PROFORMA FOR ANNUAL REPORT OF KVKS, 2015-16

1. GENERAL INFORMATION ABOUT THE KVK

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

1.1. Name and address of KVIK with phone, fax and o mail						
Address	Telephone		E mail			
	Office FAX					
KrishiVigyan Kendra (KVK), Khawzawl, PO-khawzawl, DisttChamphai (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	
LalrinawmiRenthlei	03831-261484	9436159788, 9856229907	kvkkhawzawl@gmail.com	

1.4. Year of sanction:

1.5. Staff Position (As on 31st March, 2016)

SI. 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	LALRINAWMI RENTHLEI	Sr Scientist & Head	Horticulture	15,600-39,100+8,000	25,140	1.7.11	Deputation	ST
2	SMS	MALSAWMKIMI	Scientist	Horticulture	15,600-39,100+5,400	18,590	03.06.09	Permanent	ST
3	SMS	SYED KHALIDUDDIN AHMED	Scientist	Animal Science	15,600-39,100+5,400	196,90	26.4.08	Permanent	GENERAL
4	SMS	F. ZORAMTHARI	Scientist	Plant Protection	15,600-39,100+5,400	18,590	06.6.09	Permanent	ST
5	SMS	Dr. OM PRAKASH	Scientist	Agronomy	15,600-39,100+5,400	18,590	23.6.14	Permanent	General
6	SMS	ISRAEL LALREMRUATA	Scientist	Agro Forestry	15,600-39,100+5,400	16,880	09.03.12	Permanent	ST
7	SMS	VANLALDUATI	Scientist	Soil Science	15,600-39,100+5,400	16,880	09.02.15	Permanent	ST
8	Programme Asst	LALHRUAITLUANGI	PA (Home Sc)	Home Science	9,300-34,800+4200	13060	1.7.08	Permanent	ST
9	Computer Programmer	SAMSON SAIRENGPUIA SAILO	PA (Computer)	Computer	9,300-34,800+4200	13060	22.4.08	Permanent	ST
10	Farm Manager	PRAKASH THAPA	Farm Manager	B.Sc (Agri.)	9,300-34,800+4200	12,550	25.4.08	Permanent	GENERAL
11	Assistant	K.VANLALHMANGAIHI	Assistant	M.Com	9,300-34,800+4200	13060	29.5.08	Permanent	ST
12	Stenographer	CRUSADE THANGPUII	Stenographer	B.A	5,200-20,200+2,400	9,390	29.2.08	Permanent	ST
13	Driver	LALNUNTLUANGA	Driver	-	5,200-20,200+1,900	7,660	29.2.08	Permanent	ST
14	Driver	R.DENGLIANA	Driver	-	5,200-20,200+1,900	7,660	9.2.08	Permanent	ST
15	Supporting staff	LALTANPUIA	Supporting staff	-	4,440-7,440+1,300	5,960	10.7.08	Permanent	ST
16	Supporting staff	LALVENHIMA	Supporting staff	-	4,440-7,440+1,300	5,960	24.7.08	Permanent	ST
	Total					2,07,430			

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

		Source of	Stage						
S.		funding	Complete	Complete			Incomplete		
No.	Name of building	3	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 2015-16

SI. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	29/1/2016	Shri. Lalthansiama, Director Of Agricuture, Research & Extension	 President, All Mizoram Farmer's Union(AMFU) Suggested for conducting of Soil sampling by KVK at various location of the district. 	
2.		Smt. Lalnunpuii Parte, AEO	 DAO suggested to conduct OFT/FLD on PEA variety Rachana. Director of Agri(R&E) suggested to omit varietal trial on rice variety 	
3]	Shri Lalhmangaiha, Divisional Horti Officer	BPT-7029 proposed by agronomy scientist as the farmers may not like the taste.	
4		Shri Vanlalchuailova, Divisional Forest Officer	4) DHO suggested preparation of leaflets/folders on the package of	
5		Dr.L.Pudaite, District Vety Officer	practices of crops/animals/enterprise on which KVK has conducted trials and demonstration and found suitable for adoption in the district.	

6	Shri R.K.Nithanga, District Agriculture Officer	5) DAO suggested multiplication of green manure crops by KVK.
		6) It was suggested to include the number of weeds/sq.m in the
7	Shri Lalthanzuala, District Fisheries Development Officer	parameters of assessment under Soil Sc OFTs vis "Effects of Azolla on
	Cont Freihal aldianaii DIDDO	the yield of rice crops" and "Effect of mulching method on the yield of
8	Smt Emily Lalrinpuii, DIPRO	Tomato". Moreover, Arkarakshak variety of Tomato was advised for the
q	Shri H.K.L Thanga, Sr,Vice Perisident, AMFU	trial.
	Offit P.R.C. Pridings, Or, vice 1 choldent, Privil C	7) Under OFT of Plant Protection "IPM on Aphids in Mustard" the
10	Shri K.Khamthuama, Seri Extension Officer	members suggested to see the efficacy of Coriander juice besides the
		components of the proposed technology.
11	Smt Lalrinawmi Renthlei, Sr Scientist & Head KVK	8) In Animal sc segment, due to high input cost which becomes a constraints in the OFT of animal sc "Evaluation and comparision of
10		Burmies Local Sows with the improved cross breed sows" The DVO
12	Dr.OM.Prakash, Scientist, Agro KVK	suggested an offer to help in increasing the sample size in the research
13	Smt F.Zoramthari, Scientist PP	by incorporating the beneficiaries of NLUP Programmes covered by the
	Onti Zolamilan, Odomot i i	Department
14	Shri S.K.Ahmed, Scientist, Animal Sc	
15	Smt Malsawmkimi, Scientist, Horti	
40	Cost D Vandaldusti Osisatist Osilos	
16	Smt R.Vanlalduati, Scientist, SoilSc	

* 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)

	major farming by otorno/on	major tarming dystomorphics (based on the analysis made by the rever)		
	SI. No Farming system/enterprises			
1.		Horticulture + Hybrid 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)

SI. 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

SI. 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

SI. 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

Month	Rainfall (mm)	Tem	perature ⁰ C	Relative Humidity (%)
April 2014	nil	28	20.25	55
May	-	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	nil	20	12.95	46.5
February	nil	22.1	11.2	51
March	-	=	-	-

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	I	1	
Crossbred			
Indigenous	712 & 115	3 tons	
Goats			
Pigs	24186	437 tons	
Crossbred	6051	-	
Indigenous			

Rabbits		
Poultry		
Hens		
Desi		
Improved		
Ducks		
Turkey and others		

Note: PI. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2015-16)

SI. 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	Biate	Jhum paddy + Tea + 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 2015-16

