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	
Office of the Senior Scientist & Head Krishi Vigyan Kendra Post box-9, Tseminyu-797109 Kohima, Nagaland	-	-	Kvkkma@rediffmail.com & kvkkohimanaga@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Directorate of agriculture	(0370) 2243970/2243116		agrkvk@yahoomail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Ruokuovilie Mezhatsu	-	+8787658733	kvkkohimanaga@gmail.com

1.5. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Category (SC/ST/ OBC/ Others)
1	Sr. Scientist & Head	Dr Ruokuovilie Mezhatsu	Pr. Scientist & Head	Entomology	37400-67000	172200	27.7.10	Permanent
2	Subject Matter Specialist	Dr Paihem Michui	ACTO (Vety.& A H)	Animal Science	15600-39100	91100	16.02.07	Permanent
3	Subject Matter Specialist	Dr Martina Shitri	ACTO (Gen & Plant B)	Genetics Plant Breeding	15600-39100	91100	19.02.07	Permanent
4	Subject Matter Specialist	Smt Puchono Kweho	SMS (Agronomy)	Agronomy	15600-39100	71100	17.04.13	Permanent
5	Subject Matter Specialist	Shri imtinuksung	SMS (Soil Conservation)	Soil Conservation	15600-39100	71100	17.04.13	Permanent
6	Subject Matter Specialist	Smt Eliseni Tsopoe	SMS (Entomology)	Entomology	15600-39100	69000	9.09.15.	Permanent
7	Subject Matter Specialist	Dr. Shisarenla Aier	SMS (Horticulture)	Horticulture	15600-39100	65000	31.08.17	Permanent
8	Farm Manager	Dr. Sesenlo Kath	Technical Officer	Agri. Extension	9300-34800	62200	15.02.07	Permanent
9	Programme Assistant	Smt Keviyieno Zhasa	Technical Officer	B.Sc. Home Science	9300-34800	62200	26.02.07	Permanent
10	Computer Programmer	Shri. Vevozo Nyekha	Technical Officer	B.A & ANC (Computer Science)	9300-34800	62200	15.02.07	Permanent
11	Superintendent & Accountant	Shri. Moatemsu. Jamir	Office supdt.Cum Acctt.	M.Com.	9300-34800	60400	15.02.07	Permanent
12	Stenographer	Senali Magh	Jr Steno cum Computer operator	B.A.	5200-20200	41600	16.02.07	Permanent
13	Driver	Shri Shwenyu Khing	Mechanic cum Driver	-	5200-20200	33300	25.04.08	Permanent
14	Driver	Shri. Hankhan Kath	Driver	-	5200-20200	33300	25.10.07	Permanent
15	Supporting staff	Shri Keshoshe Mesung	Supporting staff	-	4440-7440	24900	02.06.07	Permanent
16	Supporting staff	Shri Medzonkhe Seb	Supporting staff	-	4440-7440	24900	08.06.07	Permanent
	Total	16	-	-	-	-	-	-

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) :25.85

b. Total cultivable land with KVK (in ha) :18.35

c. Total cultivated land (in ha) :7.5

S. No.	Item	Area (ha)
1	Under Buildings	1.1
2.	Under Demonstration Units	0.5
3.	Under Crops (Cereals, pulses, oilseeds etc.) (Pl. specify separately) i.Cereal ii.Pulses (Blackgram, Greengram, Field pea iii. Toria	2
4.	Under vegetables	1
5.	Orchard/Agro-forestry	4.0
6.	Others (specify)	17.25

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	29/06/07.	400 sq.m	Completed	-	-	-
2.	Farmers Hostel	-	-	-	-	-	-	-
3.	Staff Quarters (6)	ICAR	-	610 sq.m	Completed	-	-	-
4.	Demonstration Units (2)	ICAR	-	-	Two completed,	-	-	-
5	Fencing	ICAR	29/06/07.	1.2 km	Completed	-	-	-
	Rain Water harvesting system	ICAR	-	-	Completed	-	-	-
	Threshing floor	-	-	-	-	-	-	-
	Farm go-down	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero	NL10C-0466	2017	8 lakh	117263 Km	Need replacement
Power tiller	-	2016	2.0	NA	Good
Power tiller	-	2017	-	NA	Excellent

C) Equipments& AV Aids

Name of the equipments	Year of purchase	Cost (Rs.)	Present status
Furniture (Table, chairs etc.)	2007	1,35,000/-	Replaced
Computer(Desktop)	2007	50,000/-	Replaced
Printer cum scanner cum Photo copier	2009	20,000/-	Good
Xerox Machine	2010	100000/-	Good.
Computer & Printer	2010	1,00,000/-	Good
Generator (Genset)	2010	42,200/-	Good
Inverter + battery	2021	30,000/-	Good
Lap Top (Asus)	2013	35,000/-	Good
Camera	2021	47532/-	Good
Computer *Hp* (4 Nos)	2016	-	Good
Printer cum scanner (canon)-3 Nos	2016	-	Good
Xerox copier(canon)	2016	-	Good
Generator 20 KVA	2016	-	Replaced
Computer Table & chairs (4 Nos)	2016	-	Good
Refrigerator (1 Nos)	2016	-	Damaged
Almirah (3 nos)	2016		Good
Digital Camera	2007	14,000/-	Damaged
Lap Top	2009	30,000/-	Damaged
LCD Projector	2010	1,00,000/-	Damaged.
HandyCam	2010	20,000/-	Damaged.
Fax Machine	2010	25,000/-	Good
LCD Projector	2021	32,000/-	Good
LCD Projector	2021	29,000/-	Good
Generator	2021	29,000/-	Good
Furniture (Sofa)	2021	29,000/-	Good
Furniture (Conference table)	2021	45,000/-	Good
Furniture	2022	2,00,000/-	Good

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

Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
20.1.22	1. Dr Zasekuolie chsi, IAS, DC Tseminyu 2. Mr. Ruovilhou Tseibu, DAO, Tseminyu 3. Vikepelie Chadi Horticulture Officer, Tseminyu 4. S. Changsangchuba Chang SDAO, Tseminyu 5. Mrs. Nensile Magh Progressive Farmer New Tesophenyu village 6. Nnole Thyu Progressive Farmer Henbenji village 7. Dr.Gwathonlo Tsela VAS, Tseminyu 8. Sole Tep, president women club. 9. Khwenhilo Tep, Convener PFO, Tseminyu	Conduct more number of trials/OFT on high value vegetable crops Focus the OFTs and FLDs on organic farming so that the farming community can easily accept as the farmers are more inclined to organic farming Suggested to conduct more field visits during the peak season Cover more farmers under FLDs under IPM of Fall army worm in maize and introduce HYV of pea as the district suitable for pea cultivation Popularizing improved varieties of poultry birds under backyard system	Action taken as suggested Action Taken as suggested Action taken as suggested Action taken as suggested Action taken as suggested

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

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1	Agriculture + Horticulture + Animal Husbandry
2	Agriculture + Animal Husbandry + Fishery
3	Agriculture + Horticulture
4	Agriculture + Animal Husbandry
5	Horticulture + Apiculture
6	Agriculture + Fishery
7	Agro-forestry
8	Sericulture

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

Sl. No	Agro-climatic Zone	Characteristics
1	Sub Tropical Hill Zone	The climate of this region is characterized by warm summer and mild winter with seasonal dry spells extending from November to April. The length of growing period ranges from 300-330 days and moisture index ranges from 40-60%.

2.3 Soil types

Sl. No	Soil type	Characteristics	Area in ha
1	In general, soils on moderately steep to steep slopes of low amplitudinal hill ranges are moderately deep to deep excessively drained, loamy-skeletal, fine-loamy to fine and are severely eroded. In the narrow valley, the soils are shallow, excessively drained fine-loamy and are moderately eroded. The soils in the narrow valley are classified as lithic Udorthents, whereas the hill slope soils are classified as Umbric/Typic Dystrochrepts, Pachic Haplumbrepts, Typic Haplumbrepts and Typic Paleudults.	Soils are strongly to moderately acidic in nature, high in organic matter and poor in exchangeable bases	370200

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	5170	10.29	1990
2	TRC	11040	31.31	2836
3	Maize (kharif & rabi)	4610	9.14	1983
4	Jowar	60	0.06	1000
5	Millet	1790	2.03	1134
6	Jobstear	210	0.22	1048
7	Wheat	370	0.68	1838
8.	Moong	30	0.03	1000
9	Bean	350	0.48	1371
10	Kholar/kholar(kharif)	170	0.22	1294
11	Kholar/kholar(Rabi)	580	0.72	1241
12	Pea	650	0.71	1092
13	Groundnut	80	0.08	1000
14	Soybean	2080	2.65	1274
15	Perilla	430	0.26	605
16	Sesamum	390	0.24	615
17	Rapeseed & mustard	2030	2.05	1010

18	Potato (Rabi)	1640	16.42	10012
19	Tapioca	200	4.05	20250
20	Ginger	460	4.21	9152
21	Colocassia	700	6.66	9514
22	Yam	260	1.89	7269
23	Rice bean/nagadal	820	0.94	1146
24	Sweet potato	170	1.45	8529
25	Tea Green	350	1.56	4457
26	Sugarcane	220	9.57	43500
27	Tur/Arhar	300	0.28	933

Source:- *Directorate of Agriculture, Nagaland Kohima (2020-21).*

2.5. Weather data

Month	**Temperature (ºC)**	**Rainfall (mm)**	**No. of Rainy days**	**Relative Humidity (%)**
January	10.8	28	5	81
February	12.8	48	6	75
March	15.7	101	10	71
April	18	187	14	79
May	19.8	312	19	85
June	21.4	489	21	88
July	21.6	551	22	88
August	21.6	514	22	88
September	20.7	386	21	89
October	18.3	209	18	88
November	14.7	52	7	85
December	11.8	22	3	83
Annual rainfall	-	**2899**	**168**	-

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

Category	Population	Production	Productivity
Cattle			
Crossbred	63652	NA	NA
Indigenous			
Buffalo	2314	NA	NA
Sheep			
Crossbred	1091	NA	NA
Indigenous			
Goats	9082	NA	NA
Pigs			
Crossbred	359831	NA	NA
Indigenous			
Rabbits	3924	NA	NA
Poultry			
Hens			
Desi	392243	NA	NA
Improved			
Ducks	11475	NA	NA
Turkey and others	NA	NA	NA
Category	Area	Production	Productivity
Fish			
Marine	NA	NA	NA
Inland			
Ponds and Tanks	-	102.6	950 kg/ha/yr
Paddy cum fish culture	-	56.2	300 kg/ha/yr
Others (riverine etc)	-	16.2	-
Prawn	NA	NA	NA
Scampi	NA	NA	NA
Shrimp	NA	NA	NA

Note: Pl. provide the appropriate Unit against each enterprise

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.	N/A	Kohima (15 Village) Area-309000 ha.	Kohima Village, Chiedema, Khonoma, Jotsoma, Sechu , Zubza Sechu, Mezoma, Dzulakie, Kiruphe basa, Kirupe Bawe Peducham Mengujuma, thekrejunama, Viphoma	Paddy(TRC/Jhum), Maize,Potato,Soybean,Ricebean,Beans, Mustard, Chilli, Tomato,Ginger, Turmeric, Groundnut, Sesamum, Pea, jobstear, Pumkin, Colocasia, Sweet Potato, cucumber, passion fruit, Guava, Chow-Chow, pear, cardamom,Poultry, Livestock, Piggery, Fishery, Sericulture, Goatery, Duckery etc.	Lack of improved seeds and planting material, lack of adequate eirrigation facilities, lack of scientific Management practices of rearing crops, preference for local varities, non judicious use of chemicals and insecticides, non-availability of improved breeds of livestocks, lack of knowledge/ awareness in rearing farm animals, lack of infrastructure and facilities, poor farm managements skills.	Introduction of HYV's of paddy's, Introduction of Diseases and Pests resistant varieties of different crops, adoption of IPM Modules, adoption of INM measures, farm mechanization, breed up gradation, improvement of storage system, soil map of Villages for farmers guide.
2.	N/A	Jakhama(12 Village) Area-21700 ha.	Kigwema, Viswema, Phesema, Pfuchama, Khuzama, Jakhama village, Mima, Mithielephe, Kezoma, Kezo basa, Kidima,Sachabama.	Paddy(TRC/Jhum), Maize, Soybean, Pea, Ricebean, Cowpea, Arhar, Castor,Rapeseed, Mustard, Groundnut, Linseed, Sunflower, Potato, Tomato, Chilli, Ginger,Turmeric, livestock farming, fishery, chow-chow, colocasia,Pumkin, Banana, Passion fruit, Pear, Guava, Peach, Plum etc.	Lack of scientific Method of rearing field crops, lack of adequate irrigation and drainage facilities in the fields, lack of inputs and financial constraints, preference for local varieties and conventional methods of farming, lack of improved seeds, lack of knowledge and rearing farm animals, no farm management skills	Adoption of improved methods of farming, introduction of HYVs diseases and pests resistant varieties of different crops, use of bio-pesticides, promotion of IPM, introduction to farm Mechanization, to increase the productivity of fish and other farm animals.

