PROFORMA FOR ANNUAL REPORT OF KVKS, 2019 (January to December)

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, Nagaland University, Lumami,	(0369)2268255	(0369)2268255	kvkzunheboto@gmail.com
P.O. Lumami PIN-798627	(0369)2268256	(FAX)	

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

0 1 7							
Address	Telephone		E mail				
	Office	FAX					
Vice-chancellor, Nagaland	(0369)2268248	(0369)2268248	vicechancellornu@yahoo.com				
University, Lumami PIN-798627							

1.3. Name of the Sr. Scientist & Head with phone & mobile No

Name	Telephone / Contact				
	Residence	Email			
Dr. Rakesh Kumar Chaurasia		09856072100	rchaurasia_2004@yahoo.co.in		

1.4. Year of sanction: 2005

1.5. Staff Position (As on 31st December 2019)

SI. No	Sanctioned post	Name of the incumbent	Designation	Disciplin e	Pay Scale (Rs.)	Present basic (Rs.)	Date of joinin g	Permane nt /Tempora ry	Categor y (SC/ST/ OBC/ Others)
1	Sr. Scientist & Head	Dr. Rakesh Kumar Chaurasia	Sr. Scientist & Head	Animal Science	131400	147900	5/10/ 12	Permane nt	OBC
2	Subject Matter Specialist	Wapangtoshi Longkumer	АСТО	Plant Protectio n	74000	83300	17/04 /07	Permane nt	ST
3	Subject Matter Specialist	Dr. Kundan Kumar	SMS	Agril. Extensio n	69000	77700	19/04 /07	Permane nt	Others
4	Subject Matter Specialist	Edenly Chishi	АСТО	Horticult ure	74000	83300	20/04 /07	Permane nt	ST

5	Subject Matter Specialist	Dr. Visakho Shunyu	АСТО	Agronom y	74000	83300	14/05 /07	Permane nt	ST
6	Subject Matter Specialist	Sentimenla	SMS	Agril Chemistr y & Soil Science	59500	67000	10/10 /12	Permane nt	ST
7	Subject Matter Specialist	Dr. Z. Nongothung Ezung	SMS	Animal Science	56100	65000	3/3/1	Permane nt	ST
8	Programme Assistant	Narola Anichari	Programme Assistant	Home Science	38700	43600	25/10 /12	Permane nt	ST
9	Computer Programmer	Imnameren	TO (Computer)	IT	50500	56900	02/04 /07	Permane nt	ST
10	Farm Manager	Naropongla	Farm Manager	Soil and water conserva tion	38700	43600	17/10 /12	Permane nt	ST
11	Accountant / Superintend ent	Katovi Shohe	Accountant / Superinten dent		47600	55200	08/08 /07	Permane nt	ST
12	Stenographe r	Tiarenla	Jr. Steno. Cum Compt Operator		27900	31400	3/10/ 12	Permane nt	ST
13	Driver	Wepretso Marhu	Driver cum mechanic		30500	34300	22/06 /07	Permane nt	ST
14	Driver	Medongulie	Driver cum mechanic		30500	34300	19/06 /07	Permane nt	ST
15	Supporting staff	Kekhriengulie	Skilled Supporting staff		23500	27600	2/4/0	Permane nt	ST
16	Supporting staff	Shumben Patton	Skilled Supporting staff		23500	27600	01/06 /07	Permane nt	ST

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) : 20

b. Total cultivable land with KVK (in ha): 17.75

c. Total cultivated land (in ha): 5.34

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+	1
	Staff Quarters)	
2.	Under Demonstration Units (pl. specify the name)	1
3.	Under Crops (Cereals, pulses, oilseeds etc.)	
	(Pl. specify separately)	
	i. Spices	0.02ha
4.	Under vegetables (Pl. specify separately)	
	i.Brocolli	0.001ha
	ii.Colocasia	0.01ha
	iii. Chinese cabbage	0.001ha
	iv. Tomato	0.001ha
	v. Mustard leaves	0.001ha
5.	Orchard/Agro-forestry	1.5ha
6.	Others (specify)	1.5ha

1.7. Infrastructural Development:

A) Buildings

		Source	Stage					
S.		of	Complete			Incomplete		
No.	Name of building	, ,	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	April 2014	550	110.51	2012		
2.	Farmers Hostel							
3.	Staff Quarters (2)	ICAR	April 2014	144		2012		
4.	Demonstration Units							
5	Fencing							

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero	NL 10 C- 758	2017	750696	35402	Working
Mini Tractor with trolley	NL 07- A2068	2006	369126/-	150	Working
Power tiller		2010	296200/-	160hrs	Working
Power tiller		2016	197500/-	New	Working

C) Equipments& AV Aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
PC	2010	34700/-	Needs replacement

Laptop	2010	43140/-	Needs replacement
LCD Projector	2010	85100/-	Needs replacement
Camera	2010	19999/-	Needs replacement
Camera	2017	51300/-	Working
Photo copier	2010	95000/-	Needs Repairing
Fax machine	2010	16000/-	Needs Replacement
Generator	2012	337000/-	Working
PC	2016	43590/-	Working
PC	2016	43590/-	Working
PC	2016	43590/-	Working
Laptop	2016	47590/-	Working
Laptop	2017	76700/-	Working
Scanner	2016	9350/-	Working
Generator	2016	129800/-	Working

1.8. A). Details SAC meeting* conducted in 2019

Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation	
12/2/19	1. Dr. Bidyut C. Deka, Director ATARI	Annual Report	1.Collection of Indigenous germplasm in process	
	2. Prof. Pradeshi Lal, Vice Chancellor, NU	Certification of seeds Database of Doubling farmers income – village/ individual farmer	Supply of quality seeds and planting materials done	
	Dr. Abemo, Registrar, NU Anatoli, Farmer	profile for benchmark data. 3. Inclusion of 2 new villages per year	3. Supplied seeds in time	
	5. Shiqheli, Farmer	Annual Action Pan	4. Soil testing in other parts of the district	
	6. Kakuto, Farmer	Inclusion of 2 Nos. Of OFT Under Extension discipline	partially done 5. Supply of 2 nos of cattle under KSHMTA will	
	7. Vikishe, Farmer	Seedling produced by KVK should be of good quality/ from certified source.	be done along with Vermi compost Unit.	
	8. K. Inavi Chishi, Project Officer DRDA	Vermicompost production to increase upto 1000 kg/year	6.Fishery pond at Litta New Initiated the programme with DFO	
	9. A.K. Sahu, Ast. Professor, NU	Arrangement of Coffee roasting/ grinder machine at Litta New Village	7. Turkey birds OFT has been initiated	
	10. L. Daiho, Professor, NU	Organic certification of farmers' produce	8.Agri. & Allied dept, ATMA and KVK Working together by participation in meetings, formulation of action plans, exhibitions,	
	11. Lhokiye Sema, DESO	Creation of Demonstration unit at KVK Farm		

12. V. Vikugha Sema, DPO, LRD	Development of Vegetable village	demonstrations etc.
	under protected cultivation	
13. I. Chubatoshi, DHO	Progressive farmers meet in May (2	
	villages from each block) to discuss various problems and issue faced	
	by farmers of otherblock.	
	by farmers of otherblock.	
14. Dr. Meyatoshi Aier, CVO &PD	Soil testing in other blocks to study	
	the soil nutrient status	
15. Dr. Kundan Kumar, SMS	Identification of suitable crops for	
	each block	
16 Ma Edanlı Chiahi ACTO	Hadeka arandan kashaslari	
16. Ms. Edenly Chishi, ACTO	Updates regarding technology provided by SASRD to KVK	
	provided by SASKD to KVK	
17. Dr. Visakho, ACTO	To study disease occurrence in	
	Colocassia after paddy mulching (if	
	any)	
18. Kaiho Achumi, ATM	Pre SAC meeting at SASRD to	
,	finalise Action Plan to be chaired by	
	Dean, SASRD	
19. Chubatsur Jamir, BTM, ATMA	Introduction of linseed	
20. AolemlaKichu, BTM,	DONER HUB STINER – SPOC/SASRD	
Zunheboto		
21. Tongpangkokba Jamir, AFI		
21. Tongpangkokba Jamii, Ari		
22. Gukhevi, Farmer		
23. Abner, Farmer		
24. Prof. B. Kilangla, Dean RDC		
25. Vinato, Farmer		
26. Akavi Maru, AFA		
20. Akavi ividi u, Al A		
27. K. Kikato Zhimomi, Al		
28. Dr. Rakesh Kumar Chaurasia.		
Sr. Scientist & Head		
29. Dr. Z. Nongothung Ezung,		
SMS		

^{*} Attach a copy of SAC proceedings along with list of participants

Proceedings of 10th SAC meeting of KVK, Zunheboto, Nagaland University

The 10th Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, Zunheboto Nagaland University was held on 12th February 2019 at Conference Hall, Nagaland University at 11:30 am under the Chairmanship of Prof. P. Lal, Vice Chancellor Nagaland University. The meeting was attended by Director, ATARI, Zone – VII Dr. Bidyut C. Deka as the special guest along with Dean Incharge, Dr. L. Daiho, Professor & Head, Plant Pathology, Dr. A.K. Sahu, Asstt. Professor, Agril statistics, Dean RDC, Prof. B. Kilangla Jamir, HoDs and representatives of Agri & Allied departments of Zunheboto, PD ATMA and his team and farmers. Dr. L. Daiho, Professor & Head, Plant Pathology, SASRD, Nagaland University welcomed all the members. The agenda items included the presentation of Annual Report 2018-19 and Annual Action Plan 2019-20 of KVK to SAC members for their valuable suggestions/ recommendations which can be taken up by the KVK for improving the Agri. and allied sectors in the district.

Agenda	Subject	Resolution/ Recommendations	Actions
KVK/LUM/10 th	Annual	Annual Report for the year 2018-19 was presented	
SAC /12-02-19/ 1	Report	by Dr. Rakesh Kumar Chaurasia, Sr. Scientist &	
		Head, KVK.	
		All the activities carried out by SMS's and	
		Programme Assistant of different discipline was	
		presented in detail to the SAC members.	
		The following resolutions/recommendations were	
		made:	
		Certification of seeds	DAO to initiate the process of seed certification.
		Database of Doubling farmers income – village/individual farmer profile for benchmark data.	SMS, Extension (KVK)
		Inclusion of 2 new villages per year	Sr. Scientist & Head & SMS/ ACTO (KVK)
KVK/LUM/10 th	Annual	Annual Action Plan for the year 2019-20 was	
SAC /12-02-19/ 2	Action Plan	presented by Mrs. Edenly Chishi, ACTO (Horticulture), KVK Zunheboto	
		Inclusion of 2 Nos. Of OFT Under Extension discipline	SMS, Extension (KVK)
		Seedling produced by KVK should be of good quality/ from certified source.	Farm Manager, SMS/ ACTO (KVK)
		Vermicompost production to increase upto 1000	Farm Manager (KVK)
		kg/year	
		Arrangement of Coffee roasting/ grinder machine at Litta New Village	PD, LRD
		Organic certification of farmers' produce	Agril. Extn. To study the feasibility and linkage with farmers.
		Creation of Demonstration unit at KVK Farm	Agri & Allied, ATMA under convergence programme (RKVY)
		Development of Vegetable village under protected	DHO, Mr. Kakuto,Farmer, Litta
		cultivation	New, ACTO (Horti.) KVK to
			initiate the development of
			vegetable village.