Discipline		OFT (Technology Ass	finement)		FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
		Number of OFTs N		Number of Farmers		Number of FLDs		Number of Farmers
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agonomy	3	3	8	8	3	3	30	30
Horticulture	3	3	6	6	2	2	25	25
Plant Protection	3	3	6	6	2	2	25	25
Soil Science	2	2	3	3	1	1	10	10
Animal Sc	3	2 on going & 1 achieved			1	1	3	3
Total	14	12 and 2 on going	23	23	9	9	93	93

Note: Target set during last Action Plan Workshop

Training (includi	ing sponsored, voc	ational and other trainings car	ried under Rainwa	Extension Activities				
		3		4				
	Number of Cours	es	Number of Participants		Num	ber of activities	Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	40	50	1128	2064	136	133	1466	2042
Rural youth	7	6	230	146				
Extn.	3	3	60	60				
Functionaries	onaries							
Total	Total 50 59 1418 2270							

Seed Production	n (ton.)	Planting material (Nos. in lakh)				
5		6				
Target	Achievement	Target	Achievement			
0.70	0.75	11,150	14, 000			

Note: Target set during last Action Plan Workshop

3. B. Abstract of interventions undertaken during 2015-16

						Interventions	3		
SI. No	Thrust area	Crop/ Enterprise	Identified problems	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 Paddy variety Gomati		-	-	Diagnostic visit,	Seeds, Fertilizer etc.
2	Weed Management	Maize	Low yield &higher cost of cultivation with manual weeding	Economic viability of herbicide on weed mngt in Maize		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	Effect of Rhizobium inoculation on growth and yield of field pea				Diagnostic visit, Field day	Seeds, Bio- fertilizer etc.
4	Varietal Evaluation	Paddy	Lack of known variety		Introduction of paddy variety Bhalum-3			Diagnostic visit, Field day	Seeds, Fertilizer etc.

5	Varietal evaluation	Soyabean	Lack of known variety		Introduction of Soyabean var RCS 1-9 and its scientific management		Diagnostic visit	Seeds, Bio- fertilizer etc.
6	Varietal evaluation	Toria	Lack of known variety		Performance of Toria Variety : TS-38		Diagnostic visit,	Seeds, Bio- fertilizer etc.
7	Plant production	King chilli	Lack of known variety	Introduction of King Chilli			Diagnostic visit,	Seeds , Biofertilizers etc
8	Plant production	Onion	No production during Kharif	Introduction of Kharif Onion Production			Diagnostic visit,	Seeds,
9	Weed management	Onion	Lack of knowledge on weed management in Onion		Weed management in Onion by Using Pendimethaline		Diagnostic visit,	Seeds
10	Variatal evaluation	Garden pea	Lack of high yielding variety		Introduction promising variety of Garden Pea var. Arkel		Diagnostic visit, field day	Seeds
11	IPM	Ginger	Low yield due to wilting and rotting of rhizomes and shoot	Management of shoot and rhizome borer in ginger		Pest and disease management in ginger in Ginger	Diagnostic visits, Farmers Scientist Interaction	Pesticides
12	IPM	Paddy	Low yield due to disease and pest infestation	Integrated pests and diseases management in paddy		Pest and Disease management in Paddy	Diagnostic visits,Field Days,Farmer Scientist interaction,Farmers field school	Biopesticides and Pesticides
13	IDM	Tomato	Low yield due to wilting	Integrated Management of bacterial wilt in tomato		Pest and Disease management in Tomato	Diagnostic visits,Farmer Scientist interaction	Bactericides,Bleachin g powder .

14	IDM	Ginger	Low yield due to disease infestation	Management of Ginger rhizome rot with Biofor PF		Diseases management in Ginger	Diagnostic visits,Farmer Scientist interaction	Biofor PF
15	Mushroom cultivation	Mushroom		Chinese method of mushroom cultivation			Diagnostic visit, demonstration	Spawns
16	Soil amendment and INM	Maize	Low yield due to Soil acidity	Liming and Integrated Nutrient Management for enhancing Maize Productivity in acidic soils			Diagnostic visit	Lime, Seeds,Fertilizers
17	Soil management	Okra	Low yield due to poor nutrient status of soil		Effect of organic manures on Growth and Yield of Okra		Diagnostic visit	Seeds, organic manures
18	Breed Comparison	Piggery production	Non availability of known exotic 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
19	Feed and Fodder	Maize	Scarcity of green fodder during lean seasons	Fodder Production and feed Quality Enhancement	Introduction & Cultivation of Maize Var: DMH- 849; HQPM-1 as Fodder crops		Diagnostic visits	seeds
20	Feeding Management	Piggery production & Managemen t	Poor Growth & performance in existing feeding system & high cost of concentrate feed.				Diagnostic visit	

3.1 Achievements on technologies assessed and refined during 2015-16

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	2	1	1		1					5
Seed / Plant production					2					2
Weed Management	1				1					2
Integrated Crop Management										
Integrated Nutrient Management	1		1		2					4
Integrated Farming System										
Mushroom cultivation					1					1
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management					2					2
Integrated Disease Management					1					1
Resource conservation technology										

Small Scale income generating enterprises							
Total	4	1	2	10			17

^{*} 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					1			1
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder	1							1
Small Scale income generating enterprises								
TOTAL	1				2			3

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

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

A.5. Results of On Farm Testing

SI. 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 Paddy variety Gomati	Low yield with local variety & lack of Known variety	Varietal Evaluation	Paddy	3	No. of hills / sqm Gomti: 16 Local: 14 No. of tillers / sq m Gomti – 224 Local - 203 No. of effective tillers/ sq m Gomti- 223 Local – 198 No. of grains / panicle Gomti – 238 Local – 216 Yield/ha Gomti – 3.78 t Local – 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 for further study will conduct FLD	1.69 1.61
2	Economic viability of herbicide on weed mngt in Maize	Low yield &higher cost of cultivation with manual weeding	Weed Management	Maize	3	No. of weeds / sq m Treated— 16 Untreated -38 Plant stand / sq m Treated - 8	It's good to enhance their income & reducing cost of cultivation		2.02

						Untreated -8 No. of cobs/ sq m Treated- 11 Untreated -9 Cob length Treated- 13.92 cm Untreated -13.64cm No. of grains /cob Treated- 561 Untreated -534 Yield/ha Treated - 3.78 t Untreated -3.32t			
3	Effect of Rhizobium inoculation on growth and yield of field pea	Lack of knowledge about seed treatment with bio- fertilizers	Integrated Nutrient Management	Field Pea	2	Field pea – 1. Plant stand / sq m Treated- 47	It is good to enhance Farmers income as Green pods is @Rs. 70- 80/kg	To develop short duration varieties for utilizing residual moisture	Pea- 2.35 Local: 2.1
4	Performan ce 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	Farmers were motivated by seeing the Productivity and willing to continue for the next season.		King Chili : 3.1 Local: 2.7