3.	N/A	Chiephobn ozou (28 villages) Areas- 50500 ha.	Chiechama,Nerhema, Nachama, Nerhema Model village, Phezha, Zhadima, Touphema,Botsa, Gariphema Basa, Pherkerkrie, Rasoliezhie, Gariphema Bawe, Tsiemekhu basa, Tsiemekhu bawe, Seiyhama, Seiyha Phesa, Teichuma, Ziezou, Tsiese Basa, Tsiese bawe, Meriema, Dihoma, Kejumetouma Basa, Kejumetouma bawe, Rusoma, Thizama.	Paddy(TRC/Jhum), Maize, Sorghum, Gram, Pea, Arhar, Cowpea, Soybean, Ricebean, Beans, Vegetables, Potato, tomato, chilli, Ginger, Turmeric, Jobstear, Colocasia, Pumkin, Cucumber, Passion fruit, Pear, Peach, Guava, Livestock, farming, Piggery, fishery etc.	Lack of Knowledge on Improved methods of farming, poor irrigation and drainage system, preference of local varieties, preference of chemical over biological controls agents, lack of extension service.	Introduction of HYVs of crops, adoption of IPM Modules of different crops, farm Mechanization, capacity building for field functionaries introduction to improved methods of raising field crops, breed up gradations of livestock's, exposure visits to promote hygienic living for farmers.
4.	N/A	Tseminyu (35 Villages) Area- 56400 ha.	Nsunyu, Tesophenyu, Zisenyu, Chunlikha, Ziphenyu, phensenyu, Nsonyi, Kontsunyu, Tseminyu, Rumosinyu, Sedenyu, Kashanyu, Lugwesinyu, Terogunyu, Phenwhenyu, Zesunyu, Tsongsa, Ehunu, Terogvunyu, Kashanishi,	Paddy(TRC/Jhum),Maize, Sesamum, Groundnut, Soybean, Pea, Potato, tomato, chilli, Ginger, Turmeric, Colocasia, Pumkin, Cucumber, Passion fruit, Banana, Sericulture etc.	Lack of certified seeds and planting materials, lack of scientific knowledge in raising field crops, inadequate irrigation and drainage facilities in the field, preference of local varieties, lack of extension service in the grass-root level, lack of inputs and resources, financial constraints, lack of basic infrastructure for rearing livestock, no knowledge in farm management.	Productivity improvement by overcoming technology gap, introduction of resistant/ tolerant varieties of various crops, farm mechanization, adoption of IPM Modules of different crops, improving the existing storage systems, introduction to post harvest technology, breed up gradation of indigenous farm animals, exposure trips to advance areas.

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	6	3	2	1	50	20
Horticulture	2	2	8	8	2	2	30	35
Plant of protection	2	1	9	4	2	1	20	10
Genetic Plant Breeding	4	4	8	8	2	2	15	15
Soil Science	02	02	06	06	2	2	14	14
Animal Science	2	2	10	10	2	2	30	30
Total	**14**	**12**	**47**	**47**	**12**	**10**	**159**	**124**

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit

	Number of Courses		Number of Participants		Extension Activities			
					Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy								
Farmers	8	3	80	50				
Rural youth	2	1	40	20				
Extn. Functionaries	2	-	40	-				
Horticulture								
Farmers	9	12	140	259				
Rural youth	2	2	40	35				
Extn. Functionaries	2	0	40	Due to maternity leave the target could not be achieved.				
Plant protection								

Farmers					163	174	1199	2315
Rural youth								
Extn. Functionaries								
Genetics& Plant Breeding								
Farmers	11	19	260	365				
Rural youth	3	3	55	35				
Extn. Functionaries	3	2	54	34				
Soil Science								
Farmers	7	9+2	154	215				
Rural youth	2	1	50	20				
Extn. Functionaries	2	-	45	-				
Animal Science								
Farmers	10	15	150	260				
Rural youth	2	2	30	30				
Extn. Functionaries	1	2	20	30				
Seed Production (ton.)			Planting material (Nos. in lakh)					

Note: Target set during last Annual Zonal Workshop

2. 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	To promote duck rearing under backyard system	Poultry	Non availability of meat type duck	Performance of White pekin duck under backyard system	-	Poultry production	-	Field inspection & supervision, advisory service etc	White pekin duckling 150 numbers
2	To reduce preweaning mortality in piglets	Pig	Pre-weaning mortality due to cold weather	Effect of creep area on pre-weaning mortality & weaning body weight of piglets	-	Pig production	-	Field inspection & supervision, advisory service etc	Bedding material viz rice bran, light bulb.
3	To improve growth performance	Pig	Non supplementation of mineral in pig ration	-	Demonstration of mineral AAUVETMIN supplementation & deworming in pig	Importance of deworming & mineral supplementation in pig	-	Field inspection & supervision, advisory service etc	72 kg of AAUVETMIN mineral

4	To promote improve breed of poultry	Poultry	-	-	Popularization of Vanaraja bird under backyard system	Poultry production	-	Field inspection & supervision, advisory service etc	500 numbers of chicks to 20 farmers
5	Varietal evaluation	Okra	Lack of suitable variety for the district which can ensure higher productivity	Assessment on performance of Okra varieties under Kohima District	-	1.Nutritional gardening for sustainable livelihood. 2. Production technology of Okra & Radish	-	Field inspection, Advisory service, Method demonstrationa nd Supervision	Material inputs like seeds and other bio-inputs for OFT programme were supplied to the farmers
6	Varietal evaluation	Radish	Improper selection of varieties according to climatic conditions of the area and lack of production during offseason	Assessment of Radish varieties for better quality and yield under Kohima District	-	1.Production technology of Summer Vegetables. 2. Production technology of Okra & Radish	-	Field inspection, Advisory service, Method demonstration and Supervision	Material inputs like seeds and other bio-inputs for OFT programme were supplied to the farmers
7	Production Technology	Carrot	Non-use of organic source of nutrients which decreases the marketable quality of the produce	-	Popularization of Carrot variety Pusa Rudhira	1.Organic Cultivation of root crops (Carrot & Radish)	-	Field inspection,Advisory service,Method demonstration and Supervision	Material inputs like seeds and other bio-inputs for FLD programme were supplied to the farmers
8	Value Addition	Fruits & Vegetables	Huge post-harvest losses due to non-utilization of underutilized fruits & vegetables as value added product	-	Popularization of underutilized fruits and vegetables as value added products	1.Value addition of Underutilized fruits & Vegetables.	-	Advisory service, Method demonstration, follow up programmes and Supervision	Material inputs like packaging materials, bottles, weighing balance and sealers were distributed to the SHG groups
9	Varietal evaluation	Maize	**low Nutri rich existing variety**	**Assessment of Bio fortified Maize**	-	Production technology on maize	-	Field inspection, Advisory service, Method demonstration on line sowing and Supervision	Material inputs like seeds and other necessary inputs for OFT programme were supplied to the farmers

10	Varietal evaluation	Potato	Improper selection of varieties for high productivity	**Assessment of high yielding potato varieties**	-	1. Production technology of potato. 2. seed production and management 3.post –harvest management of potato	-	Field inspection, Advisory service, Method demonstration and Supervision	Material inputs like seeds and were supplied to the farmers
11	Varietal evaluation	Soybean	Non use of high yielding varieties for more productivity	-	**Popularization of high yielding soya bean varieties for adoptation**	Production technology on soybean	-	Field inspection, Advisory service, Method demonstration on line sowing with proper spacing and Supervision	Material inputs like were supplied to the farmers
12	Seed production	Field pea	Non use of high yielding varieties for more productivity	-	**Performance of high yielding Field Pea varieties for adoptation**	Production technology on pea and post harvest management	-	Advisory service, Method demonstration, and Supervision	Material inputs like were supplied to the farmers
13	Disease management	Potato	Low yield due to late blight disease in Potatoes	Management of late blight in potato	Storage of planting materials for effective management of rhizome rot of ginger	Disease management in ginger	-	Field visit, advisory service, method demonstration and supervision	Material inputs like seeds and bio-inputs were supplied to the farmers
14	Water management	Paddy	Unproductive indigenous system of cultivation	Modified System of Rice Intensification for higher productivity	-	-	-	Method demonstration and field day	Conoweeder

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	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-

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

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

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

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

Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

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

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

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

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

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

5. Results of On Farm Testing (OFT)

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B:C Ratio (if applicable)
1	Performance of White pekin duck under backyard system	Non availability of meat type duck	White Pekin duck (Vigova M.Super)	Poultry	7	**Technology (Body weight Kg)** 1. 1st month : 0.815 2. 2nd month: 1.632 3. 3th month : 2.50 4. Mortality (%) : Nil 5. Net Return (Rs.): 9600.00l **Farmers practice(Body weight Kg)** 1.1st month : 0.267 2.2nd month: 0.524 3.3th month : 0.787 4.Mortality (%) : Nil 5.Net Return (Rs.): 2809.00	Satisfied with the technology as it perform well under field condition	More testing has to be done in different location within the district for final recommendation	2.56 2.0
2	Effect of creep area on pre-weaning mortality and weaning boddy weight of piglets	Pre-weanin mortality due to cold weather	Creep area with heat source	Pig	3	**Technology** 1. Litter size at birth(nos):10 2. Litter size at weaning(nos): 10 3. Pre-weaning mortality(%):Nil 4. Litter weight at 1month (kg):5.50 5.Litter weight at 2month(kg):8.70 6.Net Return (Rs.): 30150.00 **Farmers practice** 1. Litter size at birth(nos):10 2. Litter size at weaning(nos): 7.6 3. Pre-weaning mortality(%):23.33 4. Litter weight at 1month (kg):5.38 5.Litter weight at 2month(kg):8.50 6.Net Return (Rs.): 20,700.00	Very satisfied with the technology as it reduces pre-weaning mortality	Can go for demonstration	6.1 4.5

3	Assessment on performance of Okra varieties under Kohima District	Lack of suitable variety for the district which can ensure higher productivity	TO1: Kashi Lalima TO2: Pusa-5 TO3: Arka Anamika (Check var.)	Monocropping	2	Technology Assessed: TO1: Kashi Lalima TO2: Pusa-5 Av. Yield : 66 q/ha (Kashi Lalima) Av. Yield : 62 q/ha (Pusa-5) Production Conditions: Sowing time- June' 2022 Harvesting –Aug' 2022 Seed rate: 10 kg/ha Seed treatment: Azotobacter and PSB @7.5 gm each per 100 gm seeds Enriched compost @ 5t/Ha Spacing: 30 cm x 45 cm Net Return (Rs.): 1,68,000 B:C Ratio: 1:6.6 Farmers practice: 1. TO3: Arka Anamika (Check var.): 52 q/ha 2.Net Return (Rs.): 1,26,000 3.B:C Ratio: 1:5.2	Satisfied with the technology as it performed well under all the locations under study	More testing needs to be done in different locations within the district for final recommendation	TO1=1:6.6 TO2=1:6.2 TO3=1:5.2
4	Assessment of Radish varieties for better quality and yield under Kohima District	Improper selection of varieties according to climatic conditions of the area and lack of production during offseason	TO1- Chinese Pink TO2-Kashi Lohit TO3-Japanese White (Farmers practice)	Monocropping	2	Technology Assessed: TO1- Chinese Pink TO2-Kashi Lohit Technology details: Chinese Pink: The skin is shining red, and the flash is white, crisp, solid and mild pungent. The roots are 30-40 cm long with semi-blunt end. It is a good cultivar for hills TO1 Av. Yield : 120 q/ha Kashi Lohit: Attractive red colour roots, suitable for salad dressing, excellent source of anti-oxidants and a higher yielder compared to white radish variety TO2 Av. yield: 160 q/ha Spacing: 10 cm x 30 cm Production Conditions: Sowing time- May 2022 Harvesting –July 2022 Seed rate: 10 kg/ha Net Return (Rs.): TO1=4,10,000, TO2=5,70,000 B:C Ratio: TO1=1: 6.8, TO2=1:9.1 Farmers practice: 1. TO3: Check var. Japanese White:100 q/ha 2. Net Return (Rs.): TO3=3,30,000, 3.B:C Ratio: TO3=1:5.7	*Farmers were able to earn higher income during Off –season cultivation plus there was lower pungency .	Can go for demonstration	TO1=1: 6.8, TO2=1:9.1 TO3=1:5.7

5	**Assessment of Bio fortified Maize**	**low Nutri rich existing variety**	**T1: Vivek QPM 9** **T2: HPQM-1-**	Monocropping	4	1.Yield: HPQM 1: **38.64g/ha** Vivek QPM 9**: 34.88qt/ha** 2.Net return : HPQM1: **Rs.74,600** Vivek QPM 9:**Rs.65,200/-** Farmers practice: Yield: **26.4qt/ha** Net return**: Rs. 47,200/-**	Satisfied with the technology as it performed well under all the locations under study	More testing needs to be done in different locations within the district for final recommendation	HPQM 1: **4.29** Vivek QPM 9: **3.87** Local:**2.51**
	Assessment of high yielding potato varieties	Improper selection of varieties for high productivity	**T1: Kufri Garima** **T2: Kufri Bahar** **T3: kufri jyoti(FP)**	Monocropping	3	**1. Plant height (cm) : Kufri Garima : 67** **Kufri Bahar :55.6** **kufri jyoti(FP): 51.50** **2.No.of tubers per hill: Kufri Garima :12** **Kufri Bahar :10.12** **kufri jyoti(FP): 9.8** **3.Yield/ha : Kufri Garima :220q/ha** **Kufri Bahar : 190q/ha** **kufri jyoti(FP): 175q/ha**	Farmers were satisfied with the newly introduced varieties as the yield and return was more.	Can go for demonstration for variety adoption	**Kufri Garima :4.43** **Kufri Bahar : 3.83** **kufri jyoti(FP): 2.85**
6	**Management of Acidic soil using Bio-char on Broccoli**	No management of acidic soil	Bio-char technology from locally available weed biomass for acid soil management.	Mono-cropping	3	**Technology** **Before harvest** Nitrogen- 314.85 Phosphorus-18.85 Potassium-301.46 **After harvest** Nitrogen-294.34 Phosphorus-15.75 Potassium-284.93 **Farmers Practices** **Before harvest** Nitrogen-302.15 Phosphorus-14.25 Potassium-295.22 **After harvest** Nitrogen-285.43 Phosphorus-12.67 Potassium-274.38	Farmers are satisfied with the technology as it performed well in all the locations under trial	Need more trials & required further assessment to be done in different locations within the district for final recommendation	**Technology:** 3.02 **Farmers Practices:** 2.66
7	**Performance of Organic Nutrient Management in**	Low productivity due to low	**T1**-Nutrient management:FYM@ 10t/ha+Rhizome	Mono-cropping	3	**Technology** **Before harvest**	Farmers are satisfied with the technology as it performed well	Need more trials & required	**Technology:** 2.6