	1
Progressive farmers meet in May (2 villages from	KVK, Agri & Allied, ATMA
each block) to discuss various problems and issue	
faced by farmers of other block.	
Soil testing in other blocks to study the soil nutrient	ACTO (Horti) and (Plant
status	protection)
Identification of suitable crops for each block	All SMS/ ACTO (KVK), ATMA
Updates regarding technology provided by SASRD	Sr. Scientist & Head (KVK)
to KVK	
To study disease occurrence in Colocassia after	ACTO (Plant Protection) KVK
paddy mulching (if any)	
Pre SAC meeting at SASRD to finalize Action Plan to	Sr. Scientist & Head, KVK, Dean
be chaired by Dean, SASRD	SASRD.
Introduction of linseed	Farm Manager
DONER HUB STINER – SPOC/SASRD	Sr. Scientist & Head (KVK) to
	discuss with Dean SASRD about
	the technology available under
	STINER.

List of participants

Name and Designation of Participants

- 1. Dr. Bidyut C. Deka, Director ATARI
- 2. Prof. Pradeshi Lal, Vice Chancellor, NU
- 3. Dr. Abemo, Registrar, NU
- 4. Anatoli, Farmer
- 5. Shiqheli, Farmer
- 6. Kakuto, Farmer
- 7. Vikishe, Farmer
- 8. K. InaviChishi, Project Officer DRDA
- 9. A.K. Sahu, Ast. Professor, NU
- 10. L. Daiho, Professor, NU
- 11. Lhokiye Sema, DESO
- 12. V. Vikugha Sema, DPO, LRD
- 13. I. Chubatoshi, DHO
- 14. Dr. Meyatoshi Aier, CVO &PD
- 15. Dr. Kundan Kumar, SMS
- 16. Ms. Edenly Chishi, ACTO
- 17. Dr. Visakho, ACTO
- 18. Kaiho Achumi, ATM
- 19. Chubatsur Jamir, BTM, ATMA
- 20. AolemlaKichu, BTM, Zunheboto
- 21. Tongpangkokba Jamir, AFI
- 22. Gukhevi, Farmer
- 23. Abner, Farmer
- 24. Prof. B. Kilangla, Dean RDC
- 25. Vinato, Farmer
- 26. Akavi Maru, AFA
- 27. K. Kikato Zhimomi, Al
- 28. Dr. Rakesh Kumar Chaurasia. Sr. Scientist & Head
- 29. Dr. Z. Nongothung Ezung, SMS

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1	Agri + horti
2	Agri + horti + Animal husbandry
3	Agri + Animal husbandry

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

SI.	Agro-climatic Zone	Characteristics
No		
1	Agro Ecological Sub Region (ICAR)	Warm to hot moist (humid to per humid eco sub region), Tropical to subtropical (D2 A9)
2	Agro-Climatic Zone (Planning Commission)	Eastern Himalayan Region
3	Agro Climatic Zone (NARP)	Upper Brahmaputra Valley zone, Sub tropical hill zone (2,3)

2.3 Soil type/s

SI.	Soil type	Characteristics	Area in ha
No			
1	Deep sandy loam to loamy soils	Akhuhuta series, Fine, mixed, thermic, typic Dystrudepts	36600
		Langposeries , Fine loamy, mixed, thermic, Dystric	2040
		Eutrudeps	

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

SI. No	Crop	Area (ha)	Production (ton)) Productivity (Qtl /ha)		
1.	Jhum paddy	9410	18510	19.6		
2.	T.T.C/W.R.C Paddy	4210	11500	27.3		
3.	Maize	10100	19940	19.7		
4.	Jowar	40	40	10		
5.	Small Millet	810	910	11.2		
6.	Arhar	280	250	8.9		
7.	Jobstear	120	120	10		
8.	Urd/ Moong	30	30	10		
9.	Nagadal	460	530	11.5		
10.	Rajma (kholar)	740	940	12.7		
11.	Beans	200	260	13		
12.	Horse gram	40	40	10		
13.	Pea	600	660	11.1		
14.	Groundnut	120	120	10		
15.	Soyabean	7610	9760	12.8		
16.	Sesamum	150	90	6		
17.	Perilla	210	130	6.2		
18.	Castor	30	20	6.6		
19.	Rapeseed/Mustard	2120	2150	10.1		

Source: Statistical handbook of Nagaland 2017

2.5. Weather data

Month	Average Rainfall (mm)	Temperature ⁰ C		Relative Hun	Relative Humidity (%)		
		Maximum Minimum		Maximum	Minimum		
Jan	0.5	20.4	7.5	81.6	33.3		
Feb	1.5	21.9	9.6	83.5	43.4		
Mar	2.2	24.9	12.7	80.0	33.1		
April	9.2	27.5	15.3	88.0	43.5		

May	8.4	29.2	19.5	87.6	46.9
June	19.8	29.7	20.1	95.1	74.6
July	23.5	28.0	19.7	93.6	80.5
Aug	22.0	28.5	19.0	92.3	71.9
Sept	14.6	28.5	21.4	93.0	76.7
Oct	3.1	27.8	19.0	91.8	60.4
Nov	0.9	26.0	14.9	90.7	48.2
Dec	0.4	21.3	8.7	87.2	42.2

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

3. Category	Population	Production	Productivity
Cattle	·	<u>.</u>	
Crossbred	11485		
Indigenous	27292		
Buffalo	14		
Sheep			
Crossbred	0		
Indigenous	0		
Goats	9678		
Pigs			
Crossbred	39631		
Indigenous	59691		
Rabbits	917		
Poultry			
Hens			
Desi	205112		
Improved			
Ducks	5476		
Turkey and others			

Source: Statistical handbook of Nagaland 2017

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2019)

SI.	Taluk/ Eleka	Name of	Name of the	Major crops &	Major problem	Identified thrust area
No.	Taluk/ Eleka	the block	village	enterprises	Identified	

1	Akuluto ,Atoizu,	Akuluto ,Atoizu,	Zaphumi, Shichimi,	Paddy, Orange, Maize, Tomato,	Heavy weed infestation in existing	1. Identification of farming system of
	Zunheboto,	Zunheboto,	Alaphumi,	Brinjal,	cropping system, lack	Zunheboto District at
	Suruhoto	Suruhoto	Lumami	Cucumber,	of post - harvest	different altitude and
			Sumi Settsu	Ginger, Chilli,	management facilities,	settlement.
			Lumithsami	Banana,	lack of improved breed	2.Collection and
			Sastami	Pineapple,	of pigs and fowl. Lack	identification of
			Pishumi	Colocassia,	of financial support.	available crop
			Litami Old	Tapioca, Tea,	Lack of HYV of crops.	germplasm
			Litami New	Piggery, Poultry.	Lack of employment	3.Improvement in
			Aotsakilimi,	Goattery	opportunities	existing shifting
			Phisa, , Phuye	Strawberry,		cultivation by
			Old, Phuye,	Rabbitry, Kiwi,		scientific intervention
			Ajiqami,	large		4.SHG formation for
			Tichipami,	cardamom,		small scale enterprise
			Lokobo,	soybean		5. Improved package
			Sapotimi,			of practices for orange
			Kholeboto,			cultivation
			Zhekuto			6. Post harvest
						management of
						Horticulture and field
						crops
						7. Piggery, poultry and
						dairy up-gradation
						and improved
						management

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2019

Discipline	OFT (1	echnology Asses	sment and	Refinement)	FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprise			
	Numl	per of OFTs	Numb	er of Farmers	Num	nber of FLDs	Numb	er of Farmers
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	2	2	4	4	3	3	90	125
Horticulture	2	2	7	7	2	1	10	5
Plant Protection	2	2	6	3	2	2	6	6
Home science	2	2			2	2		55
Animal Science	4	3	30	25	6	4	57	37
Total	12	11	47	39	15	12	163	228

Note: Target set during last Annual Zonal Workshop

Training (incl		sored, vocational a		rainings car	ried	Extension Activities				
Nu	mber of Co	urses	Numbe	r of Particip	ants	Numb	er of activiti	es Numbe	er of participants	
Clientele	Targets	Achievement	Targets	Achieven	nent	Targets	Achievem	ent Targets	Achievement	
Farmers						15	24		245	
Rural youth										
Extn.										
Functionaries										
Total										
	Seed	Production (ton.)				P	lanting mate	erial (Nos. in lak	n)	
T	arget	Achieve	ement			Target		Achievement		
			7.2							

Note: Target set during last Annual Zonal Workshop

4. B. Abstract of interventions undertaken during 2019

						Interventi	ons		
SI N o	Thrust area	Crop/ Enterprise	Identified problems	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of trainin g for extensi on person nel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal evaluatio n	Soybean	Low yield	HYV of Soybean		Package and practices of soybean		Field visit	5kg
2	Integrate d crop managem ent	Maize + Beans	Low cropping intensity	Intercroppi ng of maize and beans				Field visit	10Kg

3	Crop productio n	Soybean	Low yield		FLD on Soybean JS 9560		Packag e and practic es of soybea n	Field visit	450kg
4	Crop productio n	Field pea	Low yield		FLD on Field Pea Aman		Packag e and practic es of field pea	Field visit, Field day	500kg
5	Crop productio n	Maize	Low yield		FLD on Maize HQPM 1		Packag e and practic es of maize	Field visit	125kg
6	Vegetable productio n	French beans	Low yield due to non availability of high yielding variety	Evaluation of French beans variety Arka Sharath		Organic French beans cultivation.			8 kg seeds
7	Organic nutrient managem ent	Okra	Low yield due to low soil fertility	Cultivation of Okra by using Organic sources of nutrients		Organic cultivation of okra			8 kg seeds, biofertilize rs, rock phosphate , vermicom post
8	Spice productio n	chilli	Low yield and short keeping quality in local variety		Demonstratio n on package of practices of Chilli var. Arka Harita	Package of practice for chilli			0.3 kg

