PROFORMA FOR ANNUAL REPORT OF KVKS 2022 (January- 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 Zunheboto, Nagaland University, Lumami, P.O. Lumami PIN-798627			kvkzunheboto@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Vice-chancellor, Nagaland University, Lumami PIN-798627	(0369)2268248	(0369)2268248	vc@nagalanduniversity.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	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 2022)**

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	Pr. Scientist & Head	Dr. Rakesh Kumar Chaurasia	Principal Scientist & Head	Animal Science	Level 14	167200	24/04/2007	Permanent	OBC
2	Subject Matter Specialist	Wapangtoshi Longkumer	CTO	Plant Protection	Level 12	94100	17/04/07	Permanent	ST
3	Subject Matter Specialist	Dr. Kundan Kumar	SMS	Agril. Extension	Level 10	84900	19/04/07	Permanent	Others
4	Subject Matter Specialist	Edenly Chishi	CTO	Horticulture	Level 12	94100	20/04/07	Permanent	ST

5	Subject Matter Specialist	Dr. Visakho Shunyu	CTO	Agronomy	Level 12	94100	14/05/07	Permanent	ST
6	Subject Matter Specialist	Sentimenla	SMS	Agril. Chemistry & Soil Science	Level 10	78500	10/10/12	Permanent	ST
7	Subject Matter Specialist	Dr. Z. Nongothung Ezung	SMS	Animal Science	Level 10	71100	3/3/14	Permanent	ST
8	Computer Programmer	Imnameren	Sr. TO (Computer)	IT	Level 10	65000	02/04/07	Permanent	ST
9	Farm Manager	Naropongla	T.O. (Farm)	Soil and water conservation	Level 6	50500	17/10/12	Permanent	ST
10	Programme Assistant	Narola Anichari	T.O. (Home Science)	Home Science	Level 6	50500	25/10/12	Permanent	ST
	Stenographer	Tiarenla	Jr. Steno. Cum Compt Operator		Level 4	34300	3/10/12	Permanent	ST
11	Driver	Wepretso Marhu	Driver cum mechanic		Level 4	37500	22/06/07	Permanent	ST
12	Driver	Toito N Sumi	Driver cum mechanic		Level 3	21700	01/05/2023	Permanent	ST
13	Supporting staff	Kekhriengulie	Skilled Supporting staff		Level 2	30200	2/4/07	Permanent	ST
14	Supporting staff	Shumben Patton	Skilled Supporting staff		Level 2	30200	2/4/07	Permanent	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): 5.50

S. No.	Item	Area (ha)
1	Under Buildings	1
2.	Under Demonstration Units	1.006
3.	Under Crops (Cereals, pulses, oilseeds etc.) (Pl. specify separately) i. Spices	0.04
4.	Under vegetables	0.005
5.	Orchard/Agro-forestry	2
6.	Others (specify)	1.5

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	April 2014	550	110.51			
2.	Farmers Hostel							
3.	Staff Quarters (2)	ICAR	April 2014	144				
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	65393	Working
Mini Tractor with trolley	NL 07- A2068	2006	369126/-	360	Working
Power tiller		2010	296200/-	260hrs	Working
Power tiller		2016	197500/-	New	Working

C) Equipments & AV Aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Camera	2017	51300/-	Working
Photo copier	2010	95000/-	Needs Repairing
Generator	2012	337000/-	Needs Repairing
PC	2016	43590/-	Not working
PC	2016	43590/-	Needs replacement
PC	2016	43590/-	Needs replacement
Laptop	2016	47590/-	Working
Laptop	2017	76700/-	Needs replacement
Scanner	2016	9350/-	Working
Generator	2016	129800/-	Working
PC	2021	52000/-	Working
PC	2021	52000/-	Working
LCD Projector	2020	45000/-	Working

1.8. A). Details SAC meeting* conducted in 2022

Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
27/01/2023 Hybrid mode	Prof. J.K. Patnaik, Vice Chancellor, Nagaland University & Chairman	Annual Action Plan for the year 2021-22 was presented by Dr. Rakesh Kumar Chaurasia, Principal Scientist & Head, KVK.	1. Soybean variety suitable for location specific must be introduced to farmers of different blocks.: **Initiated**
	Prof. Aleminla Ao, Pro VC, NU (Online)	Annual Action Plan for the year 2022-23 was presented by Dr. Kundan Kumar, SMS (Agril Extn.)	2. To create awareness among all kiwi growers for protection of kiwi leaves and flowers from hail stones : **Initiated**
	Dr. L. Tongpang Longkumer, Professor, NU (Online)	Coffee Plantation may be given priority.	3. Adoption of villages for transfer of technologies : **Initiated**
	Dr. N. Tiameren Ao, Professor, NU (Online)	Rhizobium in maize to be replaced by Azatobacter/Azospirilum	4. Construction of water harvesting structures for irrigation of crops during lien period : **Started at 1 village**
	Dr. Chandan S Maiti, Professor, NU (Online)	Promotion of Soybean through Soybean Festival	5. Construction of contour bunding for conservation of soil moisture : **Initiated**
	Dr. L. Daiho, Dean and Professor, NU(Online)	Promotion of composite variety of maize	6. Preservation techniques of chow chow may be imparted to the farmers : **Training & Demonstartions**
	Representative for Chef Veterinary Officer, Zunheboto (Online)	Promotion of Technology developed by SASRD, NU	7. Impart training on how to prepare compost pig manure before using it as organic fertilizer and formulation of pesticides from ashes of wood and cow dung : **Initiated**
	Representative from ATMA, Zunheboto (Online)	Inclusion of AICRIP Technology for OFT in Horticulture	8 Training on Feeding techniques for poultry and pigs and correct selection of poultry and pig breeds may be imparted : **Initiated**
	Mr. Kakuto Assumi, Farmer from Litta New village	Data pertaining to earlier OFT suggested by SASRD to be furnished.	9. To impart training on adoption of location specific technologies for different crops. : **Initiated**
	Mr. Huluto Aye, Farmer, Tichipami Village (Online)	Management of Anthracnose in King Chilli to be included	10. Inclusion of SHGs for survey works. : **Initiated**
	Dr. Rakesh Kumar Chaurasia, Principal Scientist & Head, KVK.	Collaboration with NU SASRD for OFTs and sharing of data.	11. Wider consultation among Agri and allied department should be carried out while forming and promoting FPO to avoid duplication of PM schemes : **In process**

	Dr. Kundan Kumar, SMS (Agril Extn.) KVK	Needs to work on recognition from state and central level	12. Training on techniques for production of fingerlings : **Initiated**
	Mrs. Edenly Chishi, CTO (Horti.) KVK		
	Dr. Visakho Shunyu CTO (Agronomy & GPB) KVK		
	Mr. Wapangtoshi Longkumer, CTO (Plant Protection) KVK		
	Mr. Imnameren Sr. TO (Computer) KVK		
	Mrs. Narola Anichari TO (Home Science) KVK		
	Dr. Z. Nongothung Ezung, SMS (Animal Science) KVK		
	Mrs. Naropongla TO (Farm) KVK NU		

Proceedings of 13th SAC meeting of KVK, Zunheboto, Nagaland University

The 13th Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, Zunheboto Nagaland University was held on 27/01/2023 with KVK staff and Farmers at KVK office joined by Hon'ble Vice Chancellor, Nagaland University, faculties from SASRD, farmers and HoD of different state departments via Online at 11:00 am under the Chairmanship of Prof. J.K. Patnaik, Vice Chancellor Nagaland University. Dr. Visakho Shunyu CTO (Agronomy & GPB) welcomed all the members. The agenda items included the presentation of Annual Report 2021-22 and Annual Action Plan 2022-23 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	**Resolution/ Recommendations**	**Recommended by**	**Actions**
KVK/LUM/13th SAC /27/01/2023/1-Annual Report	Annual Action Plan for the year 2021-22 was presented by Dr. Rakesh Kumar Chaurasia, Principal Scientist & Head, KVK.		
KVK/LUM/13th SAC/27/01/2023/ 2-Annual Action Plan	Annual Action Plan for the year 2022-23 was presented by Dr. Kundan Kumar, SMS (Agril Extn.)		
	Coffee Plantation may be given priority.	Mr. Kakuto Assumi, Farmer from Litta New village	CTO (Horti.)