	Turmeric	soil fertility & non applications of manures and fertilizers	treatment with bio-fertilizer Azosprillium@2.5kg /ha+Rhizome treatment with *Trichoderma harzianum* before storage and planting. **T2-**Farmers practices			Nitrogen- 318.48 Phosphorus-22.68 Potassium-309.42 **After harvest** Nitrogen-291.63 Phosphorus-17.48 Potassium- 285.55 **Farmers Practices** **Before harvest** Nitrogen-303 Phosphorus-19.38 Potassium-295.65 **After harvest** Nitrogen-287.17 Phosphorus-15.27 Potassium-267.48	in all the locations under trial	further assessment to be done in different locations within the district for final recommendation	**Farmers Practices:** 2.15
8	**Modified System of Rice Intensification for higher productivity**	Unproductive indigenous system of cultivation	Demonstration on modified system rice intensification for higher productivity **T1:- RC Maniphou-14** **T2:RC Maniphou -15** **T3:.RC Maniphou -16** **Farmers practice:.paddy(Nagal and special)** Weed management: cono-weeder and hand weeding.	Paddy	3	**Technology** 1. Yield/ha.: **RC Maniphou-14- 36.45 q/ha** **RC Maniphou -15- 32.33 q/ha** **RC Maniphou -16- 30.45 q/ha** **Farmers practice** Yield/ha.: **22.35** q/ha	Farmers are satisfied with the technology	Need further assessment	**RC Maniphou-3.01** **RC Maniphou -3.10** **RC Maniphou -2.9** **Farmers practice** 1.56

9	**Management of Late Blight in Potato**	Low yield due to disease infection	1. Treatment of seed tubers using *Trichoderma viride*@ 5g/kg seed. 2. Prophalytic spray at 45 days after sowing followed by 2 sprays at 15 days interval during the vegetative stage @ 5g/L water.	Potato	2	Technology: Pest infestation-23% Disease infection-21% Yield-109q/ha Farmers practice: Pest infestation-29% Disease infection-41% Yield-75q/ha	Farmers were satisfied with the technology	The technology performed better and it can be taken up for FLD	**2.86** **2**

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

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

3.2 Achievements of Frontline Demonstrations during 2022

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

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

Sl. No	Crop and Variety/Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Carrot	Popularization of Carrot variety Pusa Rudhira	2	10	1
2	Fruits & Vegetables	Popularization of underutilized fruits and vegetables as value added products	2	25	2 SHGs
3	Soyabean	Popularization of high yielding soya bean varieties for adoptation	3	20	2.5
4	Pea	Performance of high yielding Field Pea varieties for adaptation	4	20	2.5ha
5	Vermi-composting	Popularization of low cost vermi-composting Technology	3	10	10 unit
6	French Beans	Integrated Nutrient Management in French Beans	4	04	1.5ha
7	Ginger	Storage of planting materials for effective management of rhizome rot of ginger	2	10	2 units

** 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)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1	Carrot	Production Technology	Popularization of Carrot variety Pusa Rudhira	Rabi season	1(2 locations)	1 (2locations)	10	-	10	-	Rainfed/ Irrigated	-	-	-
2	Fruits & Vegetables	Value Addition	Popularization of underutilized fruits and vegetables as value added products	Rabi season	1 (2 SHGs)	1 (2 SHGs)	25	--	25	-	-	-	-	-
3	Soya bean	Varietal evaluation	**JS 97-52:** Maturity: 98-102 day Yield potential:25-30 qt/ha It is a wide adaptable culture with excellent germ inability, field emergence and longevity during storage. It is also tolerant to excessive moisture stress condititions.	Kharif	2.5	2.5	10	-	10	-	Rainfed/ Irrigated	-	-	-
4	Ginger	Disease management	1.Pit of 1 x 2 m^2 under shade 2.Spread a 5 cm uniform layer of sand at the bottom of pit 3.Treat the ginger planting materials with *Trichoderma* 5 g/lt of water for 30 min and store it for 4 months.	Rabi season	1 (2 locations)	1 (2 locations)	10	-	10		-	-	-	-

5	Field pea	Seed production	**VL Matar-47 Aman (IPF 5-19)**	Rabi season	2.5	2.5	20	--	20	-	Rainfed	-	-	-
6	Vermi-composting	Soil Management	Low cost vermicompost unit fabricated using high quality polyethylene sheet supported with a bamboo structure with 2.5 m (L) × 0.92 m (B)× 0.92 m (H) .The vermi-composting unit should be filled with partially decomposed waste material and cow-dung in 60: 40 ratio followed by subsequent release of 750 gm earthworms. A drain surrounding the vermi-composting unit needs to be laid out and kept filled with water as a preventive measure against attack of ants. A temporary shed made of bamboo and Toku palm leaf / Thatch grass has to be provided for protection of units from adverse climatic condition.	Round the ye	10 unit	10 unit	10	-	10	-	Rainfed/ Irrigated	1.5 9%	2.2 %	1. 82 %

7	Vermi-composting	Soil Management	Low cost vermicompost unit fabricated using high quality polyethylene sheet supported with a bamboo structure with 2.5 m (L) × 0.92 m (B)× 0.92 m (H) .The vermi-composting unit should be filled with partially decomposed waste material and cow-dung in 60: 40 ratio followed by subsequent release of 750 gm earthworms. A drain surrounding the vermi-composting unit needs to be laid out and kept filled with water as a preventive measure against attack of ants. A temporary shed made of bamboo and Toku palm leaf / Thatch grass has to be provided for protection of units from adverse climatic condition.	Round the y	10 unit	10 unit	10	-	10	-	Rainfed/ Irrigated	1.59%	2.2 %	1.82 %

8	French Beans	INM	T1- Bio-fertilizer (Azetobacter + PSB)@ 2kg/ha + vermi-compost 1t/ha incubated for 15 days and NPK @ 60:30:30 kg/ha mixture applied in circle as band placement at 10 and 30 days after sowing	Rabi season	1.5	1.5	04	--	04	-	Rainfed	30 1.4 5	19. 27	29 8. 58
9	Soyabean	Seed production	VL-77	Kharif	5	5	10	-	10	-	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.	Carrot	Production Technology	1 (2 locations)	115	100	13.04	130	80	-	-	60,000	5,75,000	5,15,000	1:9	50,000	3,00,000	2,50,000	1:6
2	Fruits & Vegetables	Value Addition	1 (2 SHGs)	1.Average quantity of produce per kg = 1150 g/kg 2.Organoleptic test : (As per 9 point hedonic scale) Colour =7.88, Flovour-8.25, Texture-8.38, Overall acceptability-8.50 3.Shelf life= Upto 3	1.Average quantity of produce per kg = 750 g/kg 2.Overall acceptability :6.0 3.Shelf life= 2-3 weeks	34.78	1.Average quantity of produce per kg = 1200 g/kg 2.Overall acceptability:8.75 3.Shelf life= 3 to 6 Months	1.Average quantity of produce per kg = 800 g/kg 2.Overall acceptability : 8.00 3.Shelf life= 3 to 6 months	-	-	400	2400	2000	1:6	400	1200	800	1:3

				months (Chips and candies) and 6 months (Pickles & Squash)														
3	Soyabean	Varietal evaluation		**10.49**	**8.90**	**17.86 %**	**11.41**	**9.56**	-	-	**14600**	**41960**	**27360**	**2.26**	**12,910**	**31150**	**18240**	**1.93**
4	Pea	Seed production		**VL Matar-47**	**14.80**	**16.55**	**18.10**	**16.40**	-	-	**19500**	**69,000**	**49500**	**3.53**	**13,450**	**27500**	**14,050**	**2.04**
5	Vermi-composting	Soil Management	10 units	18 kg/cubic meter	-	-	-	-	Nitrogen-1.59% Phosphorus -2.2% Potassium-1.82% Duration-65 Days	-	13000	24500	11500	1.88	-	-	-	-
6	French Beans	INM	1.5	47.5	38	18.95	60	35	-	-	30000	57000	27000	1.9	23000	35500	12500	1.54
7	Ginger	Disease management	2 units	97.1	93.4	9%	106.6	87.5	-	-	45,600/-	84,400/-	38,800/-	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	Farmers Training	5	26th, 27th& 28th April 2022,30th&31st May2022, 30th July. 2022, 8th& 9th Aug 2022, 26th Aug 2022, 1st& 2nd Sept. 2022, 5th Aug 2022, 12th July. 2022, 13th July. 2022, 11th to 18th Aug 2022, 6th Sept.2022, 02/07/22	-	310	310	
2	Diagnostic visits	2	5th July 2022&6th July 2022	-	5	5	
3	Awareness campaign	5	30thMay 2022, 31st May 2022, 4th June 2022, 30th June 2022, 13th July 2022	-	75	75	
4.	Method demonstration	20	4th June 2022, 30th June 2022, 12th July 2022, 13th July 2022, 30th July. 2022, 8th& 9th Aug 2022, 11th to 18thAug	-	169	169	

			2022, 1st& 2nd Sept. 2022, 5th Sept. '22				
5	Extension folders	5	8th& 9th Aug 2022, 11th to 18th Aug 2022, 1st& 2nd& 5th Sept. 2022	-	100	100	
6.	Newspaper coverage	2	7thJune to 19th Aug. 2022	-	-	-	
7	Lecture delivered as resource person	2	27th& 28th April 2022	-	34	34	
8	Farmer-Scientist interaction	2	26th April 2022&30th July. 2022	-	10	10	
9	Field visits	7	24TH June'22, 25TH June'22, 5th July 2022, 6th July 2022, 30th July 2022, 29th Aug. 2022, 30th Aug. 2022	-	31	31	
10.	Celebration of important events/day	6		-	140	140	
11	Advisory Service	17	26th, 27th& 28th July. '22, 25th& 26th Aug. '22, 5th& 6th Sept. '22	-	125	125	
12	Technical Advisory bulletin developed/ **Success Stories**						
13	Capacity building programme	1	25th Aug. 2022	-	KVK Scientist and Horticulture Officers from NE Region	KVK Scientist and Horticulture Officers from NE Region	Online Webinar
14.	Group discussion/ Webinar programme & Zoom Meeting	1	12th& 13thJuly. 2022	-	15	15	
15.	Field Day						
16.	Farmers visit to KVK						

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	Pig	Health Care	AAUVETMIN minral@ 20g/pig/dayx6 monthsAnthelmintic i.e fenbendazole @ 10mg/kgbwt after weaninig at the interval of 3months	10	10	20	Body weight gain (kg) 2th mth:9.0 4th mth: 27.246th mth:40.68 Disease Incidence (%): Nil B.C Ratio: 2.14	2th mth :9.25 4th mth :18.40 6th mth: 27.36 Disease Incidence (%): Nil B.C Ratio: 1.6	48.68	-	-	9100.00	19,524.00	10,424.00	2.14	80000	13,128.00	5128.00	1.6	Obtained higher body weight gain in mineral supplement & deworming pig
2	Poultry	Breed introduction	Vanaraja	20	20	500	4th wk:750g 8th wk: 1300g 12th wk:2300g Mortality rate(%): 2.68 Disease Incidence (%): Nil B.C Ratio: 2.62	4th wk:207g 8th wk :398g 12th wk: 603g Mortality (%):2 Disease Incidence (%): Nil B.C Ratio: 1.76	281.42	-	-	4180.00	10,988.00	6808.00	2.62	15000	2880.00	1380.00	1.76	The technology can be taken up for large scale demonstration

(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 etc.	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
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.

