(April 2024 to March 2025)

KRISHI VIGYAN KENDRA, GANDERBAL, SKUAST-KASHMIR

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*	
Krishi Vigyan Kendra, Ganderbal, Shuhama, Alusteng-190 006	0194-2262490	0194-2462160	kvkganderbal@gmail.com

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

Address	*Telephone*		*E mail*
	Office	*Fax*	
Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar, Srinagar-190 025	0194-2462758	0194-2462160	skuastkvc@gmail.com

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

Name	*Telephone / Contact*		
	Residence	*Mobile*	*Email*
Dr. Ajaz Ahmad Malik	Lasjan, Srinagar	9622551856	kvkganderbal@gmail.com

1.4. Year of Sanction : 2002

1.5. Staff Position (as on 31st March 2024)

S. No.	Sanctioned post	Name of the incumbent	Age	Discipline with highest degree obt.	Pay Band & Grade Pay (Rs.)	Date of joining at present post	Permanent /Temporary	Contact Details	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator/ Sr. Scientist & Head	Dr. Ishfaq Abidi	48	Plant Genetics & Breeding (Ph.D.)	162300	23rd June 2022	Permanent	Mobile: 9149506695 Email: ishfaqabidi@gmail.com	Others
2	SMS	Dr. Rafiya Munshi	44	Home Science (Ph.D.)	162300	3rd February 2022	-do-	Mobile: 9419079922, 9149757219 Email: rafiataf16@gmail.com	-do-
3	SMS	Dr. Farooq Ahmad Ahanger	48	Plant Pathology (Ph.D.)	101100	1st September 2017	-do-	Mobile:9622412990 Email: ahanger123@gmail.com	-do-
4	SMS	Dr. Shaheen Farooq	45	Veterinary Microbiology (Ph.D.)	101100	4th February 2023	-do-	Mobile:9596399978 Email: shaheen_mvsc@yahoo.co.in	-do-
5	SMS	Dr. Suja Nabi Qureshi	47	Horticulture (Fruit Science) (Ph.D.)	87200	26th Dec. 2023	-do-	Mobile:7006097005 Email: sujaqureshi@ymail.com	-do-
6	SMS	Dr. Eajaz Ahmad Dar	36	Agronomy (Ph. D.)	75300	18 Aug. 2020	-do-	Mobile:6005173112 Email: darajaz9@gmail.com	-do-
7	SMS	Vacant	-	Soil Science	57700	-	-	-	-
8	Programme Assistant (Computer)/ T-4	Mr. Iqbal Ah. Koul	51	Computer (PGDCA)	64100	19th Dec. 2017	-do-	Mobile: 9906890550 Email: Iqbal.koul81@gmail.com	-do-
9	Programme Assistant (Lab Tech.) /T-4	Dr. Faiqa Syed	33	Fisheries	70900	15 Feb. 2022	-do-	faiqasyeed@gmail.com	-do-
10	Programme Assistant/ Farm Manager	Vacant	-	--	---	--	-	-	-
11	Assistant/ Accountant	Vacant	-	--	--	--	--	-	-
12	Jr. Stenographer	Vacant	-	--	--	--	--	-	-
13	Driver-1	Mr. Gulzar Ah. Ganaie	-	Driver	21700	Aug, 2024-	-	-	-
14	Driver-2	Mr. Mohd Asif Bhat		Driver	27100	Aug. 2024	-do-		-do-
15	Skilled Supporting staff-1	Mr. Manzoor Ahmad Bhat	50	Lab. Attendant	33000	29th July 2015	-do-		-do-

S. No.	Sanctioned post	Name of the incumbent	Age	Discipline with highest degree obt.	Pay Band & Grade Pay (Rs.)	Date of joining at present post	Permanent /Temporary	Contact Details	Category (SC/ST/ OBC/ Others)
16	Skilled Supporting staff-2	Vacant	-	-	14800	-	-	-	-

1.6. Total land with KVK (in ha) :

S.No.	Item	Area (ha)
1.	Horticulture Nursery	0.4
2.	Apple Orchard	0.6
3.	HDP Block of apple	0.15
4.	Ambri Apple Block	0.1
5.	Mother block of clonal rootstock	0.1
6.	Mother block of Grape, Kiwi, Cherry, Plum & Walnut.	0.3
Agricultural Crop		
6.	Wheat (Shalimar Wheat-2)	0.4
7.	Oats (SFO-3) / Pulses	5
8..	Maize (SFM-1)	1.25
9.	Oilseed (SS-3)	0.4
10.	Vegetables	0.1
11.	a). Uncultivable area (to be developed)	3.3
	b). Recently developed area	2.75
12.	Under Division of Vegetable Science, SKUAST-K	2.5
13.	Area Under Division of Fruit Science, SKUAST-K	2
Area under Buildings		**0.75**
	Total Land	**20.1**

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of Funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Exp. (Lakhs)	Starting Date	Plinth area (Sq.m)	Status of const.
1.	Administrative Building	ICAR	2007	250 sq. mts. (Build up area)	56.80	-	-	Complete
2.	Farmers Hostel	ICAR	2007	(305 sq. mts)	32.71	-	-	Complete
3.	Staff Quarters (4)	ICAR/ SKUAST			Incomplete			
4.	Demonstration Units 02	ICAR	2007	(160 sq. mts)	11.40	-	-	Complete
5	Fencing	ICAR	2007	20 ha	28.10	-	-	Complete
6	Rain Water harvesting system	ICAR	2007	-	10.0	-	-	Complete
7	Threshing floor	ICAR	Nil	-	-	-	-	-
8	Farm godown	ICAR	Nil	-	-	-	-	-
9	Vemi-composting unit.	ICAR	2017	138 sq mtr	4.7	-	-	Complete
10	Polyhouse/ Demo unit	ICAR	2018		5.0			Complete

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero (ZLX) Mahindra	2019	8,00,000	36677.00	Working
Motorcycle, Hero Passion	2011	49,250.00	35523.00	Working
Tractor, Mahindra Shaktiman	2011	5,70000.00	2861hrs	Working

C) Equipment's & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LCD Projector	2018	59,000.00	Working
Xerox Machine	2011	99996.00	Working
Plant grinder	2005	8857.00	**Not Working**
Spectrophotometer	2005	45900.00	Working
Fire extinguisher	2005	2890.00	Working
Hot Air Oven	2005	22924.00	Working
Balance single pan	2005	9778.00	**Not Working**
Juicer Mixer	2005	2596.00	**Not Working**
Chemical Balance	2005	100880.00	**Not Working**
Distillation stand	2005	9698.93	**Not Working**
Lab. Conductivity meter	2005	5960.00	Working
pH meter	2005	11302.00	Working
Hot plate	2005	3480.00	Working
Water distillation	2005	98885.00	Working
Flame photometer	2005	37630.00	**Not Working**
Shaker	2005	27360.00	Working
De-Ionizer	2005	14607.00	**Not Working**
Kjelplus nitrogen analysis system	2005	65111.00	**Not Working**
Brother Printer (MFC-9410CON)	2016	34,590.00	Working
Computer HCL (Desktop)	2007	40352.00	**Not Working**
Computer All in One (03 No.s)	2017	1,50,000.00	Working
Sony Camera (Digital)	2017	22,990.00	Working
Photocopier (Konica Minolta)	2019	100000.00	Working
Computer HP All in One (02 No.s)	2021	85400.00	Working
Computer Lenovo All in One (02 No.s)	2021	114842.00	Working
Chain Saw	2021	23500.00	Working
Computer HP All in One (02 No.s)	2022	100000.00	Working
Laptop i3 Lenovo	2022	50000.00	Working
Brother lazar Printer (02 No's)	2024	25000.00	Working

Main Agenda points which were raised by the members of SAC for which reply is to be submitted against each item

1.8. A). Details of 20th SAC meeting conducted in the year (25.05.2024)

S.No.	*Issue/Agenda*	*Decision*	Action to be taken by
1.	Timely sale of silage bales as per demand to dairy farmers to reduce dependency on imports from outside UT.	Silage bales to be disposed of well in time to the farmers & further popularization/promotion of silage to be done through print/social media.	• More than 3000 maize and oats silage bales (maize= >2000qt & oats= >1400 qt) were sold to the farmers • Booklet on ***"silage and its importance in livestock feeding"*** was prepared and around 200 copies were distributed among the farmers. • DDG-ICAR, ADG-ICAR & Dir. ATARI visited HI-Tech Silage unit and appreciated our efforts and envisaged that such unit should be established in all KVKs across the country. • Training programmes/ practical demonstrations were conducted for dairy and sheep farmers of the district regarding importance of silage feeding
2	Utilization of UMMB making machine available at Division of AGB (FVSc & AH) for making UMMBs for easy availability to farmers across the District.	letter of intent will be sent to Division of AGB for utilization of UMMB making machine by the KVK for mass production of UMMBs by the KVK in collaboration with the concerned division.	• The UMMB (Urea Molasses Mineral Block) machine was transferred to this Kendra by the Division of Animal Genetics and Breeding (AGB) • Awareness-cum-demonstration programmes were organized, targeting dairy farmers and sheep breeders, highlighting the impact of UMMBs on animal productivity. • UMMB are made available to the farmers at a nominal cost of Rs. 55 per kilogram block.
3	Preparation of broucher Horti-Poultry Model covering its entire Package of Practices, scope, economics & future projections for replication of this model throughout the District.	A brochure about Horti-Poultry Model to be prepared by the concerned Scientist (SMS Animal Science), which will cover all aspects of this model in a farmer friendly language.	• A brochure entitled ***"Horti-Poultry model-A potential income generation unit"*** was prepared and about 200 copies were distributed among the orchardists of the district. • Five (05) training programmes/ demonstrations were conducted on "Horti-Poultry model" for the unemployed rural youth of the district. • The model has been replicated at 10 villages of the district viz. Repora, Wayil wooder, Gutlibagh, Lar,

			Nunner, Patishalbugh, Bamloora, Rangil and Takinwari. • One success story has also been published on Horti-Poultry model established at Repora by this Kendra.
4	Standardisation of packaging of Value-Added Products being produced by the KVK, to meet the standards of market & cater to customer demands.	Packaging of Value-Added products being produced by the Kendra will be thoroughly improved by incorporating quality packaging materials & attractive labels, by concerned Scientist.	• White food grade boxex for Aloo Bukhara. • Vacuum packaging for dehydrated products and plum bars etc. • Long glass bottles for honey. • Spice sprinkler bottles for herbal seasoning with proper labelling for the value added products. • Food processing lab in Ganderbal has been equipped with two compactable packaging machines heat sealer and vaccume packager to ease the packaging of not only the value added products but also the other farm produce like seeds , vermicompost etc
5	Improving the quality of literature compiled by the KVK Scientists, so that the literature developed can be made available on e-platforms for easy access to interested readers.	Literature focussing on new & improved farming systems will be developed by KVK Scientists in line with international standards, for easy access by readers	**Action taken**
6	Training agripreneurs in bio fertilizer (especially *Trichoderma*) mass production for promotion of organic farming in the District.	Prospective entrepreneurs (selected through wide publicity by print/social media) will be trained at MRCFC, Khudwani/FoA, Wadura in mass production of *Trichoderma*& other bio-stimulants through concerned scientist (Scientist Plant Protection) in collaboration with Chief Agriculture Officer Ganderbal. Relevant scheme under HADP will be availed for the matter for development of complete value chain.	• One Week Advanced Entrepreneurship-cum- Skill Development Program (A-ESDP) on New Techniques for commercialization of Bio-control agents (*Trichoderma*) to promote organic agriculture" was organized under MSME on mass multiplication of biocontrol agents in which 25 participants were trained as agri-pruners. Further Department of agriculture Ganderbal has been communicated regarding any HADP Scheme for value chain. We are still waiting for reply.

Tentative estimated cost to sed biopesticide unit at farm level

S.No.	Item	Quantity	Cost /Rs	Amount (Rs)
1.	Laminar Flow (Local Made)	1	150000.00	150000.00
2.	Refrigerator	1	10000.00	10000.00
3.	Mixed Grinder	1	6000.00	6000.00
4.	Balance (Local Made)	1	1500.00	1500.00
5.	Iron racks	3	1000.00	3000.00
6.	Gas Cylinder + Stove	1	8000.00	8000.00
7.	Pressure cooker/ Small autoclave	1	8000.00	8000.00
8.	Auto-clavable bags	2000	6.50	13000.00
9.	Plastic trays	20	120.00	2400.00
10.	Non absorbent cotton	10	75.00	750.00
11.	Rubber bands	500 gm	100.00	100.00
12.	Spirit lamp	2	50.00	100.00
13.	Spirit	10 litres	150.00	1500.00
14.	Inoculation needle	2	100.00	200.00
15.	Carrier	1000 kg	20.00	20000.00
16.	Maize Grains	10 kg	35.00	350.00
17.	Rent for building for 12 months	1	3000.00	36000.00
18.	Fermenter	01	100000.00	100000.00
	Total			**360900.00**

Around 300 ltrs of *Trichoderma* will be produced in one year (6 months activity) amounting to Rs. 7,50,000/-

7	Collecting information regarding performance of Oilseed (SS-2) visa viz rapeseed in terms of maturity, yield, time of harvest & production across the District.	Data will be collected about performance of SS-2 & rapeseed across different clusters of the District to check the performance of the two varieties in terms of various parameters in collaboration with Chief Agriculture Officer Ganderbal.	Baseline survey was conducted at 5 cluters of the district the data collection and performance regarding maturity, yield and time of harvesting is shown below:

Performance of CFLD Oilseed in District Ganderbal

Name of Cluster village	Input distributed	Date of sowing	Date of harvest	Yield (q) In check	Yield (q) In demo	% increase over check
Buserbugh	2/10/2024	12/10/2024	18/05/2024	10.50	15.0	43.0
Watlar	3/10/2024	12/10/2024	14/05/2024	10.50	15.50	48.0
Bobsipora	3/10/2024	14/10/2024	16/05/2024	10.50	15.50	48.0
Wayil wuder	4/10/2024	14/10/2024	20/05/2024	10.50	14.00	33.0
Tullamulla	4/10/2024	18/10/2024	20/05/2024	10.50	14.45	38.0

Performance of Oilseed Model Village project in boosting oilseed production

Name of OMV	Input distributed	Date of sowing	Date of harvest	Yield (q) In check	Yield (q) In demo	% increase over check
Nuner	5/10/2024	10/10/2024	18/05/2024	10.50	15.0	43.0
Wayil	5/10/2024	08/10/2024	10/05/2024	10.50	15.0	43.0
Lar	6/10/2024	15/10/2024	20/05/2024	10.50	14.50	38.0
Kurhama	6/10/2024	15/10/2024	22/05/2024	10.50	14.50	38.0
Preng	7/10/2024	17/10/2024	15/05/2024	10.50	14.45	38.0

8	Popularization of millets across the district as a healthy alternative to cereals.	Rainfed areas across the District will be identified in collaboration with Chief Agriculture Officer Ganderbal, for millet cultivation & focus will be made on understanding production, yield, economics & B:C ratio in comparison to the traditional crops being grown.	Action taken, in this regard KVK Ganderbal organized various training programmes on popularization of millets across the district. **Millets Popularized:** 1.Foxtail Millet (Shol) 2.Proso Millet (Ping) 3. Buckwheat (Kuttu) 4. Amaranthus (Chaulai)
9	Use of polyhouses throughout the year in order to cater to more crops in a year & increase revenue generation.	Walnut rootstock will be planted in polybags & placed in polyhouses. After successful grafting, polybags will be removed & the polyhouse will be used for other crops.	• Round the year raising of walnut rootsotcks and grape plants in polyhouses. • Standardization of cropping pattern for round the year vegetable production under protected polyhouses.
10	Working out economics of various units at the KVK Farm for any improvement (if needed).	Economic analysis of all working units will be carried out including High Tech Nursery, Silage Making Unit, Horti-Poultry Unit & Dairy Unit & recommendations for improving B:C ratio will be incorporated.	• Economics of all the demonstration units related to animal science and all other units has been worked out (2024-25)

S.No.	Demonstration Unit	Gross Income (Rs. in lakhs)	Net Income (Rs. in lakhs)	BCR
1.	Dairy	5.50	3.00	1:1.75
2.	Poultry	0.50	0.26	1: 1.92
3.	Apairy	6.00	3.50	1:1.71
4.	Rootstock	0.90	0.49	1:1.83
5.	Grafted Planting Material	2.40	1.87	1:1.28
6.	Orchards	0.70	0.50	1:1.40

11	Circulation of literature at local level for increasing awareness among farmers.	The literature available at the KVK will be circulated at local levels (in panchayats & mosques) for adoption by farmers.	**Action taken:** Distributed literature during the training programme (On-campus and On-campus) to increase awareness among the farming community.
	Director Extension		
12	Collaboration with line departments regarding trainings to be conducted by the departments under HADP, which may be incorporated in the Annual Action Plan by the KVK.	Officers of Line Departments will be contacted about all the anticipated trainings to be conducted by them, which will be incorporated in the Action Plan of KVK for maximum benefit to farmers.	**Action taken:** Various training programme were undertaken in Collaboration with Line departments like Horticulture, Agriculture, Animal Science etc. under HADP by KVK Ganderbal during the year 2024-25
13	Popularization of protected cultivation of Grape, which can prove to be a promising & remunerative crop for the farmers.	Training cum awareness programmes will be conducted across the District for protected cultivation of Grape (especially Red Globe & Kyoho) for improving farmers income in collaboration with CITH.	➢ Grape var. Sahebi cuttings treated with IBA (2000 ppm) were planted in April month both in poly house aw well as in open conditions ➢ Polyhouse cuttings recorded 95% sprouting rate higher than open field conditions revealed 25% sprouting rate only. ➢ Polyhouse practice of raising rooted grape plant is 1 year advance when compared to open field conditions

Economics of Grape protected cultivation (60x 12 ft dimensions polyhouse)

Input used	Cost (in Rs. per cutting)	Total cost Rs	Gross Rs 150/RG	NeT	BCR
Cuttings **30 cm long with 3-4 Buds**	Rs. 10 / cuttings (350 cuttings)	3500	52500	36000	1:1.45
Input cost	13000	13000			
Total	**13000**	**16500**	**52500**	**36000**	

2. DETAILS OF DISTRICT (2024-25)

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

S. No	Farming system/enterprise
1	Horticulture+Agriculture.
2	Agriculture+ Horticulture+Animal Husbandry
3	Animal Husbandry + Agriculture.

