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	
KVK Yisemyong Post Box No-23 Mokokchung Nagaland-798601	0369-2225121	0369-2225121	kvkmokokchung@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 Nagaland Kohima	0370-2243116	0370-2243970	agrkvk@yahoo.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Pijush Kanti Biswas	Aoyimkum, Dimapur	9402343069	drpijushpckvk@g mail.com

1.4. Year of sanction:2003

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	Sr. Scientist & Head	Dr .Pijush Kanti Biswas	Sr. Scientist & Head	Horticulture	47800	38800+ 9000	15/4/13	Temporary	Gen.
2	Subject Matter Specialist	RenbomoNgullie	SMS (Horticulture)	Horticulture	28250	22850+ 5400	24.05.06	Temporary	ST
3	Subject Matter Specialist	Dr. Rongsensusang	SMS (Vety. &AH)	Vety& AH	28250	22850+ 5400	24.05.06	Temporary	ST
4	Subject Matter Specialist	Samuel Sangtam	SMS (Agronomy)	Agronomy	28250	22850+ 5400	24.05.06	Temporary	ST
5	Subject Matter Specialist	Bendangjungla.I	SMS (PB &G)	PB &G	28250	22850 + 5400	24.05.06	Temporary	ST
6	Subject Matter Specialist	RuyosuNakro	SMS (Extension)	Agri. Extension	27420	22020+ 5400	13.11.07	Temporary	ST
7	Subject Matter Specialist	Dr.Ruopfuselhuo Kehie	SMS (Entomology)	Entomology	27420	22020+ 5400	15.02.07	Temporary	ST
8	Programme Assistant	Moainla	ProgrammeAsstt.	Horticulture	19440	15240+ 4200	24.05.06	Temporary	ST
9	Computer Programmer	I.Tangitla	ProgrammeAsstt (Computer)	BLIS	19440	15240+ 4200	24.05.06	Temporary	ST
10	Farm Manager	Ilika v achumi	Farm manager	Horticulture	18870	14670+ 4200	19.02.07	Temporary	ST
11	Accountant / Superintendent	Meyatula	Office Supt-cum-Accountant	PU	19440	15240+ 4200	01.06.06	Temporary	ST
12	Stenographer	Imosangla	Jr. Steno-cum-Computer Operator	PU	13290	10890+ 2400	01.06.06	Temporary	ST
13	Driver	Supongmeren	Driver	Matriculate	10330	8330+ 2000	01.06.06	Temporary	ST
14	Driver	Jongpongyange	Driver	Matriculate	9180	7180+	01.03.10	Temporary	ST

		r				2000			
15	Supporting staff	Imkonglemla	Peon	Matriculate	8190	6890+ 1300	01.06.06	Temporary	ST
16	Supporting staff	Aotoshi	Chowkidar	Matriculate	7260	5960+ 1300	01.03.10	Temporary	ST

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) :23.9 ha

b. Total cultivable land with KVK (in ha): 18 ha

c. Total cultivated land (in ha): 6.5 ha

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

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	20.06.09	400	53.5 lakhs	28.09.07	400	completed
2.	Farmers Hostel	NA	NA	NA	NA	NA	NA	NA
3.	Staff Quarters (6)	ICAR	NA	200		2011	100	Completed
4.	Demonstration Units (2)	ICAR, Host & ATMA	2008 &2010	40	24,55,500 lakh	2008 &2013	-	Completed
5	Fencing	ICAR	NA	7500	3.5	2011	-	Completed
		ICAR	30.09.11	800mtr	17.0 lakhs	2011	-	Completed

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero	A/F	2016	8.0 Lakhs	210	Good

C) Equipments& AV aids

Name of the equipment	Year of Purchase	Cost (Rs.)	Present status
1. Computer	2004, 2016	70000	2004 unserviceable
2. Sound system	2005	60000	Good
3. Digital camera	2004	70000	Unserviceable
4. OHP	2004	5000	Good
5. Laptop	2008	37,000	Need replacement
6. Handycam	2008	16,000	Out of order

7. Photocopier	2010	1,20,000	Good
8. Handycam	2010	18,000	Good
9. Computer	2010	45,000	Good
10. LCD projector	2010	55,000	Good

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.	6/3/2017	Dr. Temjen Horticulte Officer Dr. Tia, VAS Supong JPB SARS Kika SARS Tiakala Announcer AIR Nuchet DPD ATMA Toshi. DSCO Sunep. DFO Amarjit Deputy Manager NABARD Yarba, Sapangpang Farmers Club Dr. Rongsensusang SMS Vety.& A.H Dr. Pijush Kanti Biswas Senoir Scientist and Head KVK Renbomo Ngullie SMS Horticulture Bendangjungla. I SMS Plant Breeding K.Samuel Sangtam SMS Agronomy Ruyosu Nakro SMS Extension Dr. RuopfuselhouKehie SMS Plant Protection	Approval of all the publications Presentation of activities, report and action plan	All the recommendations were refined and finalized for implementation of the programmes

**** 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.	Agriculture +Horticulture
2.	Agriculture + Veterinary
3.	Agriculture + Fishery

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

Sl. No	Agro-climatic Zone	Characteristics
1.	Mid Tropical hill Zone	**Hot and humid in the foot hills to moderate in the mid and high with heavy rainfall during summer**
		Moderate to extreme cold and dry in higher altitude during winter

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1.	Sandy clay loam	20-35% clay 28% silt 45% more sand pH 4-5	1,20,000
2.	Clay Loam	27-40% clay 20-45% sand Medium organic matter pH 4-5	40,000
3.	Forest Soil	Broad leaves rain forest, evergreen, temperate climate, high organic matter, dark brown soil with pH 4	50

.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	8294	18247	22
2.	WTRC Paddy	2420	7744	32
3.	Maize	575	1260	22
4.	Beans	98	132	13.5
5.	Pea	78	125	16
6.	Rapeseed/ Mustard	103	98	9
7.	Potato	158	917	65
8.	Tapioca	213	4579	215
9.	Orange	1739	59126	340
10.	Banana	1155	71610	620
11.	Litchi	970	24250	250
12.	Pineapple	820	13284	162
13.	Tomato	38	9880	2600
14.	Chilli	76	5099.6	671

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April	61.16	22.05	17.95	78.05
May	64.13	24.9	19.85	77.15
June	68.44	26.2	21.25	79.75
July	79.17	26.3	21.55	78.9
August	64.24	26.05	21.35	80
September	67.39	25.9	21	80
October	55.00	24.9	19.2	75
November	68.6	21.4	15.7	73
December	59.27	16.4	11.4	74
January	53.27	14.7	9.85	75
February	49.29	15.9	9.65	74
March	55.62	18.7	12.79	76

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

Category	Population	Production	Productivity
Cattle			
Crossbred	726	520 MT	3.5 lit/day lactation

			period of 270 days
Indigenous	265	1	120kg in 12 months
Buffalo	-	-	-
Sheep			
Crossbred	-	-	-
Indigenous	-	-	-
Goats	415	972 kg	10-14 kg per year
Pigs			
Crossbred	23900	1787.2 MT	110 kg in 12 months
Indigenous	-	-	-
Rabbits	-	-	-
Poultry			
Hens	-	-	-
Desi	156750	83.8MT	1 Kg in 6months
Improved	18000	10MT	1.5 kg in one month
Ducks	-	-	-
Turkey and others	-	-	-

