PROFORMA FOR ANNUAL REPORT OF KVKS, 2018-19

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
KVK 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. PijushKantiBiswas	Aoyimkum, Dimapur	9402343069	drpijushpckvk@g mail.com

1.4. Year of sanction:2003

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

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Sr. Scientist & Head	Dr.PijushKanti Biswas	Sr. Scientist & Head	Horticulture	143600		15/4/13	Temporary	Gen.
2	Subject Matter Specialist	E.RenbomoNgullie	SMS (Horticulture)	Horticulture	83300		24.05.06	Temporary	ST
3	Subject Matter Specialist	Dr. Rongsensusang	SMS(Vety. &AH)	Vety& AH	83300		24.05.06	Temporary	ST
4	Subject Matter Specialist	K.SamuelSangtam	SMS (Agronomy)	Agronomy	83300		24.05.06	Temporary	ST
5	Subject Matter Specialist	Bendangjungla.I	SMS (PB &G)	PB &G	83300		24.05.06	Temporary	ST
6	Subject Matter Specialist	RuyosuNakro	SMS (Extension)	Agri. Extension	80900		13.11.07	Temporary	ST
7	Subject Matter Specialist	Dr.RuopfuselhuoKehie	SMS (Entomology)	Entomology	80900		15.02.07	Temporary	ST
8	Programme Assistant	Moainla	Programme Assistant	Horticulture	56900		24.05.06	Temporary	ST
9	Computer Programmer	I.Tangitla	Programme Assistant(Computer)	BLIS	56900		24.05.06	Temporary	ST

10	Farm Manager	Ilika v achumi	Programme AssistantFarm manager	Horticulture	55200		19.02.07	Temporary	ST
11	Accountant / Superintendent	Meyatula	Office Supt-cum-Accountant	PU	55200		01.06.06	Temporary	ST
12	Stenographer	Imosangla	Jr. Steno-cum-Computer Operator	PU	38100		01.06.06	Temporary	ST
13	Driver	Supongmeren	Driver	Matriculate	30500		01.06.06	Temporary	ST
14	Driver	Jongpongyanger	Driver	Matriculate	27900		01.03.10	Temporary	ST
15	Supporting staff	Imkonglemla	Peon	Matriculate	23500		01.06.06	Temporary	ST
16	Supporting staff	Aotoshi	Chowkidar	Matriculate	20300		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	7500mtr	3.5 lakhs	2011	-	Completed
6	Fencing	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	NL-10 C0496	2016	8.0 Lakhs	21000	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	Unserviceable
8. Handycam	2010	18,000	Good
9. Computer	2010	45,000	Good
10. LCD projector	2010	55,000	Good
11. Computer	2016	Provided by Host	Good
12.Computer	2016	-do-	Good
13. Computer	2016	- -do -	Good
14. Printer with Scanner (2 nos)	2016	- Do -	Good
15. Printer Epson L110	2016	3500	Good
16. Xerox Ricoh	2016	Provided by Host	Unserviceable
17. Xerox Cannon Image Scanner	2017	Provided by Host	Good
18. Epson Printer L3110	2018	12,300	Good
19. Generator	2018	30,000	Good

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

Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
23/03/2018	Amarjhit NABARD Bendang AIR Supongmar PB SARS Bendang SARS RenbomoNgullieACTO Imkongtoshi. DSCO Nuchet DPD ATMA Sunep. DFO Imkongangshi Farmer Dr. PijushKantiBiswasSenoir Scientist and Head KVK K.SamuelSangtam SMS Agronomy RuyosuNakroSMS Extension Horticulture Bendangjungla. I SMS Plant Breeding Dr. RuopfuselhouKehieSMS 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. 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

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1.	Jhum Paddy	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	119.63	22.1	18.95	80.64
May	176.50	26.4	19.85	79.15
June	345.02	26.2	21.25	88.72
July	421.00	27.1	21.60	78.9
August	452.00	26.5	22.32	76.8
September	238.08	25.1	20.1	83

October	381.00	23.8	20.1	73
November	122.65	21.4	15.7	76
December	Nil	17.4	11.4	79
January	Nil	14.7	8.85	72
February	Nil	15.5	9.24	73
March	74.31	18.7	11.78	74

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 (2018-19)

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,Longsa, Mokokchung	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)	Chungtia, Aliba,Khensa	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	Mopungchuket, Impur	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, Unger, Akhoya	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	Longsemdang, 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	Japu Nokpu	Paddy, Tapioca, Maize, colocassia, Agar, 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 2018-19

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Horticulture	2	5	4	14	7	7	28	32
Agronomy	2	2	6	6	5	5	30	30
Plant breeding	1	2	4	6	3	3	13	13
Plant Protection	3	3	12	12	2	2	10	10
Extension	1	1	20	20	1	1	40	40
Total	**9**	**13**	**46**	**58**	**18**	**18**	**118**	**125**

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	42	42	1050	1067	200	225	1288	2911
Rural youth	10	10	250	223				
Extn. Functionaries	6	6	72	68				
Total	58	58	1372	1358	200	225	1288	2911

Seed Production (ton.)		Planting material (Nos. in lakh)	
5		6	
Target	Achievement	Target	Achievement
40		20	

Note: Target set during last Annual Zonal Workshop

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

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Vegetable production	Tomato	Poor yield due to use of low yielding varieties	Performance evaluation of Tomato var. Arka Rakshak	-	-	-	Advisory service, Field day, awareness programme	Seed, plant protection chemicals.
2	Vegetable production	Watermelon	Low yield and poor quality	Performance trial on watermelon var NS 34	-	-	-	Field day, awareness programme Advisory service,	Seed, plant protection chemicals.
3	Vegetable production	Chilli	Poor yield due to use of low yielding varieties	Performance trial on ChillivarTejasveni	-	-	-	Advisory service, Field day, awareness programme	Seed, plant protection chemicals.
4	Vegetable production	Broccoli	Lack of awareness in high value crops	Performance evaluation of Broccoli var. Solan Green	-	-	-	Field day, awareness programme Advisory service,	Seed, plant protection chemicals.
5	Vegetable production	Cabbage	Low yield in farmers cultivated varieties	Performance evaluation of Cabbage var. BC 79	-	-	-	Field day, awareness programme Advisory service,	Seed, plant protection chemicals.
6	Tuber production	Potato	Lack of awareness in use of healthy planting materials	-	Potato production through TPS tuberlets	-	-	Advisory service, Field day, awareness programme	Seed, plant protection chemicals.
7	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.