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

S. No	Agro-climatic Zone	Characteristics
Western Himalayan region-1		
01.	Higher belt – semi arid zone (Sonamarg and Kulan)	Rocky soil, above 5200 ft ASL
02.	Mid belt – Temperate, mostly rain fed (Kangan and foot hills of Ganderbal)	Clay loam / sandy soil, above 4900-4975 ft ASL
03.	Lower belt – Temperate mostly irrigated (Ganderbal and some areas of Kangan)	Silty loam / Clay loam soil, above 4800 ft ASL

2.3 Soil type/s

S. No	Soil type	Characteristics
01.	Silty clay loam Order: Alfisol	>50% silt Medium to light in color significant clay accumulation

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

S. No	Crop	Area (ha)	Production (MT)	Productivity (MT ha^{-1})
01.	Fresh fruits	9720	105686	10.8
02.	Dry Fruits	5272	16156	3.06
03.	Rice	7746	43377	5.6
04.	Maize	3357	9735	2.9
05.	Wheat	23	57.5	2.5
06.	Oilseed	1745	1396	0.8
07.	Vegetable	2593	27486	10.6
08.	Pulses	1304	2347	1.8
09.	Fodder (Oats)	3809	43042	11.3

2.5. Weather data (April 2024 to March 2025)

Month	Rainfall(mm)	Temperature ºC		Relative Humidity (%)
		Maximum.	Minimum	
April 2024	270.00	24.00	01.00	74.43
May 2024	32.20	33.00	3.00	62.95
June 2024	33.80	33.50	07.50	64.56
July 2024	11.20	36.00	11.50	59.40
Aug.2024	159.20	35.00	12.50	72.77
Sept.2024	7.50	33.00	8.40	71.28
Oct.2024	4.00	30.00	1.40	68.70
Nov.2024	7.00	25.00	-5.50	80.00
Dec.2024	39.50	13.50	-9.50	83.50
Jan. 2025	21.90	15.00	-6.00	81.30
Feb.2025	65.40	18.50	-4.50	71.57
March 2025	96.50	23.00	-0.50	68.96

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

Category	Population	Production	Productivity
Cattle:			
Crossbred	57411	Milk = 13.66 thousand tonnes/annum	Milk = 6-7 ltr/day/cow
Indigenous	22524		
Buffalo	385		
Sheep			
Crossbred	125000	Mutton =951000Kg Wool = 275000 Kg	Mutton =9-11Kg/sheep Wool = 2-3 Kg/sheep
Indigenous	26000		
Goats	30000		
Pigs			
Crossbred			
Indigenous			
Rabbits	3000		
Poultry			
Hens			
Desi	123000	Egg = 14330000/annum	Egg = 70-80 egg/bird/year
Improved	413337		
Ducks	147497		
Turkey and others	5832		
Horses & Ponies	3726		
Mules	29		

Category	Area	Production	Productivity
Fish		161103	

2.7 Details of Operational area / Villages (2024-25)

S. No	Taluk	Name of the Block	Name of the village	Major crops and enterprises	Major problems identified	Identified thrust areas
1.	Ganderbal	Ganderbal	Gotlibagh/ Bela-Wusan/ Nuner/ Shuhama/ Bakura/ Khalmulla/ Warpoh/ Buserbugh	Rice/Maize/ Pulses/ apple/walnut/ cherry/ Plum/ Pear and Livestock (Sheep, Poultry, Cattle).	➢ Low production of fruits, cereals and pulse crops. ➢ Low production of meat in sheep and milk in cattle. ➢ Unscientific management of field crops and fruit orchards in general and fruit cracking, fruit fly and rodent problem of cherry in particular. ➢ Lack of quality seed of cereal crops and planting material of fruit crops. ➢ Non-diversification of fruit crops ➢ Malnutrition in women and children. ➢ Un-employment among rural youth. ➢ Poor Socio-economic status of women. ➢ Lack of knowledge regarding natural resource management ➢ Rodent problems in fruit orchards.	❖ Introduction of high yielding varieties of cereals, pulses and quality planting material of fruit crops. ❖ Management of orchards scientifically. ❖ Integrated Farming System for doubling farmers income. ❖ Improved propagation techniques in cherry crop. ❖ Management of dairy animals (health and nutrition). ❖ Women empowerment through skill and entrepreneurship development. ❖ Demonstration regarding SRI system of rice cultivation and vermicomposting technology for resource management. ❖ Demonstration on management of rodents. ❖ Demonstration of walnut dehuller and its availability during the season on cooperative basis. ❖ Backyard Poultry Rearing among rural women.

2.	Ganderbal	Sherpathri	Rabitar/ Sendbal/ Shalbugh/ Sehpora/ Patti-shallabugh/ Harran	Rice/Oats/ Oilseed/ vegetables/ Agro-forestry/ Willow Wicker and Livestock (Sheep/Poultry/Cattle).	➢ Low production of Ceraels, Pulses, Oats and Oilseed. ➢ Powdery mildew, brown spot, sheath blight, Rice blast and Mustard Aphid. ➢ Malnutrition in women and children. ➢ Unawareness about soil testing. ➢ Soil borne diseases in crops. ➢ Low production of meat in sheep and milk in cattle. ➢ Non-availability of quality seed of crops. ➢ Unemployment among youth.	❖ Integrated Diseases Management. ❖ Introduction of high yielding varieties of Rice, Pulses, Oats and Oilseed. ❖ Women and child care through introduction of low/ minimum and high nutrient diets in children. ❖ Soil testing for nutrient recommendation. ❖ Awareness of IDM of soil borne diseases. ❖ Willow wickering on modern basis. ❖ Women empowerment through skill and entrepreneurship development. Management of dairy animals (health and nutrition). ❖ Strategies for organic vegetable production. ❖ Soil test based nutrient management for better vegetable production ❖ Seed production of vegetables.
3.	Ganderbal	Kangan/Gund	Yarmuqam/ Satrina/ Haknar/ Kachnambal/ Anderwan/ Wangath/ Surfraw/ Ganiwan	Apple/Walnut/ Cherry/ Maize/Pulses/ Oilseed/ Livestock (Sheep/Poultry/ Cattle).	➢ Low production in cereals due to in-adequate nutrient management. ➢ Low production in apple due to faulty training and pruning. ➢ Mono-cropping system in crops. ➢ Diseases like rice blast and tercicum blight in maize. ➢ Lack of quality seed of cereal crops and planting material of fruit crops. ➢ Shortage of fodder during winter. ➢ Malnutrition in women and children. ➢ Unemployment among youth. ➢ Poor Socio-economic status of women. ➢ Improper housing system caused reduce body growth rate and increased	❖ Introduction of high yielding varieties of Ceraels particularly Maize. ❖ Strategies for enhancement of fruit production with proper package of practices. ❖ Introduction of high yielding Pulse varieties and Oilseed. ❖ Women empowerment through Backyard Poultry rearing. ❖ Management of shot hole disease in cherry. ❖ Management of dairy animals (health and nutrition). ❖ Introduction of Oats and fodder maize as source of fodder.

					mortality due to heat (high temp &RH) & cold stress (hailstorm& frost)	❖ Enhancing the nutritional value of fodder through Urea molasses treatment.
4.	Ganderbal	Wakura/Safapora	Ahan/ Wakura/ Zazuna/ Batwina/ Yangoora/ Kurhama/ Safapora/ Gozihama	Apple/ Vegetables/ Rice/ Pulses/ Floriculture/ Oilseed/ Sheep	➢ Low production of Ceraels, Pulses, Oats and Oilseed due to Non-availability of quality seed. ➢ Excessive use of fertilizers. ➢ Lack of knowhow about IDM in vegetable crops. ➢ Poor orchard management with respect to training and pruning and Nutrient management. ➢ Non-diversification of fruit crops. ➢ Unawareness about soil testing and nutrient recommendation. ➢ Non-availability of quality seed of high yielding improved varieties of vegetable crops and pulses. ➢ Non-adoption of package of practice for HYV. ➢ Downy mildew, calyx end rot and root rot of cucurbitaceous crops. ➢ Many juvenile orchards established with fallow interplant and interrow spaces ➢ Lack of awareness regarding intercropping in apple orchards ➢ Less availability of vegetable crops ➢ No other sources of income till plants bear fruits	❖ Introduction of high yielding varieties of Cereals, Pulses, Oilseed. ❖ Pre and Post-harvest Management of orchards. ❖ Integrated Farming System for doubling farmers income. ❖ Soil testing and sampling for nutrient recommendation. ❖ Scientific Training and Pruning of fruit crops particularly apple. ❖ Awareness and demonstrations regarding canker, root rot and other diseases in fruit and vegetable crops. ❖ Feed and fodder management for sheep and cattle for better renumeration. ❖ Management of sheep and dairy animals (health and nutrition). ❖ Introduction of Oats and fodder maize as source of fodder. ❖ Intercropping of vegetables with vegetables. ❖ Introduction of SKUAST-K released vegetable varieties. ❖ Awareness regarding SKUAST-K recommended package of practices of vegetable crops.
5.	Ganderbal	Lar	Repora/ QasbaLar/ Waliwar/ Larsun/ Wandhama/	Grapes/ Apple/ Vegetables/ Rice/ Maize/ Pulses/ Oilseed/ Oats/	➢ Anthracnose and powdery mildew of grapes. ➢ Hen and chicken disorder and berry cracking in grapes. ➢ Faulty Training and pruning in Grapes & Apple.	❖ Production and management technology for production high quality grapes. ❖ Foliar nutrient application to overcome micronutrient deficiencies.

			Manigam/ Watalbagh/	Livestock (Sheep/Poultry/Cattle).	➢ Lack of knowledge about protected cultivation of off-season vegetables. ➢ Lack of knowledge on kitchen gardening and processing of fruits and vegetables ➢ Unawareness of adverse climate adaptive technologies. ➢ Non-availability of quality seed of cereals, Pulses and vegetables. ➢ Unemployment among rural youth. ➢ Foot rot and other problems related to sheep.	❖ Scientific Training and Pruning in Grapes and Apple. ❖ Popularization of new SKUAST-K released varieties in Rice, Oilseed, Pulses & vegetables. ❖ Introduction of IDM & IPM strategies to manage grape diseases and insect pests. ❖ Women empowerment through skill development trainings. ❖ Introduction of floriculture and cultivation of medicinal plants as income generation.

2.8 Priority/ thrust areas

Discipline	Thrust area
Agronomy	1. Enhancement of seed replacement rate in case of Cereals, Pulses, Oilseeds and Oats with high yielding varieties of SKUAST-K. 2. Irrigation management and scheduling in cereal crops with special reference to System of Rice Intensification (SRI). 3. Integrated Farming System approach for doubling farmers income. 4. Double cropping in maize based cropping system. 5. Cultivation of crops as per the recommended package of practices.
Horticulture	1. Orchard management strategies for improvement in growth, yield and productivity of temperate fruits. 2. Production of quality planting material of elite regular bearing fruit cultivars 3. Fruit diversification. 4. Production technology management for quality grape production. 5. Shifting to HDP for enhanced productivity in apple. 6. Pollination management and pollinizer diversification in apple. 7. Walnut propagation technology & production. 8. Scientific training and pruning of temperate fruits. 9. Production technology of cut flowers and bulbous flowers. 10. Post-harvest management & marketing of cut flowers. 11. Production technology for temperate vegetable crops 12. Seed production of vegetable crops 13. Protected cultivation for year round cultivation of vegetable. 14. Revival of traditional vegetables 15. Exotic/ High value vegetables for nutritional security and income generation 16. Thrust on area and altitude specific vegetable cultivation. 17. Management of physiological/horticultural problems of fruit crops
Soil Science	1. Soil test based nutrient management. 2. Organic farming & vermicomposting. 3. Integrated Nutrient Management. 4. Use of bio-fertilizers particularly in pulses. 5. Micro-nutrient deficiency and disorders.
Plant Protection	1. Production technology and management for quality grape production. 2. Quality apple fruit production through IDM. 3. Integrated approach in plant disease management. 4. Popularization of pesticide spray schedule. 5. Disease and insect pest management of honey bees. 6. Integrated Pest and Disease Management of apple and Rice. 7. Integrated disease management of vegetable crops. 8. Mushroom cultivation as an enterprise for Self-employment of Rural youth. 9. Apiculture technology demonstration and adoption.
Home Science	1. Women development and child care. 2. Value addition of fruits and vegetables.

	3. Entrepreneurship development as income generating activities. 4. Formation and management of Self-Help Groups (SHGs) & FPO's.
Animal Science	1. Dairying and dairy management. 2. Disease and feed management of livestock. 3. Production and popularization of backyard poultry as income generating unit. 4. Sheep rearing as an enterprise. 5. Horti-Poultry model.

3: TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities

OFT				FLD			
1				2			
Number of OFTs		*Number of farmers*		*Number of FLDs*		*Number of farmers*	
Targets	***Achievement***	***Targets***	***Achievement***	***Targets***	***Achievement***	***Targets***	***Achievement***
6	6			215	215	250	250

3.A.1 FLDs Conducted under CFLDs on Oilseed

FLD (Oilseeds)			
Number of FLDs		**Number of Farmers**	
Targets	**Achievement**	**Targets**	**Achievement**
62.50	62.50	625	625

3.A.2 FLDs Conducted under CFLDs on Pulses

FLD (Pulses)			
Number of FLDs		**Number of Farmers**	
Targets	**Achievement**	**Targets**	**Achievement**
-	-	-	-

Training				Extension Programmes			
3				4			
Number of Courses		*Number of Participants*		*Number of Programmes*		*Number of participants*	
Targets	***Achievement***	***Targets***	***Achievement***	***Targets***	***Achievement***	***Targets***	***Achievement***
Farmers	85	--	2586		474		5052
Rural youth	21	--	958				
Ext. Funct.	--	--	--				
Total	**106**		**3544**		**474**		**5052**

Sponsored and Skill Development Trainings for Rural Youth			
Sponsored Training Programmes		***Skill Development Trainings***	
No. of Trainings	***Total participants***	***No. of Trainings***	***Total Participants***
15	**762**	**07**	**244**

Sale of ornamental crops/ Jam/ Jelly, Aloo Bhukara, Masala Tikki, Pickles/ Plum Bar		Planting materials (Nos.)	
5		6	
Target	***Achievement***	***Target***	***Achievement***
--	Rs. 19,330/-	Sale of quality planting material (Different fruit crops, rootstock, seedlings etc.)	Rs. 2,35,000/-

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	***Achievement***	***Target***	***Achievement***
--	Rs. 13000.00	Milk	Rs. 375000.00
Sale of Hony	Rs. 6,00,000.00		