Category	Area	Production	Productivity
Fish			
Marine			
Inland	408.50 ha	1534 MT	2581.5 kg/ha
Prawn			
Scampi			
Shrimp			

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		Ongpangkong (N)	Longkhum,ungma Chuchuyimpang	Paddy, Maize, Tapioca Ginger, Passion fruit Tea, Piggery, Poultry, weaving	Low productivity due to non adoption of improved technology, Majority of the farmers involved in cultivation of mix crops, lack of awareness on potentialities of floriculture, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, lack of proper infrastructure and marketing network	Create awareness on fallow management and jhum intensification, Cultivation of both kharif and rabi vegetables, production of passion fruit, ginger, tapioca, tea on commercial scale, popularization of floriculture, handloom and handicraft, promotion of infrastructures and marketing network

2		Opangkong (s)	Kinunger, Aliba	Paddy, Maize, Tapioca Cucumber, Passion fruit, Ginger, Orange	Low productivity due to non adoption of improved technology, Indiscriminate use of inorganic products in cucumber cultivation, lack of awareness on INM, lack of upgrade dairy breeds, inadequate availability of fodder , insect pest problem, lack of extension activities	Create awareness on fallow management and jhum intensification, Organic Off season cucumber cultivation, development of dairy and fodder crops, production of orange.
3		Kobulong	Sungratsu, Chami	Paddy, Tapioca, Maize Passion fruit, ginger, Banana, Piggery, Poultry, Dairy, Sericulture	Low productivity due to non adoption of improved technology, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, pest /disease problem in crops and silkworm, lack of processing unit and marketing, lack of spinning & weaving centers , lack of awareness on citronella cultivation, Inbreeding, disease and nutrition in piggery	Create awareness on fallow management and jhum intensification, To increase productivity of passion fruit, ginger and vegetables, promotion on spinning and weaving centre of sericulture, popularization of citronella cultivation, awareness on breeding programme, prevention and control of disease, scientific feeding management
4		Changtongya	Chuchuyimlang, Mongsenyimti	Paddy, Tapioca, Maize, Collocasia, banana, Orange, Pineapple Tea, piggery, Poultry, Fishery	Low productivity due to non adoption of improved technology, lack of awareness on value addition products, insect pest and disease problem, poor transportation and marketing facilities, lack of upgraded breeds and health centre	Create awareness on fallow management and jhum intensification, To increase production of banana, tapioca, orange, pineapple, development of tea, arecanut, betel vine, improvement of piggery, fishery and sericulture,
5		Mangkolemba	Wameken, Khar	Paddy, Maize, Tapioca, Orange, Pineapple, Arecanut, Tea, betel vine, fishery, cattle, piggery	Unavailability of HYV (lowland paddy), Lack of knowledge on improved method of cultivation , lack of processing unit, insect pest and disease problem, lack of awareness on INM, poor skill in fishery pond management, financial constraint to take up in commercial scale, inadequate availability of ploughing bullock, swine diseases	Promotion of HYV (paddy), production of oilseed and pulses, production of orange, pineapple, arecanut, tea and fish. Breeding programme for cattle and training of draught animals, prevention & control of swine diseases
6		Longchem	Saring, Nokpu	Paddy, Tapioca, Maize, colocassia, Arecanut, betel vine, cattle, piggery	Unavailability of HYV (lowland paddy), Lack of knowledge and awareness on improved method of cultivation on plantation crops, lack of processing unit, lack of awareness on INM, financial constraint for commercial cultivation, inadequate availability of ploughing bullock, swine diseases	Promotion of HYV (paddy), Commercial cultivation of arecanut, tea, rubber, betel vine, colocassia, orange, production of oilseeds and pulses, Breeding programme for cattle and training of draught animals, prevention & control of swine diseases

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
Horticulture	4	3	10	8	7	5	20	17
Agronomy	4	3	9	6	4	3	12	9
Animal husbandry	2	2	12	8	3	2	250	150
Plant protection	2	1	10	6	3	2	14	10
Plant breeding	3	2	6	4	3	2	6	6
Total	15	11	47	32	20	14	302	**192**

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers								
Rural youth								
Extn. Functionaries								
Total								

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

Note: Target set during last Annual Zonal 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	Vegetable production	Cabbage	Low yield due to poor adoption of suitable varieties	On Farm trial on cabbage var. BC 76	-	-	-	Field day, awareness programme Advisory service,	Seed, plant protection chemicals.
2	Vegetable production	Onion	Lack of awareness in proper spacing	Different spacing on yield of onion var. Nasik Red	-	-	-	Advisory service, Field day, awareness programme	Seed, plant protection chemicals.
3	Vegetable production	Tomato	Low yield in locally cultivated varieties	Performance trial on tomato var. KSP-1201	-	-	-	Advisory service, Field day,	Seed, plant protection chemicals.
4	Vegetable production	Cabbage	Lack of awareness in off season cabbage cultivation	-	FLD on Off season cabbage cultivation	-	-	Advisory service, Field day, awareness programme	Seed, plant protection chemicals.
5	Vegetable production	Chinese cabbage	Lack of awareness	-	Demonstration on Chinese cabbage (Napa)	-	-	Advisory service, Field day, awareness programme	Seed, plant protection chemicals.

6	Vegetable production	Broccoli	Lack of awareness in high value crops	-	Demonstration on Broccoli var. Green Magic	-	-	Advisory service, Field day, awareness programme	Seed, plant protection chemicals.
7	Vegetable production	Broccoli	Lack of awareness in using protected structures for vegetable production	-	Demonstration on cultivation of Broccoli under poyhouse	-	-	Advisory service, Field day, awareness programme	Seed, plant protection chemicals.
8	Spices production	Ginger	Use of unsuitable varieties	-	Demonstration on ginger variety Nadia	-	-	Advisory service, method demonstration, awareness programme	Seed, plant protection chemicals.
9	Integrated Pest Mgmt	Chilli	Chilli Thrips	Management of Chilli Thrips under protected Condition	-	Training on Management tactics on Insect Pest in Rabi season Vegetables	-	- Diagnostic visit - Method demonstration - Advisory services	- Supply of Insecticides
10	Integrated Pest Mgmt	Pea	Pea Aphids	-	Integrated Management of Pea Aphids	-	-	- Field visit - Method demonstration - Advisory services	- Supply of Seed - Supply of Insecticides
11	Product evaluation (Efficacy)	Potato	White grub	-	Efficacy of Imidacloprid seed treatment against White grub in Potato	Management of Insect Pest in Potato	-	- Field visit - Advisory services	- Supply of Tuberlets - Supply of Insecticides