8	Vegetable production	Tomato	Low yield in farmers cultivated varieties	-	Demonstration on tomato var. Avishkar under polyhouse			Field day, awareness programme Advisory service,	Seed, plant protection chemicals.
9	Vegetable production	Cabbage	Lack of awareness in HYV	-	FLD on improved cabbage variety BC 76	-	-	Advisory service, Field day, awareness programme	Seed, plant protection chemicals.
10	Vegetable production	Tomato	Low yield in farmers cultivated varieties		FLD on tomato var. Chiranjevi			Field day, awareness programme Advisory service,	Seed, plant protection chemicals.
11	Vegetable production	Bittergourd	Low yield in existing varieties	-	Demonstration on bittergourd variety Pallee	-	-	Advisory service, Field day,	Seed, plant protection chemicals.
12	Vegetable production	Chilli	Low yield in existing varieties	-	Demonstration on Improved chilli var. Guntur Hope	-	-	Advisory service, Field day,	Seed, plant protection chemicals.
13	Crop production	Paddy	Long duration and poor yield	Performance trial on mid duration paddy (RCM -12)		Cultivation of mid duration high yielding paddy	-	Field visit	Seeds
14	Crop production	Paddy	Long duration, tall varieties and low yield	Performance trial on high yielding aromatic rice (PusaSugandh -5		Package and practices of paddy cultivation	-	Field visit	Seeds
15	Crop production	Paddy	Long duration and poor yield		Demonstration on Paddy CAU R-1	Cultivation of paddy	-	Field visit, field day	Seeds

16	Crop production	Maize	Long duration, tall varieties and low yield		Demonstration on Maize RCM -76	Cultivation of HYV Maize	-	Field visit, field day	Seeds
17	Pulse production	Soybean	Early sowing and use of age old varieties		Demonstration on Soybean JS-335	Cultivation of Soybean	-	Field visit, field day	Seeds
17	Oilseed production	Toria	Less adaption of Toria cultivation, leave field fallow during rabi		Demonstration on Toria TS-67	Cultivation practices of Toria	-	Field visit, fieldday	Seeds
18	Pulse production	Pea	Less adaption of second crops due to delayed paddy harvesting		Demonstration on pea Azad	Cultivation of pulses	-	Field visit	seeds
19	IPM	Cabbage	Cabbage butterfly	Effect of Planting dates on the incidence of Cabbage Butterfly (*PierisBrassicae*).		Bio-intensive Integrated pest management in cole crop		, Diagnostic visit, -Visit to Farmers Field,	- Supply of Seed

20	Bio-control	Tomato	Fruit borer	Management of Tomato fruit-borer with Bio-agents: Spraying *Helicoverpa* NPV @ 250-300 Larval Equivalent (LE)/ha mixed with jiggery & 0.1% Teepol in 250 litres of water and sprayed in the evening hours		Management of fruit borer with special references to Biological control		, Visit to Farmers Field, - Method demonstration	- Supply of Seed - Supply of Bio pesticides
21	Product evaluation	Soyabean	Whitefly	Efficacy of diafenthiuron 310 g ai./ha against whitefly (*Bemisiatabaci)*on Soyabean.		Management of Insect pests in oilseed		Advisory services, Method Demonstration	- Supply of Seed - Supply of Insecticides
22	IPM	Pigeon pea	Pod bug		Efficacy of imidacloprid 17.8 SL against pod bugs in Pigeon Pea	Management of Insect pests in Pigeon pea		Diagnostic visit, Method Demonstration	- Supply of Seed - Supply of Insecticides
23	Product evaluation	Paddy	Severe Infestation of Rice leaf folder		Field Efficacy of Flubendiamide 39.35 SC @ 24g a.i/ha against Rice Leaf folder.	Insect pest of Paddy and their management		Diagnostic visit, - Visit to Farmers Field.	- Supply of Insecticides
24	Cereals production	Maize	Long duration and poor yield	-	Demonstration on Maize var. HQPM-5	Cultivation on Maize	-	Field visit	Seeds
25	Tuber production	Tapioca	Low yield in existing varieties		Demonstration on tapioca var. Sreesaya	Improved cultivation practiceson Tapioca		Field visit. Field day.	Planting materials

26	Pulses production	Pea	Low yield in existing varieties		Demonstration on pea var. Arkel	Cultivation on pea.		Field visit. Awareness programmeField day.	Seeds
27	Seeds production	Cucumber	High cost of seeds	Performance evaluation on seeds production technology on off season cucumber	-	Improved cultivation practiceson cucumber	-	Field visit, advisory services	Seeds
28	Pulses production	Cowpea	Low yield in existing varieties	Performance evaluation on cowpea	-	Improved cultivation practiceson cucumber		*Field visit, advisory services*	seeds
29.	Drudgery reduction	Fodder crops	Manual chopping are slow and causes fatigue and drudgery	Knowledge of fodder growers on chaff cutter and comparison with the local Machete in fodder preparation.	-	Use of Chaff Cutter and comparison with local machete in fodder preparation	-	Demonstration,Advisory services	Chaff cutter
30.	Drudgeryreductio	Maize	Strenuous and time taking process in manual maize shelling		Knowledge of maize farmers on tubular maize sheller in reducing drudgery	Use of Tubular maize sheller in reducing drudgery.		Demonstration, awareness programme,	Tubular maize sheller

3.1 Achievements on technologies assessed and refined during 2018-19

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	2		1		5					8
Seed / Plant production				1						1
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction					1					1
Farm machineries										
Value addition										
Integrated Pest Management		1	1		1					3
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	2	1	2	1	7					13

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

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

Thematic areas	**Cereals**	**Oilseeds**	**Pulses**	**Commercial Crops**	**Vegetables**	**Fruits**	**Flower**	**Plantation crops**	**Tuber Crops**	**TOTAL**
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

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

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

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

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

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

A.5. Results of On Farm Testing (OFT)

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B:C Ratio (if applicable)
1	Performance trial on tomato	Low yield due to poor adoption of suitable varieties	Arka Rakshak	Tomato	2	Varieties Arka Rakshak Local PH (cm) 90.77 84.75 FP (no) 55.33 28.66 FW (gm) 70.3 53.22 FD (cm) 4.2 4.1 YP (kg) 4.71 1.52 Yld (mt) 41.8 28.27	Very profitable		3.0
2	Performance trial on watermelon	Low yield and poor quality	NS 34	Watermelon	3	Varieties NS 34 Local F/V (no) 2.44 2.0 FW (kg) 2.89 2.76 FL (cm) 27.62 18.35 FD (cm) 13.49 17.41 Yld (mt) 27.51 22.08			2.2
3	Performance trial on Chilli	Use of Low yielding varieties	Tejasveni	Chilli	3	Varieties Tejasveni Local PH (cm) 125.67 122.33 FP (no) 123.0 100.0 FW (gm) 3.56 3.09 FL (cm) 7.75 6.9 FD (cm) 0.93 0.95 Yld (mt) 13.6 9.8	Yield and shelf life of the new variety is very long		2.1
4	Performance evaluation of broccoli	Low yield due to poor adoption of suitable varieties	Solan green	Broccoli	2	Varieties SolanGreeFarmer var. PH (cm) 45.3 44.85 CW (gm) 337.2 271.7 CD (cm) 13.2 12.6 Yld (mt) 11.7 10.1			2.4
5	Performance evaluation of Cabbage	Low yield in farmers cultivated varieties	BC 79	Cabbage	2	Varieties BC 79 Farmer var. PH (cm) 31.1 30.75 HW (gm) 736.2 647.5 HD (cm) 15.8 14.1 Yld (mt) 236 189			2.2
6	Performance trial on watermelon	Low yield and poor quality	NS 34	Watermelon	3	Varieties NS 34 Local F/V (no) 2.44 2.0 FW (kg) 2.89 2.76 FL (cm) 27.62 18.35 FD (cm) 13.49 17.41 Yld (mt) 27.51 22.08			2.2