	1. Rhizobium in maize to be replaced by Azatobacter/Azospirilum	Dr. L. Tongpang Longkumer	CTO Agronomy
	2. Promotion of Soybean through Soybean Festival		CTO Agronomy
	3. Promotion of composite variety of maize		CTO Agronomy
	Promotion of Technology developed by SASRD, NU	Dr. N. Tiameren Ao	KVK & SASRD, NU
	Inclusion of AICRIP Technology for OFT in Horticulture	Dr. Chandan S Maiti	CTO (Horti.)
	1. Data pertaining to earlier OFT suggested by SASRD to be furnished.	Dr. L. Daiho	KVK
	2. Management of Anthracnose in King Chilli to be included		CTO (Plant Protection)
	1. Collaboration with NU SASRD for OFTs and sharing of data.	Vice Chancellor	KVK & SASRD, NU
	2. Needs to work on recognition from state and central level		KVK

The programme ended with vote of thanks from Mrs. Edenly Chishi, CTO (Horti.).

** Attach a copy of SAC proceedings along with list of participants*

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1	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)

Sl. No	Agro-climatic Zone	Characteristics
1	Agro Ecological Sub Region (ICAR)	Warm to hot moist (humid to per humid eco sub region), Tropical to sub-tropical (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 types

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

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	9200	18321	19.91
2	WTRC Paddy	5850	16910	28.9
3	Maize	10115	20080	19.85
4	Small millet	821	931	11.3
5	Rajma/Kholar	948	1212	12.7
6	Rice beans/ Naga Dal	482	553	11.4
7	Pea	602	669	11.1
8	Soybean	5986	7586	12.6
9	Perila	225	135	6
10	Rapeseed mustard	2124	2169	10.2

Source: Statistical handbook of Nagaland 2021

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
January	56.8	14.4	4.9	79.7
February	72.0	14.6	5.5	81.7
March	24.2	22.8	9.9	80.2
April	174.0	22.5	13.1	78.6
May	392.2	22.7	14.1	83.8
June	483.4	23.8	15.9	87.0
July	351.4	25.0	16.0	87.8
August	272.0	24.3	15.4	85.3
September	0.0	23.1	14.9	85.8
October	128.4	22.5	13.8	86.7

November	0.0	18.8	9.2	83.8
December	4.2	16.5	5.6	81.0

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

Category	**Population**	**Production**	**Productivity**
Cattle			
Crossbred	1205		
Indigenous	9996		
Buffalo	9		
Mithun	23123		
Sheep			
Crossbred	0		
Indigenous	361		
Goats	31602		
Pigs			
Crossbred	27067		
Indigenous	12671		
Rabbits	57729		
Poultry			
Hens	2655157		
Desi			
Improved			
Ducks	165092		
Turkey and others			

Source: Statistical handbook of Nagaland 2021

2.7 Details of Operational area / Villages (2022)

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

1		Akuluto, Atoizu, Suruhuto, Agunato, Akuhaito	Surumi, Litta Old, Phishumi, Shichimi, Lokobomi, Akuhaito, Sukhomi, Philimi, Rotomi, Zapumi Old, Tichipami, Aotsakilimi, Zaphumi, Sumi settsu, Lumithsami, Naghuto New, Sukhai, Sastami, Alaphumi, Litta new, Alaphumi, Lotisa Old, Lotisa New, yeshulutomi, Akuluto Town	Pineapple,banana,orange,chilli,colocassia,ginger,maize,paddy,Soybean,cucumber,Large cardamom, Kiwi, Ginger, Tomato, Bambooshoot, Chilli, Soybean, Gooseberry, Citrus, Chow chow, Poultry, Piggery	1. Lack of improved Varieties and cultivation practices. 2. Lack of post harvest management 3. Poor performance by local indigenous chickens 4. Poor performance by indigenous variety of pigs, feeds 5. Irrigation facilities 6. Fall army worm 7. Damping off of chillies	1. Improved production of horticulture crops 2. Value Addition 3. Poultry production 4. Piggery production 5. High capacity energy water pump for custom hiring 6. Improvement of existing farming system with scientific intervention 7. Straw and crop residue management

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2022

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
Agronomy	2	1	4	4	3	3	120	132
Horticulture	2	1	6	3	2	2	6	6
Home Science	2	2	6	6	2	2	6	6
Plant Protection	2	2	6	6	2	2	6	6
Animal Science	2	3	20	31	2	2	20	20
Agril. Extension	1	1	3	3	1	1	5	5
Total	**11**	**10**	**45**	**53**	**12**	**12**	**163**	**175**

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement

Agronomy					8	8		
Farmers	8	8	200	329				
Rural youth	3	2	75	67				
Extn. Functionaries	-	-	-	-				
Horticulture					8	8		
Farmers	10	10	250	220				
Rural youth	2	6	50	181				
Extn. Functionaries	-	-	-	-				
Home Science					8	8		
Farmers	4	10	100	249				
Rural youth	2	4	50	121				
Extn. Functionaries	1	0	25	0				
Plant Protection					8	9		
Farmers	7	12	175	339				
Rural youth	-	-	-	-				
Extn. Functionaries	1	0	25	0				
Animal Science					8	8		
Farmers	7	11	175	450				
Rural youth	4	4	100	98				
Extn. Functionaries	1	0	25	0				
Agril. extension					8	8		
Farmers	11	12	275	401				
Rural youth	2	1	50	23				
Extn. Functionaries	1	0	25	0				
Soil Science					2	1		
Farmers	1	7	25	207				
Rural youth	1	1	25	4				
Extn. Functionaries	1	-	25	0				
Total	**67**	**88**	**1675**	**2689**	**50**	**50**		

Seed Production (ton.)		Planting material (Nos. in lakh)	
Target	Achievement	Target	Achievement
22.9	**43.25**		**3750**

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2022

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	Varietal evaluation	Maize	Crop lodging and low yield	Varietal evaluation of Maize Var. VLQPM 59					
2.	Cropping system	Maize			Popularization of HQPM-5 maize				
3.	Enhancement on production of khasi mandarin	Khasi mandarin	Lack of organic packages for citrus	Assessment of organic nutrient management in Khasi mandarin.		Organic nutrient management in khasi mandarin		Method demonstration on application of nutrients, spraying of neem oil and painting of Bordeaux paste	FYM, Trichoderma harzianum. Agro neem cake, neem oil, Copper sulphate, agro lime, and Knap - sack sprayer
4.	Kiwi fruit production	Kiwi	Low yield due to physical damage of flowers by heavy rainfall and hailstones		Popularization on partial protection for organic kiwi production.	Protected cultivation of kiwi. Post harvest management of kiwi.		Method demonstration on Mounting of 50% shade net on kiwi vines for protection of flowers.	Agro shade net (50%)
5.	King chilli production	King chilli	Low productivity due to poor nutrient management		Popularization of organic manures on growth and yield of King chilli	Organic King chilli production.		Method demo on Value addition on king chilli	520No.s of king chilli saplings and organic manures(bio fertilizers)

6.	IPM	Brinjal	Incidence of fruit and shoot borer infestation	Assessment on application of Arka Neem Soap against fruit and shoot borer infestation on Brinjal					
7.	IPM	Mustard	Incidence of aphids infestations on vegetables	Assessment on use of wood and cow dung ash as pesticides on vegetables					
8.	IPM	Potato	-	-	Popularization for management of white grub in potato				
9.	Mushroom production	Mushroom	-	-	Popularization of Oyster Mushroom	Mushroom Cultivation			
10.	Evaluation of breed	Poultry	Poor performance by local indigenous chickens	Assessment of Rainbow Rooster in backyard poultry farming system		Economics of poultry Production		Diagnostic visit, field visit, treatments. Etc	465 Nos.
11.	Piggery production	Piggery	Poor performance by indigenous variety of pigs	Study on the Performance on Hampshire cross pigs (75%) at different locations		Piggery housing and planning		Animal treatments, Diagnostic and field visits,etc.	10 Nos.
12.	Feeding Management	Piggery	Poor production and reproduction performance of pigs fed on locally available feeds	Performance of computed swine feed ration		Feeding and Nutritional Management of swine		Diagnostic visit, field visit, treatments. Etc	500kg
13.	Breed introduction	Poultry	Poor performance by indigenous Birds	Introduction and assessment of Vanaraja in backyard system of rearing for in different locations of Zunhebto district		Poultry production and management			