12	Improvement of piggery production	Piggery	Inferior performance of existing stock	Hampshire cross Pig	-	Management of exotic cross breed pigs	-	Farm visit Ration formulation Health care advise	piglets
13	Feed Management	Poultry	High Cost of concentrate Feed	Supplementation of Quail Ration with Dried Azolla	-	Cultivation and drying of Azolla	-	Field Visits	Silpaulin heet for ponds, azolla culture
14.	Pulse production	Soybean	Low yield in local varieties	Performance trial on Soybean var.DSB-23-2	-	-	-	Field visits, field day, awareness programme, advisory services	Seeds , plant protection chemicals.
15	Vegetable production	Pea	Use of low yielding varieties	Performance trial on Pea var. RE-10	-	-	-	Field visits, field day, awareness programme, advisory services	Seeds , plant protection chemicals.
16	Nursery management	Tomato	Poor management in nursery raising	-	Demonstration on nursery management in Tomato var. Megh-2	Care and management in Tomato nursery		Field visits, awareness programme, advisory services. Method demonstration. leaflets	Seeds , plant protection chemicals
17.	Vegetable production	Pea	Use of low yielding varieties	-	Demonstration on Pea var. Arkel			Field visits, advisory services. Method demonstration. Field day.	Seeds , plant protection chemicals
18.	Cereals production	Paddy	Use of low yielding varieties	Performance trial on paddy				Field visits, advisory services.	seeds

19	Cereals production	Paddy	Use of low age old varieties	Performance trial on upland paddy				Field visits, advisory services.	seeds
20.	Pulse production	Soybean	Use of low age old varieties		Demonstration on Soybean JS-335			Field visits, advisory services. Method demonstration. Field day.	Seeds , plant protection chemicals
21.	Cereals production	Paddy	Use of low age old varieties		Demonstration on Paddy CAU-1			Field visits, Advisory services. Method demonstration. Field day.	Seeds , plant protection chemicals
22.	Pulse production	Pea	Use of low age old varieties		Demonstration on Pea var. Arkel			Field visits, advisory services. Method demonstration. Field day.	Seeds , plant protection chemicals

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	2									2
Seed / Plant production										
Weed Management										
Integrated Crop Management			1		1				1	
Integrated Nutrient Management										

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

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

A.2. Abstract of the number of technologies **refined*** in respect of crops/enterprises

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

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

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

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

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

A.5. Results of On Farm Testing

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	Performance trial on cabbage	Low yield in locally cultivated varieties	BC 76	Cabbage	3	Demo Local Pl. ht. (cm) : 32.1 30.5 Head dia.(cm) : 16.8 15.2 Head wt (gm) : 715 655 Yield/ha (t) : 28.8 24.5		Increase area for commercial production	NA
2	Effect of spacing on yield of onion	Lack of awareness in proper spacing	Nasik Red	Onion	2	Spacing (cm) : 20x10 30x15 Pl. height(cm) : 32.06 41.6 No. of leaves /plant: 6.11 9.67 Yield/ha (T) : 17.69 9.51		Spacing of 20x10cm may be recommended for better production	NA
3	Performance trial on Tomato	Low yield in locally cultivated varieties	HSP-1201	Tomato	3	Demo Local Pl. ht. (cm) : 32.1 30.5 No. of fruit/Plt : 16.8 14.2 Fruit wt (gm) : 615 412 Yield/ha (t) : 26.8 22.5			NA

4	Management of Chilli Thrips under protected Condition	Severe infestation of Chilli Thrips	- Application of neem cake 250 kg/ha to bed while planting and repeat after 30 days. - Spray of acephate (1.0g/l) or fipronil (1ml/l) or ethofenprox (1ml/l) in rotation.	Chilli	2	Infestation Percentage : Treated Plot (T_1) : i.30 DAT – < 5% ii.45 DAT – 11.5% iii. 60 DAT –16 % Local Check(T_0) : i.30 DAT – 12.5% ii.45 DAT – 23% iii.60 DAT – 35%	Significant reduction on Thrips infestation and Enhance the crop yield	Spraying of acephate (1.0g/l) at 45-50 days of the crop age effectively controls further multiplication of Chilli Thrips.	1.41 : 1
5	Performance of Hampshire cross Pig in Mokokchung	Inferior performance of existing swine stock	Hampshire cross Pig	Piggery	4	Ongoing	-	-	-
6	Azolla Meal Supplementation of Quail Ration	High cost of feed	Azolla Meal Supplementation	Poultry	4	Ongoing	-	-	-
7.	Performance trial on Soybean var.DSB-23-2	Low yield in local varieties	DSB-23-2	Soybean	2	Pl. ht. (cm) : 56.2 Seeds/pod: 2.42 Yield/ha (Q) : 10.1	Less pest infestation	-	1:2.01

8.	Performance trial on Pea var. RE-10	Use of low yielding varieties	RE-10	Pea	3	length of pod(cm) : 8.8 Seeds/pod: 8.6 Yield/ha (Q) : 12.3	-	-	-
9	Performance trial on paddy	Least cultivation of scented and high value variety	Pusa basmati - 1509	Lowland paddy	3	Pusa basmati - 1509 Pt.ht-108cm Panicle lenght-27.5cm Eff. tiller- 17 Yield - 44.5qt/ha	Higher yield than existing varieties. Higher value, short duration but non availability of seeds.	-	3:1
10	Performance trial on upland paddy	Use of age old variety	Inglongkiri	Upland Paddy	3	Inglongkiri Pt.ht-82 cm No. of grains/panicle-102 Eff. tiller- 7.25 Yield - 13.38qt/ha	Poor growth performance and not suitable to the area for cultivation	Require more in-depth study according to location specific	-

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

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

3.2 Achievements of Frontline Demonstrations during 2016-17

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

List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Tomato	Cultivation of hybrid tomato varieties	3	5	2.5
2	Pea	Integrated Management of Pea Aphids : Application of Carbofuran @ 30 kg/ha in furrows at the time of sowing Spraying of Dimethoate @ 0.03% or 0.1% malathion to reduce the attack.	2	4	2
3	Potato	Efficacy of Imidacloprid seed treatment against White grub in Potato	3	6	3
4	Pea	Azad	3	14	4
5	Maize	HQPM-1	2	15	3

**** 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.	Cabbage	Vegetable production	Summer Queen	Kharif 2016	2.0	1.5	4	-	4	-	Rainfed			
2	Chinese cabbage	Vegetable production	Napa	Rabi 2016	2.0	1.25	4	-	4		Rainfed			
3	Broccoli	Vegetable production	Green Magic	Rabi 2016	2.0	1.5	3	-	3		Rainfed			
4	Broccoli	Vegetable production	Green Magic	Rabi 2016	1.5	1.0	2	-	2		Rainfed			
5	Ginger	Spices production	Nadia	Kharif 2016	2.0	2.0	4	-	4		Rainfed			
5	Potato	Tuber crop production	HPS II/67	Rabi 2016	2.0	1.5	3		3		Rainfed			
6	Pea	IPM	Integrated Management of Pea Aphids : -Application of Carbofuran @ 30 kg/ha in furrows at the time of sowing -Spraying of Dimethoate @ 0.03% or 0.1% malathion to reduce the attack.	*Rabi*, 2016	2	2	4	-	4	-	Rainfed -Clay Sandy Loam	-	-	-
7	Potato	Product evaluation (Efficacy)	Efficacy of Imidaclopri d seed treatment against	*Rabi*, 2016	3	3	6	-	6	-	- Rainfed -Clay Sandy	-	-	-