(v) Farm Implements and Machinery

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

f. Performance of FLD on Crop Hybrids

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

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

*** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio*
Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

3.3. Achievements on Training during 2022

**(Attached in Excel format)

TRAINING PROGRAMMES **KVK : Kohima**

a) Farmers' Training including sponsored training programmes (ON Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems	2			0	7	36	43	7	36	43
Crop Diversification	1	0	0	0	7	6	13	7	6	13
Integrated Farming				0			0	0	0	0
Micro irrigation/irrigation				0			0	0	0	0
Seed production	3			0	26	34	60	26	34	60
Nursery management	1			0	6	7	13	6	7	13
Integrated Crop Management				0			0	0	0	0
Soil & water conservation				0			0	0	0	0
Integrated nutrient Management				0			0	0	0	0
Production of organic inputs	2			0	8	11	19	8	11	19
Others				0			0	0	0	0
Total	**9**	**0**	**0**	**0**	**54**	**94**	**148**	**54**	**94**	**148**
Horticulture										
a) Vegetable Crops										
Production of low volume and high value				0			0	0	0	0
Off0season vegetables				0			0	0	0	0
Nursery raising	2	0	0	0	1	14	15	1	14	15
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others				0			0	0	0	0
Total (a)	**2**	**0**	**0**	**0**	**1**	**14**	**15**	**1**	**14**	**15**
b) Fruits										
Training and Pruning				0			0	0	0	0

Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others				0			0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
c) Ornamental Plants										
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others				0			0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition	2	0	0	0	1	14	15	1	14	15
Others				0			0	0	0	0
Total (f)	**2**	**0**	**0**	**0**	**1**	**14**	**15**	**1**	**14**	**15**
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total(a0g)	**4**	**0**	**0**	**0**	**2**	**28**	**30**	**2**	**28**	**30**

Soil Health and Fertility Management										
Soil fertility management	2			0	18	12	30	18	12	30
Integrated water management				0			0	0	0	0
Integrated Nutrient Management	2			0	13	17	30	13	17	30
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Balance Use of fertilizer				0			0	0	0	0
Soil & water testing				0			0	0	0	0
others				0			0	0	0	0
Total	**4**	**0**	**0**	**0**	**31**	**29**	**60**	**31**	**29**	**60**
Livestock Production and Management										
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed & fodder technologies				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Home Science/Women empowerment										
Household food security by kitchen				0			0	0	0	0
Design and development of low/minimum				0			0	0	0	0
Designing and development for high				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing & cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Women empowerment				0			0	0	0	0
Location specific drudgery reduction				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Agril. Engineering										
Farm machinery & its maintenance				0			0	0	0	0
Installation and maintenance of micro				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Plant Protection										
Integrated Pest Management				0			0	0	0	0
Integrated Disease Management				0			0	0	0	0
Bio0control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Production of Input at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio0agents production				0			0	0	0	0
Bio0pesticides production				0			0	0	0	0
Bio0fertilizer production				0			0	0	0	0
Vermi0compost production				0			0	0	0	0

Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Capacity Building and Group Dynamics										
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Agro forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**17**	**0**	**0**	**0**	**87**	**151**	**238**	**87**	**151**	**238**

b) Training for Rural Youths including sponsored training programmes (ON Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Integrated farming				0			0	0	0	0

Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi0culture				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Bee0keeping				0			0	0	0	0
Sericulture				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Value addition	10			0	0	15	15	0	15	15
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production	2			0	12	18	30	12	18	30
Ornamental fisheries				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
other				0			0	0	0	0
Total	**12**	**0**	**0**	**0**	**12**	**33**	**45**	**12**	**33**	**45**

c) Training programmes for Extension Personnel including sponsored training programmes (ON Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0

Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Other				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

d) Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops				0			0	0	0	0
Commercial production of vegetables				0			0	0	0	0
Production and value addition				0			0	0	0	0
Fruit Plants				0			0	0	0	0
Ornamental plants				0			0	0	0	0
Spices crops				0			0	0	0	0
Soil health and fertility management				0			0	0	0	0
Production of Inputs at site				0			0	0	0	0
Methods of protective cultivation				0			0	0	0	0
Other				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition										
Processing and value addition				0			0	0	0	0
Other				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Farm machinery										

Farm machinery, tools and implements				0			0	0	0	0
Other				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Livestock and fisheries										
Livestock production and management	3			0	14	106	120	14	106	120
Animal Nutrition Management				0			0	0	0	0
Animal Disease Management	1			0	5	40	45	5	40	45
Fisheries Nutrition				0			0	0	0	0
Fisheries Management				0			0	0	0	0
Other/IFS	1			0	27	22	49	27	22	49
Total	5	0	0	0	46	168	214	46	168	214
Home Science										
Household nutritional security				0			0	0	0	0
Economic empowerment of women				0			0	0	0	0
Drudgery reduction of women				0			0	0	0	0
Other				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Agricultural Extension										
Capacity Building and Group Dynamics				0			0	0	0	0
Other				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**5**	**0**	**0**	**0**	**46**	**168**	**214**	**46**	**168**	**214**

e) Details of vocational training programmes carried out by KVKs for rural youth

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Commercial vegetable production				0			0	0	0	0
Integrated crop management				0			0	0	0	0
Organic farming				0			0	0	0	0
Other				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition										

Value addition	10	0	0	0	0	15	15	0	15	15
Other				0			0	0	0	0
Total	10	0	0	0	0	15	15	0	15	15
Livestock and fisheries										
Dairy farming				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Piggery				0			0	0	0	0
Poultry farming				0			0	0	0	0
Other				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Income generation activities										
VermiComposting				0			0	0	0	0
Production of bio0agents, bio0pesticides,				0			0	0	0	0
bio0fertilizers etc.				0			0	0	0	0
Repair and maintenance of farm machinery &				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Seed production				0			0	0	0	0
Sericulture				0			0	0	0	0
Mushroom cultivation				0			0	0	0	0
Nursery, grafting etc.				0			0	0	0	0
Tailoring, stitching, embroidery, dying etc.				0			0	0	0	0
Agril. para0workers, para0vet training				0			0	0	0	0
Other				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Agricultural Extension										
Capacity building and group dynamics				0			0	0	0	0
Other				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	**10**	**0**	**0**	**0**	**0**	**15**	**15**	**0**	**15**	**15**

a) Farmers' Training including sponsored training programmes (OFF Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	1			0	8	6	14	8	6	14
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems	1			0	6	6	12	6	6	12
Crop Diversification	1			0	8	9	17	8	9	17
Integrated Farming				0			0	0	0	0
Micro irrigation/irrigation				0			0	0	0	0
Seed production	3			0	26	34	60	26	34	60
Nursery management				0			0	0	0	0
Integrated Crop Management				0			0	0	0	0
Soil & water conservation				0			0	0	0	0
Integrated nutrient Management				0			0	0	0	0
Production of organic inputs	1			0	7	8	15	7	8	15
Others				0			0	0	0	0
Total	**7**	**0**	**0**	**0**	**55**	**63**	**118**	**55**	**63**	**118**
Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	2	0	0	0	4	6	10	4	6	10
Off0season vegetables				0			0	0	0	0
Nursery raising	2	0	0	0	44	40	84	44	40	84
Exotic vegetables	2			0	20	50	70	20	50	70
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others	3			0	0	35	35	0	35	35
Total (a)	**9**	**0**	**0**	**0**	**68**	**131**	**199**	**68**	**131**	**199**
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0

Others				0			0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
c) Ornamental Plants										
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others				0			0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology			0	0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition	3			0	0	30	30	0	30	30
Others				0			0	0	0	0
Total (f)	**3**	**0**	**0**	**0**	**0**	**30**	**30**	**0**	**30**	**30**
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total(a0g)	**12**	**0**	**0**	**0**	**68**	**161**	**229**	**68**	**161**	**229**
Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Integrated water management	1			0	7	8	15	7	8	15
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs	1			0	6	9	15	6	9	15
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0

Balance Use of fertilizer				0			0	0	0	0
Soil & water testing				0			0	0	0	0
others	1			0	4	11	15	4	11	15
Total	**3**	**0**	**0**	**0**	**17**	**28**	**45**	**17**	**28**	**45**
Livestock Production and Management										
Dairy Management				0			0	0	0	0
Poultry Management	4(6)			0	25	77	102	25	77	102
Piggery Management	7(16)			0	36	181	217	36	181	217
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management /Health Care	1			0	12	32	44	12	32	44
Feed & fodder technologies				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Others/IFS	2(4)			0	29	37	66	29	37	66
Total	**1**	**0**	**0**	**0**	**102**	**327**	**429**	**102**	**327**	**429**
Home Science/Women empowerment										
Household food security by kitchen gardening and				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing & cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Agril. Engineering										
Farm machinery & its maintenance				0			0	0	0	0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0

Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Plant Protection										
Integrated Pest Management	1	0	0	0	5	16	21	5	16	21
Integrated Disease Management	2	0	0	0	20	20	40	20	20	40
Bio0control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
Others				0			0	0	0	0
Total	**3**	**0**	**0**	**0**	**25**	**36**	**61**	**25**	**36**	**61**
Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Production of Input at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio0agents production				0			0	0	0	0
Bio0pesticides production				0			0	0	0	0
Bio0fertilizer production				0			0	0	0	0
Vermi0compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee0colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0

Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Capacity Building and Group Dynamics										
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Agro forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**26**	**0**	**0**	**0**	**267**	**615**	**882**	**267**	**615**	**882**

b) Training for Rural Youths including sponsored training programmes (OFF Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production	5	0	0	0	0	20	20	0	20	20
Integrated farming	1					15	15	0	15	15
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermiculture				0			0	0	0	0
Mushroom Production				0			0	0	0	0

Bee0keeping				0			0	0	0	0
Sericulture				0			0	0	0	0
Repair and maintenance of farm machinery and				0			0	0	0	0
Value addition	10			0	0	15	15	0	15	15
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Other				0			0	0	0	0
Total	**16**	**0**	**0**	**0**	**0**	**50**	**50**	**0**	**50**	**50**

c) Training programmes for Extension Personnel including sponsored training programmes (OFF Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Production and use of organic inputs	2	0	0	0	9	28	37	9	28	37

Care and maintenance of farm machinery and implements				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Management in farm animals	2	0	0	0	6	28	34	6	28	34
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Other				0			0	0	0	0
Total	**4**	**0**	**0**	**0**	**15**	**56**	**71**	**15**	**56**	**71**

a) Farmers' Training including sponsored training programmes (ON+OFF Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	1	0	0	0	8	6	14	8	6	14
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	3	0	0	0	13	42	55	13	42	55
Crop Diversification	2	0	0	0	15	15	30	15	15	30
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Micro irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	6	0	0	0	52	68	120	52	68	120
Nursery management	1	0	0	0	6	7	13	6	7	13
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0
Soil & water conservation	0	0	0	0	0	0	0	0	0	0
Integrated nutrient Management	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	3	0	0	0	15	19	34	15	19	34
Others										
Total	**16**	**0**	**0**	**0**	**109**	**157**	**266**	**109**	**157**	**266**

Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	2	0	0	0	4	6	10	4	6	10
Off0season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	4	0	0	0	45	54	99	45	54	99
Exotic vegetables	2	0	0	0	20	50	70	20	50	70
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation	0	0	0	0	0	0	0	0	0	0
Others	3	0	0	0	0	35	35	0	35	35
Total (a)	**11**	**0**	**0**	**0**	**69**	**145**	**214**	**69**	**145**	**214**
b) Fruits										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others	0	0	0							
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
c) Ornamental Plants										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others										
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others										
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										

Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	5	0	0	0	1	44	45	1	44	45
Others	0	0	0	0	0	0	0	0	0	0
Total (f)	**5**	**0**	**0**	**0**	**1**	**44**	**45**	**1**	**44**	**45**
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total(a0g)	**16**	**0**	**0**	**0**	**70**	**189**	**259**	**70**	**189**	**259**
Soil Health and Fertility Management										
Soil fertility management	2	0	0	0	18	12	30	18	12	30
Integrated water management	1	0	0	0	7	8	15	7	8	15
Integrated Nutrient Management	2	0	0	0	13	17	30	13	17	30
Production and use of organic inputs	1	0	0	0	6	9	15	6	9	15
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Balance Use of fertilizer	0	0	0	0	0	0	0	0	0	0
Soil & water testing	0	0	0	0	0	0	0	0	0	0
others	1	0	0	0	4	11	15	4	11	15
Total	**7**	**0**	**0**	**0**	**48**	**57**	**105**	**48**	**57**	**105**
Livestock Production and Management										
Dairy Management	0	0	0	0	0	0	0	0	0	0
Poultry Management	4(6)	0	0	0	25	77	102	25	77	102
Piggery Management	7(16)	0	0	0	36	181	217	36	181	217
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Disease Management / Health care	1	0	0	0	12	32	44	12	32	44

Feed & fodder technologies	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Others/ IFS	2(4)	0	0	0	29	37	66	29	37	66
Total	**1**	**0**	**0**	**0**	**102**	**327**	**429**	**102**	**327**	**429**
Home Science/Women empowerment										
Household food security by kitchen gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing & cooking	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Women empowerment	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Agril. Engineering	0	0	0	0	0	0	0	0	0	0
Farm machinery & its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Plant Protection										
Integrated Pest Management	1	0	0	0	5	16	21	5	16	21
Integrated Disease Management	2	0	0	0	20	20	40	20	20	40
Bio0control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	**3**	**0**	**0**	**0**	**25**	**36**	**61**	**25**	**36**	**61**

Fisheries										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Production of Input at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio0agents production	0	0	0	0	0	0	0	0	0	0
Bio0pesticides production	0	0	0	0	0	0	0	0	0	0
Bio0fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi0compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee0colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Capacity Building and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0

WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Agro forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**43**	**0**	**0**	**0**	**354**	**766**	**1120**	**354**	**766**	**1120**

b) Training for Rural Youths including sponsored training programmes (ON + OFF Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	**5**	**0**	**0**	**0**	**0**	**20**	**20**	**0**	**20**	**20**
Integrated farming	1	0	0	0	0	15	15	0	15	15
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi0culture	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee0keeping	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and	0	0	0	0	0	0	0	0	0	0
Value addition	**20**	**0**	**0**	**0**	**0**	**30**	**30**	**0**	**30**	**30**
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0

Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	**2**	**0**	**0**	**0**	**12**	**18**	**30**	**12**	**18**	**30**
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	**28**	**0**	**0**	**0**	**12**	**83**	**95**	**12**	**83**	**95**

c) Training programmes for Extension Personnel including sponsored training programmes (ON+OFF Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	2	0	0	0	9	28	37	9	28	37
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Management in farm animals	2	0	0	0	6	28	34	6	28	34
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	**4**	**0**	**0**	**0**	**15**	**56**	**71**	**15**	**56**	**71**