3.B. Abstract of interventions undertaken

S. No	*Thrust area*	*Crop/ Enterprise*	*Identified Problem*	*Interventions*										
				Title of OFT if any	*Title of FLD if any*	*Number of Training (farmers)*	*Number of Training (Youths)*	*Number of Training (extension personnel)*	*Extension activities (No.)*	*Supply of seeds (Qtl.)*	*Supply of planting materials (No.)*	*Supply of livestock (No.)*	*Supply of bio products*	
													No.	*Kg*
1		Chilli	Drooping and wilting	Integrated disease managementof chilli wilt	-	2	1	-	4	-	-	-	-	-
2		Dhingri Mushroom	Lack of knowledge about production technology	Production technology of dingri mushroom cultivation	--	1	2	--	5	-	-	-	-	-
3		Apple (var. Red Gala/ M9)	Lack of knowledge of training systems in High Density Apple Orchard	Spindle system of training in Red Gala on M9 rootstocks	--	3	2	--	7	-	-	-	-	-
4		Grapes (Sahebi)	Short berry low marketable yield	Assessment of foliar nutrient sprays for management of hen & chicken disorder of graps	--	4	1	--	9	-	-	-	-	-
5.		Herbs (Oregano, Thyme, Rose, rosmary Basil)	Lack of value addition of herbs	Assessment and acceptability of different herbs and its incorporation in food products.	--	--	3	--	4	--	--	--	--	--
6.		Cattle	Low milk production during winters	Effect of feeding winter chocolate on production performance of dary cattle	-	04	02	-	11	-	-	600 winter chocolates to 10 house holds	-	-
7.		Poultry	Low production of layers during short day period	Effect of additional light hours on the production performance of layer chickens	-	05	03	-	12	-	-	300 chicks (1 month old)		

3.1 Achievements on technologies assessed and refined

A.1. Abstract on 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*
Integrated Nutrient Management	-	-	-	-	-	01	-	-	-	**01**
Varietal Evaluation	-	-	-	-	-	-	-	-	-	**-**
Integrated Pest Management	-	-	-	-	-	-	-	-	-	**-**
Integrated Crop Management	-	-	-	-	-	-	-	-	-	**-**
Integrated Disease Management	-	--	-	-	01	-	-	-	-	**01**
Small Scale Income Generation Enterprises	-	-	-	-	-	-	-	-	-	**-**
Weed Management	-	-	-	-	-	-	-	-	-	**-**
Resource Conservation Technology	-	-	-	-	-	-	-	-	-	**-**
Farm Machineries	-	-	-	-	-	-	-	-	-	**-**
Integrated Farming System	-	-	-	-	-	-	-	-	-	**-**
Seed / Plant production	01	-	-	-	-	01	-	-	--	**02**
Value addition	-	-	-	-	-	-	01	-	-	**01**
Drudgery Reduction	-	-	-	-	-	-	-	-	-	**-**
Storage Technique	-	-	-	-	-	-	-	-	-	**-**
Mushroom cultivation				01						**01**
Others	-	-	-	-	-	-	-	-	-	**-**
Total	**01**	**--**	**-**	**01**	**01**	**02**	**01**	**-**	**-**	**06**

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	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	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	--	--	-	-	-	-	-	--
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	**--**	**--**	-	-	-	-	-	**--**

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	01	01	-	-	-	-	-	**02**
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	**01**	**01**	-	-	-	-	-	**02**

3.2. Achievements on technologies Assessed and Refined

3.2.1. Technologies Assessed under various Crops

Thematic areas	*Crop*	*Name of the technology assessed*	*No. of trials*	*Number of farmers*	*Area in ha (Per trail covering all the Technological Options)*
Integrated Nutrient Management	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-
	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
Integrated Disease Management	Chilli	Integrated disease management of chilli wilt	3	3	0.02
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	Rice	Alternative herbicides for weed control in rice	3	3	0.30
	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	Mushroom	-	3	3	-
	-	-	-	-	-
Total	-	-	**09**	**09**	**0.32**

3.2.2. Technologies Refined under various Crops

Thematic areas	*Crop*	*Name of the technology assessed*	*No. of trials*	*Number of farmers*	*Area in ha (Per trail covering all the Technological Options)*
Integrated Nutrient Management	Grapes	Assessment of foliar nutrient sprays for management of hen & chicken disorder of grapes	3	3	0.025
	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	Brown Sarson	Application of Sulphur and Born on oil content and yield of Brown Sarson	3	3	0.15
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	-	-	-	-	-
	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Total	-	-	**06**	**06**	**0.175**

3.2.3. Technologies assessed under Livestock and other enterprises

Thematic areas	*Name of the livestock enterprise*	*Name of the technology assessed*	*No. of trials*	*No. of farmers*
Evaluation of breeds	-	-	-	-
Nutrition management				
Disease management	-	-	-	-
Value addition	-	-	-	-
Production and management				
Feed and fodder	-	-	-	-
Small scale income generating enterprises				
Total				

3.2.4. Technologies Refined under Livestock and other enterprises

Thematic areas	*Name of the livestock enterprise*	*Name of the technology assessed*	*No. of trials*	*No. of farmers*
Evaluation of breeds	-	-	-	-
Nutrition management	Cattle	Effect of feeding winter chocolate on production performance of dairy cattle	10	10
Disease management	-	-	-	-
Value addition	-	-	-	-
Production and management	Poultry	Effect of additional light hours on the production performance of layer chickens	30	30
Feed and fodder	-	-	-	-
Small scale income generating enterprises				
Total	**-**	**-**	**40**	**40**

B. Details of each On Farm Trial to be furnished in the following format

A. Technology Assessment

Trial 1

1)	**Title**:	**Integrated disease management of chilli wilt**
2)	Problem diagnose/defined :	Drooping and wilting
3)	Details of technologies selected for assessment/ refinement :	**T0**: Farmer' practice (No treatment) **T1**=Controlled irrigation+ridge sowing+Seed treatment+Seedling dip+Soil drenching with biocontrol agent (Trichoderma spp.@2x108 cfu ml-1) **T2**:Seed treatment +soil drenching with carbendazim+mancozeb 75wp@0.3%
4)	Source of technology:	SKUAST-Kashmir.
5)	Production system thematic area:	Irrigated and disease management under plant protection
6)	Thematic area:	Integrated Disease Management
7)	Performance of the Technology with performance indicators:	Results enclosed
8)	Final recommendation for micro level situation:	Seed treatment with *Trichoderma* + Soil application with FYM impregnated with trichoderma + seedling dip in Trichoderma + raised bed sowing + controlled irrigation.
9)	Constraints identified and feedback for research:	Big agents are not easily available at farmers level
10)	Process of farmers participation and their reaction:	Farmers reported seed treated, raised be sowing controlled irrigation and crop rotation have crucial role in managing chilli wilt complex

B). **Results of On Farm Trials**

Crop/ enterprise	***Farming situation***	***Problem Diagnosed***	***Title of OFT***	***No. of trials***	***Technology Assessed***	***Parameters***	***Data on the parameter***	***Results of refinement***	***Feedback from the farmer***
1	2	3	4	5	6	7	8	9	10
Chilli	Irrigated	Drooping and wilting	Integrated disease management of chilli wilt	05	**T0**: Farmer' practice (No treatment) **T1**=Controlled irrigation+ridge sowing+Seed treatment+Seedling dip+Soil drenching with biocontrol agent (*Trichoderma* spp.@2x108 cfu ml^{-1}) **T2**:Seed treatment +soil drenching with carbendazim+mancozeb 75wp@0.3%	%disease control over check	**T0:** Disease Incidance= 30% Disease Severity =17.66 **T1:** Disease Incidance= 12.66% Disease Severity = 4.33 **T2:** Disease Incidance =15.99% Disease Severity = 6.33	Disease status was reduced in T1 compared to T2 using fungicides only	Farmers preferred T1 which showed good control over check, but if the bioagent be available at farmers level

B. Table-1

Technology Assessed	**Production per unit (q/ ha) (Productivity)**	**Potamogeton control %**	**Net Return (Rs.)**
11	**12**	**13**	**14**
T0: Farmer' practice (No treatment)	12.50	88900.00	43900.00
T1: Controlled irrigation+ridge sowing+Seed treatment+Seedling dip+Soil drenching with biocontrol agent (Trichoderma spp.@2x108 cfu ml-1)	14.00	100800.00	55800.00
T2: Seed treatment +soil drenching with carbendazim+mancozeb 75wp@0.3%	13.60	99150.00	54150.00

Trial 2:

1)	Title:	**Production technology of Oyester mushroom cultivation**
2)	Problem diagnose/defined :	Lack of knowledge regarding oyster mushroom cultivation
3)	Details of technologies selected for assessment /refinement	T0: Farmers practice (un-scientific cultivation of oyster mushroom cultivation) T1: Use of paddy straw as substrate for cultivation of oyster mushroom cultivation. T2: use of fallen tree leaves as a substrate for cultivation of oyster mushroom
4)	Source of technology:	SKUAST-Kashmir.
5)	Production system thematic area	Irrigated
6)	Thematic area	IDM
7)	Performance of the Technology with performance indicators:	T1 and T2 proved to be the best substrate in production of oyster mushroom cultivation.
8)	Final recommendation for micro level situation	Paddy straw be the best substrate for profitable cultivation of oyester mushroom
9)	Constraints identified and feedback for research:	As per feedback received from the farmers that if oyster spawn be available at farmers level, the cultivation of oyseter mushroom cultivation is easy to cultivate than other mushrooms.
10)	Process of farmers participation and their reaction:	Satisfactory

B**). Results of On Farm Trials**

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology refined	Parameters on refinement	Data on the parameter	Results of refinement	Feedback from the farmer	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11
Mushroom	Un-Irrigated	Lack of knowledge about production technology	Production technology of oyster mushroom cultivation	03	T0: Farmer's practice un-scientific cultivation of oyester mushroom T1: Use of paddy straw as substrate for cultivation of oyester mushroom T2:Use of fallen tree leaves as substrate for cultivation of oyster mushroom	Yield and net returns	1.7kgs/bag/3 flushes 2.8kg/bag kg/bag with 4 flushes 2.2kgs/bag with 3 flushes	The production was high in scientific production technology of oyester mushrooms and in using only paddy straw as substrate and was more than using leaf litter as substrate (T2)	Farmers preferred T1 treatment provided spawn is available at farmers level as it is easy to cultivate than other mushrooms	As an income generation unit it is the viable option for sustainable agriculture, recycling of agri-waste and entrepreneurship development

Table:

Treatments	Production per unit (Kgs/ bag) (Productivity)	Production in Kgs/20 bags	Gross cost	Net Return (Rs.)	BC ration
11	12		13	14	15
	Average				
T0: Farmers practice (un-scientific cultivation of oyster mushroom cultivation)	1.7	40	5100	3350	2.9
T1: Use of paddy straw as substrate for cultivation of oyster mushroom cultivation.	2.8	56	8400	6650	4.8
T2: Use of Fallen leaves as substrate for cultivation of oyster mushroom cultivation	2.2	44	6600	4850	3.7

Trial 3

1)	Title:	**Assessment of foliar nutrient sprays for management of hen & chicken disorder of grapes**
2)	Problem diagnose/defined :	Short berry low marketable yield
3)	Details of technologies selected for assessment /refinement :	**T1**: Farmer's practice **T2**: Three sprays of Boric acid @1.5g/ltr at bud swell stage, after petal fall and 21 days after second spray **T3**: Three sprays of GA_3 @40ppm at a) Pre bloom b) after petal fall and c) 21 days after second spray
4)	Source of technology:	SKUAST-Kashmir
5)	Production system thematic area:	Increase quality productin of grapes in poter tial bells
6)	Thematic area:	Grape production practices
7)	Performance of the Technology with performance indicators:	Treatment Boric acid and GA 40 ppm (1.5 g/ liter) pf water sprayed at 3 stages increased grape yield.
8)	Final recommendation for micro level situation:	Foliar spray of GA-3 and boric acid at Bud swell, petal relal and 21 days after second spray is ..... showing more significant results.
9)	Constraints identified and feedback for research:	Gibrellic acid advantage
10)	Process of farmers participation and their reaction:	Adoption practice is increasing and farmers are participating in awareness camps and demand trial should be taken at their fields also.

B) **Results of On Farm Trials**

Crop/ Enterprise	Farming Situation	Problem Diagnosed	Title of OFT	No. of Trials	Technology Assesses	Parameters of Assessment	Data on the Parameters & Results of Assessment	Feedback from the Farmer
Rice		Short berry low marketable yield	Assessment of foliar nutrient sprays for management of hen & chicken disorder of grapes	3	**T1**: Farmer's practice **T2**(R): Three sprays of Boric acid @1.5g/ltr at bud swell stage, after petal fall and 21 days after second spray **T3**: Three sprays of GA_3 @40ppm at a) Pre bloom b) after petal fall and c) 21 days after second spray	Yield, gross return and B.C. ratio	**Table**-1	treatment proved to be the best treatment compared to control(T1) for management of grape disorder and production was significantly increased in Treated vine yards and with the visible results acheived through recomended technolgy of SKUAST-K

Technology Assessed	**Production per unit (q/ ha)**	**Net Return (Rs.)**	**BC Ratio**
11	**12**	**13**	**14**
T1:Farmer practice	45.00	90,000.00	1.50
T2(R): Three sprays of Boric acid @1.5g/ltr at bud swell stage, after petal fall and 21 days after second spray	72.00	1,44,000.00	1.78
T3: Three sprays of GA_3 @40ppm at a) Pre bloom b) after petal fall and c) 21 days after second spray	79.00	1,58,000.00	1.79

Trial 4: Assessment and acceptability of different herbs and its incorporation in food products

1)	**Title**:	Assessment and acceptability of different herbs and its incorporation in food products
2)	Problem diagnose/defined :	Lack of value addition of herbs
3)	Details of technologies selected for assessment /refinement :	T1: Mixed herbal products T2: Addition in already developed products
4)	Source of technology:	SKUAST-Kashmir
5)	Production system thematic area:	_
6)	Thematic area:	PHT
7)	Performance of the Technology with performance indicators:	The powdered herbs were incorporated for making of herbal seasonings.((T1)
8)	Final recommendation for micro level situation:	Herbs like oregano ‘ thyme.mint ‘corriender seeds and Garlic powder can be mixed with chili flakes and salt to add flavour and aroma to be used as a sprinkler.
9)	Constraints identified and feedback for research:	Less cultivation of culinary herbs
10)	Process of farmers participation and their reaction:	Farm women was satisfied with the results and planning to incorporated herbs in other culinary products.

B) Results of On Farm Trials

Crop/ Enterprise	Farming Situation	Problem Diagnosed	Title of OFT	No. of Trials	Technology Assesses	Parameters of Assessment	Data on the Parameters & Results of Assessment	Feedback from the Farmer
1	2	3	4	5	6	7	8	9
Herbs (Oregano Thyme, Rose rosemary Basil)		Lack of value addition of herbs	Assessment and acceptability of different herbs and its incorporation in food products	3	T1: Mixed herbal products T2: Addition in already developed products	Adaptability Consumer preference through sensory analysis	Product on T1 developed Sensory assessment to be done (trail was started in November 2024)	**Till date satisfied**

Technology Assessed	**Production per unit (q/ ha)**	**Potamogeton control %**	**Net Return (Rs.)**
10	**11**	**12**	**13**
T1: Mixed herbal products	**-**	**-**	**-**
T2: Addition in already developed products	**Next year**		

B. **Technology Refinement**

Trial 1: Effect of feeding winter chocolate on production performance of dairy cattle

1)	**Title**:	Effect of feeding winter chocolate on production performance of dairy cattle
2)	Problem diagnose/defined :	Low milk production during winter
3)	Details of technologies selected for assessment /refinement :	T0: Farmer practice T1: Feeding winter chocolate daily for 2 months
4)	Source of technology:	SKUAST-Kashmir
5)	Production system thematic area:	Milk Yield Milk composition
6)	Thematic area:	Nutritional Management
7)	Performance of the Technology with performance indicators:	Milk Yield B:C Ratio
8)	Final recommendation for micro level situation:	Farmers reported enhanced milk production and reproductive performance during winters.
9)	Constraints identified and feedback for research:	Shelf life of winter chocolates is short due to fungal spoilage
10)	Process of farmers participation and their reaction:	Highly satisfied

B) Results of On Farm Trials

Crop/ enterprise	*Farming situation*	*Problem Diagnosed*	*Title of OFT*	*No. of trials*	**Technology Assessed**	*Parameters*	*Data on the parameter*	*Results of refinement*	*Feedback from the farmer*
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Cattle	---	Low milk production during winters	Effect of feeding winter chocolate on production performance of dairy cattle	10	T0: Farmer practice T1: Feeding winter chocolate daily for 2 months (December, & January)	Milk Yield Milk composition	Table below	Table Below	Farmers reported enhanced milk production and reproductive performance during winters

Technology Assessed	**Breed**	**Average milk yield/ cow/day**	**B.C Ratio**
11	**12**	**13**	**14**
T1: Farmers practice (without feeding winter chocolates)	1. H.F. (Crossbred) 2. Jersey (Crossbred)	16.50 10.50	-- --
T1: Feeding winter chocolate daily for 2 months	1. H.F. (Crossbred) 2. Jersey (Crossbred)	18.75 11.75	**12.00** **10.63**

Trial 2: Effect of additional light hours on the production performance of layer chickens