			White grub in Potato								Loam			
8	Tomato	Nursery management	Megha-2	Kharif 2016	2	2	4	-	4	-	Rainfed	-	-	-
9	Pea	Pulses production	Arkel	Rabi 2016-17	3	2	4	-	4	Lack of irrigation	Rainfed	-	-	-
10	Paddy	Increase in production and productivity	CAU R-1	Kharif, 2016	3	3	8	-	8	-	Rainfed, Silt loam, 450-800msl	-	9.2 kg/ha	129 kg/ha
11	Soyabean	Seed production	JS-335	Kharif 2016	2	2.5	8	-	8	-	Rainfed, siltloam, 750-1100msl	-	8.9 kg/ha	136 kg/ha
12	Pea	Seed production	Arkel	Rabi 2016	-	2	4	-	4		Rainfed, silt loam, 800-1200msl	-	9.1kg/ha	147 kg/ha

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	Cabbage	Vegetable production	2.0	216	179.6	16.85	220	194	-	-	64500	145000	80500	2.25	52800	97800	45000	1.85
2	Chinese cabbage	Vegetable production	1.5	165	-	-	177	169	-	-	46000	115500	69500	2.51	-	-	-	-
3	Ginger	Spices production	2.0	219	193	11.87	226	201	-	-	64350	153300	88950	2.38	48400	77200	28800	1.6
4	Pea	IPM	2	11.2	8.75	28%	11.9	9.6	Infestation Percentage : 30 DAS – 8.5% 45 DAS – 16%	Infestation Percentage : 30 DAS - 15.2% 45 DAS - 22.7%	14,670	27,780	13,110	1.89:1	13,260	10,870	12,934	1.82:1
5	Potato	Product evaluation (Efficacy)	3	18.7	16.75	11%	19.8	17.7	Infestation Percentage : 30 DAP – 4% 40 DAP – 8.6% 50 DAP – 12.8%	Infestation Percentage : 30 DAP – 11.5% 40 DAP – 17% 50 DAP – 26%	19,290	34,580	15,290	1.79:1	17,980	31,420	13,440	1.75:1
6.	Tomato	Nursery management	2	298	178	40.2	298	201	Germination rate=98% Damping	Germination rate=	80,000	298000	218000	3.7:1	70000	178000	108000	2.5:1

									off infestation rate=10%	75% Damping off infestation rate= 50%							
7.	Pea	Pulses production	2	11.4	9.2	24.1	11.5	11.3	length of pod(cm) : 8.5 Seeds/pod : 8.2	length of pod(cm) : 7.2 Seeds/pod=6.3	19850	34260	14410	1.72:1	18750	27600	8850	1.47:1
8.	Paddy	Increase in production and productivity	3	36	28	28.6	37.5	34.3	-	-	18500	28230	9730	1.53:1	16800	20830	4030	1.24:1
9.	Soyabean	Increase in production and productivity	2.5	8.7	7.3	19.2	8.9	8.5	-	-	12000	33300	21300	2.81	11000	27700	17600	2.52:1
10	Pea	Increase production and produc	2	9.45	8.1	16.67	9.8	9.1	-	-	15000	42525	27525	2.8:1	14000	36450	22450	2.6:1

		tivity																

***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	7	10/8/16,18/8/16,24/9/16,9/12/16, 18/1/17,9/2/17 and16/1/17		172	172	
2	Farmers Training	9	1/4/16, 13/6/2016, 14/6/16, 11/4/16,3/12/16,26/9/16 17/8/2016,7/9/16,14/9/16, ,		198	198	
3	Media coverage	2			-	-	
4	Training for extension functionaries	2	11/5/16,15/9/16		58	58	
5	Any other (Pl. specify)						
	Total	**13**			**735**	**735**	

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	
1	Piggery	Health Care	Deworming	60	60	135	-	-	-	-	-	-	-	-	-	-	-	-	-	Economics not assessed due to variation in age group
2	Piggery	Nutrition	Mineral Mixture supplementation	30	30	80	-	-	-	-	-	-	-	-	-	-	-	-	-	Economics not assessed due to variation in age group

**** 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., mushro	Thematic area	Name of Technology	No. of farmers	No. of unit	Major Performance parameters / indicators	% change in the param	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
								Demo	Check	G	G	N	B	GC	GR	N	BC	

	om, vermicompost, apiculture etc.				**s**	**Demo**	**Check**	**eter**			**C****	**R****	**R****	**C R****			**R**	**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

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**

1	Broccoli	Green Magic	1.5	3	119	103	13.44	122	110	75000	212200	137200	2.83	71100	115000	43900	1.62
2	Broccoli	Green Magic	1.0	2	123	113.4	7.8	124.3	115	76850	231200	154350	3.0	73600	207000	133400	2.81

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 Campusincluding Sponsored On CampusTraining 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)	SponOn* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	(x+y)
I. Crop Production																						
Weed																						

Management																					
Resource Conservation Technologies	1		1							11		13		24		11		13		24		24
Cropping Systems																					
Crop Diversification																					
Integrated Farming																					
Water management																					
Seed production																					
Nursery management																					
Integrated Crop Management																					
Fodder production																					
Production of organic inputs																					
II. Horticulture																					
a) Vegetable Crops																					
Production of low volume																					

and high value crops																					
Off-season vegetables																					
Nursery raising																					
Exotic vegetables like Broccoli																					
Export potential vegetables																					
Grading and standardization																					
Protective cultivation (Green Houses, Shade Net etc.)																					
b) Fruits																					
Training and Pruning																					
Layout and Management of Orchards																					
Cultivation of Fruit																					
Management of young																					

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

Production and Management technology																					
Processing and value addition																					
e) Tuber crops																					
Production and Management technology																					
Processing and value addition																					
f) Spices																					
Production and Management technology																					
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology and value addition																					

III Soil Health and Fertility Management																					
Soil fertility management																					
Soil and Water Conservation																					
Integrated Nutrient Management																					
Production and use of organic inputs																					
Management of Problematic soils																					
Micro nutrient deficiency in crops																					
Nutrient Use Efficiency																					
Soil and Water Testing																					
IV Livestock Production and Management																					
Dairy Management																					
Poultry Management	1		1							10		15		25		10		12		25		25

Piggery Management																					
Goatary Management	1		1							10		5		15		10		5		15		15
Disease Management																					
Feed management																					
Production of quality animal products																					
V Home Science/Women empowerment																					
Household food security by kitchen gardening and nutrition gardening																					
Design and development of low/minimum cost diet																					
Designing and development for high nutrient efficiency diet																					

Minimization of nutrient loss in processing																					
Gender mainstreaming through SHGs	1		1							10		15		25		10		15		25		25
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	1		1							10		15		25		10		15		25		25
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	5		5							51		63		114		51		63		114		114

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

Thematic area	No. of Courses/ prg.			Participants																		Grand Total
				General						SC/ST						Total						
	Off	Sp Off*	Total	Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
Weed Management	1		1							7		9		16		7		9		16		16
Resource Conservation Technologies	3		3							25		38		63		25		38		63		63
Cropping	3	1	4							51	12	35	9	86	19	51	12	35	9	86	19	105