9	IPM	Brinjal(Arka Neem soap)	Incidence of fruit and shoot borer infestation	Assessment of Application of Arka Neem Soap to reduce Incidence of Fruit and shoot borer infestation in Brinjal				Arka Neem soap
1 0	IDM	Ginger (Storage)	Incidence of ginger rhizome in storage	Assessment of storage technology for ginger rhizome rot		IDM on ginger storage	Method Demonstra tion	Ginger, Trichoder mma
1 1	IPM	Jhum paddy (Yellow sticky trap)	Leaf folder infestation in jhum paddy		Popularizatio n of yellow sticky trap for leaf folder management in jhum paddy	Importance of yellow sticky trap in pest manageme nt in jhum rice field	Methd Demonstra ion	Yellow Sticky Trap
1 2	Mushroo m	Oyster mushroom	Non- cultivation		Popularisatio n of Oyster mushroom	Mushroom cultivation	Methd Demonstra ion	Mushroom spawn
1 3	Small Scale income generatin g enterpris es	Processing & value addition of Bamboosh oot	Lack of knowledg e on processin g and value addition	Preservati on technique s of Bamboosh oot		Preparatio n of bamboosh oot pickle Preparatio n of Tapioca cake		
1 4	Value addition	Fruits & Vegetable s	No technolog y on post harvest managem ent		Preservation of locally available vegetables n fruits by drying method Carrot Radish Banana Gooseberry			

1 5	Value addition	Processing & Value addition of Tapioca	Lack of knowledg e on processin g and value addition	Cake preparatio n from tapioca flour		Training on different methods of flower drying		
1 6	Drying Techniqu es	Flowers	No technolog y on post harvest managem ent		Different techniques of flower drying. Cocks comb Zinnias Chrysanthe mum Wild marigold Euphorbia			
1 7	Poultry	Vanaraja	Poor performan ce by local indigenous birds	Performanc e of Vanaraja birds at different locations		Poultry productio n and managem ent	Trainings	
1 8	Poultry	Turkey	Poor performan ce by local indigenous birds	Performanc e evaluation of Turkey (Broad breasted Bronze)		Poultry productio n and managem ent	Trainings	
1 9	Piggery	Hampshire cross pigs	Poor performan ce by local indigenous Pigs	Assessment of Growth Performanc e of Crossbreed Pigs (Hampshire cross) under local feeding		Piggery rearing and managem ent	Trainings	

2 0	Poultry	Vanaraja	Non availability of good quality breeds of chickens	FLD on Vanaraja Birds	Poultry productio n and managem ent	Trainings
2 1	Feeding managem ent	Pig	Poor swine feeding practices	Popularizatio n of Computed pig ration	Swine productio n and managem ent	Trainings
2 2	Feeding managem ent	Dairy/Cattl e	Non availability of good quality fodder	Popularizatio n of Plantation of Hybrid Napier	Dairy production	Trainings
2 3	Health managem ent	Pig	Poor health care practices	Demonstratio n on Management of Swine Fever in Pigs Under Farmers Field Condition	Swine productio n and managem ent	Trainings

3.1 Achievements on technologies assessed and refined during 2019

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

Thematic areas	Cerea Is	Oilsee ds	Pulses	Commercia I Crops	Vegetable s	Fruits	Flowe r	Plantatio n crops	Tuber Crops	TOTAL
Varietal Evaluation		1			2					3
Seed / Plant production	1	1	1							3
Weed Management										
Integrated Crop Management	1									1
Integrated Nutrient Management					1					1

TOTAL	3	2	1	2	4	1	1	2	16
Nutrition garden									
Drying techniques									
Small Scale income generating enterprises							1		1
Resource conservation technology									
Integrated Disease Management				1					1
Integrated Pest Management	1				1				2
Value addition						1		2	3
Farm machineries									
Drudgery reduction									
Mushroom cultivation				1					1
Integrated Farming System									

^{*} 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	Cerea Is	Oilseed s	Pulses	Commercia I Crops	Vegetable s	Fruit s	Flowe r	Plantatio n crops	Tube r Crops	TOTAL
Varietal										

Frank := #! =	1		1			
Evaluation						
Seed / Plant						
production						
•						
Weed						
Management						
_						
Integrated						
Crop						
Management						
Integrated						
Nutrient						
Management						
Integrated						
Farming						
System						
Mushroom						
cultivation						
Drudgery						
reduction						
Farm						
machineries						
Post Harvest						
Technology						
recimology						
Integrated						
Pest						
Management						
Management						
Integrated						
Disease						
Management						
Resource						
conservation						
technology						
	 <u> </u>	 			 	
Small Scale						
income						
generating						
enterprises						
1						
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		3			1			4
Nutrition					1			1
Management								
Disease of					1			1
Management								
Value Addition								
Production and Management								
Management								
Feed and Fodder	1							1
Small Scale income								
generating enterprises								
	1	2			2			7
TOTAL	1	3			3			7

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)

SI. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cro pping system/ Enterpris e	Trials Refined (Data on the parameter should be provided)		Feedback from the farmer	Feedbac k to the Research er	B:C Ratio (if applicable)
1	OFT on Soybean VL 63	Low yield	VL 63	Rainfed	2	Enclosed in annexure B (1)	Want to replace the old variety		3.9
2	Intercropping of Maize & Beans	Low cropping intensity	Maize + Beans	Rainfed	2	Enclosed in Annexure B (2)	Want to continue for the next season		3
3	Evaluation of French beans var. Arka Sharath	Low yield due to non-availability of high yielding variety	Arka Sharath	Rainfed	4	Enclosed in annexure A (1)			2.76 (Technology) 1.91 (Farmers practice)
4	Cultivation of Okra by using organic sources of nutrients	Low yield due to low soil fertility	Seed treatment of biofertilizer AZB &PSB@ 7.5/100g seeds. Application of rock phosphate 313kg/ha, FYM 5t/ha and	Rainfed	3	Enclosed in annexure A (2)			Technology: 3.25 Farmers practice- 2.07

			vermicompost 1t/ha at the final land preparation					
5	Assessment of Application of Arka Neem Soap to reduce Incidence of Fruit and shoot borer infestation in Brinjal	Incidence of fruit and shoot borer infestation	Arka Neem Soap	Brinjal	3	Failure due to poor germination of seeds in the first attempt at Nursery		
6	Assessment of storage technology for ginger rhizome rot	Incidence of ginger rhizome in storage	a)Pit Size-1X2m b sand c) <i>Trichoderma</i>	Ginger	3	On-going		
7	Preservation techniques of Bamboo shoot	Lack of knowledge on processing and value addition	Processing & value addition	Processin g & value addition	2	Shelf life i. Dried bamboo shoot- > 1 year ii. Bamboo shoot pickle- > 6 months iii. Fermented bamboo shoot- > 1 year iv. Bamboo shoot in acid brine- 8 months		
8	Cake preparation from tapioca flour	Lack of knowledge on processing and value addition	Processing & value addition	Processin g & value addition	3	According to the sensory evaluation it was found that Banana tapioca cake was more acceptable than plain tapioca cake and also scored higher points over		

						plain cake in terms of its taste and aroma. The consistency/ texture of both the cake was judged equally and well accepted			
9	Performance of Vanaraja birds at different locations	Poor performance by local indigenous birds	Vanaraja	Vanaraja	5	Technology 1. Average Body Weight gain till 24 th week of age(M= 3.0 kg, F=2.6 kg) 2. Average daily body weight gain till 24 th week of age (M= 16 g/day, F= 14g/day) 3. Age at first egg laying (24 th -25 th week) 4. Mortality rate and disease incidence rate(5.7% and 0% resp) 5. Average egg production per bird/month (10-11 nos.) 6. BC ratio (3.4)	Satisfactory	Successf	3.4
						1. Average Body Weight gain till 24 th week of age(M=1.4 kg, F=0.8 kg) 2. Average daily body weight gain till 24 th week of age (M= 7 g/day, F=4g /day) 3. Age at first egg laying (26 th -27 th week) 4. Mortality rate and disease incidence rate(8%			1.7

						and 8% resp			
						5. Average egg production			
						per bird/month (8-10 nos.)			
		_				6. BC ratio (1.7)			
10	Performance	Poor performance	Turkey	Turkey	10	Technology	Satisfactory	Successf	2.9
	evaluation of	by local						ul	
	Turkey (Broad	indigenous birds				1. Average Body Weight			
	breasted					gain till 28 th week of			
	Bronze)					age(M= 8.09 kg, F= 6.56 kg)			
						2. Average daily body weight gain till 28 th week of			
						age (M= 41.27 g/day, F=			
						33.45 g/day)			
						3. Age at first egg laying			
						(24 th -25 th week)			
						4. Mortality rate and			
						disease incidence rate(8%			
						and 0% respectively)			
						5. Average egg production			
						per bird/month (7-8 nos.)			
						6. BC ratio (32.9)			
						,			
11	Assessment of	Poor performance	Hampshire cross	Pig	10	Technology			ongoing
	Growth	by local	Pig						
	Performance of	indigenous Pigs				1. Average Body Weight			
	Crossbreed Pigs					gained till 28 th week of age			
	(Hampshire					(M=27.52 kg, F=26.95 kg)			
	cross) under					2. Average daily body			
						weight gain till 28 th week of			
	local feeding					age.(M=139.14 g/d,			
						F=138.08g/d) 3.Mortality rate and disease			
						<u> </u>			
						incidence rate (2% and 0%			
						respectively)			
						4. Litter size, Age at first			
						farrowing:			
						5. BC ratio			

Farmers practice	
1. Average Body Weight gained till 28 th week of age (M=20 kg, F=17 kg) 2. Average daily body weight gain till 28 th week of age.(M=102.04 g/d, F=86.73g/d) 3. Mortality rate and disease incidence rate (6-7% and 4% resp.) 4. Litter size, Age at first farrowing: 5. BC ratio	

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

Annexures

Annexure	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B:C Ratio (if applicable)
Annexure A (1)	Technology: Length of pod(cm)-14.7, No.of pods/plant-35, Yield of pod/ha(t)-7.5, Net return(Rs/ha)- 1,91,500	Satisfied with technology provided as the yield is high and the cost of cultivation is lesser than farmers practice (pole type)	Result is higher in technology provided so it can be taken up for FLD	BC ratio-2.76(Technology) BC ratio-1.91(Farmers practice)