7	Performance of aromatic paddy variety	Existing cultivars are long duration and low yield	Pusa Sughant-5	Paddy	3	Pusasughant -5 Local Ave.Pt.ht-128.6CM 153.6 P. lenght – 27.2cm 25.6 Eff. Tiller- 16.5nos 12 Yield – 33.6qtl /ha 28.4	Higher yield than local		2.3
8	Performance trial on maize	Long duration and tall type plant	RCM-12	Rainfed	3	RCM -12 CAU R-1 (Check) Ave.Pt.ht-102.6CM 127.8 P. lenght – 25.2cm 26.2 Eff. Tiller- 15nos 16 Yield – 38.8qtl /ha 39.4	Good growth performance and better yield compared to local cultivars but at par/less with check (CAU R-1)	-	1.7
9	Effect of Planting dates on the incidence of Cabbage Butterfly (*Pierisbrassicae*).	Cabbage butterfly	Effect of different planting dates on the incidence of cabbage butterfly	Cabbage	4	No. of caterpillars/plant : 45 DAP60 DAP D_1 - 0.3 0.5 D_2 - 0.6 2.6 D_3 - 2.2 4.7	Early planting escape the incidence even at the peak occurrance of the pest	Incorporation of early planting with spraying of Botanical may further reduce the pest population	NA
10	Management of Tomato fruit-borer with Bio-agents: Spraying *Helicoverpa* NPV @ 250-300 Larval	Fruit borer	NPV	Tomato	4	Infestation Percentage : Treated Plot (T_1) : i.80 DAP – 2.22% ii.95 DAP – 6.13% Local Check (T_0) : i.80 DAP – 8.8% ii.95 DAP – 13.63%	Marketable yield is enhanced.	Prophylactic Spraying of NPV shows an effective measure	NA

<table>
<tr><td></td><td>Equivalent (LE)/ha mixed with jiggery & 0.1% Teepol in 250 litres of water and sprayed in the evening hours</td><td></td><td></td><td></td><td></td><td></td><td></td><td>in the suppression of the pest population</td><td></td></tr>
<tr><td>11</td><td>Efficacy of diafenthiuron 310 g ai./ha against whitefly (Bemisiatabaci)on Soyabean.</td><td>Whitefly</td><td>diafenthiuron 310 g ai./ha</td><td>Soyabean.</td><td>4</td><td><u>Whitefly Population (Mean)/leaf :</u>

Treatment -1 (First Spray)<table><tr><td>Before spray</td><td>After 5 days of Spray</td><td>After 10 days of Spray</td></tr><tr><td>5.2</td><td>1.6</td><td>2.4</td></tr></table>Treatment -2 (Second Spray)<table><tr><td>Before spray</td><td>After 5 days of Spray</td><td>After 10 days of Spray</td></tr><tr><td>3.4</td><td>0.6</td><td>0.8</td></tr></table></td><td>Significant reduction in Whiteflyinfestation</td><td>-</td><td>NA</td></tr>
<tr><td>12</td><td>seed production technology in cucumber</td><td>Lack of knowledge on improved seeds conservation method.</td><td>Local cucumber</td><td>Cucumber</td><td>3</td><td>Fruit length – 22.98cm
Fruit circumference – 24.66cm
Fruit weight- 0.884 gm
Ave. no of seed/fruit – 192.6
Germination test (%) – 98%</td><td>Adapting seed production method is good income generating source.</td><td>More research on farmers level seed conservation techniques.</td><td></td></tr>
<tr><td>13</td><td>Performance evaluation on cowpea</td><td>Long duration and tall type plant</td><td>Baramasi CP-4</td><td>Cowpea</td><td>3</td><td>Pod length (cm)= 32.8
No. of pickings =4
Yield = 10.6 qt/ha (green pods)</td><td>Good yield high return.</td><td></td><td></td></tr>
</table>

<table>
<tr>
<td>14.</td>
<td>Knowledge of fodder growers on chaff cutter and comparison with the local Machete in fodder preparation.</td>
<td>Manual chopping are slow and causes fatigue and drudgery</td>
<td>chaff cutter</td>
<td>fodder</td>
<td>20nos.</td>
<td>1. Distribution of fodder growers on the basis of knowledge on drudgery reduction by using chaff cutter.
<table>
<tr><th>Aspects</th><th>Frequency</th><th>Percentage</th></tr>
<tr><td>1.Effectiveness (Avg.quantity/hour)
Low
Medium
High</td><td>

18
01
01</td><td>

90%
5%
5%</td></tr>
<tr><td>2.Expenditure/ hour basis in (Rs)
Low
Medium
High</td><td>
17
02
01</td><td>
85%
10%
5%</td></tr>
<tr><td>3.Farmers acceptance
Low
Medium
High</td><td>
01
03
16</td><td>
5%
15%
80%</td></tr>
<tr><th>Aspects</th><th>Frequency</th><th>Percentage</th></tr>
<tr><td>1.Category
Low
Medium
High</td><td>
16
03
01</td><td>
80%
15%
5%</td></tr>
</table>
2. Distribution of fodder growers on the basis of overall knowledge regarding chaff cutter.</td>
<td>Most of the respondents were not aware of chaff cutter and its role in reduction of drudgery.</td>
<td></td>
<td></td>
</tr>
</table>

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

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

3.2 Achievements of Frontline Demonstrations during 2018-19

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

List of technologies demonstrated during previous years and popularized during 2017-18 and recommended for large scale adoption in the district

Sl. No	Crop and Variety/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Broccoli	Cultivation of high yielding broccoli variety	4	8	2.5
2	Tomato	Cultivation of improved variety of tomato	3	6	2.0
3	Pulses	Pea- arkel, Soybean – JS-335	8	18	12
4	Maize	HQPM-1	3	9	6
5	Oilseed	Toria – TS - 38	2	4	2
6	Pigeon Pea	Efficacy of imidacloprid 17.8 SL against pod bugs in Pigeon Pea	2	8	2
7	Paddy	Field Efficacy of Flubendiamide 39.35 SC @ 24g a.i/ha against Rice Leaf folder.	2	12	2

