(April 2022 to March 2023)
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. Ishfaq Abidi	Nowshera, Srinagar	9149506695 9419095742	kvkganderbal@gmail.com

1.4. Year of Sanction : 2002

1.5. Staff Position (as on 31st March 2023)

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	47	Plant Genetics & Breeding (Ph.D.)	143600	23rd June 2022	Permanent	Mobile: 9149506695 Email: ishfaqabidi@gmail.com	Others
2	SMS	Dr. Rafiya Munshi	43	Home Science (Ph.D.)	143600	3rd February 2022	-do-	Mobile: 9419079922, 9149757219 Email: rafiataf16@gmail.com	-do-
3	SMS	Dr. Shafat Ahmad Banday	54	Horticulture (Fruit Science) (Ph.D.)	135300	3rd May 2018	-do-	Mobile:9419011013 Email: sabshafat@gmail.com	-do-
4	SMS	Dr. Farooq Ahmad Ahanger	47	Plant Pathology (Ph.D.)	87300	1st September 2017	-do-	Mobile:9622412990 Email: ahanger123@gmail.com	-do-
5	SMS	Dr. Shaheen Farooq	44	Veterinary Microbiology (Ph.D.)	87300	4th February 2023	-do-	Mobile:9596399978 Email: shaheen_mvsc@yahoo.co.in	-do-
6	SMS	Dr. Eajaz Ahmad Dar	35	Agronomy (Ph. D.)	66800	18 Aug. 2020	-do-	Mobile:6005173112 Email: darajaz9@gmail.com	-do-
7	SMS	Vacant	-	Soil Science	57700	-	-	-	-
8	Programme Assistant (Lab Tech.)/T-4	Ms. Faiqa Syed	32	Fisheries	64900	15 Feb. 2022	-do-	faiqasyeed@gmail.com	-do-
9	Programme Assistant (Computer)/ T-4	Mr. Mohammad Iqbal Koul	41	Computer (PGDCA)	60400	19thDecember 2017	-do-	Mobile:9906890550 Email: iqbal.koul81@gmail.com	-do-
10	Programme Assistant/ Farm Manager	Vacant	-	Agronomy/ PBG	35400	-	-	-	-
11	Assistant/ Accountant	Mrs. Rubeeya Ashraf	46	Head Assistant	50500	14th Sept. 2021	-do-	Mobile: 7889631636 Email:-	-
12	Jr. Stenographer	Mr. Nisar Ahmad. Wani	42	Steno	27900	12th June 2019	-do-	Mobile: 7780812867 Email: -	-do-
13	Driver-1	Vacant	-	-	19900	-	-	-	-
14	Driver-2	Mr. Javaid Ahmad Gujri	45	Driver	25500	6th January 2017	-do-	Mobile:9541555837 Email: -	-do-
15	Skilled Supporting staff-1	Mr. Manzoor Ahmad Bhat	49	Lab. Attendant	27900	29th July 2015	-do-	Mobile:7780885703 Email: -	-do-
16	Skilled Supporting staff-2	Vacant	-	-	14800	-	-	-	-

1.6. Total land with KVK (in ha) :

S.No.	Item	Area (ha)
1.	Horticulture Nursery	0.20
2.	Apple Orchard	1.00
3.	HDP Block of apple	0.15
4.	Ambri Apple Block	0.10
5.	Mother block of clonal rootstock	0.10
6.	Mother block of Grape, Kiwi, Cherry, Plum & Walnut.	0.30
Agricultural Crop		
6.	Wheat (Shalimar Wheat-2)	0.40
7.	Oats (SFO-3) / Pulses	0.80
8..	Maize (SFM-1)	0.50
9.	Oilseed (SS-3)	0.40
10.	Vegetables	0.10
11.	a). Uncultivable area (to be developed)	7.30
	b). Recently developed area	4.00
12.	Under Division of Vegetable Science, SKUAST-K	2.00
13.	Area Under Division of Fruit Science, SKUAST-K	2.00
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	26285.00	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