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

	Farmers practice: Length of pod(cm)-12.5, No.of pods/plant-15, Yield of pod/ha(t)-5.2, Net return(Rs/ha)- 1,01,100			
Annexure A (2)	Technology: Date of sowing-2/4/19, Days of 50% flowering-65, Crop duration-120 days, Plant height (cm)-90.5, Length of fruit(cm)-17.9, No.of fruits/plant-12, Weight of single fruit(g)-18.16 Yield/ha(t)-8.7, Net return(Rs/ha)-1,81,168 Farmers practice: Date of sowing-2/4/19, Days of 50% flowering-75, Crop duration-100 days, Plant height (cm)-80, Length of fruit(cm)-14.8, No. of fruits/plant-10, Weight of single fruit(g)-13.5 Yield/ha(t)-5.4, Net return/ha-84000	Satisfied with technology as all the parameters were found higher than the control	It can be taken up for large scale adoption	Technology: BC ratio-3.25 Farmers practice; BC ratio-2.07

Annexure B (1)

Parametres:	
No. Of days to maturity	: 135 days
Highest yield	: 2480 kg/h
Lowest yield	: 2285 kg/h
Average yield	: 2382.5 kg/h

Cost of cultivation for 1h	: Rs. 38850.00
Gross return	: Rs. 154,895.00
Net return	: Rs. 116,045.00
B.C. ratio	: 3.9
Local Check JS 335	
Increase in %	: 36%

Annexure B (2)

Annexure B (2)	
Results of Maize	
PARAMETRES:	
Plant height	: 178 cm
Days to 50 % Tasseling	: 57
No. of cob/plant	:3
No. of grain/cob	: 286
Seed yield/plant	: 84g
Seed yield/h	: 5.4t/h
Result of Beans	
PARAMETRES:	
Plant height	: 38.7 cm
Days to 50% flowering	: 60 days
Crop duration	: 130 days
Seed yield/plant	: 20g
Seed yield/h	: 1.3 t/h
B.C. Ratio	:3

3.2 Achievements of Frontline Demonstrations during 2019

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

List of technologies demonstrated during previous years and popularized during 2019 and recommended for large scale adoption in the district

SI. No	Crop and Variety/ Enterprise	Technology demonstrated	Horizontal spread of technology		
1	Soybean	JS9560	Litta new, Phushumi, Sastami, Lumami,		
			Alaphumi		
2	Maize	HQPM1	Aotsakilimi, Phuyo old, Phuyu New, Lokobo,		
			Atoizu		

* 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.)

SI.	Crop	Thematic area	Technology Demonstrat ed	Season and year	Area (No. of farmers/ Area (ha) demonstration		Area (ha)		Area (ha)		demonstration		shortfall in achievement		(Kg/	of soil ha) K
					Propose d	Actua	SC/ST	Other s	Tot al								
					"				u.								
1.	Maize	Crop	HQPM1	Khari	5	5	53		5		Rainfed						
		production		f					3								
				2019													
2.	Soybean	Crop	JS9560	Khari f	10	10	35		3		Rainfed						

		production		2019				5				
3	Field pea	Crop production	Aman	Rabi	10	10	32	3 2		Rainfed		
4	Chilli	Varietal trail	Arka Harita	April 2019	0.3	0.3	5	5	well but p were damaged	due neavy		
5.	Jhum paddy	IPM	Yellow sticky trap	Khari f 2019	1	1	20	2 0		Rainfed		

c. Performance of FLD on Crops during 2018-19

		Themati	Area	Avg.	yield	%	Addit	ional	Data	on	Eco	n. of demo	o. (Rs./ha	.)	Eco	on. of che	ck (Rs./Ha	a.)
		c area	(ha.)	(Q/	'ha.)	increa	data on		param									
						se in	yield (0	Q/ha.)	other									
SI. No.	Crop			Demo.	Check	Avg. yield	H*	L*	yield, e.g., disease incidence, pest incidence etc. Demo Local		GC**	GR**	NR**	BCR **	GC	GR	NR	BCR
									Demo	Local								
1	Mai ze	Crop produ	5	72	55	31	76	68			38850	10800	69150	2.7	38850	82500	43650	2.1

		ction																
2	Soy bea n	Crop produ ction	10	18.5	17.5	6	18.8	18.3			38850	11130 0	72450	2.8	38850	10500 0	66150	2.7
3	Field Pea	Crop producti on	10	13.3	10.5	27.5	13.9	12.8			29750	93730	63980	3.1	29750	73500	43750	2.4
4	Chil li	Variet al trail	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Jhum paddy	IPM	1	23.4	18.3	27.8%	25.5	21.4	% infestat ion= 5	% infest ation = 16	31000	46800	15800	1.5	30500	36600	6100	1.2

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

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

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

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

d. Extension and Training activities under FLD on Crops

SI.No.	Activity	No. of activities	Date	Number of	participa	nts	Remarks
SI.NO.	Activity	organized	Date	Gen	SC/ST	Total	
1	Field visit	7	22/5/19, 23/5/19, 5/6/19, 11/9/19,		120	120	

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

			13/9/19, 14/10/19, 28/10/119			
2	Field day	1	3/6/19	22	22	
3	Training	7	17/5/19, 10/7/19, 22/5/19, 21/8/19, 20/6/19, 29/11/19	144	144	
4	Method demonstration	2	20/6/19, 29/11/19	52	52	

e. Details of FLD on Enterprises

(i) Farm Implements

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

^{*} Field efficiency, labour saving etc.

(ii) Livestock Enterprises

i	Catego a	em Nantic e o	No. of	No. of unit	No. of anim als,	Major Perfo		chang e in the para	Oth parar ers any	met (if		con. of (Rs./I		, .			of che /Ha.)		Remar ks
D Po	Dairy, oultry etc.)	nolo y	farm g ers	S	ry birds etc.	Demo	Check	mete r	De mo	C he ck	G C* *	GR* *	N R* *	B C R **	G C	G R	N R	BC R	

1		Breed			20	500		1.	1.		Rs	Rs.	Rs	3.	Rs	Rs	Rs	1.	
		intro						Average	Avera			897		09	.2			82	
		ducti					1 Average	Body	ge		29	per	60		70	49	22		
		on					1. Average Body Weight	Weight	Body		0	bird	7/		pe	1	1		
							gain till 28 th	gain till	Weig		pe		-		r	ре	pe		
							week of	28 th	ht		r		pe		bi	r	r		
							age(M=	week of	gain		bi		r		rd	bi	bi		
							3.194 kg, f=	age(M=	till		rd		bi			rd	rd		
							2.820kg)	1.920 kg,	28 th				rd						
							2. Average	f=	week										
							daily body	1.590kg)	of										
							weight gain		age										
							till 28 th week	2.	(M=6										
							of age (M	Average	0.11										
							=15.2 g/day,	daily	%,										
	Poultry		Vanar	20			F =13.4	body	F=56.										
	louitry		aja	20			g/day)	weight	38%)										
							3. Age at	gain till	_										
							first egg	28 th	2.										
							laying (7-8	week of	Avera										
							months)	age (M =	ge										
							4. Mortality rate and	9.1	daily										
							disease	g/day,	body										
							incidence	F =	weigh										
							rate(12%	7.5g/day)	t gain										
							and 0% resp)	F =13.4	till										
							5. Average	g/day) 3. Age at	28 th										
							egg	first egg	week										
							production per	laying (9	of										
							bird/month	months)	age										
							(10-11.)	4.	(M										
								Mortality	=59.8										
								rate and											

				-l:	00/			ı	1	 I	1	1	٦
				disease	0%,								
				incidence	_								
				rate(15%									
				and 10%	=55.9								
				resp)	7%								
				5.)								
				Average	3.								
				egg	Age								
				producti	at								
				on per	first								
				bird/mon	egg								
				th (8-10.)	laying								
					(106.								
					67%)								
					07707								
					4.								
					Mort								
					ality								
					rate								
					and								
					disea								
					se								
					incide								
					nce								
					rate(
					80%								
					and								
					100 %								
					resp								
)								
					5.								
					Avera								
					ge								
					egg								
					produ								
					ction								
					per								

2		Feedi			5	5(100		1.	bird/ mont h (81.8 1%.)						NA
	Piggery	ng mana geme nt	Popul arizat ion of Comp uted pig ration	5	3	kg per unit)	1. Average Body Weight gain till 12 months of age (M= 82.74kgF= 74.49kgkg) 2. Average daily body weight gain(M=226 g/day,F=204 g/day) 3. Age at first heat of gilt(8 months)	Average Body Weight gain till 12 months of age (F)=56.00 kg 2. Average daily body weight gain(C=1 53g/day) 3. Age at first heat of gilt(9- 10 months)	Avera ge Body Weight gain till 12 mont hs of age(7 1.24 %) 2. Avera ge daily body weigh t gain(71.24 %) 3. Age at						

									first heat of gilt(8 0%)						
3	Dairy	Feedi ng mana geme nt	Plant ation of Hybri d napie r	2	2	0.25 ha per farme r	1.No of cuttings done(3) 2. Average Yield per cutting(2584 .00q/ha)								Ongoin g
4	Piggery	Disea se mana geme nt	Demo nstrat ion on Mana geme nt of Swine Fever in Pigs Unde r Farm ers Field Condi tion	10	10	20	1. Susceptibilit y rate (%) 2. Survivability rate (%) 3.Mortality rate (%)	1. Suscepti bility rate (%) 2. Survivabi lity rate (%) 3.Mortali ty rate (%)							Ongoin g

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

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

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

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

(iii) Fisheries

SI. No.	Catego ry, e.g. Comm on	Them atic area	Nam e of	No. of	No. of unit	No. of	Major Perforn parame	eters /	% chang e in the	Other parame any)	eters (if		n. of (/Ha.)		в	Econ. (Rs./H	of che	ck N	вс	Remark s
	carp, ornam ental fish etc.	alea	Tech nolog y	farm ers	s	fingerlin gs	Dem o	Chec k	para mete r	o	k	C* *	R **	R **	C R **	- GC	GK	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.