**** 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.	Potato	Tuber crop production	HPS II/67 tuberlets	Rabi 2018	2.0	2.0	5		7		Rainfed			
2	Broccoli	Vegetable production	Green Magic	Rabi 2018	2.5	2.5	8		8		Rainfed			
3	Tomato	Protected cultivation	Avishkar	Kharif 2018	0.5	1.0	3		3		Rainfed			
4	Cabbage	Vegetable production	BC 76	Rabi 2018	2.0	2.0	3		5		Rainfed			
5	Tomato	Vegetable production	Chiranjevi	Rabi 2018	1.5	1.5	3		3		Rainfed			
6	Bittergourd	Vegetable production	Pallee F!	Kharif 2018	1.0	1.0	3		3		Rainfed			
7	Chilli	Vegetable production	Guntur Hope	Kharif 2018	1.5	1.5	2		3		Rainfed			
8	Paddy	Increase	CAUR-1	Khar	6	6	8	-	8	-	Rainfe	-	9.7	124

		in production and productivity		if, 2018							d, Silt loam, 450-800msl		kg/ha	kg/ha
9	Soyabean	Seed production	JS-335	Kharif 2018	2	2	6	-	6	-	Rainfed, siltloam, 750-1100 msl	-	9.2 kg/ha	131kg/ha
10	Maize	Seed production	RCM -76	Kharif 2018	3	1	2	-	2	Due to less availability of seeds	Rainfed, silt loam, 800-1200 msl	-	9.5kg/ha	138 kg/ha
11	Toria	Seed production	TS-67	Rabi 2018	2	5	10	-	10	-	Rainfed, silt loam, 425-900msl		9.0kg/ha	141 kg/ha
12	Pea	Seed production	Azad	Rabi 2018	1	1	4		4	-	Rainfed, silt loam, 425-1200 msl		9-9.8kg/ha	132-145kg/ha
13	Pigeon Pea	IPM	Efficacy of imidaclopri d 17.8 SL against pod bugs in	*Kharif, 2018*	2	2	4	-	4	-	Rainfed -Clay Sandy	-	-	-

			Pigeon Pea								Loam			
14	Paddy	Product evaluation	Field Efficacy of Flubendiamide 39.35 SC @ 24g a.i/ha against Rice Leaf folder.	*Kharifi,* *2018*	2	2	6	-	6	-	Rainfed -Clay Sandy Loam	-	-	-
15	Maize	Cereals production	HQPM-5	Kharif 218	1	1	4		4		Rainfed			
16	Tapioca	Tuber production	Sree Jaya	Kharif-Rabi	2	2	6		6		Rainfed			
17.	Pea	Pulses production	Arkel	Rabi	1	1	3		3		Rainfed			
18.	Maize	Drudgery reduction	Tubular maize sheller	Rabi	-	-	40		40		Rainfed			

c. Performance of FLD on Crops during 2018-19

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Potato	Tuber production	2.0	230	198	13.9	235	225	-	-	76600	185600	109000	2.4	69500	138600	69100	1.9
2	Broccoli	Vegetable production	2.5	122	106.67	12.56	126	119	-	-	76850	189200	112350	2.4	73500	144300	70800	1.9
3	Tomato	Vegetable production	1.0	323	294	10.09	329	317	-	-	72000	176200	104200	2.4	67500	147000	79500	2.1
4	Cabbage	Vegetable production	2.0	240.33	204	15.12	245	237	-	-	74350	168231	93881	2.2	68400	112400	44000	1.6
5	Tomato	Vegetable production	1.5	312.33	278.33	10.9	314.2	310.5	-	-	65250	155000	89750	2.3	65000	138000	73000	2.1
6	Bittergourd	Vegetable production	1.0	152.45	132.6	14.7	156.2	148.7	-	-	64300	152000	87700	2.3	58000	105200	47200	1.8
7	Chilli	Vegetable production	1.5	88.4	74.5	15.7	89.9	86.8	-	-	39800	88400	48600	2.2	37700	74500	36800	1.9

8	Paddy	Increase in production and productivity	3	36	28	28.6	37.5	34.3	Pl. height-126.8 cm Eff.tiller-16 Panicle length-26.3cm	Pl. height-158.5 cm Eff.tiller-14 Panicle length-25.2cm	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	Pods/plant:52	Pods/plant:44	12000	33300	21300	2.81	11000	27700	17600	2.52:1
10	Maize	Crop production and management	2.5	34.5	26.65	30	36.21	32.79	No. of cobs/plant=2.5 No. of grains/cob=447.4	No. of cobs/plant=2.3 No. of grains/cob=403.5	20000	41400	21400	2.07:1	18000	31980	13980	1.78:1
11	Toria	Seed production	1.5	7.1	6	18.3	7.24	5.33	Pl.height-77cm Branches/pl-7.5 Siliqua/pl-84	Pl.height-68cm Branches/pl-6 Siliqua/pl-70	10000	28400	18400	2.84:1	9000	24000	15000	2.6:1
12	Pea	Seed production	1	11.1	8.8	27	12.43	9.96	Av. No of pods/plant=	Av. No of pods/plant=	15000	33300	18300	2.2:1	14000	26400	12400	1.8:1

									33.6 Av. No of seeds /plant =7.8	Av. No of seeds /plant =6.5								
13	Pigeon Pea	IPM	2	11.2	10.4	4.6%	11.8	10.2	**Mean Population of Pod bug /Plant** After 1st spray – Treated Plot:1.5 After 2nd spray Treated Plot:2.6	**Mean Population of Pod bug /Plant** After 1st spray – Untreated : 3.4 After 2nd spray Untreated:4.3	19.860	39,200	19,340	1.97 : 1	19,450	36,400	16,950	1.87:1
14	Paddy	Product Evalution	2	29.7	28.1	5.6 %	30.1	27.5	Infestation Percentage/hill : 30 DAT – 3.9% 45 DAT – 5.7%	Infestation Percentage/hill : 30 DAT - 6.8% 45 DAT - 10.1%	24,080	44,550	20,470	1.85 :1	23750	42,150	18,400	1.77:1
15	Maize	Cereal production	1	40.3	31.51	27	43.1	37.6	Pl. ht cm=225.2	Pl. ht cm=300.7	44785	92690	47905	2.06:1	32800	54578	21778	1.66

									Cobs/ plt=1. 45 Av. No. of grains /cob= 371.5	Cobs/ plt=1. 52 Av. No. of grains /cob= 250.1								
16	Tapioca	Tuber production	3	341.5	291.2	17.1	349	334	-	-	46550	98352	51802	2.1:1	44560	83865	39305	1.88
17	Pea	Pulses production	1.5	11.8	9.64	22.4	12.1	11.5	Pods/ plant= 34.3 Seeds/ pod 7.9	Pods/ plant= 23.9 Seeds/ pod 5.7	25246	53100	27854	2.1	28920	43380	14460	1.5

