea	AP-3	5	50,000/-		50	50

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

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	0.6	24,000/-		**60**	**60**
2	OILSEEDS	0.05	3,000/-		**10**	**10**
3	PULSES	0.5	50,000/-		**50**	**50**
TOTAL		**1.15**	77,000/-		**120**	**120**

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

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits	Pineapple	Kew	0.005	2,500/-		5	5
Spices	Chilli	King Chilli	0.03	6,000/-		60	60
	Onion		0.1	20,000/-		10	10
VEGETABLES	Tomato		0.04	4000/-		10	10
	Cabbage		0.01	1000/-		7	7

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

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits	0.005	2,500/-		5	5
2	Spices	0.13	26,000/-		70	70
3	VEGETABLES	0.05	5000		17	17
TOTAL		0.185	56,000/-		92	92

C. Production of Bio-Products during 2016-17

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
1 Azolla	**Azolla**	**Azolla spp**		**2**			**20**	**20**
2 Vermi	**Vermcompost**	**Eisenia foetida**		**5**	**6000**		**50**	**50**

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

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS							

2	BIO FERTILIZERS	***Azolla pinnata***		**200**			**20**	**20**
		Eisenia foetida		**500**	**6000/-**		**50**	**50**
3	BIO PESTICIDE							
	TOTAL			**700**	**6000/-**		**70**	**70**

D. Production of livestock during 2016-17

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

	Others (Specify)							

D1. SUMMARY of production of livestock during 2016-17

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

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

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
1.			
2.			
3.			
Training manuals			
Technical Report			
1.			
2.			
3.			
Book/ Book Chapter			
Popular articles			
Technical bulletins			
Extension bulletins			
Newsletter			
Conference/ workshop proceedings			
Leaflets/folders	1. Paddy cultivation in Top soil bedded terrace 2. Cultivation of French bean Var. Arka Anoop 3. Economic viability of herbicide on weed management on maize 4. Fodder management Co1 & Co2	R. Vanlalduati Malsawmkimi Dr. OP singh S.K ahmed	100 100 100 100

	5. Chinese method of Mushroom cultivation	F. Zoramthari	100
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):

Success story on Onion Cultivation

Name of Farmer : Tawklinga

Village: Khawzawl

Shri Tawklinga, 70 years of age is a farmer of Khawzawl who has a farm quite near from the town. He even has a Dairy unit in his farm and has purchased Pick-up vehicle from his earning. With the help of KVK by lending him power tiller he has recently constructed a big fish pond

for which he is very grateful. He has been Onion grower but he grows it as per his knowledge without adopting any scientific method of cultivation. He attended training on 'Scientific method of Onion Cultivation' conducted by KVK Champhai District during October 2015, and received 400 gram seeds of Onion variety Agri Found Light Red and Pendimethalin weedicide. With this seed, he adopted the knowledge he gained from the training right from nursery raising and used Pendimethalin as weed control in his plot saving lots of labour needed for manual weeding. He is amazed with the result of following the Package of Practice taught in the training. He stated that earlier he used to just broadcast the seeds on ploughed soil and covered it with sack, resulting in poor germination percentage as lots of seeds stick to the sack, etc. But after he adopted the right Package of Practices, germination percentage has been satisfactory with better and faster growth of the plants. He also incorporated slaked lime and Vermicompost in the soil in addition to Cowdung manure from his Dairy unit. His plot has been visited by KVK Scientists at various growth stages, which is just beautiful and appreciable. He is a happy man, expecting to harvest around 20 quintals, and he will harvesting from the last week of April. It is expected that he will earn about Rs 60,000 by selling his produce in the local market itself @ Rs 30/kg.

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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Mandarin Orange	Injecting smoked tobacco juice in the holes of stem and sealing with mud	To kill and control stem borer

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 Laboratory :

Status of establishment of Lab :

1. Year of establishment :2015
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	Side table	1	8500
2	Steel rack	3	26700
3	Book case	3	51000
4	USDV 8	3	75231
4	Stool	2	2622
5	MRIDAPARIKSHAK	1	7500
TOTAL			1,71,553

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	350	350	5	-
Plant Samples	250	250	10	-
Total		600	15	

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	**94**	**94**	**30**	**30**			**10**	**10**	**8**	**8**	**18**	**18**	**160**	**160**

Voice only	136	136	12	12			5	5	4	4	8	8	165	165
Voice and Text both														
Total													325	325

3.14 Contingency planning for 2015-16

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				
	Introduction of Resource Conservation Technologies				
	Distribution of seeds and planting materials				
	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