1.8. A). Details of SAC meeting conducted in the year April 2022 to March 2023

S.No.	Date	Name and Designation of Participants	No. of absentees	Salient Recommendations	Action taken
1	25-8-2022	Prof. (Dr.) Nazir Ahmad Ganai, Honb'le Vice Chancellor, SKUAST-K	-	**Hon'ble Vice Chancellor, SKUAST-K, in his valedictory address stressed upon following:**	
2		Prof. (Dr.) Dil Mohammad Makhdomi, Director Extension, SKUAST-K		Dissemination of newly released varieties of cereals and fodder crops to the farmers of the District by KVK in collaboration with the Line Departments and identification of high yielding & high market value crops which can be cultivated for increasing income of the farmers.	KVK is in continuous process of demonstrating and disseminating newly released varieties of cereals viz; (Rice-SR2, SR4, SR5, Maize-SMC-4, SMC-7) and Fodder crops (Oats-SFO-2, Maize- SFM-1), Rajmash (SR-1, Moong (SM-1, Brown Sarson (SBS-1, Field Pea (SFP-1) under FLD, CFLD and other schemes in different blocks of the district in collaboration with the line departments.
3		Prof. M.T. Banday, Dean FVSc&AH, Shuhama.		Extension of Horti-Poultry Model across the District by incorporating more breeds of Poultry birds having higher market value. Alternate source of feed to be identified for poultry to reduce input cost.	In order to extend the outreach and benefits of Horti-Poultry model pioneered by this KVK. The Horti-Poultry model has been replicated at three locations Watlar, Repora & Yarmuqam in district Ganderbal and new breeds viz. Kroiler, Keystone, Austerlop and WLH having higher market values were introduced & incorporated in the model. Inputs for animal nutrition from other research stations are being received before recommending any alternate source of feed. Apple pomace and saffron petals have been identified as alternate source of feed for poultry.
4		Prof. Massarat Khan, Dean Faculty of Fisheries, Rangil.		To look for ways for increasing shelf life of winter chocolate in collaboration with FVSc and AH as a refinement of OFT.	OFT's has been laid at Watlar, Khalmulla, Repora and Lar for increasing shelf life of winter chocolate in collaboration with F.V.Sc & A.H and result once obtained shall be shared with the line departments, farmers and other stake holders.
5		Mr. Khursid Ahamd Najar, Extension Officer, Fisheries Dept. Ganderbal		Diversification and value addition of Horticulture crops with focus on quality packaging and marketing of different enterprises in	1.This year KVK has expanded the orchard area with establishment of 05 new blocks of fruit crops viz; Walnut, Kiwi, Grape, Plum, and Cherry to establish the mother blocks and subsequent large-scale multiplication

				collaboration with relevant departments.	of plants for diversification in horticulture crops. 2.Further, special focus has been given to develop new and improved value-added products, prominently Aloo Bukhara, Walnut cookies, Chocolate dipped walnut, walnut chikkies, plum jam, plum jelly, different pickles (mixed pickle, chilli pickle, fish pickle, beetroot), Behi products, herbal tea's, herbal masala tikki's, dried products viz; chilli powder, dried methi and dried spinach, Milk products – Cheese, Ghee, Desi butter, in addition to other products. 3. A mega programme with Line Departments, Divisions and institutes were organised to explore the market channels of different enterprises and inculcate entrepreneurship among unemployed youth, rural girls and farm women under Nation Rural Livelihood Mission. Efforts are on to identify assured market chains for different products with major players.
8		Ghulam Mohuldin Extension Officer		Registering of more farmers on Kissan Sarthi portal under the KVK for wider outreach of activities.	7062 farmers have been registered under Kisan Sarthi through this Kendra and further registration in going on for wider outreach.
9		Mohammad Younis Mir (KAS) Deputy Registrar		Home Science activities for income generation, value addition, women empowerment should be carried out in the District and their horizontal expansion should be noted.	Ten training programmes were conducted under different themes covering 280 participants of 8 blocks in collaboration with NRLM for the benefit of educated rural youth Krishi Sakhi and Pashu Sakhi's were also invited for income generation and skill orientation programmes along with unemployed tribal girls who were skilled in different aspects to encourage women empowerment and reduce drudgery.
10		Dr. Muneeer Ahmad Associate Prof.		The IFS Model propagated by the KVK to be further strengthened and the missing components to be addressed and added to the	The IFS model was strengthened with the addition of Apiculture, Mushroom and new breeds of Poultry and Rabbitry. Efforts are on its way to add