<table>
<tr>
<td>18.</td>
<td>Maize</td>
<td>Drudgery</td>
<td></td><td></td><td></td><td></td><td></td><td></td>
<td>1. Distribution of maize growers on the basis of knowledge on drudgery reduction by using maize Sheller.
2. Distribution of maize growers on the basis of
<table>
<tr><th>Aspects</th><th>Frequency</th><th>Percentage</th></tr>
<tr><td>Effectiveness (Avg.quantity/hr)</td><td></td><td></td></tr>
<tr><td>Low</td><td>33</td><td>82.5%</td></tr>
<tr><td>Medium</td><td>5</td><td>12.5%</td></tr>
<tr><td>High</td><td>2</td><td>5%</td></tr>
<tr><td>Expenditure(/hour basis in Rs)</td><td></td><td></td></tr>
<tr><td>Low</td><td>30</td><td>75%</td></tr>
<tr><td>Medium</td><td>7</td><td>17.5%</td></tr>
<tr><td>High</td><td>3</td><td>7.5%</td></tr>
<tr><td>Farmers acceptance</td><td></td><td></td></tr>
<tr><td>Low</td><td>2</td><td>5%</td></tr>
<tr><td>Medium</td><td>7</td><td>17.5%</td></tr>
<tr><td>High</td><td>31</td><td>77.5%</td></tr>
</table>
overall knowledge regarding maize Sheller.
<table>
<tr><th>Aspects</th><th>Frequency</th><th>Percentage</th></tr>
<tr><td>Category</td><td></td><td></td></tr>
<tr><td>Low</td><td>33</td><td>82.5%</td></tr>
<tr><td>Medium</td><td>5</td><td>12.5%</td></tr>
<tr><td>High</td><td>2</td><td>5%</td></tr>
</table>
</td>
<td></td><td></td><td></td><td></td>
</tr>
</table>

** Potato yet to be harvested

***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= GR4.3

/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**	**18**			**360**	**360**	
2	Farmers Training	18			450	450	
3	Media coverage	2					
4	Training for extension functionaries	2			20	20	
5	Any other (Pl. specify)						
	Total	40			830	830	

e. Details of FLD on Enterprises

(i) Farm Implements

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

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

(ii) Livestock Enterprises

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

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

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

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

(iii) Fisheries

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

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

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

(iv) Other enterprises

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

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

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

(v) Farm Implements and Machinery

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

f. Performance of FLD on Crop Hybrids

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

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

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

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

3.3. Achievements on Training

3.3.1. Farmers and Farm Women in On CampusincludingSponsored On CampusTrainingProgrammes (*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog			Participants																		
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	Grand Total (x+y)
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies	1									3		10			13	3		10		13		13
Cropping Systems																						
Crop Diversification																						
Integrated Farming	1		1							7		12		19		7		12		19		19
Water management																						
Seed production																						
Nursery management																						
Integrated Crop Management																						
Fodder production																						

Production of organic inputs																					
Post harvest management																					
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																						
Processing and valueaddition	1		1							10		15		25		10		15		25		25

III Soil Health and Fertility Management																						
Soil fertility management	1								12			13		25		12	13			25		25
Soil and Water Conservation																						
Integrated Nutrient Management	1								14			10		24		14	10			24		24
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																						

Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening																						
Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						
Gender mainstreaming through																						

SHGs																						
Storage loss minimization techniques																						
Value addition																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small tools and implements																						

Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					
Post Harvest Technology																					
VII Plant Protection																					
Integrated Pest Management	3		3							50		32		82		50		32		82		82
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 developmen																						

t																						
Group dynamics /Information networking	1		1							13		12		25		13		12		25		25
Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths																						
Drudgery reduction technologies																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL	**8**		**6**						**26**	**83**		**104**		**200**	**13**	**109**	**23**	**79**		**213**		**213**

3.3.2. Achievements on Training of <u>Farmers and Farm Women</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes

(*Sp. Off means Off Campus training programmes sponsored by external agencies)																							
Thematic area	**No. of Courses/ prg.**			**Participants**																			**Grand Total**
				General						**SC/ST**						**Total**							
				Male		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**			
	Off	**Sp Off***	**Total**	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***		
I. Crop Production																							
Weed Management	2									17		17		34		17		17		34		34	
Resource Conservation Technologies	1									8		13		21		8		13		21		21	
Cropping Systems	2									17		28		45		17		28		45		45	
Crop Diversification	1									10		17		27		10		17		27		27	
Integrated Farming	2									18		22		40		18		22		40		40	
Water management	1									6		15		21		6		15		21		21	
Seed production	2									22		18		40		22		18		40		40	
Nursery management																							
Integrated Crop Management	2									18		27		45		18		27		45		45	

Fodder production																						
Production of organic inputs	1									2		16		18		2		16		18		18
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	1		1							10		15		25		10		15		25		25
Off-season vegetables																						
Nursery raising	2		2							21		31		52		21		31		52		52
Exotic vegetables like Broccoli	1		1							11		15		26		11		15		26		26
Vegetable production	5		5							51		75		126		51		75		126		126
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						

Training and Pruning	1		1							17		8		25		17		8		25		25
Layout and Management of Orchards	1		1							12		15		27		12		15		27		27
Cultivation of Fruit																						
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Post harvest management																						
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	1		1							10		17		27		10		17		27		27
Processing and value addition																						
f) Spices																						
Production and Management technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and																						

managemen t 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																						
Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening																						
Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						

Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small																						

tools and implements																						
Repair and maintenance of farm machinery and implements																						
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management	6		6							78		71		149		78		71		149		149
Integrated Disease Management																						
Bio-control of pests and diseases	1		1							14		8		22		14		8		22		22
Production of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming																						
Carp breeding and hatchery managemen																						

t																						
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	1		1							15		10		25		15		10		25		25
Group dynamics	1		1							1		10		25		15		10		25		25

										5												
Formation and Management of SHGs	2		2							22		28		50		22		28		50		50
Mobilization of social capital	1		1							13		12		25		13		12		25		25
Entrepreneurial development of farmers/youths																						
Drudgery reduction technologies	2		2						32			22		54		32		22		54		54
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL	**39**	**2**	**23**						**32**	**396**		**487**		**923**		**428**		**495**		**923**		**923**
(B) RURAL YOUTH																						
3.3.3. Achievements on Training <u>Rural Youth</u> in <u>On Campus</u> including <u>Sponsored On Campus</u> Training Programmes **(*Sp. On means On Campus training programmes sponsored by external agencies)**																						

Thematic area	No. of Courses/ Prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	
Mushroom Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming																						
Planting material production	1		1							9		11		20		9		11		20		20
Vermi-culture	1		1							4		10		14		4		10		14		14
Sericulture																						
Vegetable production																						
Protected cultivation of vegetable crops	1		1							7		13		20		7		13		20		20

Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition	3									7		46		53		7		46		53	53	
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						

Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post HarvestTechnology	1		1							8		12		20		8		12		20		20
Tailoring and Stitching																						
Rural Crafts	1		1							10		15		25		10		15		25		25
TOTAL	**8**		**5**							**45**		**107**		**152**		**45**		**107**		**152**		**152**

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

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

Thematic area	No. of Courses/ Prog.			Participants																		Grand Total
				General						SC/ST						Total						
				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	1		1							21		16		37		21		16		37	37	37
Bee-keeping																						
Integrated farming	1	1	2							11	9	8	17	19	26	11	9	8	17	19	26	45
Seed production																						
Production of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture	1		1							12		14		26		12		14		26		26
Sericulture																						
Protected cultivation of vegetable	1		1							10		8		18		10		8		18		18

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																						
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/.Agri-Bussiness	1		1								15		10		25		15		10		25	25
TOTAL	**5**		**6**							**54**	**24**	**46**	**27**	**100**	**51**	**54**	**24**	**46**	**27**	**100**	**88**	**151**
C. Extension Personnel																						