3.3.1. Farmers and Farm Women in On Campus including Sponsored On Campus Training Programmes(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog			Participants																		
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	Grand Total (x+y)
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production	-	1	1	-	-	-	-	-	-	-	15	-	-	-	15	-	15	-	-	-	15	15
Nursery management																						
Integrated Crop Management																						
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops																						

Off-season vegetables																						
Nursery raising																						
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Post-harvest Management & Value Addition	1	-	1	-	-	-	-	-	-	1	-	14	-	15	-	1	-	14	-	15	-	15
Protective cultivation (Green Houses, Shade Net etc.)																						
Nutritional gardening	1	-	1	-	-	-	-	-	-	1	-	14	-	15	-	1	-	14	-	15	-	15
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit																						
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						

Management of potted plants																					
Export potential of ornamental plants																					
Propagation techniques of Ornamental Plants																					
d) Plantation crops																					
Production and Management technology																					
Processing and value addition																					
e) Tuber crops																					
Production and Management technology																					
Processing and value addition																					
f) Spices																					
Production and Management technology																					
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology and value addition																					
III Soil Health and Fertility Management																					
Soil fertility management	01	-	01	-	-	-	-	-	-	05	-	10	-	15	-	05	-	10	-	15	-	15

Soil and Water Conservation	-	01	01	-	-	-	-	-	-	-	08	-	07	15	-	-	08	-	07	15	-	15
Integrated Nutrient Management																						
Production and use of organic inputs																						
Management of Problematic soils	01	-	01	-	-	-	-	-	-	05	-	10	-	15	-	05	-	10	-	15	-	15
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing	01	-	01	-	-	-	-	-	-	10	-	05	-	15	-	10	-	05	-	15	-	15
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management																						
Piggery Management																						
Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening																						

Design and development of low/minimum cost diet																					
Designing and development for high nutrient efficiency diet																					
Minimization of nutrient loss in processing																					
Gender mainstreaming through SHGs																					
Storage loss minimization techniques																					
Value addition																					
Income generation activities for empowerment of rural Women																					
Location specific drudgery reduction technologies																					
Rural Crafts																					
Women and child care																					
VI Agril. Engineering																					
Installation and maintenance of micro irrigation systems																					
Use of Plastics in farming practices																					
Production of small tools and implements																					

Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					
Post Harvest Technology																					
VII Plant Protection																					
Integrated Pest Management																					
Integrated Disease Management																					
Bio-control of pests and diseases																					
Production of bio control agents and bio pesticides																					
VIII Fisheries																					
Integrated fish farming																					
Carp breeding and hatchery management																					
Carp fry and fingerling rearing																					
Composite fish culture																					
Hatchery management and culture of freshwater prawn																					
Breeding and culture of ornamental fishes																					
Portable plastic																					

carp hatchery																					
Pen culture of fish and prawn																					
Shrimp farming																					
Edible oyster farming																					
Pearl culture																					
Fish processing and value addition																					
IX Production of Inputs at site																					
Seed Production																					
Planting material production																					
Bio-agents production																					
Bio-pesticides production																					
Bio-fertilizer production																					
Vermi-compost production																					
Organic manures production																					
Production of fry and fingerlings																					
Production of Bee-colonies and wax sheets																					
Small tools and implements																					
Production of livestock feed and fodder																					
Production of Fish feed																					
X Capacity Building and Group Dynamics																					
Leadership development																					

Group dynamics																						
Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL	**5**	**2**	**7**							**22**	**23**	**53**	**7**	**90**	**15**	**22**	**23**	**53**	**7**	**90**	**15**	**105**

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

Thematic area	No. of Courses/ prg.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
Weed management																						
Resource Conservation Technologies																						
Cropping Systems	1	-	1							7	-	5	-	12	-	7	-	5	-	12		12

Crop Diversification	2	-	2							15	-	41	-	56	-	15	-	41	-	56	-	56
Integrated Farming																						
Water management																						
Seed production	1	-	1							1	-	14	-	15	-	1	-	14	-	15	-	15
Nursery management																						
Integrated Crop Management																						
Production technology	5	-	5							39	-	34	-	73	-	39	-	34	-	73	-	73
Importance of seeds & different methods for germination test	1	-	1							6	--	9	-	15	-	6	-	9-		15	-	15
Post-harvest management on Potato	3	-	3							30	-	49	-	79	-	30	-	49	-	79	-	79
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production Technology of Summer Vegetables.	3	-	3	-	-	-	-	-	-	-	-	35	-	35	-	-	-	35	-	35	-	35
Off-season vegetables																						
Nursery raising																						
Scientific cultivation of Rabi crops	1	-	1	-	-	-	-	-	-	4	-	6	-	10	-	4	-	6	-	10	-	10

Export potential vegetables																						
Grading and standardization																						
Organic cultivation of root crops.	2	-	2	-	-	-	-	-	-	20	-	50	-	70	-	20	-	50	-	70	-	70
Nutritional Gardening for sustainable livelihood	2	-	2	-	-	-	-	-	-	44	-	40	-	84	-	44	-	40	-	84	-	84
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit																						
Management of young plants/orchards																						
Rejuvenation of old orchards in Citrus																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Value Addition	2	-	2	-	-	-	-	-	-	-	-	30	-	30	-	30	-	30	-	30	-	30
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental																						

plants																					
Propagation techniques of Ornamental Plants																					
d) Plantation crops																					
Production and Management technology																					
Processing and value addition																					
e) Tuber crops																					
Production and Management technology																					
Processing and value addition																					
f) Spices																					
Production and Management technology (Extraction of Naga King Chilli seeds)																					
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology and value addition																					
III Soil Health and Fertility Management																					
Soil fertility management	01	01	02	-	-	-	-	-	-	10	40	10	15	75	-	10	40	10	15	75	-	75

Soil and Water Conservation	01	-	01	-	-	-	-	-	-	10	-	10	-	20	-	10	-	10	-	20	-	20
Integrated Nutrient Management																						
Production and use of organic inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management	3	-	3	-	-	-	-	-	-	22	-	61	-	83	-	22	-	61	-	83	-	83
Piggery Management	1	-	1							3	-	37	-	40	-	3	-	37	-	40	-	40
Rabbit Management																						
Disease Management	3	-	3	-	-	-	-	-	-	23	-	68	-	91	-	23	-	68	-	91	-	91
Feed management	2	-	2	-	-	-	-	-	-	16	-	56	-	72	-	16	-	56	-	72	-	72
Production of quality animal products	2	-	2							3	-	33	-	36	-	3	-	33	-	36		36
IFS	2	-	2							29	-	37	-	66	-	29	-	37	-	66	-	66
Health Care	1	-	1							2	-	15	-	17	-	2	-	15	-	17	-	17
V Home Science/Women empowerment																						

Household food security by kitchen gardening and nutrition gardening																					
Design and development of low/minimum cost diet																					
Designing and development for high nutrient efficiency diet																					
Minimization of nutrient loss in processing																					
Gender mainstreaming through SHGs																					
Storage loss minimization techniques																					
Value addition																					
Income generation activities for empowerment of rural Women																					
Location specific drudgery reduction technologies																					
Rural Crafts																					
Women and child care																					
VI Agril. Engineering																					

Installation and maintenance of micro irrigation systems																					
Use of Plastics in farming practices																					
Production of small tools and implements																					
Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					
Post Harvest Technology																					
VII Plant Protection																					
Integrated Pest Management																					
Integrated Disease Management																					
Bio-control of pests and diseases																					
Production of bio control agents and bio pesticides																					
VIII Fisheries																					
Integrated fish farming																					
Carp breeding and hatchery management																					
Carp fry and fingerling rearing																					

Composite fish culture																					
Hatchery management and culture of freshwater prawn																					
Breeding and culture of ornamental fishes																					
Portable plastic carp hatchery																					
Pen culture of fish and prawn																					
Shrimp farming																					
Edible oyster farming																					
Pearl culture																					
Fish processing and value addition																					
IX Production of Inputs at site																					
Seed Production																					
Planting material production																					
Bio-agents production																					
Bio-pesticides production																					
Bio-fertilizer production																					
Vermi-compost production																					
Organic manures production																					
Production of fry and fingerlings																					
Production of Bee-colonies and																					

wax sheets																						
Small tools and implements																						
Production of livestock feed and fodder																						
Production of Fish feed																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Region technologies	1		1							5		10		15	-	5	-	10	-	15	-	15
Nursery management																						
Integrated Farming Systems																						
TOTAL	**40**	**1**	**41**							**289**		**40**		**650**	**15**	**994**	**319**	**40**	**641**	**15**	**994**	**994**

(B) RURAL YOUTH

3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes
(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ Prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Mushroom Production																						
Bee-keeping																						
Integrated farming for sustainable production																						
Seed production	2	-	2							20	-	8	-	28								28
Floriculture- Open Cultivation																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of High Value vegetable crops																						
Commercial fruit production																						
Repair and maintenance of farm machinery																						

and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition	1	-	1		-	-	-	-	-	-	-	15	-	15	-	-	-	15	-	15	-	15
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production	2	-	2	-	-	-	-	-	-	-	-	12	-	18	-	12	-	18	-	30	-	30
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						

Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL	**5**	**-**	**5**	**-**	**-**	**-**	**-**	**-**	**-**	**20**	**-**	**35**	**-**	**61**	**-**	**12**	**-**	**33**	**-**	**45**	**-**	**73**

(B) RURAL YOUTH

3.3.4. Achievements on Training Rural Youth in Off Campus including Sponsored On Campus Training Programmes
(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ Prog			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	(x + y)
Mushroom Production																						
Bee-keeping																						
Integrated farming for sustainable production																						
Seed production																						
Floriculture- Open Cultivation																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						

Protected cultivation of High Value vegetable crops																						
Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition	1	-	1		-	-	-	-	-	-	-	15	-	15	-	-	-	15	-	15	-	15
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						

Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL	1	-			-	-	-	-	-	-	-	15	-	15	-	-	-	15	-	15	-	15

3.3.5. Achievements on Training of <u>Extension Personnel</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes
(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Organic cultivation																						
Post harvest management																						
Production technology	2	-	2	-	-	-	-	-	-	9	-	28	-	37	-	9	-	28	-	37		37
Rejuvenation of old orchards																						
Protected cultivation technology																						
Formation and Management of																						

SHGs																						
Plant propagation and multiplication																						
Training and pruning of kiwi orchards																						
Capacity building for ICT application																						
Care and maintenance of farm machinery and implements																						
WTO and IPR issues																						
Management in farm animals	2	-	2	-	-	-	-	-	-	10	-	26	-	36	-	10	-	26	-	36	-	36
Livestock feed and fodder production																						
Household food security																						
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
TOTAL	**4**	**-**	**4**	**-**	**-**	**-**	**-**	**-**	**-**	**19**	**-**	**54**	**-**	**73**	**-**	**19**	**-**	**54**	**-**	**73**	**-**	**73**

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Animal Science	Poultry production.	Backyard poultry farming	11.02.22	1	KVK Office	Rural Youth	-	-	-	7	8	15	7	8	15
	Poultry Production	Sustainable poultry farming	04.11.22	1	KVK Office	Rural Youth	-	-	-	5	10	15	5	10	15
Horticulture	Value addition	Value addition of Underutilized fruits & Vegetables.	12thJuly. 2022	1 day	KVK Campus	**Farmer & Farm women**	-	-	-	1	14	15	1	14	15
	Production technology	Nutritional Gardening for Sustainable Livelihood.	13thJuly. 2022	1 day	KVK Campus	**Farmer & Farm women**	-	-	-	1	14	15	1	14	15
	Value addition	STRY programme on Post harvest processing & packaging of Fruits & vegetables	11th to 18th Aug 2022	1 day	KVK Campus	**Rural Youth**				-	15	15	-	15	15
Genetics & Plant breeding	Seed production	Seed production technology	12/07/22	1	KVK, campus	Farmers & farm women				1	14		1	14	15
	Seed production	STRY programme on seed production	16th -21st march,23	6 days	KVK Campus	**Rural Youth**				15	-	15	15	-	15
Soil Science	Agriculture	Soil sample collection & Testing and Its importance in crop production	28/05/22	1	KVK, campus	Farmers & farm women				10	05	15	10	05	15
	Agriculture	Soil Health Management	01/06/22	1	KVK, campus	Farmers & farm women				05	05	10	05	05	10

	Agriculture	Low cost vermin-composting	02/07/22	1		Farmers & farm women				00	15	15	00	15	15
	Agriculture	Low cost water harvesting & Vermi-composting	12/07/22	01	KVK, campus	Farmers & farm women				05	10	15	05	10	15
	Agriculture	Organic management in Potato	20/10/22	1	KVK, campus	Farmers & farm women				02	08	10	02	08	10
	Agriculture	STRY programme on Soil Conservation	20th -27th March,23	06	KVK, campus	Rural Youth				08	07	15	08	07	15
	Agriculture	Scientific techniques soil sample collection & analysis	10/02/23	01	KVK, campus	Rural Youth				05	05	10	05	05	10
Plant protection	Integrated pest management	Integrated pest management in Winter	18/11/2022	1	Tseminyu town	Farmer & Farm women	-	-	-	5	16	21	5	16	21
	Integrated disease management	Storage of planting material for effective management of Rhizome rot in Ginger	15/12/2022	1	New tesophenyu	Farmer & Farm women	-	-	-	10	10	20	10	10	20
	Integrated disease management	Integrated disease management in Potato	10/10/2022	1	Phenwenyu village	Farmer & Farm women	-	-	-	10	10	20	10	10	20
	Production technology	Nursery management in Coffee	15/11/2022	1	Tseminyu town	Extension personnel	-	-	-	6	13	19	6	13	19
	Production technology	Coffee seed propagation procedure	19/11/2022	1	Sendenyu village	Extension personnel	-	-	-	10	18	28	10	18	28
Agronomy	Seed production	Training on oilseed production	14.7.22	1	KVK Conference Hall	Farm women	-	-	-	2	9	11	2	9	11