14.	Piggery production	Piggery	Poor performance by indigenous variety of pigs	Performance of Hampshire crossbred pigs (50%) under local feeding condition					
15.	Poultry production	Rainbow rooster	Poor performance by local indigenous chickens	-	Popularization of rainbow rooster (Dual purpose breed)	Poultry production and managementment, common poultry diseases, economics of poultry producton, brooding of chicks,etc.		Diagnostic visit, field visit, treatments. Vaccination capm,Etc	500 Nos.
16.	Poultry management	Kuroiler & Local chickens	Lack of health care management	-	Demonstration of Poultry vaccination for viral diseases(Marek's Disease vaccine, Ranikhet disease(F-1 / Lasota, R2B Lasota booster), IBD vaccines **)**	Common poultry diseases and their control, economics of poultry production.		Vaccination cum health camps, treatments, diagnostic visit, field visit, etc	500 Nos.
17.	Health management	Poultry	-	-	Demonstration of Poultry vaccination for viral diseases	Poultry production and management			
18.	Poultry management	Poultry	-	-	Popularization of kalinga brown (Dual purpose breed)	Poultry production and management			
19.	Value addition	Soybean	No value addition practiced	Storage on value addition		Preparation of soyamilk			
20.	Value addition	Jack fruit	Lack of post harvest technology	Assessment of value addition in Jackfruit		Processing and value addition of locally avialable fruits and vegetables			

21.	Value addition	Chow Chow	-	-	Popularization of tutti frutti from Chow Chow	Training on Preparation of tuitti fruitti from chow chow vegetable			
22.	Value addition	Lemon and Ginger	-	-	Blended RTS beverages (Lemon and ginger)				
23.	INM	Field pea, Matar	Low nutrient availability leading to low yield	Effect of different dose of phosphorus on field pea under upland condition		How to improve soil fertility in the farmers field			
24.	Agril. Extension	-	-	Performance of different group sizes of SHG on annual savings		An Overview of Credit facilities for SHG			
25.	Agril. Extension	-	-	-	Extension Network utilization behaviour of farmers of Zunheboto district of Nagaland				

3.1 Achievements on technologies assessed and refined during 2022

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	1									1
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management			1			1				2
Integrated Farming System										

Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition		1				1				2
Integrated Pest Management					2					2
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
Others										1
TOTAL	1	1	1		2	2				8

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

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

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

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

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds		1						1
Nutrition Management								
Disease of Management					1			1
Value Addition								
Production and Management		2			1			3
TOTAL		**3**			**2**			**5**

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								
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)
						Parameters	T1	T2	T3			
1	Varietal evaluation of maize QPM59	Crop lodging, low yield, long crop duration.	QPM59	Maize	4	Enclosed in Annexure A				Farmers are impressed with its yield and also for the earliness of the new variety.	This new variety was found to be performing well in Zunheboto district, and so can be taken up for multi locational trial.	3:1
2	Assessment of organic nutrient management in Khasi mandarin	Lack of organic packages for citrus	T1. Soil application of FYM 30kg, neem cake 1kg, Trichoderma harzianum powder 25g and spray of Neem oil 0.5% per plant during Feb-March. Bordeaux paste was also applied. T2. Recommended chemical dose T3. Farmers practice	Rainfed	5	Enclosed in Annexure B				The technology provided to farmers was satisfactory as it enhanced the yield of the fruit.	The technology provided was satisfactory so it can be taken up for FLD	2.79
3	Assessment on application of	Incidence of fruit and shoot borer	Arka Neem Soap	Brinjal	3	Enclosed in Annexure C				Satisfied	Recommended	2.85

	Arka Neem Soap against fruit and shoot borer infestation on Brinjal	infestation									for FLD	
4	Assessment on use of wood and cow dung ash as pesticides on vegetables	Incidence of aphids infestations on vegetables	T1: Dusting of wood ash T2: Dusting of cow dung ash T3: Neem oil @ 5ml/liter of water	Mustard and cauliflower	3	Enclosed in Annexure D				Satisfied	Recommended for FLD	T1-3.54 T2-3.57 T3-3.54
5	Storage on value addition	No value addition practiced	Value addition of soyabean	Soya bean	3	Annexure E				Farmers are ready to adopt the technology	It has been found that this technology is viable, efficient and highly acceptable by the villagers and recommended for further FLD.	
6	Assessment of value addition in Jackfruit	Lack of post harvest technology	Value addition of jackfruit chips	Jackfruit	3	Annexure F				Farmers are ready to adopt the technology	From the trials conducted it has been found that the technology is acceptable to be adopted for further FLD.	1.8:1
7	Effect of different dose	Low nutrient availability	T1:P@ 20 kg/ha+ RDF @20:60 NK	Field pea	3	Annexure G						

	of phosphorus on field pea under upland condition	leading to low yield	T2:P@ 40 kg/ha@20:60 NK T3:P@60 kg/ha+RDF@20:60 NK T4:Blanket application of 25% RD lime									
8	Assessment of Rainbow Rooster in backyard poultry farming system	Poor performance by local indigenous chickens	Rainbow Rooster(dual purpose breed)	Poultry (Rainbow Rooster)	21	Annexure H				Satisfactory and ready to adopt the technology.	The technology can be recommended for FLD for widespread expansion	3.4 (T1)
9	Study on the Performance on Hampshire cross pigs (75%) at different locations	Poor performance by indigenous variety of pigs	Hampshire cross pigs (75%)	Pig(Hampshire cross pigs (75%))	5	Annexure I				Satisfactory and willing to adopt the technology.	The technology can be recommended for FLD at different locations	2(T1)
10	Performance of computed swine feed ration	Poor production and reproduction performance of pigs fed on locally available feeds	Cross breed and local pigs	Pig	5	Annexure J				As per the suggestion and recommendation given by the farmer 2-2.5 % of contrated mixture can beaded to locally available feeds and are willing to practice and adopt the technology.	Recommended for FLD in bth cross breed and local pigs.	2.5(T 1)
11	Introduction and assessment of Vanaraja in backyard system of	Poor performance by indigenous Birds	Vanaraja (Dual purpose breed)	Poultry	10							ONG OING

	rearing for in different locations of Zunhebto district(1st year)											
12	Performance of Hampshire crossbred pigs (50%) under local feeding condition (1st year)	Poor performance by indigenous variety of pigs	Hampshire cross(50%)	Pig	10							ONG OING
13	Development of PERT & CPM for different Crops of Villages					Annexure K						

**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*

Annexure A

Parameters	**T1**	**T2**	**T3**
Plant height	178cm	185cm	182cm
Days to 50% tasselling	64 days	61 days	62 days
No. of cobs/plant	3	3	3
No. of grains/cob	300	288	290
Seed yield/plant	98 g	86 g	92 g
Seed yield/h	6370 kg	5590 kg	5980 kg

Annexure B

Parameters	T1	T2	T3
Fruit weight(gm)	89.7	Farmers didn't allow to use chemical fertilizers	77.3
No. of fruit /plant	174		102
Yield/ha(kg)	5197		2624
B.C ratio	2.79		2.12
Net return/ha (Rs.)	266120.		110923.

Annexure C

Parameters on Assessment	T1	T2	T3
Yield/ ha	110q/ha	114q/ha	89q/ha
% infestation	12%	11%	18%
B.C. Ratio	2.85	3.01	2.59

Annexure D

Parameters on Assessment	**T1**	**T2**	**T3**
Yield/ ha	89	91	101
% infestation	18%	16%	12%
B.C. Ratio	3.54	3.57	3.54

Annexure E

Parameters	**Result**	
Quantity of milk	It was found that 1kg of soybean gives 7 litres of soya milk.	
Sensory Evaluation	1. Soymilk (Hedonic scale): Taste- 6 , Flavor – 6 2. Soymilk (Vanilla essence): Taste- 8, Flavor- 7 3. Soymilk (chocolate essence): Taste- 7, flavor- 7	**Soynuts** Taste- Acceptable Flavor- Acceptable
Shelf life	Room temperature:3 day Household refrigerator: 7 days Soymilk(pasteurization and stored in PET Bottle: 3 days	Soynuts stored in airtight containers: 1 month Soynuts packed in HDPE : 3 months

Annexure F

Parameters	**Result**
Product Taste Acceptance	Acceptable
Shelf life : 3 months	3 months
B.C ratio –	1.8:1