						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			
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 Manageme nt 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/Ox ytetracycline 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 Control No of infected plants at ten days interval-30% Disease incidence (%)-60% 3) Yield qt/Ha-170.25 qt	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
Soil science	Effect of organic manure and chemical fertilizer on the yield of Brinjal	Low yield	Integrated Nutrient Management	Brinjal	3	1)No.of fruits/plant-41 2.Length of fruit (cm)-11.48 3.Yield(q/ha)-49.10	Higher yield and more economic return	Proper Nutrient management response to higher productivity and more economic return	2.7
	Liming and Integrated Nutrient Manageme nt for enhancing Maize Productivit y in acidic	Low yield due to Soil acidity	Soil amendment and INM	Maize	3	1.Plant height (cm)-130 2. Weight of cob (gm)-420 3.Cob length (cm)-22 4. Yield (q/ha)-45.10q/ha	Farmers are willing to adopt proper application of liming and INM	Liming and INM is recommended to increase the crop productivity on acidic soils.	2.2

	soils								
Animal	Evaluati on and Compari son of Burmese local Sows with Improve d Crossbre ed (Hampsh ire cross) Sows	Unavailability of known exotic breeds	Introduction of new breed	Piggery	4	On going Parameters: a) Age at puberty- b) Age at first furrowing- Litters size at furrowing- of litter (weekly interval till weaning)- e) 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	-
	Fodder Producti on and feed Quality Enhance ment	Scarcity of good green fodder in lean season	Cultivation of Maize Var: DMH-849; HQPM-1 as Fodder crops:	Maize as green Fodder	3	Observations: a)Duration of Cutting: 55 DAS b) No. of cuttings per Year: 4 times c)Yield t/ha:35t/h as green fodder	Farmers are getting aware of the fact that maize as fodder can be grown round the year provided there is sufficient water for irrigation	Many farmers are inclined towards the cultivation maize as subsidy to green fodder	

	nnage Pent e fe	Poor Growth & Performance in existing eeding system & high cost of concentrate eed.	Low Cost feed formula utilising locally available non-conventional feed materials and Mineral mixture as feed additives.(wheatbran,Riceb ran&polish,Groundnut cake, fish meal, mineral mixture,etc.)	Mineral mixture as feed additive to locally available non conventiona I feed	4	On going Parameters: a)Weight at Monthly interval: b) Growth rate: 3 M- 14.25 kg & 14.85 4M- 19.25 kg & 21.3 kgs 5M- 24.75 kg & 25.6kgs 6M- 30.75 kg & 33.25kgs c) Disease occurrence: nil d) Mortality: nil	created awareness among the farmers about the use of non- conventional feed materials available with them	Addition of mineral mixture on the existing feeding system has improved the growth rate of animals	
--	-----------------	---	--	--	---	--	---	--	--

^{*}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 2015-16

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

List of technologies demonstrated during previous year and popularized during 2014-15 and recommended for large scale adoption in the district

SI.	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology					
			No of village	No of farmers	Area in ha			
1	Soybean	Introduction of Soybean var RCS 1-9 and its scientific management	5	10	2			
2	Paddy	Introduction of paddy variety Bhalum-3	5	10	2			
3	Onion	Weed management in Onion	3	10	1			
4	Garden pea	Introduction of Garden pea Var. Arkel	3	10	1			
5	Ginger	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.	2	10	2.02			
6	Mushroom	A.Substrate mixture: a) 15 bucket paddy straw b) 4 buckets saw dust (excluding teak saw dust) c)2 kgs atta d)50 gms sodium bi carbonate (Cooking soda)	3	15	15 units			

		e)250 gms lime B) Sterilization for 24 hours C)Incubation D)Growing in growing room			
7	Okra	Influence of organic manures on growth and yield of Okra Treatment: 1.FYM @ 10t/ha 2.Neem cake @ 2t/ha 3.Poultry manure @ 5t/ha	2	10	1
8	Hybrid Napier (CO2&CO3)	Cultivation of fodder on waste and fallow land	3	5	5

^{*} 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.)

							No. of fa	armers/		Reasons for	Farming situation	Statu	us of soil (Kg/	ha)
SI.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		d€	emonstratio		shortfall in achievement	(Rainfed/ Irrigated, Soil type, altitude, etc)	N	Р	К
					Proposed	Actual	SC/ST	Others	Total					
1.	Paddy	Varietal Evaluation	Introduction of paddy variety Bhalum-3	Kharif-2015	2	2	10	-	10	-	Rainfed	211	14	116
2.	Soybean	Varietal Evaluation	Introduction of Soyabean var RCS 1-9 and its scientific management	Kharif-2015	2	2	10	-	10	-	Rainfed, 800 M MSL	233	17	120
3.	Toria	Varietal Evaluation	Performance of Toria Variety : TS-38	Rabi-2015-16	2	2	10	-	10	-	Rainfed	229	16	117
4	Onion	Weed managemen t	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
7	Mushroom	Cultivation technique of Mushroom	A.Substrate mixture: a) 15 bucket paddy straw b) 4 buckets saw dust (excluding teak saw dust) c)2 kgsatta d)50 gms sodium bi carbonate (Cooking soda)	November 2015-February 2016	15 unit	15 unit	15	15	Rainfed	-	-	

			e)250 gms lime B) Sterilization for 24 hours C)Incubation D)Growing in growing room											
8	Okra	Soil management	Effect of organic manures on growth and yield of Okra var.Arka ana,ika	Kharif 2015	1	1	10	-	10	-	Rainfed	298	9.6	220
9	Fodder grass	Fodder production	3	350tons/ha/year	290tons/ha/year	12.06					-	-	-	-