1)	Title:	Effect of additional light hours on the production performance of layer chickens
2)	Problem diagnose/defined :	Low production of layers during short day period
3)	Details of technologies selected for assessment /refinement :	T0: Natural light hours T1: 2-3 additional light hours morning and evening for 3 months
4)	Source of technology:	SKUAST-Kashmir
5)	Thematic area:	Production system
6)	Performance of the Technology with performance indicators:	Satisfactory
7)	Final recommendation for micro level situation:	Recommended 16 hours of light (Natural + Artificial) for optimum egg production.
8)	Constraints identified and feedback for research:	Frequent floations in power supply & power break during winters.
9)	Process of farmers participation and their reaction:	Satisfied about learning the effect of light on egg producotion

B) Results of On Farm Trials

Crop/ enterprise	*Farming situation*	*Problem Diagnosed*	*Title of OFT*	*No. of trials*	**Technology Assessed**	*Parameters*	*Data on the parameter*	*Results of refinement*	*Feedback from the farmer*
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Poultry	--	Low production of layers during short day period	Effect of additional light hours on the production performance of layer chickens	30	T0: Natural light hours T1: 2-3 additional light hours morning and evening for 3 months	Egg production Egg size	Table-1	Table-1	Satisfied about learning the effect of light on egg producotion

Technology Assessed	**% Hens in lay**	**Average egg weight (Unit)**	**HPEP (%)**
11	12	13	14
T0: Farmers practice (Natural light hours)	45%	51.20 g	35.50%
T1: 2-3 additional light hours morning and evening for 3 months	75%	53.20 g	58.30%

PART 4 - FRONTLINE DEMONSTRATIONS

4.A. Summary of FLDs implemented during 2024-25

S. No.	*Category*	*Farming Situation*	*Season and Year*	*Crop*	*Variety/ breed*	*Hybrid*	*Thematic area*	*Technology Demonstrated*	*Area (ha)*		*No. of farmers/ demonstration*			*Reasons for shortfall in achievement*
									Proposed	*Actual*	*SC/ST*	*Others*	*Total*	
1	**Oilseeds**	Irrigated	Rabi-2024-25	Brown Sarson	SS-2	Variety	Integrated Crop production (CM)	Integrated crop management	10.00	14.70	-	43	43	-
2.	**Cereals**												**0**	
		Irrigated	Kharif 2024	Rice	SR-4	Variety	Crop production (CM)	Integrated crop management	20.00	15.13	-	47	47	-
		Irrigated	Kharif-2024	Rice	SR-5	Variety	Crop production (CM)	Integrated crop management	8.00	2.00	-	5	5	-
		Irrigated	Kharif, 2024	Maize	SMC-8	Variety	Crop production (CM)	Integrated crop management	8.00	10.00	08	16	24	-
4.	**Fruit**												0	
		Irrigated	Kharif, 2024	Apple	Red Delicious	Variety	Crop production (ICM)	Integrated crop management	0.15	0.15	--	16	16	
		Irrigated	Kharif, 2024	Apple	Red Delicious	Variety	Crop production (ICM)	Integrated crop management	10.00	10.00	--	10	10	-
5.	**Fodder**	Irrigated	Kharif, 2024	Fodder	SFO-3	Variety	Crop production (ICM)	Integrated crop management	10.00	10.00	--	50	50	
													0	-
6.	**Dairy**	Irrigated	Rabi 2024	Maize	KDFM-1	Variety	Fodder production for livestock	Fodder production	--	0.40	-	5	05	-
7	**Poultry**	-	2024	Poultry	Key stone, KCL, Kroiler	Layer	Poultry management	Backyard poultry	-	350	30	20	50	-

4.A. 1. Soil fertility status of FLDs plots during 2024-25

Sl. No.	*Category*	*Farming Situation*	*Season and Year*	*Crop*	*Variety/ breed*	*Thematic area*	*Technology Demonstrated*	*Status of soil (Kg/Acre)*			*Previous crop grown*
								N	*P*	*K*	
1.	**Oilseeds**	Irrigated	2024-25	Oilseed	Variety	Production (ICM)	Seeds variety, Package of practices	295	26	275	Rice
2.	**Cereals**	Irrigated	2024	Rice	Variety	Production (ICM)	Integrated Crop Management	290	22	270	Oilseed
		Irrigated	2024	Maize	SMC-8, Variety	Production (ICM)	Integrated Crop Management	315	20	270	Fodder oats
3.	**Fruit**	Irrigated	2024	Red Delicious	Variety	Disease Management	Management of Canken in apple	205	130	215	--
		Irrigated	2024	Red Delicious	Variety	Disease Management	Demonstration of SKUAST-K recommended spray schedule	200	130	209	--
4.	**Fodder**	Irrigated	2024	SFO-3	Variety	Crop Production	Integrated Crop Management	275	22	220	Maize/ Rice
5.	**Dairy**	--	---	---							
6.	**Poultry**	--	2024	Key stone, KCL, Kroiler	Layer	Poultry management	Backyard poultry	--	--	--	--

B. Results of Frontline Demonstrations

4.B.1. Crops

Crop	*Name of the technology demonstrated*	*Variety*	*Hybrid*	*Farming situation*	*No. of Demo.*	*Area (ha)*	*Yield (q/ha)*				*% Increase*	*Economics of demonstration (Rs./ha)*				*Economics of check (Rs./ha)*			
							Demo			*Check*		*Gross Cost*	*Gross Return*	*Net Return*	*BCR*	*Gross Cost*	*Gross Return*	*Net Return*	*BCR*
							H	L	A										
Oilseeds	Shalimar Sarson-2	SS-2	Variety	Irrigated	25	14.70	14.50	13.00	13.75	10.50	31.00	36000	105000	69000	1.92	34600	88000	53400	1.54
					0.00	0.00													
Cereals	Shalimar Rice-4	SR-4	Variety	Irrigated	79.63	15.13	85.80	82.00	83.90	70.00	20.00	85000	228000	143000	1.68	75000	185000	110000	1.47
Rice	Shalimar Rice-4	SR-5	Variety	Irrigated	5.00	8.00	52.00	46.00	49.00	36.00	36.00	68000	162000	94000	1.48	75000	152000	77000	1.02
Maize	Shalimar Maize Compunt-8	SMC-8	Variety	Irrigated	40.00	10.00	41.50	38.50	40.00	31.50	27.00	53000	136000	83000	1.57	50000	116000	66000	1.32
Fodder	Shalimar Fodder Oats-3	SFO-3	Variety	Irrigated	50	10.00	335	315	324.50	200	37.00	43500	134000	90500	2.08	42000	78000	36000	1.86
Apple	Management of Canker	Red Delicious	Variety	Irrigated	5.00	0.15	16.50	14.10	15.30	13.00	14.00	92000	290000	198000	2.15	68000	112000	44000	0.65
Apple	Demonstration ofspray schedule	Red Delicious	Variety	Irrigated	10	10.0	16.50	13.70	15.10	12.50	16.00	99600	296000	176400	1.97	60000	105000	45000	0.75

Data on additional parameters other than yield (viz., reduction of percentage in weed/pest/ diseases etc.)

Data on other parameters in relation to technology demonstrated					
Crop	*Technology to be demonstrated*	*Variety/ Hybrid*	*Parameter with unit*	*Demo*	*Check*
-	-	-	-	-	-

4.B.2. Livestock and related enterprises

Type of livestock	*Name of the technology demonstrated*	*Breed*	*No. of Demo*	*No. of Units*	*Yield*				*% Increase*	*Economics of demonstration (Rs./unit/ year)*				*Economics of check (Rs./unit/year)*			
					Demo			*Check if any*		*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*	*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*
					H	L	A										
Poultry	*Demonstration of elite varieties of poultry breeds*	Key stone, KCL, Kroiler	50	500	Weight gain=3.14 kg at 1 year Age of laying= 5.5 months Egg production: 153 eggs per year	Weight gain=2.5 kg at 1 year Age of laying= 7.5 months Egg production: 98 eggs per year	Weight gain = 2.8 kg at 1 year Age of laying= 7.0 months Egg production: 130 eggs per year	Weight gain=1.35 kg at 1 year of age Age of laying= 10 months Egg production= 60 eggs/year/bird	51.7 53.84	5000	13300	8300	1:2.66	4000	6405	2405	1:1.60

4.B.3. Extension and Training activities under FLD

Sl.No.	***Activity***	***No. of activities organized***	***Number of participants***	***Remarks***
1	Field days	9	150	-
2	Farmers Training	9	421	-
3	Media coverage	13	Mass	-
4	Training for extension functionaries	0	0	-
5	Others (FLD Monitoring)	13	65	-

5. Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit)

A) ON Campus

Area of training	No. of courses	No. of Participants								
		General			SC/ST			Grand Total		
A. Farmers and Farm Women		**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				0			0	0	0	0
Crop Diversification	2	46	0	46			0	46	0	46
Integrated Farming				0			0	0	0	0
Micro irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	2	93	4	97			0	93	4	97
Soil & water conservation				0			0	0	0	0
Integrated nutrient Management				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Others				0			0	0	0	0
Total	**4**	**139**	**4**	**143**	**0**	**0**	**0**	**139**	**4**	**143**
Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	2	16	18			0	2	16	18
Off0season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables	1	31		31			0	31	0	31
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation	1	17	13	30			0	17	13	30
Others	1	18	4	22			0	18	4	22
Total (a)	**4**	**68**	**33**	**101**	**0**	**0**	**0**	**68**	**33**	**101**
b) Fruits										
Training and Pruning	1	22	5	27			0	22	5	27
Layout and Management of Orchards	2	36	4	40			0	36	4	40
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards	1	29	1	30			0	29	1	30
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	2	10	25	35	19		19	29	25	54

Others				0			0	0	0	0
Total (b)	**6**	**97**	**35**	**132**	**19**	**0**	**19**	**116**	**35**	**151**
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				0			0	0	0	0
Others				0			0	0	0	0
Total (f)	0	0	0	0	0	0	0	0	0	0
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(a to g)	**10**	**165**	**68**	**233**	**19**	**0**	**19**	**184**	**68**	**252**
Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Livestock Production and Management										
Dairy Management	4	45	44	89			0	45	44	89
Poultry Management	2	39	7	46			0	39	7	46
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management	4	68	24	92			0	68	24	92
Feed & fodder technologies	4	50	12	62			0	50	12	62
Production of quality animal products	2	73	3	76			0	73	3	76
Others	1	22	3	25			0	22	3	25
Total	**17**	**297**	**93**	**390**	**0**	**0**	**0**	**297**	**93**	**390**
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet	1	0	18	18	0	12	12	0	30	30
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	1	0	25	25			0	0	25	25
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	3	16	65	81			0	16	65	81
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	**5**	**16**	**108**	**124**	**0**	**12**	**12**	**16**	**120**	**136**

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	2	45	11	0			0	45	11	56
Integrated Disease Management	1	33		62			0	33	0	33
Bio-control of pests and diseases				151			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
Others	2	62	0	62			0	62	0	62
Total	**5**	**140**	**11**	**275**	**0**	**0**	**0**	**140**	**11**	**151**
Fisheries										
Integrated fish farming	1	21	52	73			0	21	52	73
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	1	21	52	73			0	21	52	73
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	**2**	**42**	**104**	**146**	**0**	**0**	**0**	**42**	**104**	**146**
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	**43**	**799**	**388**	**1311**	**19**	**12**	**31**	**818**	**400**	**1218**

B.) Training for Rural Youth (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	3	66	25	91	38	28	66	104	53	157

Seed production				0			0	0	0	0
Production of organic inputs	1	0	22	22	0	28	28	0	50	50
Planting material production	1	22	8	30			0	22	8	30
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	3	49	23	72			0	49	23	72
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	1	20	17	37			0	20	17	37
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	2	56	39	95	5	0	5	61	39	100
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	7	181	80	261	24	70	94	205	150	355
Total	**18**	**394**	**214**	**608**	**67**	**126**	**193**	**461**	**340**	**801**

C) Training programmes for Extension Personnel (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	1	2	48	50	0	0	0	2	48	50
Fruit Plants	3	3	50	53	1	49	50	4	99	103
Ornamental plants				0			0	0	0	0
Spices crops				0			0	0	0	0
Soil health and fertility management	1	0	0	0	1	24	25	1	24	25
Production of Inputs at site				0			0	0	0	0
Methods of protective cultivation				0			0	0	0	0
Other	1	16	9	25	0	0	0	16	9	25
Total	**6**	**21**	**107**	**128**	**2**	**73**	**75**	**23**	**180**	**203**
Post harvest technology and value addition										
Processing and value addition	1	18	32	50			0	18	32	50
Other				0			0	0	0	0
Total	**1**	**18**	**32**	**50**	**0**	**0**	**0**	**18**	**32**	**50**
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				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Animal Disease Management				0			0	0	0	0
Fisheries Nutrition				0			0	0	0	0
Fisheries Management				0			0	0	0	0
Other				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
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	**7**	**39**	**139**	**178**	**2**	**73**	**75**	**41**	**212**	**253**

B). OFF Campus

a) Farmers and Farm Women (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				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification	2	80	31	111			0	80	31	111
Integrated Farming	1	20	17	37			0	20	17	37
Micro irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	3	123	50	173			0	123	50	173
Soil & water conservation				0			0	0	0	0

Integrated nutrient Management				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Others				0			0	0	0	0
Total	**6**	**223**	**98**	**321**	**0**	**0**	**0**	**223**	**98**	**321**
Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops				0			0	0	0	0
Off0season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
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	1	11		11			0	11	0	11
Total (a)	**1**	**11**	**0**	**11**	**0**	**0**	**0**	**11**	**0**	**11**
b) Fruits										
Training and Pruning	3	72	4	76			0	72	4	76
Layout and Management of Orchards	3	1	102	103			0	1	102	103
Cultivation of Fruit	1	29	21	50			0	29	21	50
Management of young plants/orchards	3	38	22	60			0	38	22	60
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits	1	0	0	0	0	25	25	0	25	25
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others	2	30	7	37			0	30	7	37
Total (b)	**13**	**170**	**156**	**326**	**0**	**25**	**25**	**170**	**181**	**351**
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				0			0	0	0	0
Others				0			0	0	0	0
Total (f)	0	0	0	0	0	0	0	0	0	0
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)	**14**	**181**	**156**	**337**	**0**	**25**	**25**	**181**	**181**	**362**
Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Livestock Production and Management										
Dairy Management	2	81	3	84			0	81	3	84
Poultry Management	3	36	25	61			0	36	25	61
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management	5	126	44	170	41	3	44	167	47	214
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	**10**	**243**	**72**	**315**	**41**	**3**	**44**	**284**	**75**	**359**
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				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	2	29	52	81			0	29	52	81
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies	1	10	24	34			0	10	24	34
Rural Crafts				0			0	0	0	0
Women and child care	1	20	17	37			0	20	17	37
Others				0			0	0	0	0
Total	**4**	**59**	**93**	**152**	**0**	**0**	**0**	**59**	**93**	**152**
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	18		18			0	18	0	18
Integrated Disease Management	5	48	54	102			0	48	54	102
Bio0control of pests and diseases	1	28		28			0	28	0	28
Production of bio control agents and bio pesticides				0			0	0	0	0
Others	1	22	4	26			0	22	4	26
Total	**8**	**116**	**58**	**174**	**0**	**0**	**0**	**116**	**58**	**174**
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	**42**	**822**	**477**	**1299**	**41**	**28**	**69**	**863**	**505**	**1368**

b) Training Programme for Rural Youths (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				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				0			0	0	0	0
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	2	94	13	107	0	0	0	94	13	107
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	1	34	0	34	16		16	50	0	50
Total	**03**	**128**	**13**	**141**	**16**	**0**	**16**	**144**	**13**	**157**

c) Training programmes for Extension Personnel (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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0