Annexure G

Parameters	**T1**	**T2**	**T3**	**T4**	**T5**
NPK (Before sowing)	N- 252, P- 20, K- 237	N-252,P-20,K-237	N-252,P-20,K-237	N-252,P-20,K-237	N-252,P-20,K-237
NPK (After harvest)	N- 291,P- 24,K- 246	N-293,P-25,K-249	N-301,P-29,K-254	N-289,P-23,K-242	N-259,P-22,K-240
No. of nodules/ plant	21.70	22.14	24.30	20.26	20.00
Dry weight of nodules/ plant	0.02 g	0.02	0.3	0.02	0.02
No. of seeds /pod	3.5	3.5	3.5	3.4	3.0

Seed yield (kg/ ha)	1204^{-1}	1294	1335	1190	1100
Stover yield (kg/ ha)	1450^{-1}	1462	1509	1360	1240
B:C ratio	5.2	5.6	5.8	5.1	4.8

Annexure H

Parameters	T1	T2(local check)
(i).Average body weight at 32nd week of age (kg)	M= 3.1, F=2.9	M= 2.1, F= 1.7
(ii). Average daily body weight gain at 32nd week of age (g/day)	M=14.2, F =13.2	M = 8.5, F = 7
(iii). Mortality and Disease incidence rate	4 % and 0% resp.	4 and 2 resp.
(iv). Age at 1st laying of egg	6 months	7 months
(iv). Average egg production per bird per month	7 Nos.	7 Nos
(v). B:C Ratio	3.4	1.7
(vi). Net Return/bird (Rs)	716	265

Annexure I

Parameters	T1	T2(local check)
(i). Average body weight at 14 months of age (kg)	M=90, F=87	M= 90, F= 82
(ii). Average daily body weight gain at 14 months of age (g/day)	M= 214.28, F =207.14	M = 214.28, F = 195.23
(iii). Mortality and Disease incidence rate (%)	0% and 6% resp.	2% and 8% resp
(iv). Average Litter size (Nos)	11	9
(v). Age at maturity	8 months	9 months
(vi). B:C Ratio	2	1.9
(vi). Net Return/unit(Rs)	9,720/-	9,170

Annexure J

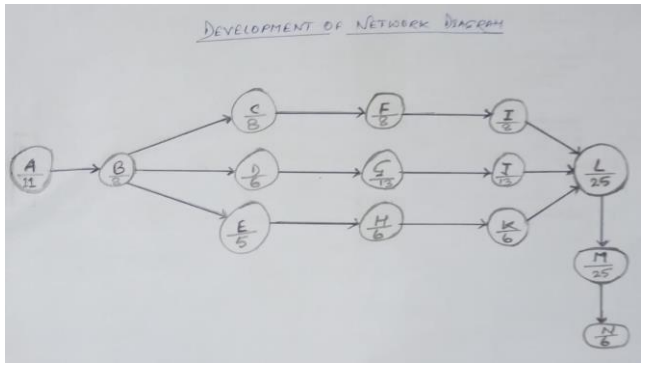
Parameters	**T1**	**T2(local check)**
(i).Average Body weight gain at 12 months of age (Kg)	M= 90.72, F=85.63	M= 80.81, F= 74.01
(ii). Average daily Body weight gain (ADG) at 7 months of age (g/day)	M=248, F=234.6	M=221.35, F= 202.76
(iii). Age at maturity	7 months	8 months
(iv). Average Litter Size (Nos)	13	12
(v). BC Ratio	2.5	2.2
(vi).Net Return(Rs.)	14774.50	12,124.80

Annexure K

OFT: Development of PERT & CPM for different Crops of Villages

Activity	Description	Preceding Activities	Optimistic Time (t_o)	Pessimistic Time (t_p)	Most Likely Time (t_m)	Expected Time (t_e) $\frac{t_o + 4\,t_m + t_p}{6}$
A	Cutting of Jungle (1st fortnight of March)	-	10 Days	12 Days	11 Days	11 Days
B	Burning of Stubble (2nd fortnight of March)	A	7 Days	9 Days	8 Days	8 Days
C	Sowing of Rice (1st fortnight of April)	B	6 Days	10 Days	8 Days	8 Days
D	Sowing of Maize along with other vegetable crops (2nd fortnight of April)	B	5 Days	7 Days	6 Days	6 Days
E	Sowing of Soybean (1st fortnight of May)	B	4 Days	6 Days	5 Days	5 Days
F	1st Intercultural Operation of Rice (1st fortnight of May)	C	7 Days	9 Days	8 Days	8 Days
G	1st Intercultural Operation of Maize along with other vegetable crops (2nd fortnight of May)	D	12 Days	14 Days	13 Days	13 Days
H	1st Intercultural Operation of Soybean (1st fortnight of June)	E	5 Days	7 Days	6 Days	6 Days
I	2nd Intercultural Operation of Rice (1st fortnight of June)	F	7 Days	9 Days	8 Days	8 Days
J	2nd Intercultural Operation of Maize along with other vegetable crops (2nd fortnight of June)	G	12 Days	14 Days	13 Days	13 Days
K	2nd Intercultural Operation of Soybean (1st fortnight of July)	H	5 Days	7 Days	6 Days	6 Days
L	Harvesting of all Kharif crops (2nd fortnight of September to 1st fortnight of October)	I, J, K	20 Days	30 Days	25 Days	25 Days
M	Sowing of Rabi Crop (2nd fortnight of October to 1st fortnight of November)	L	20 Days	30 Days	25 Days	25 Days
N	Harvesting of all Rabi crops	M	17 Days	21 Days	19 days	19 Days

	(2nd fortnight of December to 1st fortnight of January)					



3.2 Achievements of Frontline Demonstrations during 2022

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

List of technologies demonstrated during previous years and popularized 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	Maize HQPM5	HQPM5 line sowing	5	20	5
2	Soybean JS9560	JS 9560-line sowing	8	62	20
3	Field pea Aman	Aman line sowing	3	50	20

** 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	Maize	Varietal trial	HQPM5	Kharif	5	5	20		20		Rainfed			
2	Soybean (CFLD)	Varietal trial	JS9560	Kharif	20	20	62		62		Rainfed			
3	Field pea (CFLD)	Varietal trial	Aman	rabi	20	20	50		50		Rainfed			
4	King chilli	INM	*Application of FYM @ 6t/ha at the time of field preparation *Seed treatment with Biofertilizer (Trichodermma + Azotobacter + Phosphotika 100g each in 100ml/ litre water before transplanting)	Kharif	0.5	0.5	3		3		Rainfed			
5	Kiwi	Protected cultivation	50% agro shade net to be mounted on kiwi vines at the end of February and remove at the end of may to protect flowers from hail stones	Kharif	0.1	0.1	3		3		Rainfed			
6	Potato	IPM	Soil treatment of Potatoes with Quinalphos @ 2ml/lit of water	Kharif	0.5	0.5	3		3		Rainfed			

c. Performance of FLD on Crops during 2022

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	Maize	Varietal Evaluation	5	52	40	30	55	49			48,000	130,000	82,000	2.5	44,000	100,000	56,000	2.2
2	Soybean	Varietal Evaluation	20	20	17,5	14.2	21	19			55,800	170,000	114,000	3	43,600	148,750	100,050	3
3	Field pea	Varietal Evaluation	20	14.25	10.75	32.6	15.5	13			46,300	106,875	60,575	2.3	36,000	80,625	44,625	2.2
4	King chilli	INM	0.25	49.2	28	75.71	55.5	42.9			150000	590400	440400	3.93	140000	336000	196000	2.4
5	Kiwi	Protected cultivation	2	62.8	40.6	54.6	73.5	52.1			341000	628000	287000	1.84	301000	406000	105000	1.34
6	Potato	IPM	0.5	157	102	53	164	146			125000	314000	189000	2.51	110000	204000	94000	1.85

*H-Highest recorded yield, L- Lowest recorded yield ** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio Produce Sale Price must be as per MSP or Registered Marketing Society Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC *Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.*

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	3	24th Feb. 17th March, 30th August 2022		75	75	
2	Farmers Training	5	14th Jan. 16th march, 23rd may, 30th August 2022		156	156	
3	Media coverage						

4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total	**8**			**231**	**231**	

e. Details of FLD on Enterprises

(i) Farm Implements

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

** Field efficiency, labour saving etc.*

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1.	poultry	Poultry production	Rainbow Rooster (kuroiler)	10	10	500	Annexure L					350	1187.20	837.20	3.3	290	612.50	322.50	2.1	Mortality due to Transportstion stress and poor management practice.