c. Performance of FLD on Crops

		Thematic area	Area (ha.)	Avg. yiel	ld (Q/ha.)	% increas e in		al data on eld (Q/ha.)	paramet	a on ers other eld, e.g.,	E	con. of dem	o. (Rs./ha.)		E	con. of che	eck (Rs./Ha.)	
SI. No.	Crop			Demo.	Check	Avg. yield	H*	L*	disease i	ncidence, dence etc.	GC**	GR**	NR**	BCR **	GC	GR	NR	BCR
									Demo	Local								
1	Pad dy	Varietal Evaluation	2	36.20	30.62	18.22	38.45	32.60			41380	54300	12920	1.31	41380	55116	13736	1.33
2	Soy bea n	Varietal Evaluation	2	15.30	9.78	56.44	17.46	14.24	Rust	Rust	27480	61200	33720	1.81	27480	48900	21420	1.78
3	Tori a	Varietal Evaluation	1														Failed	
4	Onion	Weed managem en t	1	120	95	26.3	123	113	-	-	110000	240000	130000	2.1	155000	190000	35000	1.2
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/-	1,88,60 0/-	1,04,35 0/-	2.23	79,000/-	1,50,19 0/-	71,190/-	1.90
7	Okra	Soil manageme nt	1	84	68	23.5	96	72	-	-	85,000	288,000	203,000	3.3	65,000	204,000	139,000	3.1
8	Fodder	Fodder producti	3	350ton s/ha/ye	290ton s/ha/ye	12.06												

grass	on	ar	ar							

*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

SI.No.	Activity	No. of activities organised	Date	Num	oants	Remarks	
	,	•		Gen	SC/ST	Total	
1	Field days	1	2/11/2016	-	65	65	
2	Farmers Training						
3	Media coverage	1					
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total					65	

e. Details of FLD on Enterprises

(i) Farm Implements

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

^{*} Field efficiency, labour saving etc.

(ii) Livestock Enterprises

SI. No.	Enterpri se/ Categor	Thema tic	Name of	No. of farmer	No. of	No. of animals,	Perfor	ijor mance eters /	% chang e in the	parame	her eters (if 1y)	E	con. o	f dem /Ha.)	0.	Econ.	of chec	k (Rs./	'Ha.)	Remarks
	y (e.g., Dairy,	area	Techn ology	S	units	poultry birds etc.	muic		param eter	Demo	Check	G C*	G R*	N R*	B C	GC	GR	N R	BC R	
	Poultry etc.)						Demo	Check				*	*	*	R* *					
1	Dairy	Scarcit y of fodder at lean seaso n	Fodde r produc tion & Cultiva tion Hybrid Napier (CO2 & CO3)	3	3	-	350to ns/ha/ year	290to ns/ha/ year	12.0 6	Cuttin g Interva IsFirst cutting: 60- 75 DAT 2nd to 6th cutting -45-50 days after first										

					cutting					
					S					

^{**} 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

SI. No.	Categor y, e.g. Commo n carp,	Thema tic	Name of	No. of farmer	No.	No. of fish/	Major Performa paramete	ers /	% chang e in the	Other paramet any)		(Rs./		emo.			of check		·	Remarks
	ornamen tal fish etc.	area	Techn ology	S	units	fingerlings	Demo	Check	param eter	Demo	Check	G C* *	G R* *	N R* *	B C R* *	GC	GR	N R	BC R	

^{**} 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

SI. No.	Category / Enterpris e, e.g.,	Themat ic area	Name	No. of	No. of	Major Performa paramete	ers /	% change in the parame	Other par (if any)	rameters	Ecor (Rs./	ı. of de Ha.)	mo.		Econ.	of check	(Rs./Ha	a.)	Remarks
	mushroo m, vermico mpost, apicultur e etc.		of Techno logy	farmer s	units	Demo	Check	ter	Demo	Check	GC **	GR **	NR **	BC R**	GC	GR	NR	B R	

^{**} 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

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

f. Performance of FLD on Crop Hybrids

SI.	Cron	Name of hybrids	Area (ha.)	No. of farmers	Avg. yiel	d (Q/ha.)	% increase in Avg. yield	Addition data or demo. (Q/ha.)	n yield	Econ. of	demo. (Rs	/Ha.)		Econ. of	check (Rs.	/Ha.)	
No.	Сгор				Demo.	Check		H*	L*	GC**	GR**	NR**	BCR **	GC	GR	NR	BCR

^{*}H-Highest recorded yield, L- Lowest recorded yield

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

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

3.3.1. <u>Farmers and Farm Women in On Campus including Sponsored On Campus Training Programmes sponsored by external agencies)</u>

(*Sp. On means On Campus training programmes

	No. of (Courses/	prog										P	articipan	ts							
			Total			Ge	neral					5	SC/ST					To	otal			
Thematic area	On-	Spon On*	Total	N	/lale	Fei	male	То	otal	M	ale	Fer	nale	То	tal	M	ale	Fer	nale	To	otal	Grand
	Campus (1)	(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)	Total (x + y)
I. Crop Product	on																					
Weed Management	1	-	1	-	-	-	-	-	-	22	-	10	-	32	-	22	-	10	-	32	-	32
Resource Conservation Technologies	-	1	1	-	-	-	-	-	-	-	30	-	5	-	35	-	30	-	5	-	35	35
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	1		1							20		10										30

T	1	1	1	1		I		l			ı		l		l			1	
Tomato																			
Integrated Crop Management																			
Fodder production																			
Production of organic inputs																			
II. Horticulture																			
a) Vegetable Cro	ops																		
Nursery raising		1	1						20		10			20		10		30	30
Curing and storage of onion	1		1					20		10			20		10		30		30
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 P	lants			<u> </u>						<u> </u>							<u> </u>		
Nursery Management																			
Management of potted plants																			
Export potential of ornamental plants																			
Propagation techniques of Ornamental Plants																			
d) Plantation cro	ops	<u> </u>		1										<u> </u>			<u> </u>		<u> </u>
Integrated Pest Management	6	4	10				175	135	30	5	205	140	175	135	30	5	205	140	345

Processing															ł
and value															ł
addition															1
															l
e) Tuber crops															
Production and															
Management															1
technology															1
toormology															1
Processing															
and value															ĺ
addition															1
															1
f) Spices					•		•	•				•	•		
Production and						l									
Management															ł
technology															1
technology															1
Processing															
and value															ł
addition															
															1
g) Medicinal and	I Aromatic	Plants													
Nursery															
management															ł
Production and															
management															l
technology															
Post harvest															
															l
technology and															l
value addition															1
III Soil Health ar	d Eartilitie	Managa	ont												
iii Suii neaitii af	u Fertility	viaiiayeiii	EIIL												

Soil fertility	2	T -	2			1				44	_	6	Ι_	50	_	44	I _	6	_	50	I -	50
management										77		O		30		77		O		30		30
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 Pro	duction ar	nd Manag	ement	1		l .	I	ı	ı	ı			I	I		l	l				ı	I
Dairy Management		1	1						15											15		15
Poultry Management																						
Piggery Management	1	3	4						40	26		40	26							40	26	66