(iv)Other enterprises

SI. No.	Categor y/ Enterpri	Them atic	Name of Techn	No. of farme r	No. of	Major Performance parameters /	% chang e in	Other parameters (if any)	Econ. of demo. (Rs./Ha.)	Econ. of check (Rs./Ha.)	Remark s	
------------	---------------------------	-----------	---------------------	----------------------	-----------	--------------------------------------	--------------------	---------------------------	-----------------------------	-----------------------------	-------------	--

	se, e.g., mushro	area	ology		unit s	indicato	ors	the para	Demo	Check	G C*	G R*	N R*	BC R*	GC	GR	N R	BC R	
	om, vermico mpost, apicultu re etc.				J	Demo	Check	meter			*	*	*	*					
1	Mushro om	Mushr oom produ ction	Oyste r mushr oom	30	3	1.Yiel d/bag = 1.5kg/ bag	-				40 00	20 25 0	16 25 0	5. 06					
2	Drying techniq ues	Drying techni ques	Differ ent techni ques of flower drying	32 farme rs	1														Enclose d in annexur e A
3	Drying Techniq ues	Drying techni ques	Preser vation Techn iques of fruits and veget ables by	23 farme rs	1														Enclose d in annexur e B

	drying								
	meth								
	od								

Annexure A

Different Techniques of flower drying

Techniques	Observation days	Drying %	Color of petals	Keeping quality
Air drying	4	62%	Color changed	>5 months
Silica gel	4	66%	Natural color retained	>6 months
Sand drying	6	63%	Color changed	>5 months
Press drying	7	64%	Color changed	>5 months

Annexure B

	Observation days	Drying %	Color of petals	Taste	Keeping quality
Carrot	3	58%	Light orange	Sweet	>3 months
Radish	3	62%	Light brown	Sweet	>4 months
Banana	5	56%	Dark Brown	Sweet	>4 months
Gooseberry	5	62%	Dark brown	Sour	>6 months

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

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

(v) Farm Implements and Machinery

SI. No.	Name of implement	Crop	Name of Technolog Y demonstr	No. of farmers	Area (In ha.)	Field observation (Output/ man-hours)	% change in the paramete r	Labour reduction (Man days)	Cost reduction (Rs. per ha. or Rs. per	Remarks
---------	-------------------	------	---------------------------------------	-------------------	------------------	---------------------------------------	-------------------------------------	--------------------------------------	---	---------

		ated		Demo	Check		unit etc.)	
1				•				

f. Performance of FLD on Crop Hybrids

SI.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yie (Q/ha.)		% increase in Avg. yield	Addit data d demo yield (Q/ha	on o.	Econ. o	f demo. (Rs./Ha.)		Econ. of	f check (F	Rs./Ha.)	
					Demo	Check		H*	L*	GC**	GR**	NR**	BCR **	GC	GR	NR	BCR

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

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

3.3. Achievements on Training during 2019

3.3.1. Farmers and Farm Women in On Campus including Sponsored On Campus Training Programmes programmes sponsored by external agencies)

(*Sp. On means On Campus training

Thematic area		of Trainir Courses)	igs		Participants		
	On-	Spon	Tot	General	SC/ST	Total	Gr

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

	Camp us	On*	al	N	1ale	Fer	male	То	tal	М	ale	Fer	nale	Tot	al	M	ale	Fen	nale	Tot	al	<mark>an</mark> d
	(1)	(2)	(1+	On (4)	Sp. On (5)	O n (6	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7	O n (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+1 0)	Sp O n (d = 9+ 11	On (4+ 8)	Sp. On (5+9)	On (6+1 0)	Sp. On (7+ 11)	On (x= a +c)	Sp. On (y= b +d)	To tal (x +y)
I. Crop Production	on																					<u> </u>
Weed																						
management																						
Resource																						
Management																						
Nutrient																						
Management																						
Soil and																						
water																						
conservation																						
Soil																						
management																						
Organic																						
grower																						

Seed production																		
Nursery management																		
Integrated Crop Management																		
Fodder production																		
Production of organic inputs																		
II. Horticulture a) Vegetable Cr	roduction																	
Producti on of low volume and high value																		
crops																		
Off- season vegetabl es																		
Nursery																		

	, ,			1	1	-						1		1
raising														1
	+ +													
Exotic														
vegetabl														
es like														
Broccoli														
Export														
potentia														
1														1
vegetabl														1
es														1
														1
Grading														
and														1
standar														1
dization														I
Protecti														1
ve														1
cultivati														1
on														1
(Green														I
Houses,														1
Shade														1
Net etc.)														I
,														1
b) Fruits		•												
Training														
and														į l
Pruning														
Lavout														
Layout														i l
and														İ

	1 1	1		1					1	1		
Manage												
ment of												
Orchard												
S												
Cultivati												
on of												
Fruit												
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Crop product ion	7		7							49	0	92	0	14	0	49	0	92	0	14	0	141
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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)

	No	o. of Tra (Cours	_									Par	ticipa	nts								Grand Total
						Gen	eral					SC	C/ST					Tota				(x + y)
			Tota	Mal	le	Fema	ale	Tota	al	M	ale	Fen	nale	Total		Male		Fema	le	Tota		-
Themati c area	O n (1)	SpO n* (2)	(1+2	On (4)	Sp. On (5)	On (6)	S p O n (7	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11	On (c= 8+1 0)	Sp. On (d= 9+1 1)	On (4+8)	Sp. On (5+9	On (6+ 10)	Sp. On (7+1 1)	On (x= a +c)	Sp. On (y= b +d)	
Weed manag ement	1		1							4	0	16	0	20	0	4	0	16	0	20	0	20
Resour ce Manag ement	1		1							2	0	16	0	18	0	2	0	16	0	18	0	18
Nutrien t Manag ement	1		1							2	0	16	0	18	0	2	0	16	0	18	0	18
Soil and water	1		1							8	0	3	0	11	0	8	0	3	0	11	0	11

				1		 													
conserv																			
ation																			
Soil	1		1				8	0	3	0	11	0	8	0	3	0	11	0	11
manag																			
ement																			
Organic	0	1	1				0	2	0	18	0	20	0	2	0	18	0	20	20
grower																			
Post	1		1				3	0	17	0	20	0	3	0	17	0	20	0	20
harvest																			
manage																			
ment.																			
Floricult		1	1				0	5	0	10	0	15	0	5	0	10	0	15	15
ure																			
Mushro							3		17		20		3		17		20		20
om	1		1																
Producti	1																		
on																			
IPM	2		2				6		34		40		6		34		40		40
Producti																			
on of																			
organic																			
inputs																			

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Organic															
farming															
Integrat															
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Farming															
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material															
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culture															
C! l.t.															
Sericult															
ure															
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d															
cultivati															
on of															
vegetabl															
e crops															
Ссторз															
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cial fruit															
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on															
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harvest															
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Nursery																			
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ture																			
crops																			
Training																			
and																			
pruning																			
of																			
orchard																			
S																			
Value	2	RY	2				0	0	52	0	52	0	0	0	52	0	52	0	52
Additio																			
n																			
Rural	1	RY	1				0	0	13	0	13	0	0	0	13	0	13	0	13
Crafts																			
Dairying																			
Sheep																			
and																			
goat																			
rearing																			
Quail																			
farming																			
Dairy	1	RY	1				3	0	17	0	20	0	3	0	17	0	20	0	20

Poultry	1	RY	1				0	2	0	13	0	15	0	2	0	13	0	15	15
Piggery	1	RY	1				0	2	0	14	0	16	0	2	0	14	0	16	16
Orname ntal fisheries																			
Para vets																			
Para extensio n workers																			
Composi te fish culture																			
Freshwa ter prawn culture																			
Shrimp farming																			
Pearl culture																			
Cold water fisheries																			

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Fish													
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and													
Stitching													
IPM													
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PRA																			
Formati	1		1	RY			3	0	17	0	20	0	3	0	17	0	20	0	20
on and																			
Manag																			
ement																			
of SHG																			
Entrepr		2	2	RY			0	78	0	12	0	207	0	78	0	129	0	207	207
eneurs										9									
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TOTAL																			

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

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

Themati c area	No	o. of Tra (Cours	inings es)		Participants		Grand Total
cuica	0	Sp	Tota	General	SC/ST	Total	

	f f	Off	I	Mal	е	Fema	ale	Tota	al	M	ale	Fen	nale	To	tal	Male	:	Fen	nale	To	tal	
				Off	Sp Off *	Off	S p O f f *	Off	SpO ff*	Off	Sp Off *	Off	Sp Off *	Off	SpO ff*	Off	SpO ff*	Off	SpO ff*	Off	Sp Off*	
Mushro om Producti on																						
Bee- keeping																						
Rodent Manage ment	1		1							3		17		20		3		17		20		20
Seed producti on																						
Producti on of organic inputs																						
Integrat ed Farming																						

Planting material producti on waterial producti on Sericult ure Protecte d coultwati on of vegetable e crops Commer cial fruit producti on Sepair and mainten ance of farm machine ry and implem ents Nursery Sericult S	· ·		1		- 1					ı			ı	ı	1
Production Sericult ure Commer cial fruit production Repair and mainten ance of farm machine ry and implem ents Commer cial series and seri	Planting														
Net															
Nermi- culture Sericult ure Protecte d cultivati on of vegetable e crops Commer clal fruit producti on mainten and mainten ance of farm machine ry and implem ents	producti														
Sericult ure Protected d cultivation on of vegetable e crops Commer cial fruit production on and mainten ance of farm machine ry and implem ents	on														
Sericult ure Protected d cultivation on of vegetable e crops Commer cial fruit production on and mainten ance of farm machine ry and implem ents															
Sericult ure Protecte d cultivation of vegetable e crops Commer cial fruit producti on a mandamainten ance of farm machine ry and implem ents Sericult	Vermi-														
Protecte d cultivation of vegetable e crops Commer cial fruit production On Repair and mainten ance of farm machine ry and impleme ents	culture														
Protecte d cultivation of vegetable e crops Commer cial fruit production On Repair and mainten ance of farm machine ry and impleme ents															
Protecte d cultivation of vegetable e crops Commer cial fruit production on Repair and mainten ance of farm machine ry and implements Repair and minuten and min															
d cultivati on of vegetable e crops Commer cial fruit producti on on mainten ance of farm machine ry and implem ents	ure														
d cultivati on of vegetable e crops Commer cial fruit producti on on mainten ance of farm machine ry and implem ents	Ductooto														
cultivati on of vegetabl e crops Commer cial fruit producti on Repair and mainten ance of farm machine ry and implem ents															
on of vegetable e crops Commer cial fruit producti on Repair and mainten ance of farm machine ry and implem ents															
vegetable crops Commercial fruit production on Repair and mainten ance of farm machine ry and implements															
e crops Commer cial fruit producti on Repair and mainten ance of farm machine ry and implem ents															
Commer cial fruit producti on Repair and mainten ance of farm machine ry and implem ents															
cial fruit producti on Repair and mainten ance of farm machine ry and implem ents	e crops														
cial fruit producti on Repair and mainten ance of farm machine ry and implem ents	Commor														
Repair and mainten ance of farm machine ry and implem ents															
Repair and mainten ance of farm machine ry and implem ents															
Repair and mainten ance of farm machine ry and implem ents															
and mainten ance of farm machine ry and implem ents	on														
and mainten ance of farm machine ry and implem ents	Renair														
mainten ance of farm machine ry and implem ents															
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Quail												
farming												
Piggery												

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Rabbit															
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Stitching											
Rural											
Crafts											