				existing model for better returns.	fisheries, sheep and bio-compost units to the existing model for better returns.
11		Dr. Ashwani Kumar Associate Prof.		Identification and promotion of areas for organic cultivation of potatoes, buckwheat, vegetables, pulses and other high value cash crops like Saffron and Kala Zeera across the District.	KVK Ganderbal has already taken an initiative for propagation and promotion of speciality crops in district Ganderbal and during the year 2022 evaluation trails for Saffron, Kalazeera, Organic potato and exotic vegetable were laid at KVK Farm. Different clusters of districts Ganderbal have been identified for promotion of organic cultivation like • Sarbal- Potato and Buck Wheat • Pati-shallabug- Exotic vegetables Haknar- Kulan- Pulse crop, White maize, Saffron and Kala Zeera.
12		Dr. Anaytullah Chesti Head		Fodder scarcity being a major problem faced by the farmers of the District, demonstration units/programmes regarding quality fodder production to be executed. Awareness programmes about perennial grasses at high altitudes to be carried out to combat fodder scarcity.	KVK Ganderbal took an initiative and was able to establish fodder cafeteria of annual/perennial fodder crops in which single and multicut oats, maize, fodder cowpea, berseem, alfalfa, fodder turnip and rye are being cultivated. The crops were selected to ensure round the year availability of fodders. Three awareness programmes regarding year-round and quality production of fodder were conducted in Surfraw, Mamar and Ganiwan areas of the district.
13		Dr. Nowsheen Qadri Technical Officer		Skill oriented training programmes and demonstrations regarding value addition of fruits and vegetables, cutting and tailoring, mushroom and apiculture may be organised in collaboration with different Faculties, Departments and SHGs of the District.	Seven days Skill-Oriented training programmes were conducted under Skill Training of Rural Youth in collaboration with Directorate of Extension, SKUAST-K a) Stitching & Tailoring b) Garment Construction c) Mushroom cultivation One day training programmes and workshops were conducted on a) Value addition of Tomato, Plum, Milk, Vegetables. b) Workshop on processing and value addition of Walnut Division of Food Science & Technology Hands on Training on value addition of Maize was conducted in collaboration with DARS Srinagar.

14		Sona-ullah Ganie Farmer		Emphasis should be on formation of FPOs/OFPOs for branding and tagging of crops like Walnut, Apple, Cherry, Grapes, Fish, Milk etc.	One OFPO on wool and pellet in collaboration with Department of Sheep Husbandry was registered and FPOs for walnut, fish, and Fruits are under process.
15		Ab. Rashid Lone Farmer		Advanced and low-cost structures for Grapes, Cherry, Plum should be established at KVK for wider dissemination and adoption by farmers in collaboration with Faculty of Agriculture Engineering.	The matter has been discussed and taken up with faculty of Agri-Engineering (They will come up with a practically suitable and cost-effective solution).
16		Zamrooda Bano Farmer		Production and development of Trichoderma and analyzing its effect in farmers field for control of diseases in Horticulture and other crops.	KVK has already initiated the process of production & development of Trichoderma at KVK but due to paucity of laboratory space, large-scale production has not been undertaken. Progressive farmers have been involved in this programme. At present two farmers of village Yangoora have been trained in production and process. They have now scientifically developed two batches of Trichoderma and utilized it for disease management in their orchards. Data is being analyzed and results shall be shared soon. Based on the results and success at field level the activity shall be extended to other villages and potential entrepreneurs will be identified for the successful transfer of technology.
17		Rubaini Taduva Farmer		Director Extension, SKUAST-K, in his valedictory address stressed upon following:	
18		DSO		Deliberations on low-cost housing model provided to Sheep Husbandry Department with respective field functionaries was made and it was stressed to popularize the low-cost housing model developed	The matter has been discussed and a request submitted to the Dean, FVSc&AH, Shuhama for framing a comprehensive programme with the concerned Department.

				by the University across the District for control of foot rot in animals. A comprehensive programme on low-cost housing model to be framed with the concerned Department for replication of this model in different areas of the District.	
19		Hilal Ahmad Hamdani		Dean FVSc & AH was asked to depute a team of doctors to visit the villages of the District every fortnight for catering Lumpy Skin Disease and vaccination of different animals to be undertaken at FVSc and AH, Shuhama.	Awareness/ trainings programm's on prevention of Lumpy Skin Disease in livestock were organized both on/ off-campus. Frequent field visits were carried-out by KVK team for on-spot assessment and subsequent management of LSD at block level based on the standard procedures. Further, a taskforce team was formulated by Dean FVSc to cater the contagious LSD. In this regard, field functionaries from Animal Husbandry Department were updated about the treatment regime/control measures like fumigation and vaccination on fortnightly basis. A survey was also conducted to report the incidence of the prevalence of LSD in District Ganderbal.
20		Bashir Ahmad Bhat		Regarding availability of Carp Hatchery, Dean Faculty of Fisheries was asked to undertake basic survey with KVK scientists and depute a team for technical supervision for establishing a Hatchery Unit in collaboration with Fisheries Department. Mr. Ashfaq Ahmad, young fish farmer emphasized on the timely availability of quality seed of carp in the	The matter has been discussed with Dean, Fisheries vide letter No.:AU/KVK/Gbl/2022-23/1259 as per the recommendations of the 18th SAC. A team of scientists has been nominated by Dean Fisheries to take a joint survey for establishment of the Carp Hatchery will be undertaken and the feasibility report shall be submitted for the purpose.