3.3.5. Achievements on Training of Extension Personnel in On Campus including Sponsored On Campus Training Programmes

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

Thematic area	No. of Courses/ prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	
Productivity enhancement in field crops	1		1							6		4		10		6		4		10		10
Integrated Pest Management	1		1							18	14			32		18	14			32		32
Integrated Nutrient management	1		1							9		5		14		9		5		14		14
Rejuvenation of old orchards																						
Protected cultivation technology																						
Formation and Management of SHGs																						
Group	1		1							8		6		14		8		6		14		14

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																					
Managemen t 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																						
Capacity building for ICT application	1		1							6		8		14		6		8		14		14
Total	**6**		**6**							**57**	**14**	**31**		**102**		**57**	**14**	**31**		**102**		**102**

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

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

Thematic area	**No. of Courses/ prog.**			**Participants**																		**Grand Total**
				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									10		7		17		10		7		17		17
Integrated Pest Management																						
Integrated Nutrient management																						
Rejuvenation of old	1		1							1		11		24		13		11		24		24

orchards										3												
Protected cultivation technology																						
Formation and Management of SHGs																						
Programme Planning	1		1							8		8		16		8		8		16		16
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	**3**		**2**							**31**		**26**		**57**		**31**		**26**		**57**		**57**

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
Agronomy	Crop combination in jhum	Cultivation of soybean	23/5/18	1	KVK conference hall	Extension Functionary				6	14	20	6	14	20

Agronomy	Integrated Nutrient Management	Vermicomposting	11-13/7/18	3	KVK conference hall	Rural Youth				4	10	14	4	10	14
Plant breeding	Processing and value addition	Value addition in tomato and chilly	8-9/5/18	2	KVK conference hall	Rural Youth				5	14	19	5	14	19
Plant breeding	Processing and value addition	Value addition in Peach and Plum	14-14/6/18	3	KVK conference hall	Rural Youth				-	12	12	-	12	12
Plant breeding	Planting material production	Nursery management	17/7/18	1	Mokokchung	Extension Functionary				10	7	17	3	10	17
Horticulture	Planting material production	Scientific production of planting materials	09/08/18	1	KVK conference hall	Rural Youth				9	11	20	9	11	20
Horticulture	Processing and	Processing and value addition of	29-31/08/	3	KVK conference	Farmer & Farm women				10	15	25	10	15	25

	value addition	spices crops	18		hall											
Agronomy	Fallow management	Jhum intensification	28/9/18	1	KVK conference hall	Extension Functionary				9	5	14	9	5	14	
Plant breeding	Pulses production	Improved cultivation practices of pea	20/9/18	1	KVK conference hall	Farmer & Farm women				3	10	13	3	10	13	
Horticulture	Post Harvest Technology	Post Harvest Technology of flowers	13-14/11/18	2	KVK conference hall	Rural Youth				8	12	20	8	12	20	
Agronomy	Resource management	Integrated farming system	15-16/10/18	2	KVK conference hall	Farmer & Farm women				7	12	19	9	5	14	
Plant breeding	Value addtion	Value addition in vegetables	10/10/18	1	KVK conference hall	Rural Youth				2	20	22	2	20	22	
Horticulture	Protected cultivation	Protected cultivation of flowers	28/11/18	1	KVK conference hall	Rural Youth				7	13	20	7	13	20	
Extension	Information	.Information	10.05.18	1 day	KVK confer	Farmer & Farm women				15	10	25	15	10	25	

	n netw orkin g	networkin g among farmers			ence hall											
Extension	Capac ity buildi ng	Capacity building for using of ICT tools	07.09.1 8	1 day	KVK confer ence hall	Extension Functionary				6	9	15	6	9	15
Extension	Rural Crafts	Rural Crafts	22.01.1 9	1 day	KVK confer ence hall	Rural Youth				1 2	13	25	12	13	25
Plant Protection	Bee keepi ng	Technique of Bee Keeping	14.04.18	1	Yisemy ong	Farmers				19	7	26	19	7	26
Plant Protection	IPM	Manageme nt of Insect Pests Fruit borer in Off season Cucumber	05.05.18	1	Aliba	Farmers				6	23	29	6	23	29
Plant Protection	IPM	Insect Pest of Paddy & their managemen t	15.06.18	1	Mokok chung Town	Extension Personnels				18	14	32	18	14	32
Plant Protection	IPM	Manageme nt of Insect pests in Oil seed crop	18.07.18	1	Yisemy ong	Farmers				15	14	29	15	14	29
Plant Protection	IPM	Manageme nt of Insect pests in Pigeon pea	28.07.18	1	Alichen	Farmers				9	15	24	9	15	24
Plant Protection	Bee - Keepi	Seasonal Manageme nt of Bee Keeping	11.08.18	1	Yisemy ong	Rursl Youth				12	9	21	12	9	21

	ng															
Plant Protection	Bio-control	Bio-intensive Integrated Pest Management in Cole Crops	19.09.18	1	Kinunger	Rursl Youth				9	17	26	9	17	26
Plant Protection	IPM	IPM in Rice with special references to Biological control	22.09.18	1	Longkhum	Rursl Youth				11	8	19	11	8	19
Plant Protection	Bee - Keeping	Apiary management – a practical approach	06.10.18	1	Yimchalu	Farmers				18	9	27	18	9	27
Plant Protection	Bio - Control	Management of fruit borer with special references to Biological control	24.10.18	1	Alichen	Farmers				14	8	22	14	8	22
Plant Protection	IPM	Strategies for successful Management of Rodent	03.11.18	1	Aliba	Farmers				19	7	26	19	7	26
Plant Protection	IPM	Management of Stored Grain Pest in Cereals	12.12.18	1	Khensa	Farmers				14	9	23	14	9	23
Plant Protection	Mush room Produ	Cultivation and Management of Oyster Mushroom	12.1.19	1	Longkong	Rural Youth				21	16	37	21	16	37

	ction															
Plant Protection	IPM	Training on IPM modules against Insect pest in Potato	23.1.19	1	Yisemyong	Farmers				16	11	27	16	11	27	