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TOTAL											

C. Extension Personnel

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

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

		o. of Tra (Cours	inings es)									Pai	ticipa	nts								Grand Total
				Genera	ı					sc/s	Т					Total						(x + y)
				Ma	le	Fema	ale	Total		Male	?	Fem	ale	Total		Male		<mark>Fema</mark>	le	Tota		-
Themati c area	O n (1)	SpO n* (2)	Tota (1+2)	On (4)	Sp. On (5)	On (6)	S p . O n (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11	On (c= 8+1 0)	Sp. On (d= 9+1 1)	On (4+8)	Sp. On (5+9	On (6+ 10)	Sp. On (7+1 1)	On (x= a +c)	Sp. On (y= b +d)	
Producti vity enhance ment in field crops																						
Integrat ed Pest																						

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Child												
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Low												
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Producti												
on and												
use of												
organic												
inputs												
Gender												
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eaming												
through												

SHGs 3.3.6. Ach	ieve	ements	on Train	ning of E	ktensi	on Pers	sonn	el in Off C	Campus	includ	ling Sp	onsoi	ed Of	f Camp	us Trai	ning Progra	mmes					
(*Sp. Off	me	ans Off	⁻ Campu	s traininį	g prog	ramme	es sp	onsored b	y exte	nal ag	encie	s)										
	No	o. of Tra (Cours	ainings ses)									Pai	ticipa	nts								Gra Tot
				Genera	I					sc/s	T					Total						
-ı .·				Ma	le	Fema	ale	Tota	al	M	ale	Fen	nale	Total		Male		Fema	le	Tota	İ	
Themati c area	O f f	Sp Off*	Tota I	Off	Sp Off *	Off	S p O f f	Off	Sp Off*	Off	Sp Off *	Off	Sp Off *	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Producti ity enhance nent in ield rops																						
ntegrat d Pest Manage nent																						
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Note: Please furnish the details of above training programmes as **Annexure** in the proforma given below

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Durat ion in days	Venue	Please specify Beneficiary		ieneral ticipan			SC/S	Γ	Gr	and To	tal
				auys		group (Farmer & Farm women/ RY/ EP and NGO Personnel)	M	F	Т	M	F	Т	М	F	Т
Agronomy	Organic Grower	Organic Grower (asci)	21/2/19 to 27/3/19	35	On	RY				2	18	20	2	18	20
Agronomy	Resource Managemen t	Resource management through organic Farming	22/2/20 19	1	On	RY				2	16	18	2	16	18
Agronomy	Nutrient Managemen t	Alder based Farming system	27/2/20 19	1	On	RY				2	16	18	2	16	18
Agronomy	Weed management	Weed Management in Field crop	14/3/20 19	1	On	RY				4	16	20	4	16	20
Agronomy	Soil and water conservation	Soil and water conservation measures	21/7/20 19	1	On	RY				8	3	11	8	3	11

Agronomy	Soil	Role of IFS practices	22/7/20	1	On	RY		8	3	11	8	3	11
	management	for improving soil health	19										
Horticultur e	Post harvest management.	Optimum harvesting stage of horticultural crops	25/2/19	1	On campus	RY		3	17	20	3	17	20
Horticultur e	Floriculture	High value floriculture	11 -16 th /3/19	6	On campus	R Y (STRY)		5	10	15	5	10	15
Plant protection	Mushroom production	Mushroom cultivation and production	25/2/19	1	KVK	RY		3	17	20	3	17	20
Plant protection	IPM	Insect pests of crops available at Zunheboto and its management	27/02/19	1	KVK	RY		3	17	20	3	17	20
Plant protection	IPM	Concept of IPM and INM	26/03/19	1	KVK	RY		3	17	20	3	17	20
Home Science	Value Addition	Preparation of Yongchak Pickle	18-06- 19	1	On	FW			25	25		25	25
Home Science	Value Addition	Preparation of Green Leaves Pakora	18-06- 19	1	On	FW			25	25		25	25

Home	Value	Preparation of Banana	19-06-	1	On	RY		26	26		26	26
Science	Addition	Chips	19									
Home	Value	Preparation of Banana	19-06-	1	On	RY		26	26		26	26
Science	Addition	Chips	19									
Home	Rural Crafts	Jewelry Making	20-06-	1	On	RY		13	13		13	13
Science			19									
Home	Value	Preparation of Radish	28-11-	1	On	FW		10	10		10	10
Science	Addition	Pickle	19									
Home	Drying	Different techniques	28-11-	1	On	FW		10	10		10	10
Science	Techniques	of flower drying	19									
Home	Value	Preparation of Radish	29-11-	1	On	FW		10	10		10	10
Science	Addition	Pickle	19									
Home	Drying	Different techniques	29-11-	1	On	FW		10	10		10	10
Science	Techniques	of flower drying	19									
Animal	Dairy	Dairy production	27-02-	1	On	RY	3	17	20	3	17	20
Science			2019									
Animal	Piggery	Piggery rearing and	15-03-	1	On	PF/FW	2	13	15	2	13	15
Science		management	2019									
Animal	Poultry	Poultry rearing and	22-03-	1	On	PF/FW	2	14	16	2	14	16
Science		management	2019									
Animal	Poultry	Poultry rearing and	11-03-	6	On	RY	2	13	15	2	13	15
Science		management	2019 to 16-03-									

			2019										
Animal Science	Piggery	Piggery rearing and management	18-03- 2019 to 23-03- 2019	6	On	RY		2	14	16	2	14	16
Agril Extn.	Formation and Managemen t of SHG	Formation and Function of SHG	27/02/2 019	1	On	RY		0 3	17	20	03	17	20
Agril Extn.	Entrepreneu rship Developmen t	Marketing Strategies on organically cultivated spices for Doubling Farmers Income	29/03/2 019	2	On	RY		6	71	132	61	71	13 2
Agril Extn.	Entrepreneu rship Developmen t	Organic cultivation of ginger and turmeric	30/03/2 019	2	On	RY		1 7	58	75	17	58	75
Others	Vermicompo sting	Vermicomposting	14 to 19 Oct 2019	6	On	PF		1	15	16	1	15	16

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

Discipline	Area of	Title of the training	Date	Durat	Venue	Please	General	SC/ST	Grand Total
	training	programme	(From –	ion in		specify	participants		

			to)	days		Beneficiary group (Farmer & Farm women/RY/ EP and NGO Personnel)	М	F	Т	M	F	Т	M	F	T
Agronomy	Crop production	Package and practices of Potato	23/1/20 19	1	Litta new Village	PF				1	16	27	11	16	27
Agronomy	Crop production	Package and practices of Maize	17/5/20 19	1	Litta new village	PF				5	7	12	5	7	12
Agronomy	Crop production	Package and practices of Maize	22/5/20 19	1	Aotsakili Village	PF				9	11	20	9	11	20
Agronomy	Weed management	Weed management	23/5/20 19	1	Aotsakili Village	PF				1 2	13	25	12	13	25
Agronomy	Weed management	Weed management	9/7/201 9	1	Lokobo Village	FW				0	34	34	0	34	34
Agronomy	Crop production	Package and practices of Soybean	10/7/20 19	1	Philimi Village	PF				1	8	21	13	8	21
Agronomy	Crop production	Package and practices of Field Pea	21/8/20 19	1	Zaphum i Village	FW				0	20	20	0	20	20
Agronomy	Crop	Package and practices	18/9/20	1	Phushu mi	PF				6	14	20	6	14	20

	production	of Field Pea	19		Village								
Agronomy	Crop production	Winter crop production inn Jhum fallow land	21/11/2 019	1	Phishum i Village	PF		5	16	21	5	16	21
Horticultur e	Vegetable production	1 .Organic French beans cultivation.	2/4/19	1	Shichimi	Farm women		0	19	19	0	19	19
Horticultur e	Vegetable production	Organic nutrients for Okra cultivation.	2/4/19	1	Shichimi	Farm women		0	19	19	0	19	19
Horticultur e	Vegetable production	3. Package of practices for chilli.	2/4/19	1	Shichimi	Farm women		0	19	19	0	19	19
Plant protection	Rodent Management	Rodent management	15/03/1 9	1	Alaphum i village	RY		3	17	20	3	17	20
Plant protection	IPM	Fall Army worm on maize and its management	22/05/19	1	Aotsakili	PF		9	11	20	9	11	20
Plant protection	IPM	IPM on maize	23/05/19	1	Aotsakili	PF		13	12	25	13	12	25
Plant protection	IPM	Importance of yellow sticky trap in pest management in jhum rice field	20/06/19	1	Zaphumi	PF		14	8	22	14	8	22
Plant protection	Mushroom production	Economic importance of mushroom cultivation for DFI	29/11/19	1	Zaphumi	FW		0	30	30	0	30	30

Plant	Mushroom	Mushroom cultivation	29/11/19	1	Zaphumi	FW		0	30	30	0	30	30
protection	production												
Home	Value	Preparation of Plum	09-07-	1	Lokobo	FW			34	34		34	34
Science	Addition	Jam	19										
Home	Value	Preparation of Plum	09-07-	1	Lokobo	FW			34	34		34	34
Science	Addition	Squash	19										
Home	Value	Preparation of	10-07-	1	Philimi	PF		1	8	21	13	8	21
Science	Addition	Yongchak pickle	19					3					
Home	Value	Preparation of green	10-07-	1	Philimi	PF		1	8	21	13	8	21
Science	Addition	chilly pickle	19					3					
Home	Value	Preparation of Banana	20-08-	1	Zaphum	FW			21	21		21	21
Science	Addition	cake	19		i								
Home	Value	Preparation of	21-08-	1	Zaphum	FW			17	17		17	17
Science	Addition	Bamboo shoot Pickle	19		i								
Home	Value	Preparation of soy nut	28-08-	1	Zaphum	FW			18	18		18	18
Science	Addition	chutney	19		i								
Home	Value	Preparation of	29-08-	1	Zaphum	PF		1	17	18	1	17	18
Science	Addition	Pancake	19		i old								
Home	Value	Preparation of Green	30-08-	1	Zaphum	PF		3	17	20	3	17	20
Science	Addition	Chilly Pickle	19		i old								
Home	Value	Preparation of	25-10-	1	Akuluto	FW			11	11		11	11
Science	Addition	Bamboo shoot Pickle	19		Town								