2.	Poultry	Disease management	Marek's Disease vaccine, Ranikhet disease(F-1 / Lasota, R2B Lasota booster), IBD vaccines. (1st year)	10	10	500	Annexure M													Marek's diseases appeared to occur but RD,IBd, Fowl Pox didn't reort.
3	Poultry	Disease management	Marek's Disease vaccine, Ranikhet disease(F-1 / Lasota, R2B Lasota booster), IBD vaccines. (2nd year)	10	10	500														Ongoing
4	Poultry	Breed introduction	Kalinga Brown(dual purpose breed)	10	10	250														Ongoing

Annexure L

(i).Average body weight at 16th weeks of age (kg)	M= 3.6, f=3.42	M= 1.9, f= 1.6	M=89.47,F=113.75

(ii). Average daily body weight gain at 16th weeks of age (g/day)	M=13.33, F =12.68	M = 7.03, F = 6.0	M =89.61, F =111.33
(iii). Mortality and Disease incidence rate	2 % and 0% resp.	2% and 1% resp.	--
(iv). Age at 1st laying of egg (Average in weeks)	25	26	4
(v). Average egg production per bird per month (Nos.)	8	10	25

Annexure M

(i).Susceptibility rate (%)	20	40	100
(ii). Rate of occurrence of incidence (%)	0	20	Undefined
(iii). Mortality rate (%)	0	8	undefined

(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	
1																				

** *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	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	

	re etc.																	
1	Mushroom	Mushroom cultivation	Oyster mushroom	3	3	*Average yield/ bag *BC ratio					2500	9600	7100	3.8				
2	Chow chow	Value addition	Popularization of tutti frutti from Chow Chow	124	1	Annexure N		%			Rs.400	Rs.800	Rs.400	2:1				
3	Lemon and ginger	Value addition	Blended RTS beverages (Lemon and ginger)	**38**	1	Annexure O		%			Rs.1020	Rs.2000	Rs 980	1.9:1				
	Agril Extension	Enclosed in annexure				Annexure P												

*** 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.

Annexure N

1. Acceptability	65 %
2. Adoption –	35%
3. Shelf life	3 months

4. B.C	2:1

Annexure O

Adoption	30%
Shelf life –	6-12 months
➢ Blending 80% lemon juice and 20% ginger juice	
➢ Vitamin C content is 9.65mg	
➢ Vitamin D content is negligible	

Annexure P

Final attitudinal scale developed to measure the "attitude of farmers' towards Marketability of farm Produce".

Sl.No.	**Statements**	**'t' Values**
1.	I always adopt different marketing strategies for farm produce to reach out to buyer.	1.897*
2.	I assess expected output and demand of farm produce before investing.	2.017*
3.	I always maintain the quality of farm produce.	3.988*
4.	I feel it necessary to be scientific for value added farm produce.	2.375*
5.	Collective decision at village level should be taken for marketing of farm produce	2.375*
6.	There is fear among farmers for distress sale if the farmers' produces the commodities in large scale.	2.375*
7.	Due to lack of proper transport facilities, it becomes very difficult for farming community to carry farm produce to big market.	2.018*
8.	Government Agencies should be involved in creating marketing channel for farm produce.	2.545*
9.	Storage facilities will bring more income to farmers' of their farm produce	2.160*
10.	Trading of farm produce across neighbouring states are difficult task as it requires lot of time and money	2.593*
11.	Land topography is a biggest problem for marketing of farm produce	3.864*

(v) Farm Implements and Machinery

Sl. No.	Name of implement	Crop	Name of Technolog	No. of farmers	Area (In ha.)	Field observation (Output/ man-hours)	% change in the	Labour reduction	Cost reduction	Remarks

			y demonstrated			Demo	Check	parameter	(Man days)	(Rs. per ha. or Rs. per unit etc.)	

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 during 2022

**(Attached separate in Excel format)

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	(Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Agronomy		Package and practices of HQPM	28-Jan-2022	1	KVK	PF				13	27	40	13	27	40

Horticulture		Production of Onion	10-Aug-2022	1	KVK	PF				0	11	11	0	11	11
Plant Protection		Mushroom Cultivation	11-Jan-2022	1	KVK	PF				13	27	40	13	27	40
Home Science		Processing and value addition of Jackfruit	10-Aug-2022	1	KVK	PF				0	11	11	0	11	11
Home Science		Training on production of bitter gourd chips	10-Aug-2022	1	KVK	PF				0	11	11	0	11	11
Soil Science		Procedure on soil sampling	13-Oct-2022	1	KVK	RY				0	4	4	0	4	4
Soil Science		Training on Importance on Jeevamrut and Bijamrita (Organic farming)	11-Oct-2022	1	KVK	PF				0	15	15	0	15	15
Animal Science		Dairy production and management	11-Jan-2022	1	KVK	PF				13	27	40	13	27	40
Animal Science		Capacity Building of Farmers through Training Programmes on Profitable Dairying Farming and Livestock Management	14/01/2022 to16/01/2022	3	KVK	PF				13	27	40	13	27	40
Animal Science		Brooding of Kuroiler chicks	3-Feb-2022	1	KVK	PF				13	27	40	13	27	40
Animal Science		Capacity Building of Farmers through Training Programmes on Profitable Dairying Farming and Livestock Management	1/02/2022 to 03/02/2022	3	KVK	PF				13	27	40	13	27	40
						Total				**78**	**214**	**292**	**78**	**214**	**292**

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**	**Venue**	**Please specify Beneficiary**	**General participants**	**SC/ST**	**Grand Total**

				days		group (Farmer & Farm women/ RY/ EP and NGO Personnel)	M	F	T	M	F	T	M	F	T
Agronomy		Training on postharvest management of Field Pea	24-Feb-2022	1	Surumi	PF				9	16	25	9	16	25
Agronomy		Training on package and practices of soybean	23-May-2022	1	Litta Old	PF				21	3	24	21	3	24
Agronomy		Training on Agroforestry	21-Jun-2022	1	Limithsami	PF				4	21	25	4	21	25
Agronomy		Rain water Harvesting	28-Jul-2022	1	Alaphumi, Aotsakilimi, Lumitsami, Shichimi, Zaphumi	PF				22	75	97	22	75	97
Agronomy		Postharvest management of soybean	30-Aug-2022	1	Phishumi	PF				15	27	42	15	27	42
Agronomy		Rain water harvesting and water conservation	3-Nov-2022	1	Sumi settsu	PF				21	29	50	21	29	50
Agronomy		Package and practices of foxtail millet	5-Dec-2022	1	Alaphumi	PF				21	5	26	21	5	26
Agronomy		Nutri cereal and their role in human health	17-Sep-2022	1	Naghuto New	RY				20	20	40	20	20	40
Agronomy		Role of nutri cereal in human health	20-Oct-2022	1	Alaphumi	RY				0	27	27	0	27	27
Horticulture		Training on organic nutrient management in khasi mandarin	28-Feb-2022	1	Shichimi	PF				3	17	20	3	17	20
Horticulture		Training on organic beans production technology	28-Feb-2022	1	Shichimi	PF				3	17	20	3	17	20
Horticulture		Package and practices of apple cultivation (Lumithsami)	12-Apr-2022	1	Lumithsami	PF				4	10	14	4	10	14
Horticulture		Package and practices of apple cultivation (Shichimi)	12-Apr-2022	1	Shichimi	PF				5	10	15	5	10	15
Horticulture		Postharvest management of kiwi fruit	1-Sep-2022	1	Naghoto	PF				9	30	39	9	30	39
Horticulture		Package and practices of broccoli	1-Sep-2022	1	Naghoto	PF				9	30	39	9	30	39
Horticulture		Training on protected cultivation of Kiwi	26-Feb-2022	1	Lokobomi	PF				0	26	26	0	26	26
Horticulture		Training on organic cultivation of chili	26-Feb-2022	1	Lokobomi	PF				0	26	26	0	26	26
Horticulture		Package and practices of strawberry	23-Sep-2022	1	Naghuto New	PF				0	10	10	0	10	10