Systems																						
Crop Diversification	3		3							25		35		60		25		35		60		60
Integrated Farming	3		3							18		29		47		18		29		47		47
Water management	1		1							8		9		17		8		9		17		17
Seed production	1		1							7		15		22		7		15		22		22
Nursery management																						
Integrated Crop Management	1		1							6		5		11		6		5		11		11
Fodder production																						
Production of organic inputs	1		1							9		14		23		9		14		23		23
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	1		1							1		13		14		1		13		14		14
Off-season vegetables	1		1							10		14		24		10		14		24		24

Nursery raising	2		2							22		23		45		22		23		45		45
Exotic vegetables like Broccoli																					
Export potential vegetables	1		1							10		12		22		10		12		22		22
Grading and standardization																					
Protective cultivation (Green Houses, Shade Net etc.)																					
b) Fruits																					
Training and Pruning																					
Layout and Management of Orchards																					
Cultivation of Fruit																					
Management of young plants/orchards																					
Rejuvenation of old orchards																					

Export potential fruits																					
Micro irrigation systems of orchards																					
Plant propagation techniques																					
c) Ornamental Plants																					
Nursery Management																					
Management of potted plants																					
Export potential of ornamental plants																					
Propagation techniques of Ornamental Plants																					
d) Plantation crops																					
Production and Management technology																					
Processing and	1		1							10		11		21		10		11		21		21

value addition																					
e) Tuber crops																					
Production and Management technology	1		1							10		13		23		10		13		23		23
Processing and value addition																					
f) Spices																					
Production and Management technology	2		2							20		29		49		20		29		49		49
Processing and value addition	2		2							8		42		50		8		42		50		50
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology and value addition																					
III Soil Health and Fertility Management																					
Soil fertility management																					

Soil and Water Conservation																					
Integrated Nutrient Management																					
Production and use of organic inputs																					
Management of Problematic soils																					
Micro nutrient deficiency in crops																					
Nutrient Use Efficiency																					
Soil and Water Testing																					
IV Livestock Production and Management																					
Dairy Management																					
Poultry Management																					
Piggery Management	4		4							70		35		105		70		35		105		105
Rabbit																					

Management																						
Disease Management																						
Feed management																						
Production of quality animal products	1	1	2							20	15	5	0	25	15	20	15	5	0	25	15	40
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	3		3							45		39		84		45		39		84		84
Integrated Disease Management																					
Bio-control of pests and diseases	3		3							52		32		84		52		32		84		84
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	1		1							3		14		17		3		14		17		17
Organic manures production	1		1							19		13		32		19		13		32		32
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	1		1							12		13		25		12		13		25		25
Group dynamics	1		1							15		10		25		15		10		25		25
Formation and Management of SHGs	1		1							10		15		25		10		15		25		25
Mobilization of social capital	2		2							26		24		50		26		24		50		50
Entrepreneurial development of farmers/youths																					
WTO and IPR issues																					
XI Agro-forestry																					

Production technologies																					
Nursery management																					
Integrated Farming Systems																					
TOTAL	**46**	**2**	**48**							519	27	546	9	1065	36	519	27	546	9	1065	36	1101

(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
				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)	(x + y)
Mushroom Production	1		1							15		4		19		15		4		19		19
Bee-keeping	1		1							17		6		23		17		6		23		23
Integrated farming	1		1							10		5		15		10		5		15		15
Seed																						

production																					
Production of organic inputs																					
Integrated Farming																					
Planting material production	1		1							12		9		21		12		9		21		21
Vermi-culture																					
Sericulture																					
Protected cultivation of vegetable crops																					
Commercial fruit production																					
Repair and maintenance of farm machinery and implements																					
Nursery Management of Horticulture crops	1		1							12		9		21		12		9		21		21
Training and pruning of																					

orchards																						
Value addition																						
Production of quality animal products	1		1							5		10		15		5		10		15		15
Dairying																						
Sheep and goat rearing																						
Quail farming	1		1							10		10		20		10		10		20		20
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						

Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing	2		2							18		27		45		18		27		45		45
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts	1		1							10		15		25		10		15		25		25
TOTAL	**10**		**10**							**109**		**95**		**204**		**109**		**95**		**204**		**204**

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

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

Thematic area	No. of Courses/ Prog.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	

Mushroom Production																					
Bee-keeping																					
Integrated farming	1		1							3		9		12		3		9		12		12
Seed production																					
Production of organic inputs																					
Integrated Farming	2		2							35		20		55		35		20		55		55
Planting material production	1		1							8		14		22		8		14		22		22
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	1		1							15		15		30		15		15		30		30
Quail farming																					
Piggery																					
Rabbit farming																					
Poultry production	1		1							12		8		20		12		8		20		20
Ornamental fisheries																					
Para vets																					
Para extension workers																					

Composite fish culture																					
Freshwater prawn culture																					
Shrimp farming																					
Pearl culture																					
Cold water fisheries																					
Fish harvest and processing technology																					
Fry and fingerling rearing																					
Small scale processing																					
Post Harvest Technology																					
Tailoring and Stitching																					
Rural Crafts																					
TOTAL	**6**		**6**							73		66		139		73		66		139		139

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
				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)	(x + y)
Productivity enhancement in field crops																						
Integrated Pest Management	1		1							21		12		33		21		12		33		33
Integrated Nutrient management																						
Rejuvenation of old orchards																						
Protected cultivation																						

technology																					
Formation and Management of SHGs	1									9		6		15		9		6		15		15
Group Dynamics and farmers organization																					
Information networking among farmers																					
Capacity building for ICT application	1		1							8		6		14		8		6		14		14
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	**3**		**3**							38		24		62		38		24		62		62

3.3.6. Achievements on Training of <u>Extension Personnel</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes

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

Thematic area	**No. of Courses/ prog.**			**Participants**																		**Grand Total**
				General						**SC/ST**						**Total**						
				Male		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		
	Off	**Sp Off***	**Total**	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	

Productivity enhancement in field crops	1		1							32		20		52		32		20		52		52
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	1		1							15		5		20		15		5		20		20
Livestock feed and fodder production																					
Household food security	1		1							16		6		22		16		6		22		22
Women and Child care																					
Low cost and nutrient efficient diet designing																					
Production and use of organic inputs	1		1							12		10		22		12		10		22		22
Gender mainstreaming through SHGs	1		1							12		13		25		12		13		25		25
TOTAL	**5**		**5**							**87**		**54**		**141**		**87**		**54**		**141**		**141**

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

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Extension	Capacity Building	Gender mainstreaming through SHGs	14/4/16	1	KVK	**Farmer & Farm women**				10	15	25	10	15	25
Animal Science	Poultry production	Poultry management	13/6/16	1	KVK	**Farmer & Farm women**				10	15	25	10	15	25
Horticulture	Vegetables production	Homestead gardening	14/6/16	1	KVK	**RY**				10	5	15	10	5	15
GPB	Nursevry management	Training on cutivational practices and sapling production of brinjal	18/7/16	1	KVK	**RY**				12	9	21	12	9	21
GPB	Conservation	Post harvest management in jhum paddy	7/9/16	1	KVK	**Farmer & Farm women**				11	13	24	11	13	24