Home	Value	Preparation of	25-10-	1	Akuluto	FW			11	11		11	11
Science	Addition	Pancake	19		Town								
Home	Value	Preparation of Soynut	21-11-	1	Phishum	PF		5	16	21	5	16	21
Science	Addition		19		i								
Home	Value	Preparation of Soynut	21-11-	1	Phishum	PF		5	16	21	5	16	21
Science	Addition	powder chutney	19		i								
Home	Value	Preparation of Radish	04-12-	1	Shichimi	FW			19	19		19	19
Science	Addition	Pickle	19										
Home	Value	Preparation of Tapioca	04-12-	1	Shichimi	FW			19	19		19	19
Science	Addition	Banana cake	19										
Home	Value	Preparation of	05-12-	1	Litta	FW			20	20		20	20
Science	Addition	Banana leather	19		New								
Home	Value	Preparation of Tapioca	05-12-	1	Litta	FW			20	20		20	20
Science	Addition	Banana cake	19		New								
Animal	Poultry	Poultry production	15-01-	1	Littami	PF/FW		2	4	24	20	4	24
Science		and management	2019		Old			0					
Animal	Piggery	Swine production and	15-01-	1	Littami	PF/FW		2	4	24	20	4	24
Science		management	2019		Old			0					
Animal	Poultry	Poultry production	16-01-	1	Littami	PF/FW		3	22	25	3	22	25
Science		and management	2019		New								
Animal	Piggery	Swine production and	16-01-	1	Littami	PF/FW		3	22	25	3	22	25
Science		management	2019		New								

Animal	Piggery	Piggery rearing and	09-09-	1	Aotsakili	PF/FW		2	23	25	2	23	25
Science		management	2019		mi								
Animal Science	Poultry	Poultry rearing and management	09-09- 2019	1	Aotsakili mi	PF/FW		2	23	25	2	23	25
Agril. Extn.	Formation and Managemen t of SHG	Formation and Function of SHG	15/01/2 019	1	Litta New	PF		1 0	14	24	10	14	24
Agril. Extn.	Formation and Managemen t of SHG	Formation and Function of SHG	16/01/2 019	1	Litta Old	PF		3	7	10	3	7	10
Agril. Extn.	Mobilization of Social Capital	Mobilization of Social Capital for Livelihood Generation	16/01/2 019	1	Litta New	PF		1 0	15	25	10	15	25

(D) Vocational training programmes for Rural Youth 1

Crop /	Date	D	Area of	Training title*	No. of Participants	Impact of training in terms of Self	Whether

Enterprise	(From – To)	ur at io n (d ay s	trainin g		G	iener	al		sc/s	Γ		Total		employ	ment af	ter trainin	g	Sponsore d by external funding agencies (Please Specify with amount of fund in Rs.)
					M	F	Т	M	F	Т	M	F	Т	Type of enter prise ventu red into	Num ber of units	Numbe r of person s employ ed	Avg. Annual income in Rs. generate d through the enterpris e	
Flower		3	Flower produc tion	Production and post harvest management of cut flowers				10	15	25	10	15	25	Flowe r nurse ry	1(Small scale)	1	84,000	
Processing & Value addition	7 th -11 th Novem ber 2019	4 da ys	Akulut o Town	Empowering women through Skill Based					25	25		25	25					

Ī			Tranings							

^{*}training title should specify the major technology /skill transferred

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

										No.	of Pa	rticip	ants				Amou
On/ Off/ Vocationa I	Benefic iary group (F/ FW/ RY/EP)	Date (From- To)	Durat ion (days)	Discipline	Area of training	Title		Genera I		SC/ST				Total	I	Sponsori ng Agency	nt of fund receiv ed (Rs.)
							M	F	T	М	F	Т	М	F	Т		
On	RY	21/2/19 to 27/3/19	35	Agronomy	Organic Grower	Organic Grower (asci)				2	18	20	2	18	20	ASCI	18000
On	R Y (STRY)	11-16 th /3/19	6	Horticultur e	Flower	Skill Training of Rural youth on High value floriculture				5	10	15	5	10	15	MANAGE ,Hyderab ad	42,00 0
On	R Y (STRY)	11-03- 2019 to 16-03- 2019	6	Animal Science	Poultry	Poultry rearing and management				2	13	15	2	13	15	MANAGE ,Hyderab ad	42,00 0
On	R Y (STRY)	18-03- 2019 to 23-03- 2019	6	Animal Science	Piggery	piggery rearing and management				2	14	16	2	14	16	MANAGE ,Hyderab ad	42,00 0

On	PF (STRY)	14- 19 Oct 2019	6		Vermicompo sting	Vermicomposting		1	15	16	1	15	16	MANAGE ,Hyderab ad	42,00 0
On	RY	29- 30/3/19	2	Agril Extn.	Entreprene urship Developme nt	Marketing Strategies on organically cultivated spices for Doubling Farmers Income		6 1	7 1	1 3 2	6 1	7 1	1 3 2	DASD	Rs.1.5 0 Lakhs
On	RY	29- 30/3/19	2	Agril Extn.	Entreprene urship Developme nt	Organic cultivation of ginger and turmeric		1 7	5 8	7 5	1 7	5 8	7 5	-do-	-do-

3.4.Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2019

SI. No.		Topic	Topic Date and duration							Participants						
	Extension Astivity			No. of activities	General				SC/ST		Extension Officials			Grand Total		
	Extension Activity			No. of activities		(1)			(2)		(3)					
					М	F	Т	M	F	Т	М	F	T	M	F	Т
1.	Field dys			1				26	0	26				26	0	26

2.	Diagnostic visit	21	20	5	25		20	5	25
3.	Scientist visit to farmer's field	38	107	96	203		107	96	203
4.	Method demonstration	15	31	153	184		31	153	184
	Farmers scientist interaction	4	37	45	82		37	45	82
5.	Field visit	35	37	6	43		37	6	43
6.	Advisory /helpline service	3	4		4		4		4
7.	Extension literatures developed								
8.	i. Technical bulletin								
9.	ii. Research Publication	1							
10.	iii. Popular article								
11.	iv. Folders								
12.	v. Leaflets								
13.	vi. Training Manual								
14.	Soil testing	57							
15.	PRA								
16.	News paper coverage	7							
17.	HRD	10							
18.	Film Show	2	4	27	31		4	27	31

19.	Lecture delivered as resource person	12							
	resource person								
20.	Distribution and supply	11	143	137	280		143	137	280
21.	Plant health camp	1	11	26	37		11	26	37
22.	Animal health camp	1	12	25	37		12	25	37
23.	Vaccination camp	1	21	18	39		21	18	39
24.	Animal Treatment	50	38	12	50		38	12	50
25.	Exhibition	1							
26.	KMAS	11			1203				1203
27.	Celebration of important	6							
	days								
28.	Benchmark survey	3							
29.	Live TV programme	3							
30.	Swachtta pakhwada	1							
	Grand Total	295	491	550	2244		491	550	2244

3.5 Production and supply of Technological products during 2019

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of red	cipient/ benefic	iaries
					General	SC/ST	Total
Cereals	Maize	HQPM1	72	345750		53	53

Oilseeds	Soybean	JS9560	18.5	120000	35	35
Pulse	Field pea	Aman	13	91000	32	32
Vegetables	French beans	Arka sharath	0.08	3200	4	4
	Chilli	Arka harita	0.003	1500	5	5
	Okra	Anamika	0.08	3200	3	3

A1. SUMMARY of Production and supply of Seed Materials during 2019

SI. No.	Major group/class	Quantity (q)	Quantity (q)	Value (Rs.) of	Number of reci	Number of recipient/ beneficiaries				
		produced	supplied	quantity produced	General	SC/ST	Total			
1	CEREALS	72	1	345750		53	53			
2	OILSEEDS	18.5	5	120000		35	35			
3	PULSES	13	5	91000		32	32			
4	VEGETABLES	0.015	0.163	600		12	12			
5	FLOWER CROPS									
6	OTHERS									
	TOTAL	103.515	11.163	557350		132	132			

B. Production and supply of Planting Materials(Nos. in No.) during 2019

Major group/class	Crop	Variety	Quantity (In No.) produced	Quantity (In No.) suppliedced	Value (Rs.) of quantity produced	Number o	Number of recipient/ beneficiaries				
			produced	Supplicacea	produced	General	SC/ST	Total			
Fruits	Pineapple	Giant kew	2000 suckers	2000			2	2			
	Passionfruit	Yellow	100 seedlings	100			2	2			
	Banana	Grand naine	200	200			1	1			
Spices	Turmeric	Megha 1	254 kg	254 kg			2	2			
Ornamental Plants											
VEGETABLES	cabbage	Rare ball	1000 seedling	1000 seedling			33	33			
	Onion	Nasik red	1000 seedling	1000			12	12			

				seedling			
ŀ	Pakchoi	Pusa pride	300 seedling	300 seedling		23	23
I	King chilli	Local	200 seedling	200 seedling		23	23
(Chinese cabbage	Hybrid	200 seedling	200 seedling		23	23

C. Production of Bio-Products during 2019

Major group/class	Product Name	Species	produce	ed Quantity	Value (Rs.)	Number of Recipient			
			No	(qt)		/beneficiaries			
						General	SC/ST	Total	
BIOAGENTS	Vermi	Eisenia fetida	5500				36	36	
BIOFERTILIZERS									
BIO PESTICIDES									

D. Production of livestock during 2019

SI. No.	Type/ category of livestock	Breed	Quantity		Value (Rs.)	Number o	f Recipient	İ
			(Nos)	Kgs		beneficiaries		
						General	SC/ST	Total
1	Cattle/ Dairy							
2	Goat							
3	Piggery							
4	Poultry							
5	Fisheries							
	Total							

3.6. Literature Developed/Published (with full title, author & reference) during 2019

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.): KVK Newsletter Vol. III, Issue 8 (January to December 2019)

(B) Articles/ Literature developed/published

			Numbe	r of copies
Item	Title /and Name of Journal	Authors name	Produced/ published	Supplied/ distributed
Research papers				
1.	Development of Scale to measure Attitude of Farmers towards Plant protection Measures: International Journal of Current Microbiology and Applied Sciences (IJCMAS) (NAAS Rating-5.38)	Dr. Kundan Kumar & Mr. Wapangtoshi Longkumer Volume: 8(7)2229-2233, Year 2019		
Training manuals				
Technical Report				
Book				
Book Chapter				
Popular articles				
Technical bulletins				
Extension bulletins				
Newsletter	KVK Newsletter Vol. III, Issue 8 (January to December 2019)			
Conference/				
workshop proceedings				
Leaflets/folders				

e-publications	KVK- e Newsletter Vol. III, Issue 8 (January to December		
	2019)		

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

Success story on use of Tapioca for Chips and Cake

Profile of the women farmer

1. Name: Mrs.Aholi

2. Age:33

3. Education: Class v4. Occupation: Housewife



About innovation/ enterprise

Manihot esculenta, commonly called as cassava, is a woody shrub native to South America of the spurge family, Euphorbiaceae. Nagaland is one of the main producers of Cassava in India. It is also popularly known as Tapioca. The cassava plant gives the highest yield of food energy per cultivated area per day among crop plants and the roots are very rich in starch, and contain significant amounts of calcium (500mg/100gm), phosphorus (40mg/100gm), vitamin C (25mg/100gm).