Rabbit													l
Management													
Disease													
Management													l
gg													
Feed	4		-			15						15	15
management	1		1										
Production of													
quality animal													l
products													
													<u> </u>
V Home Science	e/Women e	mpowerm	ent										
Household													
food security													
by kitchen													
gardening and													
nutrition													
gardening													
garderning													
Design and													
development of													
low/minimum													
cost diet													
Designing and													
development													
for high													
nutrient													
efficiency diet	1												
									<u></u>				<u></u>
Minimization of													
nutrient loss in	1												
processing													
Gender													
mainstreaming													l

	1					1							
through SHGs													
Storage loss													
minimization													
techniques													<u> </u>
Value addition													
Income													
generation													l
activities for													
empowerment													
of rural Women													
Location													
specific													
drudgery													
reduction													
technologies													
Rural Crafts													
Women and													
child care													
VI Agril. Engine	ering												
Installation and													
maintenance of													
micro irrigation													
systems													
Use of Plastics													
in farming	1												
practices													
Production of													
small tools and	1												
implements													
		<u> </u>											L

Repair and maintenance of farm machinery and																					
implements																					
Small scale processing and value addition																					
Post Harvest Technology																					
VII Plant Protect	ion			l		1	I	ı				1	l							ı	
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																					

0 ()	1	1	1 1	-	ı	1				ı			1		1		
Carp fry and																	
fingerling																	•
rearing																	ı
Composite fish																	
culture																	
Hatchery																	
management																	i
and culture of																	i
freshwater																	i
prawn																	
Breeding and																	
culture of																	i
ornamental																	ļ
fishes																	
Portable plastic																	
carp hatchery																	
Pen culture of																	
fish and prawn																	
Shrimp farming																	<u> </u>
Edible oyster																	
farming																	ı
Pearl culture																	
Fish																	
processing and																	i
value addition																	ı
IX Production of	f Inputs at s	site	1			<u> </u>	<u> </u>							<u> </u>			
Seed																	
Production																	ı
]															

Diantina	1	l		1								ı	,
Planting													Î
material													I
production													1
													1
Bio-agents													i
production													1
													į
Bio-pesticides													1
production													1
													i
Bio-fertilizer													
production													1
•													1
Vermi-compost													
production													1
production													i
Organic													
manures													1
													1
production													i
Production of													
													1
fry and													1
fingerlings													i
5													1
Production of													1
Bee-colonies													I
and wax													I
sheets													I
													į
Small tools and													
implements													1
													1
Production of													·
livestock feed													i
and fodder													1
and loudoi													1
Production of													
Fish feed													1
1 1311 1660													1
	<u> </u>	<u> </u>											

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					1	l .	1		l .						
Production															
technologies															
Nursery															
management															
Integrated															
Farming Systems															
															
TOTAL	20	18	38												İ
					L	l		l	l						

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 programmes sponsored by external agencies)

(*Sp. Off means Off Campus training

	No. of	Courses/	prg.										Partici	pants								Grand Total
						Ge	neral					S	C/ST					To	otal			
Thematic area	Off	Sp Off*	Total	M	lale	Fer	male	То	otal	M	ale	Fen	nale	To	otal	М	ale	Fer	nale	To	otal	
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*									
I. Crop Production	on																					
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		1											
a) Vegetable Cro	ops												
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																		ı
(Green																		ì
Houses, Shade																		Ì
Net etc.)																		1
b) Fruits						1												
Training and	1	1						30		20		50		30		20		50
Pruning																		İ
Layout and	1	1						30		30		60		30		30		60
Management of Orchards																		1
																		1
Scientific	1	1						45		15		55		45		15		55
cultivation of																		Ì
M. Orange																		1
Management	1	1						50		40		90		50		40		90
of young plants/orchards																		i
Rejuvenation	1	1						40		30		70		40		30		70
of old orchards																		1
Scientific	1	1						30		30		60		30		30		60
cultivation of																		ı
Kiwi																		İ
Scientific	1	1						30		30		60		30		30		60
cultivation of																		ì
grape																		1
c) Ornamental Plants			 I	<u> </u>	<u> </u>	<u>I</u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	1						
Nursery																		
Management																		İ

													•					
Management																		
of potted plants																		
Export																		
potential of																		
ornamental																		
plants																		
Propagation																		
techniques of																		
Ornamental																		
Plants																		
Fidilis																		
d) Plantation cr																		
d) Plantation cr	ops																	
Production and																		
Management																		
technology																		
Processing																		
and value																		
addition																		
e) Tuber crops	1			<u> </u>		l		l I		l	l	l		l	l	l	<u> </u>	
c, ruser erepe																		
Production and																		
Management																		
technology																		
technology																		
Processing																		
and value																		
addition																		
auulliui1																		
f) Spices		1					1											
, .																		
Production		4	4					215	35		250							250
and																		
Management																		
toohnology of																		
technology of	1																	

Ginger																						
Processing and value addition																						
g) Medicinal and	l Aromatic	Plants																				
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health an	d Fertility I	Managem	ent	1	ı			l	l		<u> </u>						ı					
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																						

1. (ı		1	1	1	1		ı	1				1		1	1	1	1	1		1	
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 Pr	duction ar	nd Manag	ement																			<u> </u>
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		1	1						15											15		15
V Home Scienc	e/Women e	mpowerm	ent				ı	1	1	<u>I</u>		I	ı	1	ı		ı			1	ı	<u>I</u>
Household food security by kitchen																						
gardening and																						

	1			 		 		 				
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. Engine	ering													
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 Protec	tion	1	1		ı	l	1	I						
Integrated Pest Management														

	ı	1			1		-	-		-				,
Integrated														i
Disease														ı
Management														ì
5														
Bio-control of														,
pests and														ı
diseases														ı
Production of														
bio control														ı
agents and bio														Ì
pesticides														Ì
pootioidoo														i
VIII Fisheries	I	I				ı							l l	
Integrated fish														
farming														Ì
														i
Carp breeding														1
and hatchery														i
management														i
0 ()														
Carp fry and														Ì
fingerling														Ì
rearing														
Composite fish														
culture														Ì
culturo														i
Hatchery														
management														Ì
and culture of														Ì
freshwater														i
prawn														ı
Breeding and												 		
culture of														i
ornamental														i
fishes														,
														i

Portable plastic													
carp hatchery													
Pen culture of													
fish and prawn													
non and pravii													
Shrimp farming													
g													
Edible oyster													
farming													
Pearl culture													
r can culture													
Fish													
processing and													
value addition													
IX Production o	f Inputs at s	ite											
Seed													
Production													
Planting													
material													
production													
production													
Bio-agents													
production													
production													
Bio-pesticides													
production													
production													
Bio-fertilizer													
production													
production													
Vermi-compost													
production													
Organia				1									
Organic													
manures													

production													
Production of													
fry and													
fingerlings													
migorinigo													
Production of													
Bee-colonies													
and wax													
sheets													
Small tools and													
implements													
Production of													
livestock feed													
and fodder													
Production of													
Fish feed													
X Capacity Build	ding and Gr	oup Dyna	amics										
Leadership													
development													
dovolopinon													
Group													
dynamics													
Formation and													
Management													
of SHGs													
Mobilization of													
social capital													
Entrepreneurial													
development of													
farmers/youths													
	1												