Horticulture		Nutri garden and its benefits	17-Sep-2022	1	Naghuto New	RY				20	20	40	20	20	40
Horticulture		Home scale preservation of locally available fruits (RY)	16-Jun-2022	1	Sukhai	RY				2	18	20	2	18	20
Horticulture		Organic king chili production (RY)	16-Jun-2022	1	Sukhai	RY				2	18	20	2	18	20
Horticulture		Training on Organic cultivation of citrus	23-Jun-2022	1	Sastami	RY				1	37	38	1	37	38
Horticulture		Training on Value addition of local vegetables	23-Jun-2022	1	Sastami	RY				1	37	38	1	37	38
Horticulture		Cultivation and value addition of fruits and vegetables	15/11/2022 to 17/11/2022	3	Naghuto New (Voc)	RY				8	17	25	8	17	25
Plant Protection		IPM on Fall Army Worm	13-Jul-2022	1	Akuhaito	PF				11	10	21	11	10	21
Plant Protection		IPM on Jhum Rice	13-Jul-2022	1	Philimi	PF				10	10	20	10	10	20
Plant protection		Training on Oyster mushroom cultivation	1-Mar-2022	1	Sumi settsu	PF				9	14	23	9	14	23
Plant protection		Training on Shitake mushroom cultivation	1-Mar-2022	1	Sumi settsu	PF				9	14	23	9	14	23
Plant protection		Training on IPM on jhum rice	17-Mar-2022	1	Lumithsami village	PF				3	18	21	3	18	21
Plant protection		Training on IPM on summer vegetables	8-Apr-2022	1	Tichipami	PF				6	19	25	6	19	25
Plant protection		Training on IPM on summer vegetables	2-Jun-2022	1	Lita New	PF				22	12	34	22	12	34
Plant protection		IPM on Fall army worm on maize	2-Jun-2022	1	Lita New	PF				22	12	34	22	12	34
Plant protection		IPM on jhum paddy	5-Aug-2022	1	Zaphumi B	PF				5	25	30	5	25	30
Plant protection		Training on IPM on winter vegetables	13-Sep-2022	1	Litta New	PF				8	22	30	8	22	30
Plant protection		IPM on winter vegertables	4-Nov-2022	1	Ranthan (Sponsored)	PF				32	6	38	32	6	38
Agril Extension		Training on Application of Balances use of fertilizers under the National campaigning on Azadi ka Amrit Mohotsav	21-Jun-2022	1	Limithsami	PF				24	47	71	24	47	71
Agril extension		Training on Concept of Farmers Field School	8-Jun-2022	1	Sukhomi	PF				11	6	17	11	6	17
Agril extension		Training on Concept of Self Help Group	27-Jun-2022	1	Lumithsami	PF				4	21	25	4	21	25
Agril Extension		Training on formation and promotion of FPO			Sumi settsu	PF				52	50	102	52	50	102
Agril Extension		Formation and Promotion of F.P.O. / PF	7-Jul-2022	1	Aotsakilimi	PF				40	10	50	40	10	50

Agril Extension		Concept of Self Help Group/ PF	13-Jul-2022	1	Philimi	PF				10	10	20	10	10	20
Agril Extension		Concept of Self Help Group/ PF	13-Jul-2022	1	Rotomi	PF				10	10	20	10	10	20
Agril extension		Application of ICTs for Farmers	2-Oct-2022	1	Zapumi Old	PF				12	9	21	12	9	21
Agril extension		Application of ICTs for Farmers	20-Oct-2022	1	Alaphumi	PF				4	23	27	4	23	27
Agril. Extension		Role of Women in Agriculture	8-Mar-2022	1	Litt New	PF				0	20	20	0	20	20
Agril Extension		Management of Self Help Group/ PF	28-Sep-2022	1	Zaphumi Old	PF				0	14	14	0	14	14
Agril Extension		An Overview of Credit facilities for SHGs/ PF	28-Sep-2022	1	Zaphumi Old	PF				0	14	14	0	14	14
Agril extension		Application of ICTs for Farmers	21-Oct-2022	1	Litta new	RY				8	15	23	8	15	23
Home Science		Preparation of soyamilk	1-Sep-2022	1	Naghoto	PF				9	30	39	9	30	39
Home Science		Preparation of roasted soyanuts	1-Sep-2022	1	Naghoto	PF				9	30	39	9	30	39
Home Science		Preparation of Tutti futti from chow chow	28-Oct-2022	1	Zapumi Old	PF				11	14	25	11	14	25
Home Science		Prepartaion of Blended beverages form Citrus and ginger	28-Oct-2022	1	Zapumi Old	PF				11	14	25	11	14	25
Home Science		Preparation of kiwi squash	23-Sep-2022	1	Naghuto New	PF				0	10	10	0	10	10
Home Science		Preparation of kiwi Jam	23-Sep-2022	1	Naghuto New	PF				0	10	10	0	10	10
Home Science		Preparation of Tutti futti from chow chow	26-Oct-2022	1	Tichipami	PF				0	35	35	0	35	35
Home Science		Preparation of soymilk	27-Oct-2022	1	Lumithsami	PF				0	44	44	0	44	44
Home Science		Training on Preparation of tuitti fruitti from chow chow vegetable	16-Jun-2022	1	Sukhai	RY				2	18	20	2	18	20
Home Science		Training on preparation of litchi jam	23-Jun-2022	1	Sastami	RY				1	37	38	1	37	38
Home Science		Training on preparation of litchi squash	23-Jun-2022	1	Sastami	RY				1	37	38	1	37	38
Home science		Processing and value addition of locally avialable fruits and vegetables	15/11/2022 to 17/11/2022	3	Naghuto New (Voc)	RY				8	17	25	8	17	25
Soil Science		How to improve soil fertility in the farmers field	1-Sep-2022	1	Naghoto	PF				9	30	39	9	30	39
Soil Science		Importance on the use of spent mushroom substrate	1-Sep-2022	1	Naghoto	PF				9	30	39	9	30	39

Soil Science		Training on Importance on Jeevamrut and Bijamrita (Organic farming)	28-Oct-2022	1	Zapumi Old	PF				11	14	25	11	14	25
Soil Science		Vermi wash (Organic farming - Soil fertility)	23-Sep-2022	1	Naghuto New	PF				0	10	10	0	10	10
Soil Science		Training on Importance on Jeevamrut and Bijamrita (Organic farming)	26-Oct-2022	1	Tichipami	PF				0	35	35	0	35	35
Soil Science		Training on Importance on Jeevamrut and Bijamrita (Organic farming) Natural farming	27-Oct-2022	1	Lumithsami	PF				0	44	44	0	44	44
Animal Science		Piggery housing and planning	6-Jul-2022	1	Aotsakilimi	PF				40	10	50	40	10	50
Animal Science		Economics of Swine Production	21-Feb-2022	1	Zaphumi	PF				20	20	40	20	20	40
Animal Science		Economics of poultry Production	28-Feb-2022	1	Sumi settsu	PF				18	22	40	18	22	40
Animal Science		Capacity Building Pragramme	24/2/2022 to 26/2/2022	3	Sumi settsu (Sponsored)	PF				18	22	40	18	22	40
Animal Science		Capacity building of farmers through training programmes on profitable dairy farming and livestock management	18/02/2022 to21/02/2022	4	Zaphumi (Sponsored)	PF				20	20	40	20	20	40
Animal Science		Capacity building training on "Common diseases in livestock and its management"	14/03/2022 to 16/03/2022	1	Lumithsami (Sponsored)	PF				38	2	40	38	2	40
Animal Science		Brooding of chicks	15-Mar-2022	1	Lumithsami	PF				38	2	40	38	2	40
Animal Science		Feeding and Nutritional Management of swine	20-Oct-2022	1	Alaphumi	RY				0	25	25	0	25	25
Animal Science		Feeding and Nutritional Management of Poultry	21-Oct-2022	1	Litta new	RY				8	15	23	8	15	23
Animal Science		feeding and nutritional management of swine	9-Nov-2022	1	Litta New	RY				10	15	25	10	15	25
Animal Science		feeding and nutritional management of poultry	10-Nov-2022	1	Alaphumi	RY				0	25	25	0	25	25
						Total				**803**	**1594**	**2397**	**803**	**1594**	**2397**

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Duration	Area of	Training title*	No. of Participants	Impact of training in terms of Self employment after	Whether