Plant protection	IPM	Post harvest Management in Cereals and Pulses	15/9/16	1	KVK	**EP**				21	12	33	21	12	33
Extension	Capacity Building	Entrepreneurial development of youth	15/9/16	1	KVK	**RY**				10	15	25	10	15	25
Extension	Capacity Building	Formation and management of SHGs	6/10/16	1	KVK	**EP**				9	6	15	9	6	15
GPB	Nursery management	Chilli nursery management	7/10/16	1	KVK	**RY**				12	9	21	12	9	21
Animal Science	Livestock production	Livestock products technology options for Income generation	6/12/16	1	KVK	**RY**				5	15	20	5	15	20
Extension	Capacity Building	Capacity building for using of ICT tools	8/12/16	1	KVK	**EP**				8	6	14	8	6	14
Extension	Capacity Buildi	Orientation on few potential agri- allied	19/1/17	1	KVK	**RY**				14	12	26	14	12	26

	ng	micro enterprises														
Extension	Capacity Building	Importance and role of 'Farmers groups' in addressing local agricultural issues	22/2/17	1	KVK	**Farmer & Farm women**				10	15	25	10	15	25
Animal Science	Quail Farming	Quail Farming	23/2/17	1	KVK	**RY**				10	10	20	10		
Plant protection	Mushroom production	Hands on training on cultivation and management of Oyster mushroom	21/3/17	1	KVK	**RY**				4	15	19	4	15	19
Plant protection	Bee keeping	Scientific Apiary Management Techniques	28/3/17	1	KVK	**RY**				17	6	23	17	6	23
GPB	Value Addition	Value addition in fruits and vegetables	30/3/17	1	KVK	**RY**				4	15	19	4	15	19

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	Crop production	Cultivation practices of upland jhum paddy	1/4/16	1	Longsa	**Farmer & Farm women**				20	11	31	20	11	31
Agronomy	Crop production	Cultivation practices of upland jhum paddy	2/4/16	1	Khensa	**Farmer & Farm women**				20	11	31	20	11	31
Horticulture	Production and Management technology	Scientific cultivation of chili	13/4/16	1	Longpa	**Farmer & Farm women**				10	14	24	10	14	24
Animal Science	Livestock products	Clean Milk Production	15/4/16	1	Ungma	**Farmer & Farm women**				20	5	25	20	5	25
Plant Protection	Organic Farming	Vermitechnology for organic Farming – a practical approach	16/4/16	1	Longsa	**Farmer & Farm women**				19	13	32	19	13	32

GPB	Capacity building	Gender mainstreaming and women empowerment	21/4/16	1	Mokokchung	**EP**				12	13	25	12	13	25
GPB	Production of Planting Material	Income generation through production of planting materials – tomato, basil and chilli	11/5/16	1	Chungtia	**RY**				8	14	22	8	14	22
Agronomy	Crop production	Cultivation practices Soybean	16/5/16	1	DAO's Office	**EP**				16	6	22	16	6	22
Animal Science	Piggery	Piglet Scour	17/5/16	1	Settsu	**Farmer & Farm women**				10	15	25	10	15	25
Extension	Capacity Building	Mobilization of social capital in villages	17/5/16	1	Chungtia	**Farmer & Farm women**				13	12	25	13	12	25
Animal Science	Piggery	Advances on Swine Nutrition	7/6/16	1	DAO's Office	**EP**				10	5	15	10	5	15
Agronomy	Pulse Production	Cultivation practices Soybean	9/6/16	1	Mopungchuket	**Farmer & Farm women**				10	12	22	10	12	22
Agronomy	Comp	Vermicompo	14/6/16	1	Ungma	**Farmer & Farm women**				3	14	17	3	14	17

	osting	sting														
Plant Protection	Organic Farming	Vermitechnology for organic Farming – a practical approach	17/6/16	1	Yisemyong	**Farmer & Farm women**				4	17	21	4	17	21
Agronomy	Crop production	Cultivation of lowland paddy	21/6/16	1	Longjang	**Farmer & Farm women**				6	5	11	6	5	11
Extension	Capacity Building	Information networking among farmers	24/6/16	1	Aliba	**Farmer & Farm women**				15	10	25	15	10	25
GPB	Value Addition	Value addition in chili and ginger	27/6/16	1	Sabangya	**Farmer & Farm women**				0	21	21	0	21	21
GPB	Value Addition	Value addition in pineapple	8/7/16	1	Mamengtong	**Farmer & Farm women**				10	11	21	10	11	21
Plant protection	IPM	Management of Insect Pests and Disease in Cardamom	16/7/16	1	Chuchuyimlang	**RY**				17	6	23	17	6	23
Plant protection	IPM	Integrated Pest & Rodent Management	18/7/16	1	Unger	**Farmer & Farm women**				19	13	32	19	13	32

		in Paddy														
Animal Science	Livestock production	Awareness on Livestock Production and Climate Change	20/7/16	1	Mokokchung Town	**RY**				15	15	30	15	15	30
Agronomy	Pulse Production	Cultivation practices Soybean	22/7/16	1	Kinunger	**Farmer & Farm women**				7	9	16	7	9	16
Agronomy	Crop production	Cultivation practices hybrid maize	25/7/16	1	Aliba	**Farmer & Farm women**				5	7	12	5	7	12
Agronomy	Water management	Water management in crop	4/8/16	1	Kinunger	**Farmer & Farm women**				8	9	17	8	9	17
Horticulture	Value Addition	Post-harvest handling of chilli	6/8/16	1	Longsa	**Farmer & Farm women**				8	13	21	8	13	21
Animal Science	Poultry Production	Small Scale Intensive Poultry Production	9/8/16	1	Yisemyong	**RY**				12	8	20	12	8	20
Extension	Capacity Building	Farm leadership – its importance and role intechnology adoption and	10/8/16	1	Longmisa	**Farmer & Farm women**				12	13	25	12	13	25

		dissemination														
Plant protection	IPM	Biological Management of Insect Pest in Paddy	17/8/16	1	Akhoya	**Farmer & Farm women**				18	15	33	18	15	33
Horticulture	Nursery Management	Vegetable nursery and management	13/9/16	1	Settsu	**Farmer & Farm women**				8	14	22	8	14	22
GPB	Nursery Management	Tomato nursery management	20/9/16	1	Watiyim	**Farmer & Farm women**				14	9	23	14	9	23
Horticulture	Vegetables production	Package of practices winter vegetables	22/9/16	1	Mokokchung Village	**Farmer & Farm women**				1	13	14	1	13	14
Agronomy	Pulse production	Training cum Demonstration on Pea cultivation	22/9/16	1	Longmisa	**Farmer & Farm women**				8	6	14	8	6	14
Agronomy	Crop rotation	Training on sequential cropping	28/9/16	1	Ungma	**Farmer & Farm women**				11	13	24	11	13	24
Agronomy	Pulse produ	Training cum Demonstration on rabi	30/9/16	1	Marepkong	**RY**				3	9	12	3	9	12