B) Consolidated table (ON and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
Crop Production										
Weed Management	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	4	126	31	157	0	0	0	126	31	157
Integrated Farming	1	20	17	37	0	0	0	20	17	37
Micro irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management										
Integrated Crop Management	5	216	54	270	0	0	0	216	54	270
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	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	**10**	**362**	**102**	**464**	**0**	**0**	**0**	**362**	**102**	**464**
Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	2	16	18	0	0	0	2	16	18
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Exotic vegetables	1	31	0	31	0	0	0	31	0	31
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	1	17	13	30	0	0	0	17	13	30
Others	2	29	4	33	0	0	0	29	4	33
Total (a)	**5**	**79**	**33**	**112**	**0**	**0**	**0**	**79**	**33**	**112**
b) Fruits										
Training and Pruning	4	94	9	103	0	0	0	94	9	103
Layout and Management of Orchards	5	37	106	143	0	0	0	37	106	143
Cultivation of Fruit	1	29	21	50	0	0	0	29	21	50
Management of young plants/orchards	4	67	23	90	0	0	0	67	23	90
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	01	0	0	0	25	0	25	0	25	25
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	2	30	7	37	0	0	0	30	7	37
Total (b)	**19**	**267**	**191**	**458**	**19**	**25**	**44**	**286**	**216**	**502**
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	0	0	0	0	0	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	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 (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	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total (f)	0	0	0	0	0	0	0	0	0	0
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 (a to g)	**24**	**346**	**224**	**570**	**19**	**25**	**44**	**365**	**249**	**614**
Soil Health and Fertility Management										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Livestock Production and Management										
Dairy Management	6	126	47	173	0	0	0	126	47	173
Poultry Management	5	75	32	107	0	0	0	75	32	107
Piggery Management	0	0	0	0	0	0	0	0	0	0
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	9	194	68	262	41	3	44	284	71	355
Feed & fodder technologies	4	50	12	62	0	0	0	50	12	62
Production of quality animal products	2	73	3	76	0	0	0	73	3	76
Others	1	22	3	25	0	0	0	22	3	25
Total	**27**	**540**	**165**	**705**	**41**	**3**	**44**	**581**	**168**	**749**
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	1	0	18	18	0	12	12	0	30	30
Designing and development for high nutrient efficiency diet	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	1	0	25	25	0	0	0	0	25	25
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	5	45	117	162	0	0	0	45	117	162
Women empowerment										
Location specific drudgery reduction technologies	1	10	24	34	0	0	0	10	24	34
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	01	20	17	37	0	0	0	20	17	37
Others	0	0	0	0	0	0	0	0	0	0
Total	**09**	**75**	**201**	**276**	**0**	**12**	**12**	**75**	**213**	**288**
Agril. Engineering										
Farm machinery & its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	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	3	63	11	74	0	0	0	63	11	74
Integrated Disease Management	6	81	54	135	0	0	0	81	54	135
Bio-control of pests and diseases	1	28	0	28	0	0	0	28	0	28
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others	3	84	4	88	0	0	0	84	4	88
Total	**13**	**256**	**69**	**325**	**0**	**0**	**0**	**256**	**69**	**325**
Fisheries										
Integrated fish farming	1	21	52	73	0	0	0	21	52	73
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 prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	1	21	52	73	0	0	0	21	52	73
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	**2**	**42**	**104**	**146**	**0**	**0**	**0**	**42**	**104**	**146**
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	**85**	**1621**	**865**	**2486**	**60**	**40**	**100**	**1681**	**905**	**2586**
(B) RURAL YOUTH										
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	0	0	0	0	0	0	0	0	0	0
Integrated farming	3	66	25	91	38	28	66	104	53	157
Seed production										
Production of organic inputs	01	0	22	22	0	28	28	0	50	50
Planting material production	1	22	8	30	0	0	0	22	8	30
Vermiculture	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee keeping	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 implements	0	0	0	0	0	0	0	0	0	0
Value addition	3	49	23	72	0	0	0	49	23	72
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	1	20	17	37	0	0	0	20	17	37
Sheep and goat rearing	2	94	13	107	0	0	0	94	13	107
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	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	2	56	39	95	5	0	5	61	39	100
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	8	215	80	195	40	70	110	255	150	405
Total	**21**	**522**	**227**	**749**	**83**	**126**	**209**	**605**	**353**	**958**
(C) Extension Personnel										
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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0

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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

D) Sponsored training programmes (On and Off Consolidated)

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	0	0	0	0	0
Commercial production of vegetables	0	0	0	0	0	0	0	0	0	0
Production and value addition	1	2	48	50	0	0	0	2	48	50
Fruit Plants	3	3	50	53	1	49	50	4	99	103
Ornamental plants	0	0	0	0	0	0	0	0	0	0
Spices crops	0	0	0	0	0	0	0	0	0	0
Soil health and fertility management	1	0	0	0	1	24	25	1	24	25
Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Methods of protective cultivation	0	0	0	0	0	0	0	0	0	0
Other	1	16	9	25	0	0	0	16	9	25
Total	**6**	**21**	**107**	**128**	**2**	**73**	**75**	**23**	**180**	**203**
Post harvest technology and value addition										
Processing and value addition	1	18	32	50			0	18	32	50
Other				0			0	0	0	0
Total	**1**	**18**	**32**	**50**	**0**	**0**	**0**	**18**	**32**	**50**
Farm machinery										
Farm machinery, tools and implements	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Livestock and fisheries										
Livestock production and management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Animal Disease Management	0	0	0	0	0	0	0	0	0	0
Fisheries Nutrition	0	0	0	0	0	0	0	0	0	0
Fisheries Management	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Home Science										
Household nutritional security	0	0	0	0	0	0	0	0	0	0
Economic empowerment of women	0	0	0	0	0	0	0	0	0	0
Drudgery reduction of women	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	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	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grant Total	**7**	**39**	**139**	**178**	**2**	**73**	**75**	**41**	**212**	**253**

Details of above training programmes as in the proforma given below (2024-25)

Date	Clientele	Title of the training programme	Discipline	Venue (Off / On Campus)	Number of SC/ST/OBC			Number of Others			Total number of participants		
					Male	Female	Total	Male	Female	Total	Male	Female	Total
03-04-2024	Farmers/ Farm women	Awareness cum trainng on SKUAST-K recommended spray schedule for the management of insect pest and diseases in apple.	Plant Protection	On-Campus	0	0	0	22	8	30	**22**	**8**	**30**
08-04-2024	Farmers/ Farm women	Awareness cum trainng on SKUAST-K recommended spray schedule for the management of insect pest and diseases in apple.	Plant protection	Off-campus	0	0	0	14	22	36	**14**	**22**	**36**
18-04-2024	Farmers/ Farm women	Awareness cum trainng on SKUAST-K recommended spray schedule for the management of insect pest and diseases in apple	Plant Protection	Off-campus	0	0	0	28	0	28	**28**	**0**	**28**
22-04-2024	Farmers/ Farm women	Coutral measures for Ecto & Endo parasitic infestation in cattle/ sheep	Animal Science	On-campus	0	0	0	18	3	21	**18**	**3**	**21**
25-4-2024	Farmers/ Farm women	Importance of balanced fertilization in field crops	Agronomy	On-campus	0	0	0	38	4	42	**38**	**4**	**42**
26-04-2024	Farmers/ Farm women	Care of new born calf.	Animal Science	On-campus	0	0	0	6	6	12	**6**	**6**	**12**
26-04-2024	Farmers/ Farm women	Preperation of silage- from sowing to harvesting and commercial bailing	Animal Science	On-campus	0	0	0	6	6	12	**6**	**6**	**12**
03-04-2024	Rural youth	Importance of deworming in livestock and its effect on productivity.	Animal Science	On-campus	0	0	0	22	8	30	**22**	**8**	**30**
03-4-2024	Rural youth	Significance of high density apple plantation.	Horticulture	On-campus	0	0	0	22	8	30	**22**	**8**	**30**

22-4-2024	Rural youth	Technological options for reducing farm drudgery	IFS	On-campus	0	0	0	18	2	20	**18**	**2**	**20**
03-5-2024	Farmers/ Farm women	Awareness cum training programme on SKUAST-K recommended spray schedule for the management of foliar diseases in Apple	Plant Protection	Off-campus	0	0	0	24	0	24	**24**	**0**	**24**
02-05-2024	Farmers/ Farm women	Pollination management in apple and other fruit crops	Horticulture	Off-campus	0	0	0	10	-	10	**10**	**-**	**10**
13-05-2024	Farmers/ Farm women	Foot rot in sheep – its prevention & control	Animal Science	Off-campus	0	0	0	30	-	30	**30**	**-**	**30**
05-06-2024	Farmers/ Farm women	Green house effect & global warming effects on horticultural fruit crops.	Horticulture	On-campus	0	0	0	17	13	30	**17**	**13**	**30**
05-06-2024	Farmers/ Farm women	One health approach to prevent zoonotically important diseases	Animal Science	On-campus	0	0	0	8	15	23	**8**	**15**	**23**
05-06-2024	Farmers/ Farm women	Including nutrient rich vegetables in the kitchen garden to promote nutri-garden concept.	Horticulture	On-campus	0	0	0	18	4	22	**18**	**4**	**22**
07-06-2024	Farmers/ Farm women	Awareness cum training programme on SKUAST-K recommended spray schedule for the management of foliar diseases in Apple	Plant Protection	Off-campus	0	0	0	29	21	50	**29**	**21**	**50**
07-06-2024	Farmers/ Farm women	Climatic and non-climatric fruits & harvesting of cherry fruits.	Horticulture	Off-campus	0	0	0	29	21	50	**29**	**21**	**50**
07-06-2024	Farmers/ Farm women	Value addition & packaging of cherry.	Home Science	Off-campus	0	0	0	29	21	50	**29**	**21**	**50**
10-06-2024	Farmers/ Farm women	IPM of sajose scal & wooly apple aphid infestation in apple.	Plant Protection	On-campus	0	0	0	23	3	26	**23**	**3**	**26**
10-06-2024	Farmers/ Farm women	Managerment of repeat breeding/ infertility in high yielding cows.	Animal Science	On-campus	0	0	0	23	3	26	**23**	**3**	**26**
24-06-2024	Farmers/ Farm women	Integrated disease management of chilli wilt.	Plant Protection	Off campus	0	0	0	14	3	17	**14**	**3**	**17**

25-6-2024	Farmers/ Farm women	IPM & IDM maize	Agronomy	Off-campus	0	0	0	14	15	29	**14**	**15**	**29**
03-07-2024	Farmers/ Farm women	IDM in vegetable crops.	Horticulture	Off-campus	0	0	0	11	0	11	**11**	**0**	**11**
06-07-2024	Farmers/ Farm women	Zoonotic diseases: Etiology, impact & control.	Animal Science	Off-campus	0	0	0	10	24	34	**10**	**24**	**34**
06-07-2024	Farmers/ Farm women	Use of fortified food products for school going children	Home Science	Off-campus	0	0	0	10	24	34	**10**	**24**	**34**
12-07-2024	Farmers/ Farm women	Management of foliar disease in grapes.	Horticulture	Off-campus	0	0	0	27	0	27	**27**	**0**	**27**
12-07-2024	Farmers/ Farm women	Scientific cultivation of grapes and its maturity indices	Horticulture	Off-campus	0	0	0	27	0	27	**27**	**0**	**27**
15-07-2024	Farmers/ Farm women	IPM of Sanjose Scale and wooly aphid in apple	Plant Protection	Off-campus	0	0	0	18	0	18	**18**	**0**	**18**
22-07-2024	Farmers/ Farm women	Importance of vaccination and de-worming in dairy cattle and sheep	Animal Science	On-campus	0	0	0	25	0	25	**25**	**0**	**25**
22-07-2024	Farmers/ Farm women	Scientist- Dairy enterprunes meet	Animal Science	On-campus	0	0	0	50	0	50	**50**	**0**	**50**
06-08-2024	Farmers/ Farm women	Scientific rearing of sheep & goats	Animal Science	On-campus	0	0	0	22	3	25	**22**	**3**	**25**
13-14/8/2024	Farmers/ Farm women	Processing & value addition of Plum	Home Science	On-campus	0	0	0	6	19	25	**6**	**19**	**25**
14-08-2024	Farmers/ Farm women	Recent advances in fodder conservation technologies to sustainn fodder availabity in Kashmir vallay	Agronomy	On-campus	0	0	0	10	0	10	**10**	**0**	**10**

27-08-2024	Farmers/ Farm women	Ecto-Endo parasitic control in ruminants	Animal Science	Off-Campus	41	3	44	0	0	0	**41**	**3**	**44**
27-08-2024	Farmers/ Farm women	Conservation of local germplasm / breeds.		Off-Campus	41	3	44	0	0	0	**41**	**3**	**44**
27-08-2024	Farmers/ Farm women	Scientific feeding management in dairy cattles	Animal Science	Off-Campus	41	3	44	0	0	0	**41**	**3**	**44**
29-08-2024	Farmers/ Farm women	Minimum use of pestcides - concept of natural farming in horticulture crops	Horticulture	On-campus	0	0	0	29	01	30	**29**	**01**	**30**
30-08-2024	Farmers/ Farm women	Horti-poultry model – An income generating unit	Animal Science	On-campus	0	0	0	19	0	19	**19**	**0**	**19**
30-08-2024	Farmers/ Farm women	Organic farming for sustainable horticulture production	Horticulture	On-campus	0	0	0	19	0	19	**19**	**0**	**19**
02-09-2024	Farmers/ Farm women	Nutritional management in horticulture fruit crops	Horticulture	On-campus	0	0	0	31	0	31	**31**	**0**	**31**
05-09-2024	Farmers/ Farm women	Creation of Oilseed Model Village (OMV)	Agronomy	On-campus	0	0	0	36	0	36	**36**	**0**	**36**
05-09-2024	Farmers/ Farm women	Introcudction of SKUAST-K released variety (SS-2) under CFLD Oilseed	Agronomy	On-campus	0	0	0	36	0	36	**36**	**0**	**36**
06-09-2024	Farmers/ Farm women	Creation of Oilseed Model Village (OMV)	Agronomy	Off-campus	0	0	0	32	32	64	**32**	**32**	**64**
06-09-2024	Farmers/ Farm women	Introcudction of SKUAST-K released variety (SS-2) under CFLD Oilseed	Agronomy	Off-campus	0	0	0	25	31	56	**25**	**31**	**56**
09-09-2024	Farmers/ Farm women	Creation of Oilseed Model Village (OMV).	Agronomy	Off-campus	0	0	0	77	3	80	**77**	**3**	**80**

09-09-2024	Farmers/ Farm women	Collection of soil samples from agriculture fields under omv Project	Soil Science	Off-campus	0	0	0	55	5	60	**55**	**5**	**60**
11-09-2024	Farmers/ Farm women	Production, practices of important temperate fruit crops	Horticulture	Off-campus	0	0	0	31	0	31	**31**	**0**	**31**
11-09-2024	Farmers/ Farm women	Scientific management of backyard poultry/ duckery	Animal Science	Off-campus	0	0	0	31	0	31	**31**	**0**	**31**
11-09-2024	Farmers/ Farm women	Including nutrient rich vegetables in kitchen gardens to promote nutri-garden concept	Horticulture	On-campus	0	0	0	31	0	31	**31**	**0**	**31**
11-09-2024	Farmers/ Farm women	Creation of Oilseed Model Village (OMV)	Agronomy	On-campus	0	0	0	55	0	55	**55**	**0**	**55**
11-09-2024	Farmers/ Farm women	Introcudction of SKUAST-K released variety (SS-2) under CFLD Oilseed	Agronomy	On-campus	0	0	0	55	0	55	**55**	**0**	**55**
13-09-2024	Farmers/ Farm women	Silage making and fortification of paddy straw to increase its nutritive value	Animal Science	On campus	0	0	0	09	01	10	**09**	**01**	**10**
18-09-2024	Farmers/ Farm women	Value addition of milets and its health benefits	Home Science	On campus	0	0	0	0	25	25	**0**	**25**	**25**
17-09-2024	Rural youth	Development of fortified food products for school going children.	Home Science	On-campus	0	0	0	0	12	12	**0**	**12**	**12**
01-10-2024	Farmers/ Farm women	Commercial poultry production	Animal Science	On Campus	0	0	0	11	14	25	**11**	**14**	**25**
03-10-2024	Farmers/ Farm women	Processing and valuie addition of apple (Jam making and dehydrated chips making)	Home Science	On-campus	0	0	0	0	25	25	**0**	**25**	**25**
06-10-2024	Farmers/ Farm women	Biological control: A sustainable and practical approach for diasease management in natural farming	Plant Protection	On-campus	0	0	0	33	0	33	**33**	**0**	**33**
09-10-2024	Farmers/ Farm women	Processing and value addition of fruits (Apple and Quince)	Horticulture	Off-campus	0	25	25	0	0	0	**0**	**25**	**25**

14-10-2024	Farmers/ Farm women	Scientific rearing of silkworm	Plant Protection	Off-campus	22	04	26	0	0	0	**22**	**04**	**26**
15-10-2024	Farmers/ Farm women	Dairy farming – a sucessful self employemt venture	Animal Sciene	On-campus	0	0	0	10	21	31	**10**	**21**	**31**
15-10-2024	Farmers/ Farm women	Value addition of fruits	Home Science	On-campus	0	0	0	10	21	31	**10**	**21**	**31**
16-10-2024	Farmers/ Farm women	Oranamental fish keeping as an enterprise	Animal Science	On campus	0	0	0	21	52	73	**21**	**52**	**73**
16-10-2024	Farmers/ Farm women	Scientific culture of Rainbow trout	Animal Science	On-campus	0	0	0	21	52	73	**21**	**52**	**73**
17-10-2024	Farmers/ Farm women	IDM of important insect pest and diseases of horticultural crops	Plant Protection	Off-campus	20	08	28	0	0	0	**20**	**08**	**28**
25-10-2024	Farmers/ Farm women	Value addition og vegetables	Home Science	Off-campus	0	0	0	0	31	31	**0**	**31**	**31**
25-10-2024	Farmers/ Farm women	Paratuberclosis- the hidden killer of small ruminants	Animal Science	Off-campus	0	0	0	40	0	40	**40**	**0**	**40**
17-10-2024	Rural youth	Promoting development of organic farming as a promising exterprise	Plant Protection	On-campus	0	0	0	0	31	31	**0**	**31**	**31**
17-10-2024	Rural youth	Prtomotion of Agri-drone technology for precision agriculture	Plant Protection	On-campus	0	0	0	0	31	31	**0**	**31**	**31**
06-11-2024	Farmers/ farm women	Promoting Nutri-garden farming for Diet Diversity	Home Science	Off-campus	0	50	50	0	0	0	**0**	**50**	**50**
07-11-2024	Farmers/ Farm women	Training on Value addition of spices and vegetables	Home Science	On-campus	0	0	0	20	17	37	**20**	**17**	**37**
07-11-2024	Farmers/ Farm women	Silage making and fortification of paddy straw	Livestock	On-campus	0	0	0	20	17	37	**20**	**17**	**37**
07-11-2024	Farmers/ Farm women	Integrated farming systems for income generation	Agronomy	On-campus	0	0	0	20	17	37	**20**	**17**	**37**