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)
Chinese method of Mushroom cultivation	25	100	40500	70000
Pest and diseases management in M orange	10	100	30000	55800

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

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

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
State Department of Horticulture	Supply of subsidized inputs like HDPE pipes, Chemicals etc

State Department of Agriculture	Implementation of RKVY, NFSM, supply of subsidized inputs like chemicals, farm machinery etc
NABARD	Promoter in formation of Farmers Clubs - Zotlang & Hliappui
ATMA	Training and technical advice as Resource person
IWMP	Training and technical advice as Resource person
Block Development Office	Training and technical advice as Resource person
NGOs AMFU, YMA etc	Technology transfer, Awareness programme, Celebration of important days

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 2015-16

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
RKVY schemes	**Training, Demonstration, diagnostic visits**	**29.4.2015**	**RKVY**	**72, 27,637 lakhs**
NFSM on rice and pulses	**Training, Demonstration, diagnostic visits**	**30.7.2014**	**NFSM**	**3.7125lakhs**

Demonstration on Integration of Fish on Paddy field for Sustainable Agriculture	**Training , Demonstration, , Diagnostic visits**	**11. 6 2015**	**NABARD**	**10 lakhs**
National Mission for Sustainable Agriculture	**Training , Demonstration, , Diagnostic visits**	**11.11.2015**	**NMSA**	**0.65 lakh**

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1.	Joint visits	Financial support	-

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 2015-16

6.1 Performance of demonstration units (other than instructional farm)

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

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Rice	20/05/2015	02/11/2015	0.25	1) Bhalum-3 2) Gomati	Seed	3Qtls 5Qtls	14,500	19650	
Wheat									
Maize	26/05/2015	14/09/2015	0.1	RCM-76	Seed	4Qtls	4200	7600	

Any othe									
Pulses									
Green gram									
Black gram									
Arhar									
Lentil									
Field pea	26.11.2015	2. 2.2016	0.005	Rachna	Seed	1q	6000	12000	
Oilseeds									
Mustard									
Soy bean									
Groundnut									
Any other									
Fibers									
i.									
ii.									
Spices & Plantation crops									
Ginger									
i.	8.4 .2015	13.4.2016	0.75	Thinglaidum	Rhizome	15q	21000	31500	
Floriculture									
i.									

ii.									
Fruits									
i.									
Vegetables									
King Chilli	**1.4.2015**	**18.11,2015**	**0.005**	**King chilli**	**Seeds**	**50g**	**750**	**3000**	
Cabbage	**23.10.2015**	**29.11`.2015**	**0.004**	**Improved Bahar**	**Seedlings**	**500**	**1500**	**3500**	
Onion	**14.10.2015**	**6.11.2015**	**0.015**	**Agri Found Light Red**	**Seedlings**	**3500**	**2500**	**17500**	
Tomato	**2.10.2015**	**30.10.2015**	**0.015**	**Arka Rakshak**	**Seedlings**	**2000**	**5000**	**10000**	
a. Others (specify)									
i.									
ii.									

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

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

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

6.6. Utilization of hostel facilities (Month-Wise) during 2015-16

Accommodation available (No. of beds) :

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

	stay			stayed)	
Total					
Grand 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			
With KVK			
Revolving Fund			

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31st March, 2015
	Year	Year	Year	Year	
Inputs					
Extension activities					

TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2015 -16

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	84.242		84.062
2	**Traveling allowances**	1		1
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			

I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		**10**		**10**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**10**		**10**

7.4 Status of Revolving Fund (Rs. in lakhs) for last three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2013 to March 2014	63,084	91,345	1,04,731	49,648
April 2014 to March 2015	49,648	2,55,399	2,07,733	47,666
April 2015 to March 2016	47,666	65,360	61,560	3800

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

(Write in detail)

8.1 Constraints

(a) Administrative:

(i) Electrification is needed in the KVK Farm.

(ii) Two four wheel vehicles-One in the name of Programme Co-ordinator and one for Office use/ technical staff is needed. Moreover two wheeler is needed for dak, etc.

(b) Financial:

(i) Irregular salary is a major constraint.

(ii) TE bills get accumulated for many months together causing great problem.

(c) Technical

(i) Technology Inventory issued for Zone III during 2008-2009 needs to be updated.

(ii) Refreshment course for Scientists/SMS's may be conducted from time to time at Zonal level.

(iii) Need, for strengthening of infrastructure for Plant Health Clinic and Soil Lab. Etc.

(Signature)
Programme Coordinator