	ction	pulses														
Animal Science	Piggery	Piglet Scour	12/10/16	1	Longkong	**Farmer & Farm women**				15	10	25	15	10	25
Agronomy	Pulse production	Training Pea cultivation	13/10/16	1	Mopunchuket	**Farmer & Farm women**				9	12	21	9	12	21
Plant protection	Post-harvest management	Post-harvest management of Maize against Stored pests	13/10/16	1	Mekuli	**Farmer & Farm women**				18	9	27	18	9	27
Horticulture	Vegetables production	Improved production technologies of winter vegetable crops	14/10/16	1	Mopunchuket	**Farmer & Farm women**				10	14	24	10	14	24
Agronomy	Oilseed Production	Training cum Demonstration on oilseeds cultivation	19/10/16	1	Yimchalu	**Farmer & Farm women**				7	15	22	7	15	22
GPB	Post-harvest management	Post harvest management in pulses	25/10/16	1	Chuchuyimlang	**Farmer & Farm women**				10	13	23	10	13	23
Horticulture	Tuber Produ	Potato production through TPS	14/11/16	1	Longkhum	**Farmer & Farm women**				10	13	23	10	13	23

	ction	tuberlets														
GPB	Post harvest management	Traditional storage practices	15/11/16	1	DAO's Office	**EP**				12	10	22	12	10	22
Agronomy	Pulse production	Training on pulse cultivation as second crop	16/11/16	1	Aliba	**Farmer & Farm women**				6	13	19	6	13	19
Extension	Capacity Building	Orientation on proper record keeping in SHGs	17/11/16	1	Mopungchuket	**Farmer & Farm women**				10	15	25	10	15	25
Plant Protection	Integrated Pest Management	Bio-intensive Integrated Pest Management in Cole Crops	17/11/16	1	Khensa	**Farmer & Farm women**				17	6	23	17	6	23
Agronomy	Composting	Training on Hot compost preparation	18/11/16	1	Yimchalu	**Farmer & Farm women**				9	14	23	9	14	23
Animal Science	Piggery	Importance of Minerals, Vitamins and Deworming in Pigs	25/11/16	1	Salulamang	**Farmer & Farm women**				10	13	23	10	13	23
Plant Protection	Integrated Pest	Management of insect pest	6/12/16	1	Khensa	**Farmer & Farm women**				9	17	26	9	17	26

	Manag ement	in Potato														
Agronomy	Post harvestmanagent	Post harvest management of Paddy	7/12/16	1	Salulamang	**Farmer & Farm women**				10	19	29	10	19	29
Plant Protection	Integrated Pest Management	Training on Management tactics on Insect Pest in RabiSeason Vegetables	8/12/16	1	Longkhum	**RY**				18	14	32	18	14	32
Animal Science	Piggery	Scientific Swine Breeding	18/1/17	1	Yisemyong	**Farmer & Farm women**				15	10	25	15	10	25
GPB	Vegetables Production	Urban gardening	20/1/17	1	DAO's Office	**NGO Personnel/**(civil societies)				1	11	12	1	11	12
Horticulture	Spice Production	Training on organic farming of ginger and large cardamom	20/1/17	1	Longkhum	**Farmer & Farm women**				10	15	25	10	15	25
Extension	Capacity Building	Mobilization of Social capital in village		1		**Farmer & Farm women**				13	12	25	13	12	25

Agronomy	Pulse production	Cultivation of Pulses (French Bean)		1		**Farmer & Farm women**				9	10	19	9	10	19
Horticulture	Vegetables production	Package of practices of cucurbits		1		**Farmer & Farm women**				10	12	22	10	12	22

(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**	
Vegetable	13-18 June	6	Homestead farming	Vermicomposting				4	8	12	4	8	12					
Mushroom	13-15 June	3	Homestead farming	Hands on training on cultivation				6	11	17	6	11	17					

				and management of Oyster Mushroom														
Goatery	9-13 August	6	Homestead farming	Starting and management of a Goatery farm.				10	5	15	10	5	15					

*training title should specify the major technology /skill transferred

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

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From-To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
Off	**F/ FW**	15/4/16	1	Agronomy	Crop production	Cultivation of Maize (HQPM)				12	9	21	12	9	21	DAO office, Mkg	6000
Off	**F/ FW**	14/9/16	1	Animal Science	Livestock production	Hygienic Meat Handling				15	0	15	15	0	15	Mokokchung Town	6000
Total	**2**		**2**							**27**	**9**	**36**	**27**	**9**	**36**		**12000**

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, KisanMela, 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**			**50**				**146**	**139**	**285**				**146**	**139**	**285**
2.	Diagnostic visit			**79**				**142**	**153**	**395**				**142**	**153**	**395**
3.	Field day			**2**				**38**	**49**	**87**				**38**	**49**	**87**
4.	Group Discussion			**22**				**237**	**202**	**439**				**237**	**202**	**439**
5.	KishanGosthi															
	KishanMela															
6.	Film show															
7.	SHG formation															
8.	Exhibition			1												
9.	Scientists visit to farmers fields			33				83	48	131				83	48	131
10.	Plant/ Animal Health camp															
11.	Farm science club															
12.	Ex-trainee Sammelan															
13.	Farmers seminar/ workshop															
14.	Method demonstration			17				154	153	307				154	153	307
15.	Celebration of important days			1												

16.	Exposure visits															
17.	Electronic media (CD/DVD)															
18.	Extension literature			3												
19.	Newspaper coverage															
20.	Popular articles															
21.	Radio talk			2												
22.	TV talk															
23.	Training manual															
24.	Soil health camp															
25.	Awareness camp															
26.	Lecture delivered as resource person			19				267	213	480				267	213	480
27.	PRA															
28.	Farmer-Scientist interaction															
29.	Soil test campaign															
30.	MahilaMandal Convener meet															
31.	Any other (Please specify)															
32.																
Grand Total				**228**				**1067**	**957**	**2024**				**1067**	**957**	**2024**

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	Paddy	CAU R-1	2.8	3231	-	16	16
	Paddy	SAR -1	2	1847	-	12	12
OILSEEDS							
PULSES							
	Kidneybean/Kholar	Tuensang local	1	7700	-	10	10
VEGETABLES							
FLOWER CROPS							

OTHERS (Specify)	Taro	Muktakeshi	1.0	2000	-	25	25
	Ginger	Nadia	1.0	2500	-	5	5

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	0.48	5078	-	28	28
2	OILSEEDS					
3	PULSES	0.06	7700	-	10	10
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS	0.2	4500	-	30	30
TOTAL		**0.74**	**17278**	**-**	**68**	**68**

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							
Spices							

Ornamental Plants							
VEGETABLES	Tomato	Rocky and Namdhari Swaraksha	0.03	9000	-	20	20
	Cabbage	Summer queen & Rareball	0.025	7500	-	15	15
	Broccoli	Green Magic	0.02	6000	-	10	10
	Cucumber (off season)	Local	0.015	4500	-	6	6
	Knol khol	EWV	0.01	3000	-	5	5
Forest Spp.							
Plantation crops							
Medicinal plants							
OTHERS (Pl. Specify)							