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Animal Science	Poultry production	Scientific poultry production	14-16/2/22	3	Ziphenyu	Farmer & Farm women	-	-	-	3	37	40	3	37	40
	Pig Production	Scientific pig production	17-19/2/22	3	Henbenji	Farmer & Farm women				3	37	40	3	37	40
	Feeds & feeding Management	Feeding management in livestock	21-23/2/22	3	Tseminyu	Farmer & Farm women				8	32	40	8	32	40
	Disease management	Common diseases of livestock	24-26/2/22	3	Phenwhenyu	Farmer & Farm women	-	-	-	5	40	45	5	40	45
	IFS	IFS on livestock based	14-16/3/22	3	Gariphebasa	Farmer & Farm Women	-	-	-	27	22	49	27	22	49
	Disease management	Disease management in Pig	28/5/22	1	Henbenji	Farmer & Farm women	-	-	-	5	19	24	5	19	24
	Production management	Livestock production management	1/6/22	1	Phenwhenyu	Farmer & Farm Women	-	-	-	0	17	17	0	17	17
	Poultry Production	Backyard poultry production	8/6/22	1	Yikhanu	Farmer & Farm Women	-	-	-	9	14	23	9	14	23
	Health care	Animal Health Care	30/7/22	1	Khonoma	Farmer & Farm women	-	-	-	12	32	44	12	32	44
	IFS	IFS	7/9/22	1	Guju	Farmer & Farm Women	-	-	-	2	15	17	2	15	17
	Disease management	Disease management in Livestock with special reference to public health	27/10/22	1	Tseminyu Town	Extension Personnel & Civil societies	-	-	-	6	13	19	4	13	19
	Disease management	Disease management in Livestock	18/11/22	1	Tseminyu	Extension Personnel	-	-	-	4	13	17	3	14	17
	Poultry Production	Sustainable poultry production	2/12/22	1	Ehunnu & Yikhanu	Farmer & Farm women	-	-	-	10	10	20	10	10	20
	Production	Livestock	15/2/22	1	Tesophen	Farmer & Farm Women	-	-	-	3	16	19	3	16	19

	Management	production			yu New										
	Disease management	Parasitic disease management in pig	10/2/23	1	Phenwhenyu	Farmer & Farm women	-	-	-	7	12	19	7	12	19
	Feeds & feeding management	Feeding management in pig	29/3/23	1	Phenwhenyu	Farmer & Farm women	-	-	-	8	24	32	8	24	32
Horticulture	Production technology	Nutritional gardening for sustainable livelihood.	26thApril 2022	1	KohimaTown	Farmer & Farm women	-	-	-	44	30	74	44	30	74
	Production technology	Nutritional gardening for sustainable livelihood.	27thApril 2022	1	Tseminyu	Farmer & Farm women				-	10	10	-	10	10
	Production technology	Production technology of Okra & Radish	28th April 2022	1	New Tesophenyu Village	Farmer & Farm women				-	10	10	-	10	10
	Production technology	Production technology of Summer Vegetables	30thMay 2022	1	Ngvuphen Village	Farmer & Farm women	-	-	-	-	10	10	-	10	10
	Production technology	Production technology of Radish & Okra	31st May 2022	1	Zisunyu Village	Farmer & Farm Women	-	-	-	-	15	15	-	15	15
	Production technology	Organic Cultivation of root crops (Carrot & Radish)	30thJuly. 2022	1	Khonoma village	Farmer & Farm women	-	-	-	10	34	44	10	34	44
	Value addition	Value addition of Underutilized fruits & Vegetables.	8th& 9th Aug 2022	1	Tseminyu Town	Farmer & Farm Women	-	-	-	-	15	15	-	15	15
	Production technology	Organic Cultivation of root crops (Carrot &	26th Aug 2022	1	Kigwema Village	Farmer & Farm Women	-	-	-	10	16	26	10	16	26

		Radish)													
	Value addition	Value addition of Underutilized fruits & Vegetables.	1st& 2nd Sept. 2022	2	Ziphenyu Village	Farmer & Farm women	-	-	-	-	15	15	-	15	15
	Production technology	Scientific Cultivation of Rabi crops.	5th Aug 2022	1	Mima Village	Farmer & Farm Women	-	-	-	4	6	10	4	6	10
	Production technology	Production technology of seasonal flowers.	6th Sept .2022	1	Kohima Town	Rural Youth	-	-	-	-	20	20	-	20	20
Genetics & Plant breeding	Production technology	Organic cultivation on potato	24/10/24	1	Viswema village	Farmers & farm women				14	20		14	20	24
	Post harvest management	Post-harvest management on potato	16/09/22	1	Khuzama village	Farmers & farm women				10	25		10	25	35
	Production technology	Potato cultivation technology	16/09/22	1	Jakhama village	EP				6	4		6	4	10
	Seed testing	Importance of seeds & different methods for germination test	4/05/22	1	Tesophenyu village	Farmers & farm women				6	9		6	9	15
	Production technology	Production technology on HYV Maize	8/7/22	1	Henbenji village	Farmers & farm women				7	5		7	5	12
	Crop Diversification	Vegetables production	20/6/22	1	Henbenji village	Farmers & farm women				7	5		7	5	12
	Crop Diversification	Vegetables production	30/6/22	1	Khonoma village	Farmers & farm women				8	36		8	36	44
	Cropping system	Importance of cereal legume Inter-cropping for increasing cropping Intensity and raising	1/8/22	1	Khonoma village	Farmers & farm women				7	5		7	5	12

		farmers' income														
	Production technology	Training on importance of Millets cultivation	19/05/22	1	Chunglikha village	EP				7	12		7	12	19
	Production technology	Importance of millets and Bio fortified crops		1		Farmers & farm women				24	14		24	14	38
	Production technology	Production technology on Soyabean and maize	18/6/22	2	Yikhanu village & Ehunyu village	Farmers & farm women				8	15		8	15	23
	Agro forestry	Region specific agro forestry	18/6/22	1	Ehunyu village	Farm women/RY				5	10		5	10	15
Soil Science	Horticulture	Value chain on large cardamom	14/09/22	01	Tseminyu village	Farmer & Farm women/ RY/ EP				40	15	55	40	15	55
	Agriculture	Seed bed preparation & organic management in Rabi crops	10/09/22	01	Guju village	Farmers & farm women				05	10	15	05	10	15
	Agriculture	Seed bed preparation & organic management in Rabi crops	11/11/22	01	SP Office, Tseminyu	EP				10	10	20	10	10	20
	Agriculture	Management of problem soil	15/12/22	01	Tesophenyu village	Farm women				00	20	20	00	20	20
	Agriculture	Scientific cultivation of Mushroom	15/11/22 16/12/22	02	Tseminyu Town, Tesophenyu village	Farm women & EP				10	40	50	10	40	50
Agronomy	Crop diversification	Training on agrobiodiversity (Courses: 2nos.)	8.4.22	1	Rüsoma	Farmer	-	-	-	0	15	15	0	15	15

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
Fruits & Vegetables	11th Aug 2022	18th Aug 2022	Post harvest management & Value addition	STRY programme on Post harvest processing & packaging of Fruits & vegetables	-	-	-	-	15	15	-	15	15	Processing & Value Addition	2	3	3,60,000	SAMETI, Medziphema & MANAGE HYDERABAD

*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	Farmers & Farmwomen	14-16/2/22	3	Animal Science	Poultry production	Scientific poultry production	-	-	-	3	37	40	3	37	40	Ministries of Fisheries, Animal Husbandry & Dairying, Govt. Of India	40,000/-
Off	Farmers & Farmwomen	17-19/2/22	3		Pig Production	Scientific pig production	-	-	-	3	37	40	3	37	40		40,000/-
Off	Farmers & Farmwomen	21-23/2/22	3		Feeds & feeding Management	Feeding management in livestock	-	-	-	8	32	40	8	32	40		40,000/-
Off	Farmers & Farmwomen	24-26/2/22	3		Disease management	Common diseases of livestock	-	-	-	5	40	45	5	40	45		40,000/-
Off	Farmers & Farmwomen	14-16/3/22	3		IFS	IFS on livestock based	-	-	-	27	22	49	27	22	49		40,000/-

ON	Rural Youth	11th to 18th Aug 2022	6	Horticulture	Post harvest management & Value addition	STRY programme on Post harvest processing & packaging of Fruits & vegetables	-	-	-	-	15	15	-	15	15	SAMETI, Medziphema & MANAGE HYDERABAD	42,000/-
ON	Rural Youth	16th -21st march'23	6	Genetics & Plant breeding	Seed production	STRY programme on Seed production	-	-	-	15	-	15	15	-	15	SAMETI, Medziphema & MANAGE HYDERABAD	42,000/-
Off	Farm women & EP	15/11/22 16/12/22	02	Soil Science	Agriculture	Scientific cultivation of Mushroom				10	40	50	10	40	50	District Horticulture Office, Tseminyu	Training Materials
ON	Rural Youth	20th -27th March,23	06	Soil Science	Agriculture	STRY programme on Soil Conservation	-	-	-	08	07	15	08	07	15	SAMETI, Medziphema & MANAGE HYDERABAD	42,000/-

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.	Technology showcasing	-	-		-	-	-									
2.	Advisory services	Livestock. Crops, Soil Health, Insect pest management on Winter crops	1st January to December 2022	90	-	-	-	140	206	346		-	-	136	201	346
3.	Diagnostic visit	Agricultural crop on Kharif , Rabi, Livestock and Disease management in Ginger, cabbage & pea	1st January to December 2022	8	-	-	-	20	20	40	-	-	-	20	20	40
4.	Field day	INM on French Beans	10/12/22 &08/10/22	02				15	15	30				15	15	30

5.	Group Discussion	Agricultural crops, livestock and soil health	1st January to December 2022	11	-	-	-	36	79	115	-	-	-	36	79	115
6.	Group meeting		1st January to December 2022	3	-	-	-	10	33	43	-	-	-	10	33	43
7.	KishanGosthi			0	-	-	-	0	0	0	-	-	-	-	-	-
8.	Kissan Mela		9th Nov,2022	0	-	-	-	0	0	0	-	-	-	-	-	-
9.	Film show	Cultivation of Millet , Soil health management, Coffee production	1st January to December 2022	7	-	-	-	51	130	181	-	-	-	91	140	151
10.	SHG formation			0	-	-	-	0	0	0	-	-	-	-	-	-
11.	Exhibition		1st January to December 2022	14	-	-	-	10	30	40	-	-	-	10	30	40
12.	Scientist visit to farmers field	Monitoring and supervision under OFT & FLD	1st January to December 2022	37	-	-	-	97	91	188	-	-	-	97	91	188
13.	Farmers visit to KVK	Farmers and farm women visit to Kvk	1st January to December 2022	19	-	-	-	86	179	265	5	10	15	91	189	260
14.	Awareness Campaigns	Vaccination against Ranihket disease in poultry, Nutritional Gardening and Jal Shakti Abhiyan	1st January to December 2022	11	-	-	57	223	280	-	-	-	-	57	223	280
15.	Farm science club			0	-	-	-	0	0	0	-	-	-	0	0	0
16.	Ex-trainee Sammelan			0	-	-	-	0	0	0	-	-	-	0	0	0
17.	Farmers seminar/ workshop	Seminar on Potato cultivation	16th Sep'2022	2	-	-	-	98	30	128	-	-	-	98	30	128
18.	Method demonstration	Method Demonstration on Agricultural crops, soil and livestock	1st January to December 2022	20	-	-	-	86	**213**	299	-	-	-	86	213	299
19.	Celebration of important days	-	1st January to December 2022	6	-	-	-	85	115	200	-	-	-	85	115	200

20.	Exposure visits															
21.	Electronic media (CD/DVD)															
22.	Extension literature	Popular articles, Book chapters, book and folders	1st January to December 2022	14	-	-	-	19	51	70	-	-	-	19	51	70
23.	Newspaper coverage	Mass	1st January to December 2022	8	-	-	-	-	-	-	-	-	-	-	-	-
24.	Popular articles			2	-	-	-	-	-	-	-	-	-	-	-	-
25.	Radio talk		-	-	-	-	-	-	-	-	-	-	-	-	-	-
26.	TV talk		-	-	-	-	-	-	-	-	-	-	-	-	-	-
27.	Training manual		-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.	Soil health camp		-	-	-	-	-	-	-	-	-	-	-	-	-	-
29.	Awareness campaign (Kharif & Rabi)		-	-	-	-	-	-	-	-	-	-	-	-	-	-
30.	Lecture delivered as resource person	Livestocks, Agricultural and Horticultural crops	1st January to December 2022	7	-	-	-	150	98	248	-	-	-	150	98	248
31.	Farmer-Scientist interaction	Agricultural crops and Soil health management	1st January to December 2022	7	-	-	-	147	128	275	-	-	-	147	128	275
32.	Soil test campaign															
33.	MahilaMandal Convener meet															
34.	Any other (Please specify)															
Grand Total			**268**			**57**	**1273**	**1698**	**2468**	**5**	**10**	**15**	**1148**	**1656**	**2713**	**268**