08-11-2024	Farmers/ Farm women	Processing and value addition of spices	Home Science	On-campus	0	0	0	08	06	14	**08**	**06**	**14**
26-11-2024	Farmers/ Farm women	Climate Resilient Technologies & utility of IFS for sustainable farming practices	Horticulture	On-campus	0	0	0	03	17	20	**03**	**17**	**20**
28-11-2024	Farmers/ Farm women	Training on value addition of vegetables and spices	Home Science	On-campus	0	0	0	21	0	21	**21**	**0**	**21**
22-11-2024	Rural youth	Silage making and fortification of paddy straw	Animal Science	On-campus	0	0	0	13	0	13	**13**	**0**	**13**
25-11-2024	-do-	Paratuberculosis: The silent killer of small ruminants	Animal Science	On-campus	0	0	0	22	0	22	**22**	**0**	**22**
04-12-2024	Farmers/ Farm women	Canopy managmeent an dmodified training system in fruit crops/ apples	Horticulture	Off-campus	0	52	52	0	0	0	**0**	**52**	**52**
03-12-2024	Farmers/ Farm women	Different methods of training and pruning in fruit crops	Horticulture	On-campus	0	0	0	22	5	27	**22**	**5**	**27**
03-12-2024	Farmers/ Farm women	Horti-poultry: An income generation unit	Animal Science	On-campus	0	0	0	20	7	27	**20**	**7**	**27**
20-12-2024	Farmers/ Farm women	Integrated fertilizer managemen tin fruit and vegetable crops	Horticulture	On-campus	0	0	0	2	16	18	**2**	**16**	**18**
16-12-2024	Farmers/ Farm women	Propagation of clonal rootstocks of apple	Horticulture	On-campus	0	0	0	1	25	26	**1**	**25**	**26**
03-12-2024	Farmers/ Farm women	Silage making and fortification of paddy straw	Animal Science	On campus	0	0	0	22	5	27	**22**	**5**	**27**
18-12-2024	Farmers/ Farm women	Training/ pruning of temperate fruit crops in particular of apple and cherry	Horticulture	Off-campus	0	0	0	15	4	19	**15**	**4**	**19**
08-01-2024	Farmers/ Farm women	Effect of pesticides on soil microbes	Animal Science	On-campus	0	0	0	5	4	9	**5**	**4**	**9**
01-01-2025	Farmers/ Farm women	Health Hazards of pesticides	Animal Science	On-campus	0	0	0	8	5	13	**8**	**5**	**13**

24-01-2025	Farmers/ Farm women	Paratuberculosis: The hidden killer of small ruminants	Animal Science	Off-campus	0	0	0	42	10	52	**42**	**10**	**52**
04-02-2025	Farmers/ Farm women	Pollination management in temperate fruit crops	Horticulture	Off-campus	0	0	0	8	5	13	**8**	**5**	**13**
13-01-2025	Farmers/ Farm women	Preparation of nutri mix formula for lactating and pregnant women across the UT of J&K through KVKs	Home Science	On-campus	0	12	12	0	18	18	**0**	**30**	**30**
23-01-2025	Farmers/ Farm women	Training and pruning of fruit crops particularly in apple	Horticulture	Off-campus	0	0	0	26	0	26	**26**	**0**	**26**
08-01-2025	Farmers/ Farm women	Training programme on physiological disorders in fruit crops and its managment	Horticulture	On-campus	0	0	0	5	4	9	**5**	**4**	**9**
17-01-2025	Farmers/ Farm women	Training programme on producotion of quality planting material in walnut and apple	Horticulture	On-campus	19	0	19	09	0	9	**28**	**0**	**28**
08-02-2025	Farmers/ Farm women	Horti-poultry model: An income generation unit for rural youth	Animal Science	On-campus	0	0	0	5	25	30	**5**	**25**	**30**
04-02-2025	Farmers/ Farm women	Pollination management in apple and other fruit crops	Horticulture	Off-campus	0	0	0	1	25	26	**1**	**25**	**26**
06-0202025	Farmers/ Farm women	Training programme on layout and methods of planting high density apple trees	Horticulture	Off-campus	0	0	0	0	25	25	**0**	**25**	**25**

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	**Date**	**Training title***	**Identified Thrust Area**	**Duration (days)**	**No. of Participants**			**Self-employed after training**			**Number of persons employed else where**
					Male	**Female**	**Total**	**Type of units**	**Number of units**	**Number of persons employed**	
-			-	-	-	-	-	-	-	-	-

(E) Sponsored training programmes

S. No	Date	Title	Discipline	Duration (days)	Client (PF/RY/EF)	No. of courses	No. of Participants								
							Others			SC/ST			Total		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
1	16-10-2024	Promotion of ornamental fish keeping as an enterprise for entrepreneurship development among youth of Ganderbal	Fisheries	01 day	Rural Youth	01	26	19	45	05	0	05	**50**	**0**	**50**
2	16-10-2024	Idea pitching for Agri-preneurship development among rural youth	Agriculture	01 day	Rural Youth	01	09	41	50	0	0	0	**09**	**41**	**50**
3.	24-10-2024	Promotion of agri-drone technology of precision agriculture	Agronomy	01 day	Rural Youth	01	22	0	22	08	20	28	**30**	**20**	**50**
4.	24-10-2024	Promoting development of organic farming inputs as a promising enterprise	Agriculture	01 day	Rural Youth	01	42	0	42	08	0	08	**50**	**0**	**50**
5.	25-10-2024	Paratuberculosis- The hidden killer of small ruminants	Animal Science	01 day	Rural Youth	01	52	3	55	0	0	0	**52**	**3**	**55**
6.	06-11-2024	Promoting Nutri-Gardens for women empowerment	Home Science	01 day	Rural Youth	01	50	0	50	0	0	0	**50**	**0**	**50**
7.	07-11-2024	Integrated farming systems as a viable option for promoting livelihood security	Agronomy	01 day	Rural Youth	01	03	0	03	22	25	47	**25**	**25**	**50**
8.	13-11-2024	Promotion of Agri-Drone technology for Precision Agriculture	Agronomy	01 days	Rural Youth	01	34	0	34	16	0	16	**50**	**0**	**50**

9.	13-11-2024	Promoting development of organic farming inputs as a promising enterprise	Agriculture	01 day	Rural Youth	01	0	22	22	0	28	28	**0**	**50**	**50**
10.	26-11-2024	Integrated farming systems as a viable option for promoting livelihood security	Agriculture	01 day	Rural Youth	01	28	3	31	16	3	19	**44**	**6**	**50**
11.	27-11-2024	Understanding weather forecasting for farm management decision's	Agronomy	01 day	Rural youth	01	23	27	50	0	0	0	**23**	**27**	**50**
12.	28-11-2024	Promotion of ornamental fish keeping as an enterprise for entrepreneurship development among youth of Ganderbal	Fisheries	01 day	Rural Youth	01	30	20	59	0	0	0	**30**	**20**	**50**
13.	03-12-2024	Understanding weather forecasting for farm management decision's	Agronomy	01 day	Rural Youth	01	38	12	50	0	0	0	**38**	**12**	**50**
14.	20-01-2025	Idea pitching for agri-preneurship development among rural youth	Agriculture	01 day	Rural Youth	01	55	0	55	0	0	0	**55**	**0**	**55**
15.	24-01-2025	Paratuberculosis- The hidden killer of small ruminantgs	Animal Science	01 days	Rural Youth	01	42	10	52	0	0	0	**42**	**10**	**52**
			Total			**15**	**454**	**157**	**620**	**75**	**76**	**151**	**548**	**214**	**762**

(F) Skill Development Training Conducted by KVK Ganderbal during the year 2024-2025

S.No	Date	Title	Discipline	Duration (days)	Client (PF/RY/EF)	No. of courses	No. of Participants								
							Others			SC/ST			Total		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
1	19-23 August, 2024	Enterprunership programme on skill development in walnut processing	Horticulture	5 days	Rural Youth	01	18	32	50	0	0	0	**18**	**32**	**50**
2.	04 to 10 Sept. 2024	Enterprunership programme on Plant Nursery Business – A new way of enterprunership horticulture crops in district Ganderbal	Horticulture	6 days	Rural Youth	01	03	50	53	0	0	0	**03**	**50**	**53**
3.	17-21 Sept., 2024	trainig on production technology of dhingri mushroom cltivation	Mushroom	5 days	Rural Youth	01	02	48	50	0	0	0	**02**	**48**	**50**
4.	16-21 Dec. 2024	Entrepreneurship in propagation of clonal rootstocks in apple and cherry for livelihood	Horticulture	7 days	Rural Youth	01	0	0	0	01	24	25	**01**	**24**	**25**
5.	31st Dec. 2024 to 10th Feb. 2025	Indiscriminate use and judicious application of pesticides by vegetable and fruit farmers	Plant Protection	42 days	Rural Youth	01	01	0	01	17	7	24	**18**	**7**	**25**
6.	4th to 10th Feb. 2025	Pollination management in apple and other fruit crops	Horticulture	7 days	Rural Youth	01	0	0	0	0	25	25	**0**	**25**	**25**

7.	13th to 21 February, 2025	New techniques for commercialization of bio-control agents (*Trichoderma*) to promote organic agriculture	Plant protection	7 days	Rural Youth	01	0	0	0	16	0	16	**16**	**0**	**16**
		Total				**7**	**24**	**130**	**154**	**34**	**56**	**90**	**58**	**186**	**244**

6. Extension Activities (including activities of FLD programmes)

Nature of Activity	No. of Activities	SC/ST (Farmers)			OBC/Other (Farmers)			Extension Officials			Grand Total		
		(I)			(II)			(III)			(I+II+III)		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	9	33	0	**33**	82	35	**117**	0	0	**0**	115	35	**150**
Kisan Mela	2	230	45	**275**	175	40	**215**	0	0	**0**	405	85	**490**
Kisan Ghosthi	12	30	15	**45**	21	10	**31**	4	0	**4**	83	34	**117**
Exhibition	7	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**
Method Demonstrations	37	50	62	**112**	76	97	**173**	10	3	**13**	136	162	**298**
Farmers Scientists Interaction	15	28	63	**91**	33	16	**39**	0	0	**0**	61	79	**140**
Lectures delivered as resource persons	40	284	109	**393**	606	167	**773**	46	23	**69**	936	299	**1235**
Newspaper coverage	54	0	0	**0**	0	0	**0**	0	0	**0**	00	00	**0**
Radio talks	5	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**
TV talks	8	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**
Extension Literature	22	384	137	**512**	714	168	**882**	73	24	**97**	1171	329	**1500**
Scientific visit to farmers field	32	38	21	**59**	18	38	**56**	18	4	**22**	74	63	**137**
Farmers visit to KVK	112	84	28	**112**	178	36	**214**	0	0	**0**	262	64	**326**
Diagnostic visits	88	20	8	**28**	36	22	**58**	12	6	**18**	68	36	**104**
Exposure visits	27	88	22	**110**	164	56	**220**	0	0	**0**	252	78	**330**
Animal Health Camp	3	78	8	**86**	56	13	**69**	0	0	**0**	134	21	**155**
Agri mobile clinic	1	13	6	**19**	32	19	**51**	0	0	**0**	45	25	**70**
Total	**474**	**1360**	**524**	**1875**	**2191**	**717**	**2898**	**163**	**60**	**223**	**3742**	**1310**	**5052**

6. B. Kisan Mobile Advisory Services

Kisan Mobile Advisory									
Name of the KVK	No. of farmers Covered	No. of Advisories Sent	Type of messages						
			Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Any other
Ganderbal	28000	183	54	33	71	15	10	--	--

7. Production and supply of Technological products

A) SEED MATERIALS

Major group/class	Crop	Variety	*Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Maize	SFO-1	1.00	4000.00	15
	Oats	SFO-3	3.00	21000.00	20
	Paddy	Basmiti	1.00	7000.00	05
	Wheat	SW-2	1.00	2000.00	03
OILSEEDS	Oilseed	SS-2	5.00	35000.00	50
OTHERS (Fodder)	KDFM1	Maize	3.00	6000.00	10

B. PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
	Apple	Golden Delicious, Ambri, Red Gala, American Apirogue	435	1,08,000.00	**200**
	Peach	Peach	31	6200.00	**15**
	Apricot	Cith-1, Cith-2	80	16000.00	**40**
	Plum	Santa Rosa, Black Amber	35	7000.00	**30**
	Pear	Baggugoshu	20	5000.00	**20**
	Cherry	Stella, Cordia	25	5000.00	**25**
	Almonds	Cith-1	11	2750.00	**10**
	Walnut	Chandler, Wussun Selction	140	56000.00	**90**
	Grape	Sahebi, Hussaini	61	9510.00	**40**
	Rootstock				
	Pomegranate				
	Kiwi seedling				
	Kiwi	Huyward, Alison	40	20000.00	**40**
	-	**Total**			
VEGETABLES	-	-			
FOREST SPECIES	**-**	**-**			
ORNAMENTAL CROPS	**Lavender, Rose Marrey**	**-**	**09**	**450.00**	**09**
PLANTATION CROPS	**Flower seedling**	**-**		**7150.00**	
Others *					
Jam/Jelly*	Plum	Plum	17	1360.00	
Aloo Bukhara*	Plum	Plum	28	5650.00	
Masa Tikki*	Chilli	Chilli	14	2100.00	
Pickels *	Vegetables	Mixed vegetable	20	1580.00	
Plum Bar*	Quince	Plum	16	1040.00	
		Total			

C. BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS	**Trichoderma**	**Viridae**	**81 ltrs**	**--**	**16200.00**	
BIOFERTILIZERS	**Vermicompost**	-	**--**	**626 kgs**	**9400.00**	
BIO PESTICIDES	-	-	-			
Honey				**750 kgs**	**6,00,000.00**	
Milk			**7500 ltrs**		**3,75000.00**	

D. LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
Cattle	Breeding Bull	Jersey				
SHEEP AND GOAT	-	-				
POULTRY	Egg type	Keystone	7000		10,000.00	
	Dual Purpose	RIR				
	Dual Purpose	KCL				
FISHERIES	-	-				
Others	Eggs	-	--		3000.00	
	Rabbit					

PART 8 – PUBLICATION, SUCCESS STORY, SWTL, TECHNOLOGY WEEK AND DROUGHT MITIGATION

8. Literature Developed/Published (with full title, author & reference)

(A) KVK News Letter – (KVK Ganderbal News Letter, 2023, Yearly, 20.)