	(From – To)	(days	training		General			SC/ST			Total			training				Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					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	
Winter vegetables and Kiwi fruit	15 to 17th Nov 2022	3 days	Production and value addition	Cultivation and value addition of fruits and vegetables				7	18	15	7	18	25	Value addition on Kiwi (Squash, Jam,Candy)	1	4	15000	
Value addition	15/11/22	17/11/22	Processing and value addition	Processing and Value Addition of locally available fruits & Vegetables				8	17	25	8	17	25					

*training title should specify the major technology /skill transferred

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

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From- To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
Off	PF	5//08/2022	1	Plant protection		IPM on jhum paddy				5	25	30	5	25	30		
Off	PF	24/2/2022 to 26/2/2022	3	Animal Science		Capacity Building Pragramme				18	22	40	18	22	40		
Off	PF	18/02/2022 to21/02/2022	4	Animal Science		Capacity building of farmers through training programmes on profitable dairy farming and livestock management				20	20	40	20	20	40		

On	PF	14/03/2022 to 16/03/2022	3	Animal Science		Capacity building training on "Common diseases in livestock and its management"				38	2	40	38	2	40		
On	PF	14/01/2022 to16/01/2022	3	Animal Science		Capacity Building of Farmers through Training Programmes on Profitable Dairying Farming and Livestock Management				13	27	40	13	27	40		
off	PF	1/02/2022 to03/02/2022	3	Animal Science		Capacity Building of Farmers through Training Programmes on Profitable Dairying Farming and Livestock Management				13	27	40	13	27	40		
Off	PF	4th Nov 2022	1	Plant protection		IPM on winter vegertables				32	6	38	32	6	38		

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 2022

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.	Field day		24-02-2022, 30-08-2022	2				24	43	67				24	43	67
2.	Method demonstration		26-02-2022, 01-09-2022, 28-10-2022	7				26	180	206				26	180	206
3.	Farmers scientist interaction		28-07-2022	1				44	30	74				44	30	74
4.	Scientist visit to farmers field		17-02-2022, 04-11-2022, 29-11-2022, 23-11-2022	8				27	33	60				27	33	60
5.	Diagnostic visit		27-09-2022	2				1	1	2				1	1	2
6.	Vaccination camp		31-01-2022	2				18	6	24				18	6	24
7.	Animal health camp		17-08-2022	2				77	46	123				77	46	123

8.	Plant health camp		15-08-2022	2				24	33	57				24	33	57
9.	Exhibition		15-08-2022	1				601	410	1011				601	410	1011
10.	Kisan Mela		15-08-2022	1				44	30	74				44	30	74
11.	kissan Ghosthi		08-03-2022	2				53	69	122				53	69	122
12.	Survey		01-09-2022,	1				3	2	5				3	2	5
13.	Resource person			1				44	30	74				44	30	74
14.	Deworming of animals			1				1	0	1				1	0	1
15.	Animal treatment		19-10-2022	3				1	4	5				1	4	5
16.	Awareness Program		26-08-2022	1				22	75	97				22	75	97
17.	Supply of inputs		04-11-2022, 01-09-2022, 13-09-2022, 17-09-2022, 07-12-2022, 16-12-2022, 05-10-2022, 19-10-2022, 27-10-2022, 05-08-202	10				140	141	281				140	141	281
18.	Swachhta Activity		26-08-2022	1				10	4	14				10	4	14
19.	Farmers exposure tour		16 to 17-11-2022	1				14	5	19				14	5	19
20.	Celebration of important days		10-02-2022, 28-07-2022, 08-03-2022, 05-12-2022	5				254	253	507				254	253	507
21.	TV talk on Organic farming		08-02-2022	1												
22.	Live Television Programme		16-11-2022	2												
	Total			**55**				**1428**	**1395**	**2823**				**1428**	**1395**	**2823**

3.5 Production and supply of Technological products during 2022

A. SEED MATERIALS

Major group/class	Crop wise	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries				
					General		SC/ST		Grand Total
					M	F	M	F	
Cereals	Maize	HQPM-5	25	62,500			24	20	24
Oilseeds	Soybean	JS-9560	400	3,40,000			275	125	400
Rhizome	Turmeric	Megha -1	4	12,000			2		2
	Colocasia	Local	1	4000			2		2
	Ginger	Nadia	2.5	15,000			2		2
Vegetables	French beans	Anupama	0.098	8085			4	94	98
	Bottle gourd	Amrit	0.0095	1200			0	26	26
	Bitter gourd	Bipasa	0.00675	1280			3	48	51
	Pakchoi	Choko	0.0003	600			0	10	10
	Cowpea	Kashi Nidhi	0.001	1100			14	93	107
	Tomato	Nitya Swarna	0.0003	1800			3	45	48
	Onion	Bhima super	0.001	3676			1	27	28
	Cabbage	BC-76	0.00028	606			1	26	27
	Cauliflower	Fist agahani	0.001	910			1	26	27
	Broccoli	Green diamond 909	0.0001	150				1	1
	Chinese cabbage	Melody	0.0002	680				10	10
	French beans	Serengeti	0.0035	2550			9	32	41

A1. SUMMARY of Production and supply of Seed Materials during 2022

Sl. No.	Major group/class	Quantity (q) produced	Quantity (q) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries				
					General		SC/ST		Grand Total
1	Maize	25	25	62,500			24	20	24
2	Soybean	400	400	3,40,000			275	125	400
3	Turmeric	4	4	12,000			2		2
	Colocasia	1	1	4000			2		2
	Ginger	2.5	2.5	15,000			2		2
TOTAL		432.5	432.5	4,33,500			305	145	430

B. Production and supply of Planting Materials (Nos. in No.) during 2022

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		Grand Total
						M	F	M	F	
Fruits	Pineapple	Giant Kew	1000 nos	1000 nos				8	2	10
	Passion fruit	Yellow	150 nos	150 nos				1	1	2
	Dragon fruit	Pink flesh	100 nos	100 nos				1	1	2
	Banana	Grand naine	200 nos	200 nos				1	1	2
Spices	King chilli	Local	300 nos	300 nos				6	4	10
	Vegetables seedlings	-	2000 nos	2000 nos				55	45	100

C. Production of Bio-Products during 2022

Major group/class	Product Name	Species	produced Quantity		Value (Rs.)	Number of Recipient /beneficiaries				
			No	(Kg)		General		SC/ST		Grand Total
						M	F	M	F	
BIOAGENTS										
Vermicompost	Vermicompost	Eisenia fetida		300	9000			10		10
BIOFERTILIZERS										

BIO PESTICIDES										

D. Production of livestock during 2022

Sl. No.	Type/ category of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries				
			(Nos)	Kgs		General		SC/ST		Total
						M	F	M	F	

3.6. Literature Developed/Published (with full title, author & reference) during 2022

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies	
			Produced/ published	Supplied/ distributed
Book	"A Farmer's Guide on Improve Soil Fertility and Post Harvest Management and Value Addition in Crops"	Dr. Sentimenla, Ms,Edenly Chishi, Ms. Narola Anichari	No of copies- 9 Book Publised-1	
Newsletter	KVK, Newsletter Vol III issue 10		500	450

N.B. Please enclose a copy of each. In case of literature prepared in local language, please indicate the title in English

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1.			

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

Ms. Inali Sumi is a small farmer from Sukhai Village of Zunheboto district. She grows paddy as main crop along with some seasonal vegetables but this could not meet her family neds financially subject specialist form KVK Zunheboto identified

Ms. Inali Sumi was advised and suggested her to go for king chilly cultivation which has huge market demand for its high pungency and good aroma. The farmer was provided with good planting materials of king chilli, bio fertilizers, organic manures and technical guidance to undergo organic king chilli cultivation in half acre of land. Biofertilizers + Trichodermma was used for seed treatment and also seedling roots dipping before transplanting + FYM 6t/ha as soil application during field preparation. By adopting all scientific methods, the farmer could increase the production by 75.71% over the traditional practices. She could harvest fresh fruit of 995kg and her produce were sold within her village, and near by market at a minimal price of Rs. 120/kg during peak season. KVK also transferred processing technologies by making into pickles, sun/smoke dried chilli and chilli powders.

She also earn more benefits by sale of value added products and her products were showcased during district important events/ celebration and in farmers fair. The total amount she could earn was Rs. 119400/- with a net profit of Rs. 80000/-.

With the effort of KVK officials the livelihood status of Ms. Inali Sumi was improved and this impact inspired other farmers to take up this activity to generate income.