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	
Cereal	Maize	5kg of HQPM maize seed distributed to farmer	0.05	225	-	-	-	2	2
	Paddy	Abhishek	24.06	123000	-	-	10	20	30
	Millet	Foxtail millet	0.27	3780	-	-	-	5	5
Oilseeds	Soyabean	50kg of Soyabean seed JS-97-52 distributed to farmers	8.67	104040	-	-	-	40	40
Pulses	Pea	Aman	4.4	48000	-	-	5	15	20
Tuber	Potato	Kufri Bahar	250	500000	-	-	10	15	25
Total			**287.45**	**779045**	**-**	**-**	**25**	**97**	**122**

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	Cereal	**24.38**	20	127005	-	-	10	27	37
2	Oilseeds	**8.67**	8	104040	-	-	-	40	40
3	Pulses	4.4	4	48000	-	-	5	15	20
4	Tuber	250	200	500000	-	-	10	15	25
TOTAL		**287.45**	**232**	**779045**	**-**	**-**	**25**	**97**	**122**

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	Banana	R. Cavendish	-	250	50000	-	-	10	-	10
Vegetable	Carrot	Pusa Rudhira		Carrot (6 kgs)	Seeds provided under IARI-NEH programme	-	-	14	40	54
	Radish	Japanese White and & Chinese Pink		Radish (4 kgs)	Seeds provided under IARI-NEH programme	-	-	15	35	50
	Potato	Potato var Kufri Jyoti		5000 q	Seeds provided under IARI-NEH programme	-	-	120	140	260
	Nutritional gardening kit	Okra var. Hyb. Sona Najik, French bean var. Sona Gold , Cowpea var. NSC-INDU 27 , Sponge gourd var. Sona White, Pumpkin var. NSC-325 IUS , Ridge Gourd, Bottle gourd, Bitter gourd , Cucumber , Brinjal , Chilli etc.		100 kg (200 kit)	Seeds provided under IARI-NEH programme	-	-	50	150	200
Flower	Marigold	Pusa Narangi Ghenda		Marigold (3 kg)	Seeds provided under IARI-NEH programme	-	-	-	50	50
Plantation	Tree beans	P. rhoxburghii	1200	800	24000	-	-	5	5	10
	Litchi	Bombay white	500	350	125000	-	-	5	5	10

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	-	-	-	-	-	-	-	-	-	-
BIOFERTILIZERS	-	-	-	-	-	-	-	-	-	-
BIO PESTICIDES	-	-	-	-	-	-	-	-	-	-
Total	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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	
1	Poultry	White Pekin Duck	150	-	19,500/-	-	-	1	6	7
2	Poultry	Vanaraja	500	-	34,500/-	-	-	10	10	20
Total			**650**	**-**	**54,000.00**			**11**	**16**	**27**

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.) : Yearly

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies	
			Produced/ published	Supplied/ distributed
1.	**Allelopathic effects of some fruits plant species with weeds.** *International Journal of Environment and Climate Change. Vol.12, Issue12, Page 856-859, 2022; Article No .IJECC 94837.ISSN:2581-8627.*	*M.S.Sachan,* ***P.Michui*** *& R.Mezhatsu*	-	-
2.	**Allelopathic effects of Schima khasiana and Michelia champaca on germination and growth of some legume and cereal crops of North Eastern Himalayan Region.** *International Journal of Plant and Soil Science. Vol.34, Issue 24, Page 179-186, 2022; Article No. IJPSS. 94803 ISSN: 2320-7035*	*M.S.Sachan, D.Dey,* ***P.Michui*** *& S.K. Sachan*	-	-
3.	**Best Oral Presentation Award on Variability studies in Foxtail millet i**n *the International Conference on Recent Advances in Agricultural, Biological and Applied Sciences Research organized by Society for Biotic and Environment Research (SBER)from 8th-9h August,2022*	*M.S.Sachan,* ***P.Michui*** *& S.K. Sachan*	-	
4.	Response of paddy straw and weed biomass mulching on growth, yield and economic performance of Ginger (*Zingiber Officinale)* Journal of Plant Development Sciences Vol.14(7):657-660.2022	Imtinuksung and Sentimenla	Published	
5	New Farm Laws and Its Implication in India. *Just Agriculture E- Magazines and E- Newsletter* Vol-3 Issue-2 October 2022 . e- ISSN: 582-8223	Dr. Sesenlo Kath and Dr. Ruokuovilie Mezhatsu (2022).		-

6	FSSAI Registration for Start- up Small Scale Agri Entrepreneurs. *Agriculture & Food e- Newsletter, Vol-04, Issue-10. ISSN: 2581 8317.*	Dr. Sesenlo Kath and Dr. Ruokuovilie Mezhatsu (2022).		
7	Paradigm Shift from Production Led Extension System of Agricultural Extension in Farm Sector. *Akinik Publication, New Delhi* In: Research Trends in Agriculture Extension (Vol-10) Pp: 39-51. ISBN : 978-93-5570-400-9	Dr. Sesenlo Kath and Dr. Ruokuovilie Mezhatsu (2022).	-	-
8	Integrated Agricultural Resource Management Strategy for Smart and Sustainable Agriculture. *Integrated Publications, New Delhi* In: Emerging Trends in Agricultural Sciences, Vol-9 Pp: 99-109	Dr. Sesenlo Kath and Dr. Ruokuovilie Mezhatsu (2022).	-	-
9	Extension Personnel Behavioural Skills Development. *Integrated Publication*, New Delhi- 11005. ISBN 978-93-118-08-8	Dr. Sesenlo Kath and Dr. Ruokuovilie Mezhatsu (2022).	-	-
TOTAL			**9**	

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

(C**)** **Details of Electronic Media Produced**

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

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

No.1 Success Story

Title: Performance of White Pekin duck under backyard system

Problem diagnosed: Non availability of meat type duck

Technology: White Pekin Duck (Vigova M. Super)

Introduction:

Duck farming may be a lucrative livestock industry within the globe due to its egg, meat and feather. Ducks is reared for eggs and meat production like chicken. Duck farming has the potential and may take the advantage to interact rural people in duck production. It is an important tool for alleviating poverty among the rural communities and has great potentials in tribal area. As compare to chicken ducks are more prolific and more adaptable to free-range system of rearing. They also grow faster than chicken however; meat type of duck is not easily available.

KVK Intervention:

Keeping in mind the potential and advantages of duck farming, KVK Kohima conducted On Farm Testing (OFT) on White Pekin Duck to assess the performance of white Pekin Duck under backyard system during the year 2022-23. The OFT programmed was carried out in three villages namely Henbenji, Phenwhenyu and Guju under Tseminyu district. Seven farmwomen were selected from the selected villages and trained on duck farming under backyard system and further motivated through a series of group meeting and discussion. Critical inputs like 150 numbers of 6 days old white pekin duckling i.e Vigova M. Super, feeds, digital weighing balance and veterinary medicine and Veterinary services were provided till the completion of the On Farm Testing.

Table1. Performance in terms of growth and mortality in farmer's field,

Enterprised Poultry	4weeks (g)	8 weeks (g)	12 weeks (g)	Mortality (%)	Av.daily wt. gain (g)
White Pekin duck	815	1632	2500	Nil*	29.77
Desi/ Pati duck	267	524	787	Nil*	9.37

**during the studied period*

Table2. Technology Output,

Enterprised Poultry	Production/unit (nos.)	Net return (Rs.)	B.C Ratio
White Pekin duck	20	9600.00	2.56
Desi/Pati duck	20	2407.00	1.75

Impact of the technology

The farmers sold the birds @ Rs. 400/- per kg, fetching a gross return of Rs. 15750/- with a net profit of Rs. 9600/- per farmer. The impact was assess to good nutrition, social security, self employment and continue to inspire fellow citizens of the village. The performance of White Pekin Duck was found favourable and promising in term of growth and meat quality as revealed by the farmers.



Contributed by: Dr. Paihem Michui, Assistant Chief Technical Officer (Animal Science), KVK Kohima, Nagaland

No.2 Success Story

Title : Popularization of Carrot variety Pusa Rudhira.
Problem diagnosed : Non-use of organic sources of nutrients which decreases the marketable quality of the produce
Technology : Carrot variety Pusa Rudhira

Introduction:

Carrot is a popular vegetable crop which is fast-growing and high in carotene content. It is a precursor to vitamin A, and have significant amount of Thiamine and Riboflavin. The two main ingredients in carrot flavour are sugar and volatile terpenoids. The Villages in Kohima District, Nagaland has a favourable climate for growing carrots throughout the year with an elevation of above 1500 msl in most of the farming area. In some villages, the Villagers have been cultivating Carrots for the last few years, out of their own interest and due to high demand in the market during offseason but the problem faced by the farmers was poor size of the produce and low shelf life due to which the farmers could not fetch a good price in the market even in the offseason.

KVK Intervention:

KVK Kohima after considering the scope and potential of Carrot cultivation in Kohima district due to the favourable Agro-climatic condition for offseason production, conducted Frontline Demonstration (FLD) by introducing the variety Pusa Rudhira along with their existing variety Kuroda Improved to assess and popularize the improved variety in the District during the year 2022-23. The FLD programmed was carried out in two villages namely Khonoma and Kigwema villages under Kohima district. Ten farmwomen were selected (five each) from the two selected villages. Therefore, for successful production of Carrot in the district, a well-planned strategy which includes soil micro-climate, bed preparation, choice of variety, manuring, seed treatment, marketing and all related technologies were analysed for ensuring better quality and higher returns to the farmer.

The demonstration was conducted by introduction of new Carrot variety Pusa Rudhira. Training cum Hand-on-demonstration on ploughing of soil to a depth of 30-40 cm was worked to a very fine tilt and bed preparationby raising bed to 1m wide and 20 cm high for better rooting during sowing of seeds were conducted. The farmers were also trained on the importance of incorporation of biofertilizers, i.e., Azospirillum and Phosphotika at 25 kg each/ha at the time of land preparation along with organic matter in the soil for quality production. Application of 5g/kg *Trichoderma viride* and 5g/kg *Pseudomonas fluorescens* was also done during seed treatment to control various fungal and bacterial diseases during offseason production. All the recommended cultural practices were followed along with regular monitoring and data collection at different growth stages and yield parameters were recorded till the completion of the demonstration

FLD being carried out at Kigwema Village &Khonoma Village

Harvesting of Carrot being carried out in the farmers'

Result and Economic analysis:

During the demonstration period, the data recorded indicates the highest yield (130 q/ha), lowest yield (80 q/ha), and average yield (115 q/ha) compared to local check (100 q/ha). The percentage of increase in yield i.e., change in average yield over local was 13.04 %. Both the varieties performed well in all the locations however the variety Pusa Rudhira performed better under Kohima district which recorded maximum values in all the yield attributing traits.

Table 1: Performance in terms of various yield parameters over local check and % increase in yield of Carrot under Kohima District

Demonstration Yield(q/Ha)			**Yield of local Check(q/ha)**	**% increase/ change in avg. yield over local**
H	**L**	**A**		
130	80	115	100	13.04

Table 2: Technology Output

Crop/Variety	**Gross Cost (Rs/ha)**	**Gross Return(Rs/ha)**	**Net Return (Rs/ha)**	**B:C Ratio (GR/GC)**
Carrot Var. Pusa Rudhira	60,000	5,75,000	5,15,000	1:9

Marketing, Outcome and Impact:

The farmers sold the carrots @ Rs. 50-80/- per kg (Wholesale), fetching a gross return of Rs. 5,75,000/- with a net profit of Rs. 5,15,000/- for 1 hectare area (Approx. estimation).On an average every farm family with a minimum land holding of 1 acre harvested 40 quintals in one season with better quality of the produce and yield. As organic production is one of the fastest growing food sectors globally and driven by increased consumer demand, the organically managed carrots were free of pesticide residue and assumed to have higher amount of secondary metabolites, vitamins and various mineral nutrients. With the intervention by KVK, Kohima, the eagerness to try improved technology-based cultivation has influenced many farmers to divert age old practice of farming.

Horizontal spread within the social system: After the successful performance of the introduced carrot variety more number of farmers were interested to take up carrot cultivation, so further dissemination through trainings and method demonstrations were carried out in different locations for horizontal spread. However, due to the limitations in the resources and higher investment for demonstrations only two villages were selected one Khonoma and the other Kigwema under Kohima District for frontline line demonstration in the current year which further enhance the income of the farmers. The extent of adaptation in the district was 40%.

Contributed by: Dr .Shisarenla Aier, Subject Matter Specialist (Horticulture), KVK Kohima, Nagaland.

SUCCESS STORY ON FLD ON PEA CULTIVATION TECHNOLGY

Back ground of operational area

Kohima district of Nagaland with temperate to sub-tropical climatic condition is mostly affected by acute scarcity of water during Rabi season. Generally, most of the farmers in the village follow mono-cropping system of rice Cultivation. Instead of taking up any second crop after Kharif rice, the farmers of this village leave their rice field fallow during Rabi season by long dry spell of rainfall during November- March, lack of irrigation facilities etc. In order to encourage farmers to take up second crop after the rice harvests, KVK, Kohima introduce pea as second crop under FLD.

Technology demonstration

Use of Improved varieties: The varieties which were utilized for demonstrations are:

- Vl Matar-47 and Aman

Cropping System **:** Rice-pulse cropping system
Line sowing **:** Line sowing @ 30cm X 10cm with zero tillage
Seed treatment **:** Seed treatment with Rhizobium culture @50 g/kg seed

Performance of Field pea during Rabi 2022-23

The FLDs on Field pea are being undertaken in Kohima district in Tesophenyu, Ziphenyu, Kigwema, Phesama and Viswema village. A total number of 5 demonstrations were conducted in an area of 2.5 ha focusing on increase in production and productivity and to bring improvements in areas like resource management and more horizontal adoption on pulse production. A varietal evaluation is the main technologies demonstrated during the cropping period. The selected farmers were imparted trainings, demonstration under different capacities as and when need arises throughout the cropping period.