(B) KVK e-News Letter – (Name, Date of start, periodicity, Name of the Website uploaded): Nil

(C) Literature developed/published

Item	*Title*	*Authors name*	*Number of copies*
Research papers			-
	Virulence profling of Campylobacter spp. Campylobacter jejuni and C. fetus subsp fetus. abortions rise in sheep farms in Kashmir, India	M. Hafz, S. Qureshi, M. Gulzar, Z. Kashoo, M. Sharief Banday, M. Altaf Bhat, P. Dar, S.A. Hussain, S.M. Andrabi, M.I. Hussain, G. Badroo1, F. ud Din	-
	Short Variable Regions flaA Gene (SVR-flaA) Diversity and Virulence Profile of Multidrug−Resistant Campylobacter from Poultry and Poultry Meat in India	Saima Iqbal, Sabia Qureshi, , Muddasir S. Banday, Shaheen Farooq , Zahid A. Kashoo, Maliha Gulzar, M. Altaf Bhat, Arif Pandit, Md. Isfaqul Hussain, Pervaiz Dar, Gulzar Badroo, Mahrukh Hafiz, Faheem ud Din, Junaid Mehraj	-
	Optimization of growth conditions for Dichelobacter nodosus in a modified reducing broth without gas phase	Arham Quraishi, Najeeb Ul Tarfain, Isfaqul Hussain, Aasim Habib Wani, Zahid Amin Kashoo, Sabia Qureshi, Mir Nadeem Hassan, Mansoor Nabi Mir and Mohd Altaf Bhat	-
	Determination of G and P genotypes of bovine group A rotavirus with emergence of unusual G- and P-type combinations from neonatal calf diarrhea in Kashmir, India	M.N. Hassan, Iqra Hussain Shah, S.A. Wani, and S. Qureshi	-

Item	*Title*	*Authors name*	*Number of copies*
	Molecular detection and phylogenetic analysis of ovine herpesvirus-2 in subclinical infections of cattle and sheep	A. S. Kumar, Z.A Kashoo, A Rasool, M.N Mir, S Qureshi, M.A Bhat. M.I Hussain, G.A Badroo	-
	Seroprevalence of bluetongue virus in a flock of Gurez sheep of Jammu and Kashmir	S. Shanaz, Aiman Ashraf, Nusrat Nabi, M Altaf Bhat,Ambreen Hamadani*, Ruksana Majid and Nazir A. Ganai	-
	Genotyping and antimicrobial resistance profle of ESKAPE pathogens from a tertiary care hospital in Jammu & Kashmir, India	Sabia Qureshi a,* , Faheem u Din, Muddasir S Banday , Anjum Farhana , Nahid Nehvi, Zahid Kashoo, Leenah Bashir, Mir Nadeem Hassan, Gulzar Badroo, M. Altaf Bhat, Mansoor Nabi, Shaheen Farooq, Md. Isfaqul Hussain, Pervaiz Dar, Maliha Gulzar, Junaid Mehraj	-
	Molecular characterization of lumpy skin disease virus during the first outbreak of lumpy skin disease in Northern Himalayas, India	Shaista Akhter Sabahat Gazal Gulzar Badroo Mohd. Altaf Bhat Deep Shikha1Sundus Gazal Anvesha Bhan Jaswinder Soodan, Abhimanyu Koul Anish Yadav Asma Andrabi Nawab Nashiruddullah Biswajit Brahma Rajinder Bhardwaj Anil Taku Pervaiz Dar Mohd Yaqoob Wani Neelesh Sharma	
	Development of a Serogroup B Specifc Footrot Vaccine with Montanide ISA 61 VG Adjuvant for Prophylactic and Therapeutic Use in Sheep	Arham Quraishi, Isfaqul Hussain, , Zahid Amin Kashoo, Najeeb Ul Tarfain, Sabia Qureshi, Mir Nadeem Hassan, Mohd Altaf Bhat, Mansoor Nabi Mir, Syed Mudasir Ahmad, Syed Akram Hussain and Zahoor Ahmad Wani	
	Assessment and performance of front line demonstrations through improved techniques of grafting in walnut (Juglans regia) at district Ganderbal Jammu and Kashmir	Suja N Qureshi, Ishhfaq Abidi, Rifat Bhat, Kounsar Javid, Banarasi Lal, Farooq A Ahanger, Rafiya Munshi, Syed Faiqa and Amir B. Wani	
	Assessment and Performance of Front line Demonstrations through Improved Techniques of Grafting in Walnut (Juglans regia) at District Ganderbal	Suja Nabi Qureshi et al. (1STAuthor)	
	Influence of organic manures and IBA on survival percentage of roots through mound layering in apple rootstocks	Suja Nabi Qureshi (2nd Author)	

Item	*Title*	*Authors name*	*Number of copies*
	Comparative study of pruning methods on growth yield and quality in Nectarine	Suja Nabi Qureshi (2nd Author)	
	Standardization of Four Flap (BananaGraft)Propagation technique in Pecan Nut (Cariya illinoinesisW.)	Suja Nabi Qureshi (2nd Author)	
Book Chapters	Importance of Ca Nutrition in fruit Tree fruit crops	Suja Nabi Qureshi (2nd Author)	-

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

TITLE

"Horti-Poultry Model: Integration of Apple and Grape Orchid with Poultry"

Introduction

Horti-Poultry Model is an innovative concept utilizing apple orchards and vine yards for rearing backyard poultry under integrated farming system. Ghulam Hassan Hafiz a is a well-known progressive farmer from Ganderbal district. From the beginning itself, he was keen to learn and adopt new production techniques and improved farming practices that can increase his productivity, income and boost his economy. His total land holding is 1.0 ha. Traditionally, he grows fruit crops such as apple and grapes. Krishi Vigyan Kendra (KVK), Ganderbal, has adopted him and established a Horti-Poultry model i.e.; integrated high density apple orchid and vineyard with elite dual-purpose poultry breeds viz. Vanraja Keystone and KCL. With minimum input his monthly income has increased significantly.

KVK intervention

- Trained by KVK in scientific rearing of backyard poultry.
- Establishment of Horti-Poultry unit
- Provided elite varieties of poultry strains viz. Keystone White, Kashmir Commercial Layer (KCL) & Vanaraja.
- Horti-Poultry unit established on 0.20 hac of apple and grape orchid.
- 150 elite birds (Egg type & dual-purpose) were introduced in the Model viz. Keystone white, KCL & Vanraja.

Output

His source of income was from fruit crops like apples and grapes, which would fetch him an annual net income of Rs. 8.0 lacs. With the introduction of Horti-poultry in 2023, his annual income has increased to Rs.9.0 lacs with minimum inputs in the form of sale of elite birds, eggs and poultry droppings.

Outcome

Net income is Rs 9.0 lac per annum from Horticulture and Horti-Poultry Model. 8.0 lac from horticulture while 1.0 lac from Horti-Poultry Model

Impact

Horti-poultry model is a potential income generation unit particularly for unemployed rural youth. On the basis of data collected from the farmers field where horti-poultry models were established, it was revealed that these models will fetch on an average of about Rs. 25,000/- per annum per kanal of land containing 30 elite layers/ dual purpose strains of poultry, therefore, augmenting farmers income.

Horti – Poultry Model- A Way of Sustainability

9.F. Activities of Soil and Water Testing Laboratory / Plant Health Clinic

Status of establishment of Lab : Not working

1. Year of establishment : 2007
2. **List of equipments purchased with amount** :

S. No.	Name of the equipment	Qty	Cost (Rs.)	Present status
1	Plant grinder	01	8857.00	**Not Working**
2	Spectrophotometer	01	45900.00	Working
3	Fire extinguisher	01	2890.00	**Not Working**
4	Hot Air Oven	01	22924.00	Working
5	Balance single pan	01	9778.00	**Not Working**
6	Chemical Balance	01	100880.00	**Not Working**
7	Distillation stand	01	9698.93	**Not Working**
8	Lab. Conductivity meter	01	5960.00	**Not Working**
9	pH meter	01	11302.00	Working
10	Hot plate	01	3480.00	Working
11	Water distillation	01	98885.00	Working
12	Flame photometer	01	37630.00	**Not Working**
13	Shaker	01	27360.00	Working
14	De-Ionizer	01	14607.00	**Not Working**
15	Kjelplus nitrogen analysis system	01	65111.00	**Not Working**
16	DSLR Camera Canon R-10	01	100000.00	**Working**

3. **Details of samples analyzed / Soil Health Cards issued during 2023 :**

Details	No.	No. of Farmers	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples	-	-	-	-
Plant Samples	-	-	-	-
Soil Health Cards Issued	-	-	-	-

4. Status of mini soil testing labs/kit : Not Working
5. Year of procurement of lab/kit : 2016-17
6. No. of mini labs with the KVK : 02
7. Type of mini labs (Name of lab/Kit) : **Mridaparikshak Soil Testing Mini Lab**
8. **Details of samples analyzed through mini soil kit / Soil Health Cards issued during 2023-24 :**

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples				Nil
Water Samples	-	-	-	-
Soil Health Cards Issued*	-	-	-	Nil

IMPACT

10.1 Impact of KVK activities (Not to be restricted for reporting period).

S.No.	Name of specific technology/skill transferred	No. of participants	Number of adopters	Change in income (Rs.)	
				Before (Rs./unit)	After (Rs./unit)
1.	Paddy (Jehlum)	41	36	3100	4800
2.	Maize (C15)	82	56	2000	3300
3.	Brown Sarson (KS-101(Gulchin))	105	65	3400	4400
4.	Field pea (Rachna)	90	29	3400	5800
5.	Paddy (Shalimar Rice-1)	76	08	3100	4690
6.	Maize (C15)	55	26	2160	3450
7.	Brown Sarson (KS-101 (Gulchin))	53	48	3750	4850
8.	Field pea P8	25	15	3450	5880
9.	Brown Sarson (KS-101 (Gulchin))	41	38	3600	4800
10.	Maize (C-15)	41	34	2160	3450
11.	Paddy (Jehlum)	81	78	3160	4400
12.	Brown Sarson (KS-101 (Gulchin))	41	34	3600	4800
13.	Maize (C15)	41	29	2160	3450
14.	Paddy (SR-1, SR-2)	29	16	3200	4400
15.	Paddy (Pusa Sugandh)	01	01	3000	4000
16.	Brown Sarson (KS-101 (Gulchin))	34	26	3600	4800
17.	Paddy (Jehlum)	22	18	3750	5200
18.	Paddy (SR-1)	03	00	3750	5000
19.	Paddy (SR-2)	03	01	3750	5200
20.	Maize (C-15)	16	11	2200	3500
21.	Maize (C-8)	02	01	2200	3180
22.	Maize (C-6)	02	01	2200	3180
23.	Wheat (Shalimar Wheat-1)	01	01	2800	3550
24.	Wheat (Shalimar Wheat-2)	12	08	2800	3550
25.	Oats (Sabzaar)	28	21	2500	3200
26.	Oats (SKO-90)	05	03	2500	3000
27.	Brown Sarson (KS-101 (Gulchin))	34	30	4275	5000
28.	Paddy (Jehlum)	14	14	3750	5200
29.	Paddy (Jehlum (SRI))	02	01	3750	5000
30.	Maize (C-8)	08	03	2200	3000
31.	Maize (C-15)	29	16	2200	3500

32.	Wheat (Shalimar Wheat-2)	12	08	2800	3550
33.	Poultry (Kruoiler)	15	08	220 /bird	422 /bird
34.	Poultry (Vanraja)	15	10	220 /bird	389 /bird
35.	Dairy cattle (Dairy cattle)	10	05	1500 /cattle	1980 /cattle
36.	Brown Sarson (KS-101 (Gulchin))	12	08	3600	5500
37.	Paddy (Jehlum)	22	20	3750	5200
38.	Paddy (SR-1)	08	-	3750	5000
39.	Paddy (SR-2)	02	02	3750	5200
40.	Paddy (SR-3)	02	02	3750	5200
41.	Paddy (SR-3 (SRI))	01	01	3750	5200
42.	Wheat (Shalimar Wheat-1)	01	01	2800	3550
43.	Maize (SMC-4)	10	06	2200	3500
44.	Maize (Hybrid maize-1)	01	01	2200	3800
45.	Oats (Sabzaar)	25	23	2500	3300
46.	Dairy	10	06	1500	1980
47.	Poultry (Kuroiler)	15	10	220 /bird	422 /bird
48.	Poultry (Vanraja)	15	10	220 /bird	389 /bird
49.	Brown Sarson (KS-101 (Gulchin))	45		4300	5500
50.	Pea (Arkel)	37	19	3450	5860
51.	Paddy (Jehlum)	16	14	3750	5200
52.	Paddy (SR-2)	20	10	3750	5200
53.	Paddy (SR-3)	04	04	3750	5200
54.	Paddy (SR-4)	06	06	3750	5200
55.	Paddy (SR-5)	03	03	3500	4800
56.	Paddy (Mushkbudji)	16	07	3750	6000
57.	Paddy (Kamad)	04	02	3750	5600
58.	Paddy (SR-4 (SRI))	03	03	3750	5200
59.	Wheat (Shalimar Wheat-1)	28	18	2800	3550
60.	Maize (SMC-7)	30	23	2200	3500
61.	Oats (Sabzaar, SFO-2, SFO-3)	50	50	2500	3500
62.	Dairy	27	20	127 /day/cow	135 /day/cow
63.	Poultry (Kuroiler)	150	124	220 /bird	422 /bird
64.	Poultry (Vanraja)	200	170	220 /bird	389 /bird
65.	Poultry (Keystone golden)	25	20	220 /bird	380 /bird
66.	Poultry (American white pekin)	20	16	220 /bird	235 /bird

67.	Cutting & Tailoring at Gutlibagh	15	80	Nil	15000/-
68.	Sozni work at Dub, Ganderbal	20	65	Nil	9500/-
69.	Sozni work at Dach Mohalla, Gujarpati, Yarmuqam.	15	60	Nil	9000/-
70.	Crochette work at Gutlibagh.	19	63	Nil	3000/-

10.2. Cases of large scale adoption:
(Please furnish detailed information for each case)

1. Adoption of SR-4 variety of rice: The horizontal expansion of improved rice variety- SR-4 has led to increase in production and productivity of rice. In spite of decrease in rice area by 18%, from 2011-12 to 2019-20, the production has increased by 15% and productivity by 40%. This was possible with the adoption of SR-4 variety by farmers of Ganderbal, having a yield potential of 9 t/ha.
2. For crops like maize, apple, walnut, grapes and cherry, the area has increased by 29, 38, 20, 50 and 55 percent, respectively, during the last 10 years. The production during the period has increased by 185, 87, 30, 148 and 122 percent, respectively with a subsequent increase in productivity of these crops by 120, 36, 8, 66 and 43 percent, respectively.
3. Adoption of SKUAST-K spray schedule: Prevelance of diseases and insect pests cause havoc to the fruit industry of Kashmir. The pests are causing an annual loss of hundreds of crores. Adoption of SKUAST-K spray schedule by farmers demonstrated by KVK Ganderbal has proved fruitful in control of diseases. As of now, the SKUAST-K recommended spray schedule is adopted by majority of fruit growers (>80%) of the district.
4. Management of chilli wilt disease: Chillo wilt is one of the most serious diseases of chilli in district Ganderbal. Management of chilli wilt through any of the practices (a) Seed treatment with carbendazim 50 WP+ Mancozeb (75 WP) 2 g/ kg of seed (b) Seedling dip in Carbendazim 50 WP+ Mancozeb (75 WP) @ 0.2% (c) Drenching root zone of plants with carbendazim 50 WP and Mancozeb 75 @ 0.3%, demonstrated by KVK Ganderbal had led to its widescale adoption. As of now, almost all the chilli growers are adopting this practice to manage the chilli wilt.

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

Name of specific technology/skill transferred	No. of participants	Number of adopters	Adoption rate (%)	Change in income (Rs.)		Increase in income (%)
				Before (Rs./unit)	After (Rs./unit)	
Rice (SR-2,SR-3, SR-4, SR-5)	373	242	64	3578	5035	40
Maize (C-15, C-7, C-4)	82	56	68	2174	3400	56
Oilseed (SS-2)	365	249	68	6694	8811	31
Peas (Rachna, Arkel)	152	63	41	3433	5846	70
Wheat (SW-1, SW-2)	54	36	66	2800	3550	26
Fodder Oats (Sabzaar, SFO-2, SFO-3)	108	97	90	2500	3250	30
Poultry (Vanraja, Kuroiler)	425	350	82	220/bird	270/bird	22
Dairy (ASMM, UMMB)	37	26	70	127 /day/cow	135 /day/cow	6

11.0 LINKAGES

11.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1. NABARD	Exposure visits & Trainings.
2. Deptt. of Agriculture	Diaganostic visits, Plant clinic camps, Kissangoshties, Field days, FLD's, Exhibitions, Farmers fair, Kissan mela, Training programmes
3. Deptt. of Horticulture	Diaganostic visits, Plant clinic camps, Kissangoshties, Field days, FLD's, Exhibitions, Farmers fair, Kissan mela, Training programmes
4. Deptt. of Animal Husbandry	Animal clinic camps, Farmers training, Diagnostic visits
5. Department of Sheep Husbandry	Animal clinic camps, Farmers training, Diagnostic visits

11.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage	Remarks
1	Trainings	Resource persons	-
2	Diagnostic visits	Resource persons	-
3	Method demonstration	Resource persons	-

Coordination activities between KVK and ATMA during 2024

S. No.	*Programme*	*Particulars*	*No. of programmes attended by KVK staff*	*No. of programmes Organized by KVK*	*Other remarks (if any)*
01	**Meetings**	-	-	-	The concerned ATMA of the district does not take KVK onboard while formulating the action plan or any other activity in related fields. The scientists of KVKs are just being invited as a resource person to deliver the lectures and demonstrations if any in the programmes conducted by the concerned line departments.
02	**Research projects**	-	-	-	
03	**Training programmes**	-	-	-	
04	**Demonstrations**	-	-	-	
05	**Extension Programmes**	-	-	-	
	Kisan Mela	-	-	-	
	Technology Week	-	-	-	
	Exposure visit	-	-	-	
	Exhibition	-	-	-	
	Soil health camps	-	-	-	
	Animal Health Campaigns	-	-	-	
	FFS	-	-	-	
06	**Publications**	-	-	-	
	Video Films	-	-	-	
	Books	-	-	-	
	Extension Literature	-	-	-	
	Pamphlets	-	-	-	
	Others News coverage	-	-	-	
07	**Other Activities**	-	-	-	