In Zunheboto District, cassava is abundantly available. But it has been observed that this abundantly available cassava is not properly utilized. It has been found that the people generally utilized the cassava as fodder for domestic animals and less as food.

This is partly due to the fact that cassava cannot be stored for long periods of time and people usually consume it as a secondary food. Thus most of the people do not generally preserve it for future consumption.

KVK interventions

Considering the importance of Tapioca in human diet and non utilisation of Tapioca for human feed, KVK conducted training and demonstration programme on preparation of Tapioca Cake and chips. The programme was based on "Learning by doing" where farmers were trained to utilise the underutilised Tapioca roots for income generating sources. Farmers were provided with necessary inputs for preparation of Tapioca Chips and Cake.

Economic analysis

SI .no	Item	Expenditure	Gross Income	Net Profit/batch			
1.	Tapioca chips	Rs.500.00	Rs.3000.00	Rs.2500.00			
2.	Tapioca cake	Rs.750.00	Rs. 3040.00	Rs. 2290.00			
Total p	rofit	Total profit					

Marketing

Marketing has never been a problem for Mrs. Aholi. The Tapioca Chips and Cakes were really a good substitute against the available items in the market. Moreover, the selling price of these locally made chips and cakes were lesser which created a demand for her products.

Benefit, outcome and impact

Mrs. Aholi was able to generate an income of Rs. 4590.00 x 3 batches in a single season i,e Rs.13,770.00 by selling of Tapioca Chips and Cakes which provided and additional increase in her daily income. The direct impact of this technology was that the farmers came to about the various uses of Tapioca and how to utilize it for income generation.

Horizontal spread within the social system

After successful intervention by KVK and adoption by this lady, the technology has been widely accepted by the farm women/women SHGs and she has made it possible by participating as local resource persons in other villages. Now 5 villages have started adopting this technology which has helped them to improve their socio-economic conditions.





- 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 : 7

ii. No. of farm families selected : 200

iii. No. of survey/PRA conducted : 4 villages

3.12. Activities of Soil and Water Testing

Status of establishment of Lab :

1. Year of establishment :NA

2. List of equipments purchased with amount:

SI No	ſ		Otro	Cost	
SI. No	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer	Qty.	
		PUSA STFR	WS	1	19500 (kit cost)
			telematics		
Total				1	19500 (kit cost)

3. Details of samples analyzed (20119)

Details	No. of Samples analyzed	No. of Farmers	No. of Villages	Amount(In Rupees) realized
Soil Samples	55	550	7	
Water Samples				
Plant Samples				
Petiole Samples				
Total	55	550	7	

1. Details of Soil Health Cards (SHCs) (2019)

a. No. of SHCs prepared: 550

b. No. of farmers to whom SHCs were distributed: 550

c. Name of the Major and Minor nutrients analyzed: NPK and Zinc and Boron

d. No. of villages covered: 7

3.13. Details of SMS/ Voice Calls sent on various priority areas

Message	Crop		Livestock		Weather		Marketing		Awarenes	S	Other Ent.		Total	
type	No. of Message	No. of Ben eficiary	No. of Message	No. of Benef iciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benefi ciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benefi ciary
Text only	5	815	4		653				2	327			11	1795
Voice only														

Voice										
and Text										
both										
Total	5	815	4	653		2	327		11	1795

3.14 Contingency planning for 2019

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other	Proposed Measure	Proposed Area (In ha.) to be covered	Number of ber	Number of beneficiaries proposed to be covered		
please specify)			General	SC/ST	Total	
	Introduction of new variety					
	or crop					
	Introduction of Resource					
	Conservation Technologies					
Drought	Distribution of seeds and	100		200	200	
	planting materials					
Insects infestation	Distribution of pesticides &	100		200	200	
outbreak	IPM kits					

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be	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		
	distributed				General	SC/ST	Total
Poultry	500	1	1	50		25	25
Piggery	30	1	1	15		25	25

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 (Before (Rs./Unit)	Rs.) 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):

Litta new village is located under Akuluto block of Zunheboto District pf Nagaland. There are 68 household and everyone is dependent on agri and allied activities.

Before Litta new was adopted under doubling of farmer's income (DFI) jhum paddy used to be the major crop and occupies more than 80% of the total jhum land. However, after KVK has brought this village under DFI, farmer's were trained on the package of practices on soybean whereby, OFT and FLD's were also conducted in this village. A comparative study on the income generated by jhum paddy and soybean per hectare was also done with the participation from farmers representatives. Results of the comparative study has shown that, jhum paddy has generated a net return of Rs.40/h where as soybean has given a net return of Rs. 72,000/h, which reveals that jhum paddy and soybean which takes about 4 months from the date of sowing till harvest is giving a net return of Rs.10/h for paddy grower and Rs.18,000/h for soybean growers per month for four months in a year. Today farmers have changed their main crop ie., from jhum paddy to soybean and this new pattern of farming is fast spreading to Litta old, Sasthami, Ajiqami and Phishumi villages.

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

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations established during 2018-19

Name of organization	Nature of linkage
1.Nagaland University	Scientific & Administrative
2.ICAR , NRC on Mithun	Scientific, participation in meeting,. Administrative and

	financial
3.SARS	Scientific
4. ATMA, DAO, DVO, DHO, DRDA, DFO, DSCO, DPO	Scientific, participation in meeting, financial and joint implementation
5. NABARD	Scientific and joint implementation
6. Directorate of Arecanut and Spices Development, Ministry of Agriculture, Department of Agriculture	Training, Demonstration and production of planting material
7. ASCI	Skill Training
8. MANAGE hyderabad	Skill Training

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 2019

Name of the scheme/ special programme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Skill development	Skill development training programme for organic grower	21/2/19 to 27/3/19	ASCI	180000.00
Knowledge system and homestead agriculture management in tribal areas	Mushroom cultivation and production	29/10/18	KSHAMTA(ICAR)	10,000.00
STRY	High value floriculture	11-16 /3/19	MANAGE, Hyderabad	42,000.00
STRY	Piggery rearing and management	11-03-19 to 16/03/19	MANAGE, Hyderabad	42,000.00

STRY	Poultry rearing and management	18-03-19 to 23/03/19	MANAGE, Hyderabad	42,000.00
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5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	Farmers scientist interaction	Scientific	
2	Field visit	Scientific	
3	Farmers school	Scientific	
4	Exhibition and demonstration	Scientific	

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 2019

6.1 Performance of demonstration units (other than instructional farm): NA

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

1					

6.2 Performance of instructional farm (Crops) including seed production during 2019

Name	Date of	Date of	na)	Deta	ils of production		Amou	nt (Rs.)	
of the crop	sowing	harvest	Area (ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals		<u> </u>	<u> </u>	1	<u> </u>				<u> </u>
Rice									
Wheat									
Maize									
Any other									
Pulses									
Green gram									
Black gram									
Arhar									
Beans									
Cow pea									
Oilseeds		1	1	1	1			<u> </u>	<u> </u>
Mustard									

Soy bean									
Groundnut									
Any other									
Fibers									
i.									
Spices & Plantation	crops								
i. Turmeric	24/4/19	24/1/20	0.01ha	Megha turmeric	Powder	20kg	5000.00	7000.00	
					Mother rhizome	66.6kg			
Floriculture	I			I	I	I	I		<u>. I</u>
i.									
Fruits				I		I			<u> </u>
i. Pineapple	13/8/15	8/8/19	0.02ha	Giant kew	Ripe fruit	100nos	3000.00	2000.00	
ii. Lime	18/5/17	14/8/19	0.001ha	Kagzi lime	Ripe fruit	150 nos	1000.00	750.00	
lii, Passion fruit	6/5/19	28/10/19	0.01ha	Yellow	Ripe fruit	148 nos	1000.00	600.00	
Vegetables		I	1			I			1
i. Chinese cabbage	17/10/19	3/2/20	0.001ha	F1 Hybrid	Leaves	195 nos	1000.00	9750.00	
ii. Broccoli	17/10/19	4/2/20	0.001ha	F1 Hybrid	Flowers	33kg	1000.00	1980.00	

iii. Colocasia	25/4/19	17/1/20	0.01ha	Local	Corms	1604	3000.00	4000.00			
iv. Tomato	8/5/19	5/7/19	0.001ha	Rocky	Ripe fruits	20kg	800.00	600.00			
v. Mustard leaves	17/10/19	13/12/19	0.001ha	Lali	Leaves	254	800.00	500.00			
a. Others (specify)											
i. King chilli											
ii. Turmeric powder											

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) during 2019

SI. Name of the		Qty	Amou	Remarks	
No.	Product	-	Cost of inputs	Gross income	
1	Vermicompost	215kg	2000.00	4300.00	
2	Earthworm	5500nos	1000.00	5500.00	

6.4 Performance of instructional farm (livestock and fisheries production) during 2018-19

SI.	Name	Det	tails of production		Amou		
No	of the animal / bird / aquatics	Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/structure during 2019

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

6.6. Utilization of hostel facilities (Month-Wise) during 2019

Accommodation available (No. of beds): NA

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 KVK	SBI	Lumami	32196734473

Revolving fund	SBI	Lumami	31674931931
Revolving fund	SBI	Lumami	36448639134 (POS)

7.2 Utilization of funds under CFLD on Oilseeds and Pulses (Rs. In Lakhs) if applicable during 2019

Item	<u> </u>	CAR/ATARI (in kh)	Expendi	ture (in lakh)	Unspent balance as on 31 st March, 2019
	Amount (Oilseeds)	Amount (Pulses)	Amount (Oilseeds)	Amount (Pulses)	·
Inputs	0.47	0.67	0.75	0.67	(-)0.28
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2019 (as on March 2019)

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Rec	urring Contingencies			
1	Pay & Allowances	173.00	173.00	173.00
2	Traveling allowances	3.50	3.50	2.60
3	Contingencies	19.25	19.25	19.26

A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
В	POL, repair of vehicles, tractor and equipments			
С	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
Ε	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			
Н	Maintenance of buildings			
1	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)	195.75	195.75	194.86
B. Nor	n-Recurring Contingencies			
1	Works			
2	Equipments including SWTL & Furniture	0.30	0.30	0.30
3	Vehicle (Four wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			

TOTAL (B)	0.30	0.30	0.30
C. REVOLVING FUND			
GRAND TOTAL (A+B+C)	196.05	196.05	195.16

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	0.77	0.35	0	1.15
April 2017 to March 2018	1.15	4.40	3.75	1.81
April 2018 to March 2019	1.93	1.90	1.40	2.43

Note: No KVK must leave this table blank

- 8.0 Please include information which has not been reflected above.: 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