Demonstration Yield (Qt/Ha)			Yield of local Check (Qt/ha)	% increase/ change in avg. yield over local	Gross Cost (Rs/ha)/ (Rs./ unit)	Gross Return (Rs/ha) / (Rs./ unit)	Net Return (Rs/ha) / (Rs./ Unit	B:C Ratio (GR/GC)
H	L	A						
18.10	16.40	17.25	14.80	16.55	19500	69,000	49500	3.53
17.14	15.10	16.12	14.80	8.92	19500	64,480	44,980	3.30

Productivity of Pea under improved technology recorded of 17.25Q/ha and 16.12Q/ha as against 14.80Q/ha under local check crop. There was 16.55% yield increased under demonstration over farmers practice. Variety Aman and VL Matar 47 under improved technologies gave higher net return Rs.49500/ha and 44980 as against Rs. 18240/ha under farmers practice. B: C ratio received under improved technologies is 3.53 and 3.30.

Horizontal spread of the technology

Prior to the intervention of this technology, the rice fields in the village selected village usually remain fallow without growing any second crop after rice. But after the successful intervention of this technology, farmers of the village could think of growing Rabi pulses like pea successfully after Kharif paddy instead of keeping the rice field fallow during rabi season. The successful adoption of this technology could create an additional impact among the farmers in the villages for extensive adoption and enhance their income generation for livelihood. The farmers of the village used to sell their produce in local market that fetched a good market price of their produces. The performance of technology demonstration conducted has open eye for the farmers, farm women, rural youths of the same village as well as neighbouring villages to adopt and go for second crop after paddy as it helps to increase the cropping intensity and increased net income, realising the potential of pea cultivation in rice fallow

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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Post harvest paddy storage structure	Granary are constructed in a common area near the village. It is made of bamboo structure on wooden post or bolder of 3-4 ft in height. The length and breadth varies according to seed to be stored. The roof is made of thatch or CJI sheet. The upper portion of the bamboo wall is left open for aeration.	To store harvested paddy for year long consumption
2.	Raising seedling for paddy cultivation	Seedlings for TRC are sown usually in the month of May and transplanted during June-July. Nursery is made by selecting an ideal place near the main field..	Production of healthy seedlings
3.	Maize storage for seed purpose	Harvested maize cobs are dried above the fire place in kitchen for seed purpose.	Seed purpose for next season and also prevention from post harvest insects
4.	Banana ripening	Matured banana bunch after harvest are staked in gunny bags and place near the fireplace for ripening.	During winter the temperature deeps delaying the ripening of banana, therefore matured harvest banana are place near fire place for ripening.
5.	Terrace making in Jhum Field	After clearing the jungle for Jhum practice (slash & Burn), the farmers collect half burn strong tree trunk and branch to be place across the slope for creating a terrace. In this way the whole jhum fields are covered.	To protect soil erosion and prevent leashing out nutrient from the jhum field area.
6.	Nutrient distribution in Jhum field.	The whole jhum field area is expected to be burn properly, after a day or two the left over ash are properly distributed throughout the field.	Ash helps in supplying nutrient to the crops and also act as insect repellent for cucurbits crops in the jhum.

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

- Identification of courses for farmers/farm women: **Through Telephonic contact, Need based and through PRA analysis.**
- Rural Youth: S**kill oriented Need based training methodology, Demonstration and confidence building methodology**
- Extension person: **Lectures, Demonstration and brain storming sessions.**

3.11 Field activities

i. Number of villages adopted ii. No. of farm families selected: iii. No. of survey/PRA conducted:

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Working condition

1. Year of establishment : 2015

2. List of equipments purchased with amount : Mini Soil Testing kit (MRIDAPARISHAK Rs. 90300)

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
		Mini Soil testing kit	Nagarjuna Agro Chemical Pvt. Ltd.	1	90300
Total		1	1	1	90300

3. Details of samples analyzed (2022) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount(In Rupees) realized
Soil Samples	50 Composite samples	430	07	85000/-
Water Samples				
Plant Samples				
Petiole Samples				
Total				

1. Details of Soil Health Cards (SHCs) (2022),

a. No. of SHCs prepared : 430
b. No. of farmers to whom SHCs were distributed : 405
c. Name of the Major and Minor nutrients analysed : N, P, K, pH, EC,OC
d. No. of villages covered : Tesophenyu, New Tesophenyu, Phenwhenyu,Guju, Sewanyu,Henbenji, Chunglikha

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

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	15	40	36	900	19	195	4	10	30	175	-	-	104	1320
Voice only	15	50	-	-	10	16	4	10	25	50	-	-	54	126
Voice and Text both	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total														

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
	1. Maize-Short duration vars. RCM--76				
	2. Upland paddy- short duration var. Bhalum 3 and SARS-1 3.Low land	10	-	30	30
	paddy-	15	-	20	20
	(a) short duration var. Abishak				
	(b) Medium duration var., Shahsarang-	10	-	10	10
	1 and SRI system	10	-	10	10
Introduction of Resource Conservation Technologies					
	1. Maize-sowing in ridge and furrow/ mulching,	20	-	40	40
	2. Terrace rice cultivation-SRI and Intensive crop Management	5	-	10	10
Distribution of seeds and planting materials					
	1). Maize –RCM-76,	-	-	20	20
	2). Bhalum-3, SARS- 1 and SARS-2				
	3). Low land paddy-	-	-	25	25
	(a)Short duration var. Abishak				
	(b) Medium- Shahsarang-1 and Ranjit	-	-	10	10
Any others (Please specify)					
	1). Maize- intercrop with legumes(groundnut /r soybean)	5	-	20	20
	2). Upland paddy- In situ moisture conservation, mulching with locally available bio mass	10	-	30	30
	2. Terrace rice cultivation- System of Rice Intensification (SRI)	5	-	20	20

b. 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
Drought	Livestock	2	2	200	-	100	100
	Poultry	5	5	2000	-	200	200
Cold wave	Livestock	2	2	1000	-	50	50
	Poultry	2	2	1000	-	50	50

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)
Field pea (Aman)	50	50%	22,000/-	55,000/-
Conoweeder	30	20%	30,000/-	40,000/-
Poultry (BV380)	10	20%	2,000/-	4,000/-

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.State Agricultural Research Station (SARS) Yisemyong, Mokokchung, Nagaland	Technology Exchange
2.Directorate of Agriculture	Host institute
3.Agriculture and allied departments	Trainings and demonstrations
4.ICAR, Jharnapani	Technology exchange/dessimination, trainings
5.NRCM, Jharnapani	Trainings and demonstration

6. AAU, Jorhat Assam	Technology exchange
7. NABARD, Dimapur	Farmers club, SHGs, training etc
8. Other lead banks	Financial linkages
9. DDK and AIR, Kohima	TV talks (broadcasting) and Radio talks
10. ICAR, Barapani Meghalaya	Technology exchange
11.Central Institute of Horticulture, Medziphema	Technology Exchange
12, ATMA, Kohima	Training and resource persons
13, Protection of plant varieties and farmers right authority, Ministry of Agriculture, Government of India	Training and awareness programme

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, and 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.)
International Yoga Day	Awareness cum Training	21st June 2022	-	-
ICAR Foundation Day Cum Award Ceremony	Awareness cum Training	16th July 2022	-	-
Republic day	Awareness cum Training	26th January 2022	-	-
Independence day	Awareness cum Training	15th Aug. 2022	-	-
Garib Kalyan Sammelan	Awareness cum Training		-	-
National Campaign on World Environment Day	Awareness cum Training	5th June 2022	-	-
PM-Kisan Samman	Awareness cum Training	22nd January 2022	-	-
SWATCHTA	Cleanliness training, awareness campaign etc.	April –Dec, 2022	-	-

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	**Meetings**	**Participation**	**-**
2	Trainings & demonstrations	Resource person	-
3	Scientist farmers interaction	Resource person	-
5	Training of KVK officials within and outside the state	Sponsorship for skill upgradations	-

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	-	-	-

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
1	-	-	-

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
12	116	-	13	162	-	2	19	-	6	113	-

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
-	-	-	-		-	8	162	-

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

No of KVKs	Beneficiaries	Advisories given (no)	Training organised (no)	Dissemination of Advisories
Nil	Nil	Nil	Nil	Nil

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

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
Nil	Nil	Nil	Nil	Nil	Nil	Nil

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
Nil	Nil	Nil	Nil	Nil	Nil	Nil		

5.10 Report on Agri Drone project (only selected KVKs)

Sl.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
1	Kohima	1	250	1	Iotechworld	998000	39	2022-'23	Neemoil,micro nutrient and irrigation	45ha	947	Time saving, reduce labour cost	Less longevity of battery	Additional battery required

6.1 Status of NARI during 2022

Name of Nutri-SMART Village	T1	T2	T3	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)
Zisunyu, New Tesophenyu. Kigwema, Khonoma, Chunlikha, Kohima, Tseminyu	Kitchen garden	Community garden	Terrace garden	0.74	305	7	Chinese Pink, Kashi Lohik,	22tonnes	15tonnes	Green magic, Pusa rudira, Golden acre, corrinder,	10tonnes	6tonnes	Arka Arjun, Anupama	38	22qnt.

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2022

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit (Name and No.)	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety/ species/ breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Vermicompost unit	2015-16	7.7 sq mt.	Eisenia foetida	Vermi compost	400 kg	-	8000/-	Utilized in the farm.
2	Sericulture	2017-18	24.3 sq mt.	-	-	-	-	-	-
3	Piggery	2017-18	24.87 sq mt.	-	-	-	-	-	Damaged due to lanslide

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Broccoli	Oc. t'22	-	-	Green magic	seedlings	10000	-	50000/-	For distribution
Rice (Paddy)	June 2022	November '22	0.15	RC Maniphour 14	Seed	1	-	3000/-	For distribution.
	June 2022	November '22	0.15	RC Maniphour 15	Seed	1	-	3000/-	For distribution.
	June 2022	November '22	0.15	RC Maniphour 16	Seed	1	-	3000/-	For distribution.
Maize	March 2022	July'22	0.1	Sweet corn	Seed	.25	-	9000/-	For consumption
Lime	May '22		0.1	vikram					For farm
Soy bean	June 2022	Nov. '22	0.25	VL-77	Seed	0.25	-	3000/-	For distribution
Tree bean	April '22			Manipur	seedlings	175	-	3500/-	For distribution
Litchi	May 2022	-	-		saplings	1500	-	120000/-	For farm

6.3 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	
-	-	-	-	-	-

6.4 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	
-	-	-	-	-	-	-	-

6.5 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
28/04/22 23/06/22	Low cost water harvesting Techniques	PF	02	15	15	30

6.6. 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

6. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	State Bank of India	Lerie Branch, Kohima	10277120396
With KVK	State Bank of India	Tseminyu Branch, Kohima	11826843849
Revolving Fund	Nagaland State cooperative bank	Tseminyu Branch, Kohima	102010006003420

7.2 **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	
Soybean (JS95-52)	0.41130	-	0.41130	-	0
Field pea (Aman)	0.24138	-	0.24138	-	0
TOTAL	**0.65268**	**-**	**0.65268**	**-**	**0**

7.3 Utilization of KVK funds during the year 2022

Sl. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	227.87385	227.87385	227.87385
2	Traveling allowances	3.000	3.000	3.000
3	HRD	0.800	0.800	0.800
4	**Contingencies**	19.000	19.000	19.000
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	6.6500	6.6500	6.6500
B	POL, repair of vehicles, tractor and equipments			
	Working Capital			
C	Meals/refreshment for trainees	12.3500	12.3500	12.3500
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			
TOTAL (A)		**250.67385**	**250.67385**	**250.67385**
B. Non-Recurring Contingencies				
1	Works (Repair and renovation of building)	1.000	1.000	1.000
2	Equipments including SWTL & Furniture	19.020	19.020	19.020
3	Vehicle (Four wheeler, please specify)			
4	Hydroponic			
5	Library	0.150	0.150	0.150
TOTAL (B)		**20.170**	**20.170**	**20.170**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**270.84385**	**270.84385**	**270.84385**

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)
1st April 2020-31st March 2021	1576	58166	0.00	59742
1st April 2021-31st March 2022	59742	61615.5	0.00	121357.5
1st April 2022-31st March 2023	121357.5	137562	0.00	258919.5

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above : NA

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

(a) **Administrative** : - Remoteness of the centre is the biggest hurdle for effective administration.

(b) **Financial** **:-** there is always delay in the release of salary and enhancement should be done year by year as there is timely increase in salary in the form of increment and dearness allowances. Under the head salary and allowance of the budget estimate, the allowance should be reflected properly and included in the budget as the staff are being deprived of this privilege till now. With regard to the travelling allowances and contingency, the budget allotted should be enhanced for effective functioning of the centre. New Pension Scheme should be implemented for the welfare of the KVK staffs and for this a uniform guidelines or directive should be given by the zonal Directorate.

(c) **Technical** **:-** 1) Mobility of technical staffs for official duties is of concern due to limited conveyance. 2) long duration vocational course cannot be conducted due to non availability of hostel facilities at KVK centre.

(**Ruokuovilie Mezhatsu**)
Principal Scientist & Head
Krishi Vigyan Kendra, Kohima