12. PERFORMANCE OF INFRASTRUCTURE IN KVK

12.1 Performance of demonstration units (other than instructional farm)

Sl. No.	**Demo Unit (Mention the name of Demo Unit)**	**Year of estt.**	**Area**	**Details of production**			**Amount (Rs.)**		**Remarks**
				Variety	**Produce**	**Qty.**	**Cost of inputs**	**Gross income**	
1	Dairy	2007	160 sqm	Jersey	Milk	7500 Lit		375000.00	-
2	Poultry	2007		Keystone	Chicks	7000 No.			-
3	Vermicomposting	2017	97.26 sqm	-	Vermicompost	626 qtls		9400.00	-
					Honey	14 qtls			
					Trichoderma	81 ltr		16200.00	

13. FINANCIAL PERFORMANCE

13.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	JK Bank , SKUAST-K Branch	Shalimar, Srinagar	--
With KVK	JK Bank Shuhama, Alusteng	Shuhama	CDG-0854010200000027
	-do-	Shuhama	SBG-0854040500000016

13.2 Utilization of KVK funds during the year (April 2024 to March, 2025) :(in lakhs)

S. No.	Particulars	Sanctioned	Released	Expenditure
24.1	**Recurring Contingencies**			
24.1.1	Pay & Allowances	189.099	189.099	189.099
24.1.2	Traveling allowances	2.75		2.75
24.1.3	Contingencies			
24.1.4.1 B	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material			
E	Frontline demonstration except oilseeds and pulses	13.13	13.13	13.14
F	On farm testing			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
24.1	Total Recurring			
24.2	Non-Recurring Contingencies			
24.2.1	Works			
24.2.2	Equipments including SWTL & Furniture (Photocopier)	4.30	4.30	4.30
24.2.3	Vehicle (Four wheeler/Two wheeler, please specify)			
24.2.4	Library			
24.2	Total Non-Recurring			
24.3	REVOLVING FUND			
24.4	GRAND TOTAL (A+B+C)	**209.27**	**209.27**	**209.27**

Revolving Fund

Opening balance as on 01.04.2024 (Rs.in Lakh)	Expenditure incurred during 2024-25 (Rs.in Lakh)	Receipts during 2024-25 (Rs.in Lakh)	Closing balance as on 31.3.2025 (Rs.in Lakh)
909957.00	**1947202.00**	**1195611.00**	**1661598.00**

ANNEXURES

DISTRICT PROFILE - I

1. General Census

Total Geographical Area	:	1045 Sq Km
Number of Tehsils	:	06
Number of Blocks	:	08
Number of Panchayats	:	112
Number of villages	:	139
Population	:	2.97 lakhs

Literacy

Total	**:**	**59.98%**
Annual Rainfall	:	1741.4 mm
Reported Area	:	39304 ha
Gross Area Sown	:	18121ha
Net Area Sown	:	13799 ha
Cropping intensity	:	128**%**

2. Agricultural & Allied Census:

Area, under major crops cultivated in the district (2023)

S. No	Crop	Area (ha)	Production (MT)	Productivity (MT ha^{-1})
01.	Fresh fruits	9720	105686	10.8
02.	Dry Fruits	5272	16156	3.06
03.	Rice	7746	43377	5.6
04.	Maize	3357	9735	2.9
05.	Wheat	23	57.5	2.5
06.	Oilseed	1745	1396	0.8
07.	Vegetable	2593	27486	10.6
08.	Pulses	1304	2347	1.8
09.	Fodder (Oats)	3809	43042	11.3

Agro-climatic Zones:

Higher belt – semi arid zone (Sonamarg and Kulan)
Mid belt – Temperate, mostly rain fed (Kangan and foot hills of Ganderbal)
Lower belt – Temperate mostly irrigated (Ganderbal and some areas of Kangan)

4. Agro-eco systems:

AES-1: Rocky soil, above 5200 ft ASL
AES-2: Clay loam / sandy soil, above 4900-4975 ft ASL
AES-3: Silty loam / Clay loam soil, above 4800 ft ASL

5. Major & micro- farming systems:

- Horticulture+Agriculture,
- Agriculture+ Horticulture+Animal Husbandry
- Animal Husbandry + Agriculture.

6. Major Production Systems:

- Paddy – Oilseed, Paddy – Pea, Paddy – Oats, Maize – Oats, Maize – Pea,
- Maize – Brown sarson, Rajmash – Pea, Moong – Oats.

7. Major agriculture and allied enterprises:

- Fruit production.
- Cereal production.
- Fish production.
- Vegetable production.
- Honey production.

Agro-ecosystem Analysis of the focus/target area - II

Names of villages, focus area, target area etc.

I. Batwina, Wakura, Ahan, Zazuna, Repora, Lar, Shalbugh, Gutlibagh, Yarmuqam, Sendbal.

II. Satrina, Anderwan, Wangath, Kulan, Cherwan.

1. **Survey methods used:** PRA &RRA.
2. **Various techniques used and brief documentation of process involved in applying the techniques used**
3. **Analysis and conclusions like release transect resource map, etc.**
4. **List of location specific problems and brief description of frequency and extent/ intensity/severity of each problem:**

- Use of old varieties.
- Low level input use.
- Very low adoption of seed treatment in vegetables & cereals.
- Low seed replacement rate.
- High plant density in cereals.
- Poor disease management in pulses.
- Feed & fodder deficiency during winter months.
- Poor disease management in cattle & sheep.
- Low milk yield.
- Low yielding backyard poultry birds.
- Faulty pruning.
- Low % of A grade apples.
- Lack of pollinizers in apple orchards.
- Disease & pests in fruit crops.
- Lack of cold storage facilities for fruits.
- Uncertainty of market price in apples.
- Spurious fungicides.

5. **Matrix ranking of problems:**

I. Disease & insect management in apple orchards.
II. Spurious fungicides.
III. Low percentage of 'A' grade apples.
IV. Lack of storage facilities for fruits.

V. Very low yields in apple orchards.
VI. Faulty pruning in apple.
VII. Small holding size.
VIII. Low level of input use.
IX. Value addition in vegetables.
X. Disease management in cattle.

6. List of location specific thrust areas:

1. Training & pruning.
2. INM, IDM & IPM.
3. Seed production.
4. ICM.
5. Off season vegetable production.
6. Protected cultivation.
7. Production of planting material.
8. Nursery raising.
9. Value addition.

7. List of location specific technology needs for OFT and FLD:

1. Availability of varieties of cereals, pulses &vegetables.
2. Timely availability of inputs, planting material, fungicides & nutrients.

8. Matrix ranking of technologies:

I. Seeds variety of cereals, vegetables & planting material.
II. IDM.
III. Crop rotation.
IV. INM.

9. List of location specific training needs:

- Trainings on pruning of fruit trees.
- Seed production of cereals & vegetables.
- Value addition of fruits, vegetables, meat and milk.
- Off-season vegetable production.
- Production of planting material of fruit crops.
- Raising of dwarf root stocks.

- Seedling production under controlled conditions.
- Seed treatment in cereals & Vegetables.
- Vocational trainings for income generation.
- Training programme on IDM, INM &IPM.

Technology Inventory and Activity Chart - III

Include

1. Names of research institutes: SKUAST – K, RRS, FVSc. &AH, FOF Benihama, FOF Rangil, FOA Wadura, Mountain Livestock Research Institute & Central Institute of Temperate Horticulture Srinagar.

2. Technology inventory

S. No	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference/ citation
1.	Alternative herbicides for weed control in rice	Rice	2023	KVK Ganderbal	-
2.	Management of root rot in apple	Apple	2022-23	KVK Ganderbal	
3.	Management of gummosis in stone fruits	Cherry	2022-23	KVK Ganderbal	
4.	Shalimar Fodder Maize-1	Maize	2021	SKUAST – K	---
5.	Shalimar Fodder Oats-3	Oats		SKUAST-K	
6.	Shalimar Sarson-2	Oilseed	2018	SKUAST – K	
7.	Shalimar Sarson-3	Oilseed	2018	SKUAST – K	
8.	Shalimar Rajmash-2	Rajmash	2017	SKUAST – K	
9.	Shalimar Rice-4	Paddy	2017	SKUAST – K	
10.	Shalimar Rice-5	Paddy	2017	SKUAST – K	
11.	Shalimar Rice-2 (variety)	Paddy	2014	SKUAST – K	
12.	Shalimar Rice-1(variety)	Paddy	2010	SKUAST – K	
13.	Jehlum (variety)	Paddy	1996	SKUAST – K	
14.	Shalimar KG Maize-1 (variety)	Maize	2005	FOA Wadura	
15.	Shalimar KG Maize-2 (variety)	Maize	2005	FOA Wadura	
16.	Shalimar Maize Composite-3 (variety)	Maize	2009	SKUAST – K	
17.	Shalimar Maize Composite-4 (variety)	Maize	2009	SKUAST – K	
18.	Shalimar Maize Hybrid-1 (variety)	Maize	2009	SKUAST – K	
19.	Shalimar Wheat-1 (variety)	Wheat	2005	SKUAST – K	
20.	KS-101 (variety)	Oilseed	1999	SKUAST – K	
21.	Sabzar (variety)	Oats	1996	SKUAST – K	
22.	Shalimar Rajmash-1(variety)	Rajmash	2005	SKUAST – K	
23.	Shalimar moong-1 (variety)	Moong	2005	SKUAST – K	
24.	Shalimar Tomato Hybrid-1 (variety)	Tomato	2009	SKUAST – K	

25.	Shalimar Brinjal Hybrid-1 (variety)	Brinjal	2009	SKUAST – K	
26.	Shalimar Capsicum Hybrid-1 (variety)	Capsicum	2009	SKUAST – K	
27.	Seed treatment with Mancozeb 75 WP @ 3 grams/Kg	Chillies	2005	SKUAST-K	
28.	Seedling dip with Carbendezim 50 WP @ 1 gram/ liter of water	Chilies	2005	SKUAST-K	
29.	Seed treatment with Mancozeb 75WP followed by spray of Tricyclozole 50 WP @0.06%.	Paddy	2003	SKUAST-K	
30.	Foliar spray of boric acid @ 0.2% & CaNO3 0.5%	Apple	2011	SKUAST-K	
31.	Soil application of Sulphur 20kg/ha	Onion	2009	SKUAST-K	
32.	Pre-sowing irrigation	Oilseed	2005	SKUAST-K	
33.	Seed inoculation	Pea	2005	SKUAST-K	
34.	Seed treatment	Vegetables	2001	SKUAST-K	
35.	Proper pruning and nutrient application	Apple	2000	SKUAST-K	

Activity Chart

Crop/Animal/ Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Rice	Low yield and high labour cost	Non availability of post emergence herbicide application recommendations	Application of Eros @0.5 kg/kanal (2-3 DAT) fb Nominee Gold @10 ml/kanal (20-25 DAT in 15 litres of water)		-
Mushroom	Lack of availability of oyster mushrooms	Lack of knowledge regarding oyster mushroom cultivation	Use of paddy straw as substrate for cultivation of oyster mushroom cultivation proved to be the best substrate for profitable cultivation o		-
Chilli	Wilting of plants, Plant death.	Lack of knowledge	Seed treatment with Trichoderma + Soil application with FYM impregnated with Trichoderma +seedling dip in Trichoderma +raised bed sowing + controlled irrigation		-

10. Details of each of the technology under Assessment, Refinement and demonstration

Crop/ enterprise	*Farming situation*	*Problem Diagnosed*	*Title of OFT*	*No. of trials*	*Technology Assessed*
1	2	3	4	5	6
Rice	Irrigated	Low yield, high labour cost and continued dependence on the same herbicide	Alternative herbicides for weed control in rice	03	T1: Butachlor fb hand weeding T2: Eros fb hand weeding T3: Eros fb Bispyribac sodium
Mushroom	Un-Irrigated	Lack of knowledge about production technology	Production technology of oyster mushroom cultivation	03	T0: Farmer's practice un-scientific cultivation of oyester mushroom T1: Use of paddy straw as substrate for cultivation of oyester mushroom T2:Use of fallen tree leaves as substrate for cultivation of oyster mushroom
Chilli	irrigated	Drooping and wilting	Integrated disease management of chilli wilt	03	T0: : Farmers Practice (No seed treatment, Flat bed sowing, High plant density, Flooding.) T1=Controlled irrigation+ridgesowing+Seedtreatment+Seedlingdip+Soil drenching with biocontrol agent (Trichoderma spp.@2x108 cfu ml-1) T2:Seed treatment +soil drenching with carbendazim+mancozeb75wp@ 0.3%
Poultry	Farmers are unaware about the effect of photoperiod on the egg production of layer chickens. They don't give additional light during winter (short-day period) and have no or low egg production.	Low or no egg production of layers during short day period (Oct-March)	Effect of additional light hours on the production performance of layer chickens	04	T0: Natural light hours. T1: 2-3 additional light hours for 3 months

Cattle	Farmers do not give additional feed or energy source during winter month when the energy demand of the dairy cow is high. This results in low milk production and consequently economic losses during the winter months	Low milk production during winter	Effect of feeding winter chocolate on production performance of dairy cattle	4	T0:Farmer practice T1: Feeding winter chocolate daily for 2 months
Grapes	Rainfed	Low productivity due to hen and chicked disorder	Assessment of foliar nutrient sprays for management of hen & chicken disorder of grapes	4	T1: Farmers practice T2: Three sprays of boric acid @1.5g/litre of water at bud swell, after petal fall and 21 days after second spray T3: Three sprays of GA3@ 40ppm at pre-bloom, after petal fall and third spray 21 days after second spray. T4: Combination of T2 and T3
Brown Sarson	Rainfed	Low oil content and yield.	Application of Sulphur and Born on oil content and yield of Brown Sarson	03	T1: Recommended NPK. T2: Recommended NPK + Sulphur (Gypsum). T3: T2 + Boron (0.2% Solubor)

Sl. No.	***Category***	***Farming Situation***	***Season and Year***	***Crop***	***Variety/ breed***	***Hybrid***	***Thematic area***	***Technology Demonstrated***
1	**Oilseeds**	Irrigated	Rabi 2023-24	Brown Sarson	SS-2	Variety	Crop production (ICM)	Integrated Crop Management
	Cereals							
1		Irrigated	Kharif 2023	Rice	SR-4	Variety	Crop production (ICM)	Integrated Crop Management
2		Irrigated	Kharif 2023	Maize	SMC-4	Variety	Crop production (ICM)	Integrated Crop Management
3		Irrigated	Kharif 2023	Maize	QPM-59	Variety	Nutritional security	Introduction of Maize (QPM-59) in Kitchen gardens
	Vegetables	Irrigated	Kharief/2023	Okra	SKBS 11		Nutritional security	Introduction of Okra in Kitchen gardens (SKBS-11)

Sl. No.	*Category*	*Farming Situation*	*Season and Year*	*Crop*	*Variety/ breed*	*Hybrid*	*Thematic area*	*Technology Demonstrated*
	Fruit							
1		Irrigated	Kharif 2023	Apple	Red Delicious	Variety	Disease Management (IDM)	Management of Canker in apple
2		Rainfed	Kharif 2023	Apple	Red Delicious	Variety	Disease Management (IDM)	Demonstration of SKUAST-K recommended spray schedule
	Fodder							
1		Irrigated	Rabi 2023-24	Oats	SFO-3	Variety	Crop production (ICM)	Integrated Crop Management
2		Irrigated	Rabi 2023	Maize	SFM-1	Variety	Fodder production for animals	Fodder production
3		Irrigated	Rabi 2023	Maize	Foragen Robust	Variety	Nutritional security	Introduction of Maize (Foragen Robust) in Kitchen gardens
	Dairy							
1	Poultry	-	2023	Poultry	Keystone white	Variety	Poultry management	Backyard poultry

11. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD and OFT

S. No.	Variety/Breed	Characters
1	Shalimar Sarson-2	Suitable upto an altitude of 1800 m amsl. Matures in 210-220 Days, high yielding (yield potential of 17 q/ha), with >42% oil content.
2	Shalimar Rice-4	High yielding, early maturing, cold tolerant variety, resistant to blast, erect plant type, easy threshability, recommended upto 1700 m amsl, matures in 135-140 days, with a yield potential of 8-9 t/ha
3	Shalimar Maize Composite-4	Recommended for mid altitude areas, between 1650-1800 m amsl, plant height is 180-210 cm, flint grains of orange yellow colour, matures in 140-150 days, yield potential of 5-6.5 t/ha and 10.6% protein content.
4	Shalimar Fodder Oats-3	Suitable for low-mid altitude (upto 6500 ft amsl), green fodder yield (380-400 q/ha), dry matter yield (80-85 q/ha), CP (8.9%), seed yield (25-27 q/ha)
6	Keystone White	Egg type breed, produces >250 eggs/year, breed white in colour, egg colour-white/brown
7	Vanraja	Dual purpose breed, produces around 150 eggs/year, Breed colour-Brown,/multi colour feather pattern egg colour-Brown

12. Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc., for technologies selected under FLD and OFT.
13. Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for FLD and OFT