WTO and IPR																				
issues																				
XI Agro-forestry			1																	<u> </u>
Production																				
technologies																				
Nursery management																				
Integrated																				
Farming Systems																				
TOTAL																				
(B) RURAL YOU	ТН			I		ı									I	I	ı	1		
3.3.3. Achievem	ents on Tra	ining <u>Ru</u>	ral Youth	in <u>On</u>	Campu	<u>s</u> inclu	uding <u>S</u>	ponsor	ed On C	Campus	<u>S</u> Traini	ng Pro	gramm	es						
(*Sp. On means	s On Campı	us trainir	ng progra	ammes	sponso	ored by	y exterr	nal agen	icies)											
	No. of (Courses/	Prog										Partici	pants						Grand Total
Thematic area			Total			Gei	neral					S	C/ST				To	otal		(x + y)
	On			M	lale	Fer	nale	То	tal	Ma	ale	Fen	nale	Total	Male		Female		Total	(x + y)

	(1)	Sp On*	44.0	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	
		(2)	(1+2)	(4)	(5)	(6)	(7)	(a= 4+6)	(b= 5+7)	(8)	(9)	(10)	(11)	(c= 8+10)	(d= 9+11)	(4+8)	(5+9)	(6+10)	(7+11)	(x= a +c)	(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 management	1		1							40		9		49		40		9		49		49
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)

		No. of C	ourses/ l	Prog.		Participants		Grand
ı	Thematic area							Total
١		Off	Sp	Total	General	SC/ST	Total	
			- Sp					

		Off		M	lale	Fer	male	Тс	otal	M	ale	Fer	nale	То	ital	Ma	ale	Fen	nale	То	tal	
				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 cultivation	1		1							20		10										30
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 Pe	rsonnel											
C. Extension re	isoillei											

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)

	No. of	Courses/	prog										Partici	pants								Grand Total
				Gene	eral					SC/S	Т					Total						(x + y)
Thematic area	On		Total	M	ale	Fer	nale	Total		Male		Fema	ile	Total		Male		Female		Total		(x · y)
	(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)	
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)

	No. of C	Courses/	prog.										Partici	pants								Grand Total
Thomastic area				Gene	eral					SC/S	Т					Total						
Thematic area	Off	Sp Off*	Total	M	lale	Fer	nale	То	tal	Ma	ale	Fer	nale	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

-	1		 -					1				
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 trainin	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 rticipant	s		SC/ST		Gr	and Tot	al
			·				M	F	T	M	F	T	M	F	Т
Agronomy	Weed Manag	Chemical weed	10.7.15	1	KVK Training	Farmers & Farm women	-	-	-	22	3	25	22	3	25

	ement	management in rice			Hall										
	Seed Product ion	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
	Resour ce Conser vation Technol ogies	Direct Seeded Rice	6/6/15	1	KVK Training Hall	Farmers & Farm women	-	-	-	30	5	35	30	5	35
Horticulture	Post harvest manag ement	Curing and Storage of Onion	29.4.2015	1	KVK, Training Hall	Farm and farm women				20	10	30	20	10	30
	Protect ed cultivati on	Protected cultivation of Tomato	6.5.2015	1	KVK, Training Hall	Farm and farm women				20	10	30	20	10	30
	Nursery manag ement	Nursery management of horticulture crops	21.5.2015	1	KVK, training Hall	RY				20	10	30	20	10	30
	Trainin g and	Training and pruning of	4.2.2016	1	KVK, training	RY				20	10	30	20	10	30

	pruning	Young Orchard			Hall										
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,Trai ning Hall ,Khawza wl	Farmer & Farm women				13 2	30	162	132	30	162
Soil Science	Soil Health manag ement	Integrated Nutrient Management	10.04.201	1	KVK Training Hall	Farmers & Farm women	-	-	-	23	2	25	23	2	25
	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	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	Piggery productio n	10/06/ 15, 18/6/1 5	2	KVK, Trainin g Hall	Farmers & farm women				3 4	7	34	7	-	41

pig											
Padd y cum fish cultur	Integratio n of fish in paddy fields	01/9/1 5 ;16/9/1 5& 06/10/	3	Zotlan g & Khawz awl	As above		4	9	46	9	55
е		15									

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

Discipline	Area of trainin	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 rticipant	S		SC/ST		Gı	and Tota	al
		programme	ŕ			,	M	F	Т	M	F	T	M	F	Т
Agronomy	Seed Product ion	Seed production of Rice, Maize and Field pea	17/4/15 – 10/11/15	1	YMA Hall etc.	Farmer & Farm women				19 0	48	238	190	48	238
	Integrat ed Crop Manag ement	Scientific use of Urea, DAP, MOP & Lime	03/03/201 6	1	Rabung Primary School	Farmer & Farm women				48	5	53	48	5	53
	Weed Mngt	Scientific use of herbicide in Rice & other crops	11/03/201 6	1	SDAO, Training Hall, Khawzaw	Farmer & Farm women				18	2	20	18	2	20
Horticulture	Nursery manag ement	Better nursery management	10.4.2015	1	Chawngtl ai	RY				20	10	30	20	10	30

Trainin g 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	Hmunche ng	Farm and farm women		30	30	60	30	30	60
Cultivati on practice s	Scientific cultivation of M orange	10.6.2015	1	Vankal	Farm and farm women		45	15	55	45	15	55
Manag ement of young plants	Canopy management in major fruit crop	26.6.2015, 7.7.2015.2 8.7.2015 and 3.3.2016	1	Hliappui	Farm and farm women		50	40	90	50	40	90
Rejuve nation of Orchar d	Citrus rejuvenation	11.8.2015	1	New Chalrang	Farm and farm women		40	30	70	40		70
Cultivati on practice s	Scientific cultivation of M orange -	21.8.2015	1	Ngaizawl	Farm and farm women		30	30	30	30	60	60
Cultivati on practice s	Scientific cultivation of Kiwi -	3.9.2015	1	Tualpui	Farm and farm women		40	30	70	40	30	70
Product ion technol	Scientific cultivation of Ginger.	5.5.2015, 13.5.2015	4	Newchalr ang, Hliappui, Khawzaw	Farm and farm women		26 5	55	250	265	35	320