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**					
2	**Spices**					
3	**Ornamental Plants**					
4	**VEGETABLES**	0.1	30000	-	56	56
5	**Forest Spp.**					
6	**Medicinal plants**					
7	**Plantation crops**					
8	**OTHERS (Specify)**					
TOTAL		**0.1**	**30000**		**56**	**56**

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								
2								
3								
4								
BIO PESTICIDES								
1								
2								
3								
4								

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							
3	BIO PESTICIDE							
	TOTAL							

D. Production of livestock during 2016-17

Sl. No.	Type of livestock	Breed	Quantity	Value (Rs.)	Number of Recipient

			(Nos)	Kgs		beneficiaries		
						General	SC/ST	Total
	Cattle/ Dairy							
	Goat	**Beetle Cross Assam Local**	**4 kids**		**8000**			
	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

			Nos	(kg)		General	SC/ST	beneficiaries
1	CATTLE							
2	SHEEP & GOAT	**Beetle Cross Assam Local**	**4 kids**		**8000**	-	-	-
3	POULTRY							
4.	PIGGERY							
5	FISHERIES							
6	OTHERS (Pl. specify)							
	TOTAL		**4 kids**		**8000**			

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.):April,2016 to March,2017,Annualy,200 copies

(B) Articles/ Literature developed/published

Item	Title/and Name of Journal	Authors name	Number of copies
Research papers	Vegetative Growth and Yield Performance of Four Chilli (Capsicum annuum L.) Cultivars under Mokokchung District of Nagaland .	Renbomo Ngullie and Pijush Kanti Biswas	
1.	Effect of plant and row spacing on growth and yield of onion	Renbomo Ngullie and Pijush Kanti Biswas	
2.			
3.			
Training manuals			

Technical Report			
1.			
2.			
3.			
Book/ Book Chapter			
Popular articles			
Technical bulletins			
Extension bulletins			
Newsletter	KVK, Mokokchung Newsletter	KVK Mokokchung	200 copies
Conference/ workshop proceedings			
Leaflets/folders	Nursery management Cultivation and management of Oyster Mushroom Goat:- management and production	Bendangjungla .I Dr. Ruopfulselhou Kehie Dr. Rongsensusang	500 500 500
e-publications			
Any other (Pl. specify)	Compendium on Livelihood and Entrepreneurship Development	KVK, Mokokchung	100 copies
TOTAL			

N.B. Please enclose a copy of each. In case of literature prepared in local language, please indicate thetitle 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 on horizontal spread of the technologies/Case studies, if any (two or three pages write-up on each case/ successes with suitable action photographs)

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

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

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

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

- Identification of courses for farmers/farm women
- Rural Youth
- Extension personnel

3.11 Field activities

i. Number of villages adopted :12

ii. No. of farm families selected :60

iii. No. of survey/PRA conducted :5

3.12. Activities of Soil and Water Testing

Status of establishment of Lab :Completed

1. Year of establishment :2011
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
	Soil lab				
1		Visiscan spectrophotometer		1	81,200
2		Digital Flame Photometer		1	54,875
3		Digital P.H meter with electrode		1	17,100
4		Digital conductivity meter with cell		1	16,845
5		Physical balance		2	5,100
6		Chemical balance		1	3,125
7		VAT 13.5%			23,695
8		SDFR		1	
9		Mridaparikshak Soil testing Minin Lab Sol Operated		1	75000
Total				9	276940

3. Details of samples analyzed (2016-17):

Details	No. of Samplesanalysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	200	650	6	1125
Water Samples				
Plant Samples				
Petiole Samples				
Total	200	650	6	1125

4. Details of Soil Health Cards (SHCs) (2016-17)

- **a. No. of SHCs prepared: 1000**
- **b. No. of farmers to whom SHCs were distributed: 1000**
- **c. Name of the Major and Minor nutrients analysed: NPK**

d. No. of villages covered: 6
e. Soil health card based nutrient management in different crops (pl. submit in brief in separate page)

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	48	5945	28	3633	35	4852	10	1255	5	550	10	497	136	17732
Voice only														
Voice and Text both														
Total	48	5945	28	3633	35	4852	10	1255	5	550	10	497	136	17732

3.14 Contingency planning for 2016-17

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	0.5		5	5
	Introduction of Resource Conservation Technologies				
	Distribution of seeds and planting materials	1.5		20	20

	Any other (Please specify)				
Long dry spell	**Already sown crops** i. In-situ moisture conservation to safeguard the standing crop from moisture stress. ii. Mulching with crop residue or thin plastic sheets if the water stress continues. iii. Raising nursery of crops in which transplanting is easily possible for filling the gaps	1.0 1.5 -		**15** **20**	**15** **20**

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)

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 Agricultural Research Station (SARS) Yisemyong	Joint implementation in conducting training, demonstration, meeting, trials etc.
DAO, DHO, DVO, DSCO, DFO,LRD in the district	Conducting training, demonstration programmes
ICAR, Jharnapani, Nagaland University	Consultation, meeting and exchange of technologies

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 2016-17

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

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

Sl. No.	Programme	Nature of linkage	Remarks
1	Training, trial & Demonstration, Exhibition, Joint field visit	Resource person and programme Planning, implementation and monitoring	Actively participating in programme implementation

5.4 Give details of programmes implemented under National Horticultural Mission: NA

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board: NA

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2016-17

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									
Wheat									
Maize									
Any other									
Pulses									
Green gram									
Black gram									
Arhar									
Lentil									
Ay other									
Oilseeds									
Mustard									
Soy bean									
Groundnut									

Any other									
Fibers									
i.									
ii.									
Spices & Plantation crops									
i. chilli	8/7/2016	3/10/2016	0.0006	Hot Pepper Spicy	Fruit	25.4 kg		762	
ii. King Chilli		4/8/2016	0.002	Local	Fruit	2.15 kg		430	
Floriculture									
i.									
ii.									
Fruits									
i.									
ii.									
Vegetables									
i. Cabbage	**12/09/2016**	**22/11/2016**	**0.004**	**Green Express**	**Head**	**158 kg**		**3160**	
ii. Tomato			**0.0026**	**Rocky**	**Fruit**	**26 kg**		**520**	
a. Others (specify)									
i. Potato			0.0036			20 kg		400	

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 2016-17

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	State Bank of India	Lerie, Kohima	01000050059
With KVK	State Bank of India	Mokokchung, Main Branch	01000050913
Revolving Fund	Nagaland State Cooperative Bank	Mokokchung	20003392

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 2016 -17

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**			
2	**Traveling allowances**			
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)				
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)				

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 2014 to March 2015	25000	44350	9500	34850
April 2015 to March 2016	34850	41560	10100	31460
April 2016 to March 2017	31460	49460	10300	39160

Note: No KVK must leave this table blank0

8.0 Please include information which has not been reflected above.

(Write in detail)

8.1 Constraints

(a) Administrative

(b) Financial

(c) Technical

(Signature)
Sr. Scientist cum Head

Pl. take maximum care while filling up the annual report format as per instructions so that no column is left blank. Pl. note that any incomplete individual KVK report shall not be considered and will be returned.