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

3.11 Field activities

i. Number of villages adopted : 7

ii. No. of farm families selected:

iii. No. of survey/PRA conducted: 1

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Established

1. Year of establishment : 2022
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1	Soil lab	Mini lab	Harvesto	1	
Total					

3. Details of samples analyzed (2022) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	5	95	7	
Water Samples				
Plant Samples				
Petiole Samples				
Total	5	95	7	

1. Details of Soil Health Cards (SHCs) (2022)
   a. No. of SHCs prepared: 95
   b. No. of farmers to whom SHCs were distributed: 95
   c. Name of the Major and Minor nutrients analysed: NPK, Zinc and Boron
   d. No. of villages covered: 7

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 Ben	No. of Message	No. of Benef	No. of Message	No. of	No. of Message	No. of Benefi	No. of Message	No. of Benef	No. of Message	No. of Benef	No. of Message	No. of Benefi

		eficiary		iciary		Benef iciary		ciary		iciary		iciary		ciary
Text only	5	2025	5	2011	-	-	-	-	9	6167	6	4021	25	14224
Voice only														
Voice and Text both														
Total	5	2025	5	2011	-	-	-	-	9	6167	6	4021	25	14224

3.14 Contingency planning for 2022

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			77	77
	Introduction of Resource Conservation Technologies				
Drought	Distribution of seeds and planting materials	100		200	200
Insects infestation outbreak	Distribution of pesticides & IPM kits	100		200	200

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
Poultry	500	1	2	500		10	10
Piggery	30	1	2	30		15	15

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 2022

Name of organization	Nature of linkage
1.Nagaland University	Scientific & Administrative
2. ATMA, DAO, DVO, DHO, DRDA, DFO, DSCO, DPO	Scientific, participation in meeting,Administrative and financial
3. NABARD	Scientific, participation in meeting,Administrative and financial
4. IARI, New Delhi	Scientific joint implementation
5. NCIPM	Scientific and joint implementation
6. NCIPM	Scientific, financial
7. ICAR New Delhi	Scientific, financial

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 2022

Name of the scheme/ special programme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Natural farming Project	Activities related to natural farming	August 2022	ICAR, New Delhi	2.62 Lakhs
Tribal Community development	OFT/ Demonstrations, Supply of inputs	June 2022	ICAR, New Delhi	100 Lakhs
Validation and Promotion of IPM in Rice and Horticultural crops in NEH India	Supply of inputs, monitoring	2021-2022	NCIPM, New Delhi	4.6 lakhs
Validation and refinement and Promotion of IPM strategies in Maize	Supply of inputs, monitoring	2022-23	NCIPM, New Delhi	1.5 Lakhs
TSP , NEH	Supply of potato seeds	December 2022	IARI, New Delhi	4.5 Lakhs
DAMU	Weather forecasting	2022	Ministry of Agriculture	-
CFLD oilseeds	Supply of inputs, monitoring	May 2023	Ministry of Agriculture	0.74 Lakhs
CFLD Pulses	Supply of inputs, monitoring	August 2023	Ministry of Agriculture	0.50 Lakhs

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	Training	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

5.6 MGMG of KVKs during 2022

No of Villages	Participants		No of Visit made	Participants		No of demonstration	Participants		No of Farmers meeting	Participants	
	SC/ST	Others		SC/ST	Others		SC/ST	Others		SC/ST	Others
7	3183		12	52		5	79				

5.7 Natural Farmingduring 2022

No. of demonstrations conducted	Participants		No. Trainings	Participants		No. of Awareness Programs	Participants	
	SC/ST	Others		SC/ST	Others		SC/ST	Others
10	215		1	44		3	76	

5.8 Achievements under DAMU KVKs during 2022 (only selected KVKs): NIL

No of KVKs	Beneficiaries	Advisories given (no)	Training organized (no)	Dissemination of Advisories

5.9 Format for Current Progress of Cluster Demonstrations on Organic Farming under PKVY during 2022 (only selected KVKs): NIL

No. of clusters formed	No. of Farmers registered	Area covered (Ha)	No. of LRP identified	Number of clusters linked to certification agency	No. of clusters in which organic production started	Name of crops which are produced organically in clusters

Number of clusters linked to markets	Mobilization/ awareness camps organized		Farmers meetings organized		Training programmes organized		Exposure visits organized	
	No. of activities	No. of farmers	No. of activities	No. of farmers	No. of activities	No. of farmers	No. of activities	No. of farmers

6.0 Report on Agri Drone project (only selected KVKs)

S.No.	Name on the Project Implementing Centre (PIC)	No. of Kisan Drones Sanctioned	Target Area for Kisan Drone Demonstration (Ha)	No. of Kisan Drones Purchased by the PIC	Make and Model of Purchased Kisan Drone	Purchased cost of each drone (Rs.)	No. of Kisan Drone Demonstration organized	Date and Place of Kisan Drone Demonstration	Operation carried out (Pesticide/ Nutrient application)	Area Covered under the Kisan Drone Demonstration	Number of farmers participated	Advantages of using Kisan Drones as observed during the demonstrations	Problems any encountered in Drone Purchase and their Demonstration	Additional Remarks if any

6.1 Status of NARI during 2022: NIL

Name of Nutri-SMART Village	T 1	T 2	T 3	Area (ha)	No of Beneficiaries	Name of crop	T1			T2			T3		
							Name of variety	Yield (q/ha)	Consumption (kg)	Name of variety	Yield (q/ha)	Consumption (kg)	Name of variety	Yield (q/ha)	Consumption (kg)

7. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2022

7.1 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	IFS	2018	1ha	Refer Annexure Q					
2	Nutritional garden	2020	0.005	Vegetables	Fresh fruits	100kg	3000	5000	

Annexure Q

Var/Spec/ Breed	**Type of produce**	**Qty**	**Cost of inputs**	**Gross income**
HF cow	Fresh milk	920.5lt.	40000	55230.00
	Manure	300qt		
Broiler chicken	Meat	1500kg	225000	300000.00
Banana Var. Grannd naine	Fruits	1500 nos	2000	3000.00
Mango Var. Amarpali	Fruits	40kg	2000	2500

7.2 Performance of instructional farm (Crops) including seed production during 2022

Name	Date of	Date of	Area (ha)	Details of production	Amount (Rs.)	Remarks

of the crop	sowing	harvest		Variety	Type of Produce	Qty.	Cost of inputs	Gross income	

7.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) during 2022

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

7.4 Performance of instructional farm (livestock and fisheries production) during 2022

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	
1	Cattle	HF cross	Milk	920.5lt.	40000	55230.00	
			Manure	300qt			
2	Chicken	Broiler	Meat	1500kg1	225000	300000.00	

7.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structure during 2022

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

7.6. Utilization of hostel facilities (Month-Wise) during 2022

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

8. FINANCIAL PERFORMANCE

8.1 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

8.2 Utilization of funds under CFLD on Oilseeds and Pulses (Rs. In Lakhs) if applicable during 2022

Item	Released by ICAR/ATARI (in lakh)		Expenditure (in lakh)		Unspent balance as on 31st March, 2023
	Amount	Amount	Amount	Amount	
Oilseeds	0.78222		95000		(-)100000 this includes previous year deficits
Pulses	49698		170000		(-)120302
TOTAL	**49699**		**265000**		**(-)220302**

8.3 Utilization of KVK funds during the year 2022 (2022-2023)

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	230.48823	230.48823	230.45
2	Travelling allowances	3.0	3.0	2.81
3	Contingencies	19.0	19.0	18.99
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			
	Working Capital			
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			
K	KSHAMTA			
L	NARI			
M	HRD	0.60	0.60	0.60
TOTAL (A)		**253.0882**	**253.0882**	**252.85**
B. Non-Recurring Contingencies				
1	Works	1.0	1.0	1.0
2	Equipments including SWTL & Furniture	19.02	19.02	19.02
3	Vehicle (Four wheeler, please specify)			
4	Library (Purchase of assets like books & journals)	0.15	0.15	0.15
TOTAL (B)		20.17	20.17	20.17
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		273.26	273.2582	273.02

8.4 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 2020 to March 2021	3.35	0.23	00	3.85
2021-2022	3.85	2.27	0.83	5.29
2022-2023	5.29	3.74	2.56	6.47

Note: No KVK must leave this table blank

8.5 Please include information which has not been reflected above.

(Write in detail)

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

(a) Administrative

(b) Financial

(c) Technical

(Signature)
Principal Scientist cum Head