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
Horticulture	Vegetable production	Production technologies of pumpkin	03/04/18	1	Unger	Farmer & Farm women				10	15	25	10	15	25
Agronomy	Cereals production	Cultivation of Maize	6/4/18	1	Longjang	Farmer & Farm women				8	11	19	8	11	19
Plant breeding	Cereals production	Training and demonstration on Maize	16/4/18	1	Chungtia	Farmer & Farm women				10	14	24	10	14	24
Horticulture	Vegetable production	Improved cultivation practices of Chilli	09/04/18	1	Longsa	Farmer & Farm women				9	16	25	9	16	25
Horticulture	Vegetable product	Production of low volume	15/05/18	1	Satsu	Farmer & Farm women				10	15	25	10	15	25

	ion	high value crops														
Agronomy	Crop production	Package and practices of paddy	11/05/18	1	Changtongya	Farmer & Farm women				8	13	21	8	13	21
Agronomy	Nutrient management	Vermicomposting	29/6/18	1	Chuchuyimlang	Farmer & Farm women				2	16	18	2	16	18
Plant breeding	Nutrient management	INM in paddy	16/6/18	1	Longsa	Farmer & Farm women				14	10	24	14	10	24
Horticulture	Orchard management	Management of banana orchards	10/06/18	1	Changtongya	Farmer & Farm women				12	15	27	12	15	27
Plant breeding	Nutrient management	INM in pulses	27/6/18	1	Longnak	Farmer & Farm women				10	15	25	10	15	25
Agronomy	Nutrient management	Sequential cropping system	20/7/18	1	Longpha	Farmer & Farm women				4	14	18	4	14	18
Horticulture	Post harvest management	Post harvest handling of Tomato	31/07/18	1	Longkhum	Farmer & Farm women				11	14	25	11	14	25
Agronomy	Cereal product	Paddy line sowing	28/7/18	1	Longjang	Farmer & Farm women				9	6	15	9	6	15

	ion															
Agronomy	Nutrient management	Sequential cropping system in jhum	20/8/18	1	Longsa	Farmer & Farm women				6	15	21	6	15	21
Horticulture	Nursery raising and management	Vegetable nursery raising and management	11/09/18	1	Luyong	Farmer & Farm women				9	16	25	9	16	25
Agronomy	Resource management	Cultivation of pulses as secong crop	19/9/18	1	Kubza	Farmer & Farm women				8	12	20	8	12	20
Horticulture	Nursery raising and management	Vegetable nursery raising and management	24/09/18	1	Kupza	Farmer & Farm women				12	15	27	12	15	27
Horticulture	Tuber production	Potato production through TPS tuberlets	10-12/10/18	3	Amisuba	Farmer & Farm women				10	17	27	10	17	27
Agronomy	Fallow management	Oilseeds and pulses cultivation practices	8/10/18	1	Ungma	Farmer & Farm women				7	14	21	7	14	21
Agronomy	Resource manage	Cultivation of winter field crops	17/10/18	1	Moalenden	Farmer & Farm women				14	8	22	14	8	22

	ment														
Horticulture	Vegetable production	Transplanting and after care of winter vegetable crops	16/10/18	1	Aliba	Farmer & Farm women				11	15	26	11	15	26
Horticulture	Post harvest management	Post harvest handling of Tomato	20/12/18	1	Ungma	Farmer & Farm women				10	15	25	10	15	25
Agronomy	Post harvest management	Post harvest management in paddy	5/11/18	1	Longjang	Farmer & Farm women				12	6	18	12	6	18
Horticulture	Training and pruning	Training and pruning of orange trees	17/01/19	1	Yajang	Farmer & Farm women				17	8	25	17	8	25
Extension	Farm leadership	Farm leadership – its importance and role intechnology adoption and dissemination	19.04.18	1 day	Longpha	Farmer & Farm women				15	10	25	15	10	25
Extension	Mobilization of social	Mobilization of social capital in villages	07.06.18	1 day	Kupza	Farmer & Farm women				12	14	26	12	14	26

	capital														
Extension	Group dynamics	Group dynamics	24.07.18	1 day	Mekuli	Farmer & Farm women				15	13	28	15	13	28
Plant breeding	Seed production	Seed production in cucumber	11/01/19	1	Aliba	Farmer & Farm women				10	14	24	10	14	24
Extension	Drudgery reduction technologies	Use of Chaff Cutter in fodder production	24.09.18	1 day	Kupza	Farmer & Farm women				12	5	17	12	5	17
Extension	SHG	Common problems of SHG members and their solutions	05.10.18	1 day	Sungratsu	Farmer & Farm women				12	14	26	12	14	26
Extension	SHG	Orientation on proper record keeping in SHGs	06.11.18	1 day	Aliba	Farmer & Farm women				10	15	25	10	15	25
Extension	Drudgery reduction technologies	Use of Tubular Maize Sheller in reducing drudgery.	22.11.18	1 day	Kupza	Farmer & Farm women				20	17	37	20	17	37
Extensio	Agri-Bussine	Agri-Bussiness	14.12.18	1 day	Sungra	Rural Youth				1	12	26	14	12	26

n	ss	Opportunities for uplifting the socio-economic status of rural youth			tsu					4					
Extension	Program Planning	Program Planning	28.01.19	1 day	DAO's Office, Mkg	Extension Personnel				8	8	16	8	8	16
Horticulture	Rejuvenation of old orchard	Rejuvenation of citrus orchard	15.02.19	1	DAO conference hall	EP				11	9	20	11	9	20
Horticulture	Production and Management technology	Package of practices of Arecanut	12/03/19	1	Longjang	PF				12	13	25	12	13	25

(D) Vocational training programmes for Rural Youth

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

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

*training title should specify the major technology /skill transferred

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

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

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 2018-19

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1.	Advisory services			24	-	-	-	76	86	162	-	-	-	76	86	162
2.	Diagnostic visit			54				76	98	174	11	23	34	87	121	208
3.	Field day			12				60	72	132	7	9	16	69	81	150
4.	Group Discussion			19				145	193	338	-	-	-	145	193	338
5.	KishanGosthi															
6.	KishanMela			-	-	-	-	-	-	-	-	-	-	-	-	-
7.	Film show			3				124	130	254	11	20	31	135	150	285
8.	SHG formation			2												
9.	Exhibition			1												
10.	Scientists visit to farmers fields			56				106	99	205	25	23	48	131	122	253
11.	Plant/ Animal Health camp			2				126	138	264	6	8	14	132	146	278
12.	Farm science club															
13.	Ex-trainee Sammelan															
14.	Farmers seminar/ workshop			3				35	46	81	2	3	5	37	49	86
15.	Method demonstration			12				90	90	180	24	16	40	114	106	220

16.	Celebration of important days			5				75	63	138	10	11	21	85	74	159
17.	Exposure visits			**1**												
18.	Electronic media (CD/DVD)			1												
19.	Extension literature			4												
20.	Newspaper coverage			4												
21.	Popular articles															
22.	Radio talk			3												
23.	TV talk															
24.	Training manual															
25.	Soil health camp			1				25	28	53	4	5	9	29	33	62
26.	Awareness camp			2				17	19	36	16	7	23	33	26	59
27.	Lecture delivered as resource person			12				147	154	301	12	14	26	159	168	327
28.	PRA			2				12	24	36	5	5	10	17	29	46
29.	Farmer-Scientist interaction			2				24	25	49	6	8	14	30	33	63
30.	Soil test campaign			1				12	20	32	7	9	16	19	29	48
31.	MahilaMandal Convener meet															
32.	Any other (Please specify) Farmers visit to KVK			7				79	70	149	6	14	20	85	94	179
Grand Total				225				1229	1355	2584	152	175	327	1383	1540	2911

3.5 Production and supply of Technological products during 2018-19

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Paddy	CAU R-1	2.5	2500	-	15	15
	Maize	RCM 76	1	2500		10	10
OILSEEDS	Toria	TS 36 &67	1.2	5400		8	8
PULSES	Kidneybean	local	0.5	2500	-	10	10
VEGETABLES							
FLOWER CROPS							
OTHERS (Specify)	Taro	Muktakeshi	0.3	750	-	5	5
	Ginger	Naida	0.3	300	-	5	5