	ogy				I , Ngopa, rabung								
	Product ion technol ogy	Winter vegetable scultivation	14.10.201 5	1	Khawzaw I	RY		20	10	20	10	30	30
Plant protection	IPM	IPM in Ginger : DDT banned in agriculture and IPM in paddy	17/4/15 20/4/15 28/4/15 1/5/15	4	Neihdaw n Chawngtl ai Rabung Chalrang	Farmer and farm women		12 5	20	145	125	20	145
	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)	Chawngtl ai & Ruantlan g	Farmer and Farm women		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	Lungsum mual	Farmer and farm women		25	5	30	25	5	30
		IPM in winter vegetables	11/12/15	1	Phaizau, champha i	Extension personnel		19	1	20	19	1	20
	Mushro om	Mushroom Cultivation	15/12/15	1 day	Chhinga veng,kha wzawl	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	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	1	Khawhai	Rural Youth		16	1	17	16	1	17
	Mulchin g techniq ue	Importance and benefits of mulching methods	25.10.201 5	1	Ruantlan g	Rural Youth		13	3	16	13	3	16
	Foliar fertilizat ion	Foliar fertilization in fruit crops	16.02.201 6	1	Tualte	Extension Personnel		15	-	15	15	-	15
Animal sc	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

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Durati on (days	Area of training	Training title*		Genera			SC/ST			Total			f training i nent after	in terms of S training	elf	Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					M	F	T	M	F	T	M	F	Т	Type of enterp rise ventur ed into	Numb er of units	Number of persons employe d	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)

										No. of	Partic	ipants	;			Spo	Amoun
On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From- To)	Duration (days)	Discipline	Area of training	Title	(Genera	al		SC/ST			Total		nsor ing Age ncy	t of fund receive d (Rs.)
							M	F	T	M	F	T	M	F	T		
On	F/ FW	10.7.15	1	Agronomy	Weed Manageme nt	Chemical weed management in rice				22	3	25	22	3	25	RKV Y	
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	RKV Y & NFS M	
On	F/ FW	6/6/15	1	Agronomy	Resource Conservati on Technologi es	Direct Seeded Rice				30	5	35	30	5	35	RKV Y	
Off	F/ FW	17/4/15 - 10/11/15	1	Agronomy	Seed Production	Seed production of Rice, Maize and Field pea				19 0	48	23 8	19 0	48	23 8	RKV Y	
Off	F/ FW	11/03/20 16	1	Agronomy	Weed Mngt	Scientific use of herbicide in Rice & other crops				18	2	20	18	2	20	ATM A	
On	F/FW	-	1	Horticuture	Nursery raising	Better nursery management				20	10	30	20	10	30	RKV Y	
off	F/FW	-	1	Horticuture	Nursery raising	Better nursery management				20	10	30	20	10	30	IWM P	_

off	F/FW	-	1	Horticuture	Training and pruning	Training and pruning of major fruit crop		30	20	50	30	20	50	IWM P	
Off	F/FW	-	1	Horticultur e	Layout of orchard	Layout and management of orchard		30	30	60	30	30	60	IWM P	
Off	F/FW	-	1	Horticultur e	Cultivation practices	Scientific cultivation of M orange		45	15	55	45	15	55	IWM P	
Off	F/FW	-	1	Horticultur e	Manageme nt of young plants	Canopy management in major fruit crops		50	40	90	50	40	90	RKV Y	
Off	F/FW	-	1	Horticultur e	Rejuvenati on	Rejuvenation of declining orchard		50	40	30	40	30	70	RKV Y	
Off	F/FW	-	1	Horticultur e	Cultivation practices	Scientific cultivation of M orange		30	30	60	30	30	60	RKV Y	
Off	F/FW	-	1	Horticultur e	Cultivation practices	Scientific cultivation of Kiwi		40	30	70	40	30	70	RD , Kha wza wl	
Off	F/FW	-	4	Horticultur e	Cultivation practices	Scientific cultivation of Ginger		21	35	25 0	21 5	35	25 0	RKV Y, NAB ARD , ATM A	

Off	RY	-	1	Horticultur e	Production technolog y	Winter vegetable cultivation				20	10	30	20	10	30	RKV Y	
Off	EP	-	1	Horticultur e	Manageme nt of citrus	Horticulture				10	10	20	10	10	20	IWM P	
Off	F and FW	24/8/201 5	1	Plant protection	IPM	Management of Insect pest and Diseases of Passion fruit				30		30	30		30	RKV Y	10,000/
Off	F and FW	9/10/15	1	Plant protection	IPM	IPM in paddy Ginger & cowpea				50		50	50		50	RKV Y	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	RKV Y	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	RKV Y	10,000/
off	EP	11/12/15	1	Plant protection	IPM	IPM in winter vegetables				19	1	20	19	1	20	RKV Y	20.000/
On	F/FW	20.04.20 15	1	Soil Science	Nutrient manageme nt	Balance fertilization	-	-	-	46	5	51	46	5	51	RKV Y	

On	F/FW	22.04.20 15	1	Soil Science	Soil amendment	Management of acidic soils		45	9	54	45	9	54	RKV Y	
Off	F/FW	1.05.201 5	1	Soil Science	Nutrient Manageme nt	Nutrient Management in Paddy		30	5	35	30	5	35	RKV Y	
Off	F/FW	17.06.20 15	1	Soil Science	Soil conservatio n	Different types of mulching methods		58	12	70	58	12	70	RKV Y	
Off	F/FW	7.07.201 5	1	Soil Science	Nutrient manageme nt	Nutrient use efficiency		10	3	13	10	3	13	RKV Y	
Off	F/FW	12.08.20 15	1	Soil Science	Production of organic inputs	Methods of vermiculture construction		15	-	15	15	-	15	RKV Y	
Off	F/FW	28.09.20 15	1	Soil Science	Fertilizer use efficiency	Methods of fertilizer applications		15	-	15	15	-	15	RKV Y	
Off	F/FW	1.10.201 5	1	Soil Science	Soil testing	Importance of soil testing		14	-	14	14	-	14	RKV Y	
On	RY	28.04.20 15	1	Soil Science	Soil health manageme nt	Soil solarisation		14	-	14	14	-	14	RKV Y	
Off	RY	10.11.20 15	1	Soil Science	Manageme nt of Agricultural crops	Macro and micro deficiency symptoms in Agricultural crops		16	1	17	16	1	17	RKV Y	

Off	RY	25.10.20 15	1	Soil Science	Mulching technique	Importance and benefits of mulching methods		13	3	16	13	3	16	RD	
Off	EP	16.02.20 15	1	Soil Science	Foliar fertilization	Foliar fertilization in fruit crops		15	ı	15	15	-	15	RKV Y	