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

Sl. No.	Major group/class	Quantity (q) produced	Quantity (q) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries		
					General	SC/ST	Total
1	CEREALS	3.5	3.5	5000		**25**	**25**
2	OILSEEDS	1.2	1	5400		8	8
3	PULSES	0.5	0.5	2500		10	10
4	VEGETABLES						
5	FLOWER CROPS						
6	OTHERS	0.6	0.6	1050		10	10
TOTAL		**3.6**	**3.6**	**7300**		**35**	**35**

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

Major group/class	Crop	Variety	Quantity (In No.) produced	Quantity (In No.) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries		
						General	SC/ST	Total
Fruits								
Spices								
Ornamental Plants								
VEGETABLES	Tomato	Chiranjevi, Rocky	6500	6400	13000	-	25	25
	Cabbage	Summer queen & BC 76	4000	4000	8000	-	20	20
	Broccoli	Green Magic	3000	2750	9000	-	15	15
	Chilli	Tejaswani	2500	2250	7500	-	10	10
	Chilli	Guntur hope	1500	1200	3600	-	5	5
	Knolkhol	EWV	2000	2000	4000		10	10
Forest Spp.								
Plantation crops								
Medicinal plants								
OTHERS (Pl. Specify)	Tapioca	Sree Jaya	1000	1000	2000		10	10

C. Production of Bio-Products during 2018-19

Major group/class	Product Name	Species	produced Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
1								
BIO PESTICIDES								
1								

D. Production of livestock during 2018-19

Sl. No.	Type/ category of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
1	**Cattle/ Dairy**							
2	**Goat**							**-**
3	**Piggery**							
4	**Poultry**							
5	**Fisheries**							
6	**Others (Specify)**							
	Total							

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

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):April,2018 to March,2019,Annualy,250 copies

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies	
			Produced/ published	Supplied/ distributed
Research papers				
1.	Vegetative growth and yield performance of four chilly (*Capsicum annum* L.) cultivars under Mokokchung district of Nagaland-IJAS	E. RenbomoNgullie and PijushKantiBiswas		
Training manuals	Vermi composting	K Samuel Sangtam, Bendanjungla .I, Dr Pijush Kanti Biswas	**75**	**60**
	Citrus Farming	E. Renbomo Ngullie, Dr Pijush Kanti Biswas	**40**	**30**
Technical Report				
1.				
Book/ Book Chapter				
Popular articles				
Technical bulletins				
Extension bulletins				
Newsletter	KVK Newsletter	KVK Mokokchung	200	150
Conference/ workshop proceedings				

Leaflets/folders	1. Potato production through tuberlets 2. Sequential cropping for higher production. 3. Management of white fly in vegetables 4. Package and practices of cowpea	E.RenbomoNgullie K. Samuel Sangtam Dr. RuopfuselhuoKehie Bendangjungla.I	50 50 50 50	40 45 38 43
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 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
1	CD	Preparation of Orange Juice	30

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

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

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

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

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

- Identification of courses for farmers/farm women : Group discussion
- Rural Youth : Interaction
- 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 :2

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	
		Mridaparikshak	Nagarjuna Agro Chemicals Pvt. Ltd	2	161000
Total				9	**362940**

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

Details	No. of Samplesanalysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	142	142	5	1420
Water Samples				
Plant Samples				
Petiole Samples				
Total	142	142	5	1420

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

a. No. of SHCs prepared :142
b. No. of farmers to whom SHCs were distributed :142
c. Name of the Major and Minor nutrients analysed :NPK
d. No. of villages covered :5

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	**30**	**901**	**-**	**-**	**29**	**1452**	**9**	**257**	**14**	**627**	**6**	**226**	**88**	**3463**
Voice only														
Voice and Text both														
Total	**30**	**901**	**-**	**-**	**29**	**1452**	**9**	**257**	**14**	**627**	**6**	**226**	**88**	**3463**

3.14 Contingency planning for 2018-19

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
	Introduction of new variety or crop	**0.5**		**6**	**6**
	Introduction of Resource Conservation Technologies				
	Distribution of seeds and planting materials	2		**25**	**25**
	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 established during 2017-18

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 2017-18

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

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2018-19

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit (Name and No.)	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety/ species/ breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1									

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:									
Beans	12/3/18 21/9/18	18/5/18 29/11/18	$30m^2$ $40m^2$	Victoria Victoria	Pod Pod	30 kg 3kg	-	1200 120	-

cowpea	9/3/18	15/6/18	40m^2	CP-4 baramasi	Pod	66 kg	-	2640	-
Fibers									
Spices & Plantation crops									
Ginger	5/3/18	10/1/19	14m^2	Local	Rhizome	25kg	-	-	Kept for seed purpose
Floriculture									
Fruits									
i.									
Vegetables									
i.Cabbage	28/3/18 27/9/18	23/7/18 -	4m^2 2m^2	BC-76 Red Jewel	Head Head	2.5kg -	- -	75 Yet to be harvested	
ii.Knolkhol	27/9/18	17/12/18	4m^2	Sungro early white	Knobs	3kg	-	180	
iii.Lettuce	27/9/18	17/12/18	3 m^2	Karol	Leaf	6 bunches	-	120	
iv. Pea									
v. Spinach	16/3/18	27/4/18	2m^2	Greenflavour	leaf	7 bunches	-	70	
vi. Bottle gourd	12/3/18	25/6/18	10m^2	Anmol	Fruit	21nos.	-	420	
vii.Bitter gourd									
vii.Chilli	19/3/18	28/6/18	3m^2	Tejaswani	Fruit	550 kg	-	220	
viii.cucumber									
ix. Capsicum	28/3/18	23/7/18	4m^2	Mekong	Fruit	9.5kg	-	760	
a. Others									

(specify)										
i.	Colocassia	6/3/18	14/1/18	$4m^2$	Muktakeshi	corm	10kg			Kept for seed purpose

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 Unit/ structure

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

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

Accommodation available (No. of beds):

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

Note: (Duration of the training course X No. of trainees)=Trainee days

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	State Bank of India	Lerie, Kohima	01000050059
With KVK	State Bank of India	Mokokchung, Main Branch	11361013166
Revolving Fund	Nagaland State Cooperative Bank	Mokokchung	20003392

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

Item	Released by ICAR/ATARI (in lakh)		Expenditure (in lakh)		Unspent balance as on 31st March, 2019
	Amount	Amount	Amount	Amount	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2017 -18

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			
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, 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 with KVK (in lakh)
April 2016 to March 2017	0.31460	0.18000	0.10300	0.39160
April 2017 to March 2018	0.39160	0.10200	0.10000	0.39360
April 2018 to March 2019	0.39360	0.48150	0.8200	0.79310

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

(Write in detail)

8.1 Constraints and Suggestion (Provide point-wise if any, for recommendation)

(a) Administrative

(b) Financial

(c) Technical

(Signature)
Sr. Scientist cum Head