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 2015-16

SI. No.		Topic	Date and duration						Р	articipa	nts					
	Extension Activity			No. of activities	G	General (1)			SC/ST		Of	ension ficial		Gr	and To	tal
					М	F	Т	M	F	T	M	F	Т	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,		7				280	60	340				280	60	340

		Garden pea								
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 on Maize	2	50	40	90		50	40	90
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 2015-16

A. SEED MATERIALS

Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ benefic		neficiaries
				General	SC/ST	Total
<mark>Maize</mark>	RCM 75	0.05	2500		10	10
	RCM 76	0.05	<mark>2500</mark>		<mark>20</mark>	20
Paddy	Shahsarang	0.2				
	Bhalum 3	0.2	4200		20	20
	Tamphaphou	0.2	10,000		<mark>40</mark>	<mark>40</mark>
	Maize	Maize RCM 75 RCM 76 Paddy Shahsarang Bhalum 3	Maize RCM 75 0.05 RCM 76 0.05 Paddy Shahsarang 0.2 Bhalum 3 0.2	Maize RCM 75 0.05 2500 2500 2500 Paddy Shahsarang 0.2 Bhalum 3 0.2 4200	Maize RCM 75 0.05 2500 RCM 76 0.05 2500 Paddy Shahsarang Bhalum 3 0.2 4200	Maize RCM 75 0.05 2500 10 20

A1. SUMMARY of Production and supply of Seed Materials during 2015-16

SI. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Nui	Number of recipient/ beneficiaries				
				General	SC/ST	Total			
1	CEREALS	0.70	192000		90	90			
	TOTAL	0.70	192000		90	90			

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	0.0045	2900		2	2
Spices	Chilli	King Chilli	0.027	2700		7	7
	Onion		0.035	3500		20	20
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 2015-16

SI. No.		Numbers (In Lakh)	Value (Rs.)	Nur	mber of recipient beneficia	ries
		General	SC/ST	Total		
1	Fruits	0.0045	2900			2
2	Spices	0.062	6200			27
3	VEGETABLES	0.05	5000			17
TOTAL						46

C. Production of Bio-Products during 2015-16

Major group/class	Product Name	Species	Qı	uantity	Value (Rs.)	Number of I	eficiaries	
			No	(qt)				
						General	SC/ST	Total
BIOAGENTS								

BIOFERTILIZERS						
1 Azolla	Azolla	Azolla spp	1		20	20
2 Vermi	Vermcompost	Eisenia foetida	5	6000	50	50

C1. SUMMARY of production of bio-products during 2015-16

SI. No.	Product Name	Species	Qua	ntity	Value (Rs.)	Number of Recip	Total number of Recipient	
			Nos	(kg)		General	SC/ST	beneficiaries
1	BIOAGENTS							
2	BIO FERTILIZERS							
3	BIO PESTICIDE							
	TOTAL							

D. Production of livestock during 2015-16

SI. No.	Type of livestock	Breed	Quantity (Nos) Kgs			Value (Rs.)	Number of	Recipient be	neficiaries
						General	SC/ST	Total	
	Cattle/ Dairy								
	Goat								

Piggery					
Poultry					
Fisheries					
Fodder grass (Hybrid Napier)	CO2 & CO3	5000 slips	-	15	15
Others (Specify)					
					_

D1. SUMMARY of production of livestock during 2015-16

SI. No.	Livestock category	Breed	Qua	ntity	Value (Rs.)	Number of Recip	Total number of Recipient	
	,		Nos	(kg)		General	SC/ST	beneficiaries
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 2015-16

(A) KVK News Lette	r ((Date of start,	Periodicity, numl	ber 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	 Paddy cultivation in Top soil bedded terrace Cultivation of French bean Var. Arka Anoop Economic viability of herbicide on weed management on maize Fodder management Co1 & Co2 Chinese method of Mushroom cultivation 	R. Vanlalduati Malsawmkimi Dr. OP singh S.K ahmed F. Zoramthari	100 100 100 100 100
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

- ldentification 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:

SI. 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	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
type	No. of Message	No. of Ben eficiary	No. of Message	No. of Benef iciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benefi ciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benefi ciary
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	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered
specify)			

	General	SC/ST	Total
Introduction of new variety or crop			
Introduction of Resource Conservation Technologies			
Distribution of seeds and planting materials			
A (1 (D)			
Any other (Please specify)			

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	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 o	f linkage with Al	ГМА						
	a) Is ATM	A implemented in	your district	Yes					
SI. No.		Programme			Nature of linkage	Remarks			
	1.		Joint visits		Financial support	•			
5.4	Give deta	ils of programm	es implemented under l	National Hor					
S. No.		Programme			Nature of linkage	Constraints if any			
			.						
5.5	Nature of		tional Fisheries Develop	oment Board					
S. No.		Programme			Nature of linkage	Remarks	Remarks		
6.	DEDEODA	MANCE OF INED	ASTRUCTURE IN KVK I	DUDING 201	F 46				
0.	PERFORM	MANCE OF INFR	ASTRUCTURE IN NVN	DUKING 201	J-10				
6.1	Performa	nce of demonstr	ation units (other than i	instructions	farm)				
SI. No		Demo Unit	Year of estd.	Area	Details of production	Amount (Rs.)	Remarks		
31. NO	L	Jeino Oint	rear or estu.	Alta	Details of production	Ainouilt (NS.)	Remarks		

		Variety	Produce	Qty.	Cost of inputs	Gross income	

6.2 Performance of instructional farm (Crops) including seed production

Name			a)	Details (of production		Amou	nt (Rs.)	Remarks
of the crop	Date of sowing	Date of harvest	Area (ha)	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				<u> </u>					
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	1	1	- 1			'	1	1	1
i.									
ii.									
Spices & Plantati	on crops	I		-1		1	l		ı
Ginger									T
Girigei									
i.	8.4 .2015	13.4.2016	0.75	Thinglaidum	Rhizome	15q	21000	31500	
Floriculture				1					
i.									
ii.									
Fruits									
i.									
Vegetables				1				1	
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.,)

SI.	Name of the Product	Qty	Атог	Remarks	
No.			Cost of inputs	Gross income	

6.4 Performance of instructional farm (livestock and fisheries production)

SI.		Name	Ω	Details of production		Amou	nt (Rs.)		
No	0	of the animal / bird / aquatics	Breed/ species	Type of Produce Qty.		Cost of inputs	Gross income	Remarks	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	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 stay	Duration of Training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
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

ltem	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. Recu	A. Recurring Contingencies					
1	Pay & Allowances	84.242		84.062		

10

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 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st 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