				area of Khanpora which has 25 carp rearing units. He requested for clubbing of farmers under FPO and described the need of a carp hatchery in the area.	
21		Zaitoona Begum Farmer		Land which is uncultivated and under Wild Acacia to be developed and financial resources to be explored in consultation with Director Strategic Planning & Monitoring.	The land area of about 04 kanals behind the administrative building which was earlier under wild Acacia and developed through Estates Department during the year 2021-22 but left mid-way was again refined and developed by KVK during the year 2022-23. Five fruit blocks of different crops have been established in the area and further diversity and expansion shall be carried-out in the coming season. In addition to the above a mega Land development programme has been undertaken on the instructions of the competent authority and an area of 100 kanals has been retrieved back without any financial implications on University
22		Saqlain Mushtaq Farmer		Awareness cum training programmes for Scientific Bee-keeping and Cultivation Technology of Mushrooms for rural women may be organized (Chief Agriculture/ Horticulture Officer)	Two Skill development training programme of 07 days each on Mushroom cultivation were organized at KVK Ganderbal benefiting 48 Farmers and Farm women. Besides, three training cum awareness programmes were conducted at KVK for Beekeeping and Mushroom cultivation respectively.
23		Ishfaq Rashid Bhat Farmer		Awareness programmes on High Density Apple cultivation having better market acceptability may be organized in the District and stressed on making FPOs on Grapes in potential grape areas (Chief Agriculture/ Horticulture Officer).	Three training programmes on HDP were conducted in different areas of the district. Exposure visit of farmers to HDP block at SKUAST-K, Shalimar was also undertaken. FPO on grapes has already been established by the district Administration. KVK is furnishing all the technical assistance to the farmers of the organization for developing a prospective business plan. We are also acting as a member of DMC on FPO's.

24		Syed Tajamul Hussain Shah		More programmes regarding animal health and diagnostic visits/animal camps should be conducted in collaboration with respective department (Veterinary Surgeons of Sheep Husbandry Dept.).	KVK has organized 26 diagnostic visits both need based and as routine to cater diseases like LSD, Mastitis, Repeat breeding, Infertility, Endo and Ectoparasitic infestations, Low milk yield etc. During the year KVK also organized 04 Animal clinical camps at Khanpora, Kachnambal, Babanagri and Baltal Sonmarg in collaboration with FVSc&AH and Line Departments of the district.
25		Mohammad Amin Bhat Farmer		Awareness camps regarding fish culture may be organized (Assistant Director Fisheries).	One off-campus training programme was conducted at Khanpora on common carp rearing and management. A workshop on Centrally Sponsored Schemes available for development of fisheries in Ganderbal was conducted at KVK in collaboration with Department of Fisheries.
26		Naseer Mohammad Dar Farmer		Training programmes on production of fingerlings, low-cost feed and quality seed production of fishes may be conducted in collaboration (Assistant Director Fisheries).	In-service training programme for promotion of Fish seed and Trout in Ganderbal was conducted at KVK campus. Further programmes shall be carried-out in current year to cater the increased demand of low cost fish feeds among farmers in collaboration with Fisheries department for which the request has already been submitted. (Letter to Assistant Director Fisheries has been forwarded).
27		Gulzar Ahmad Farmer		Suggested to conduct awareness programmes regarding formation of FPOs and registration under various laws under one umbrella in collaboration with the KVK for benefit of the farming community (Deputy Registrar Cooperatives).	Three on campus and 02 off-campus awareness cum training programmes were conducted at Kangan and Batwina for formulation of FPO/FPC/OFPO among the farmers, FIG's, Cooperative, CIG's and Line Departments to make them aware about the structures and functioning of these organizations.
28		Dr. Sumira Ramzan HDO Ganderbal		Farmers feed-back: -	
29		Showkat Ali Lone Hort. Tech.		Zaitoona Begum, Sarpanch Chunt Waliwar thanked the KVK & Directorate of Extension for reaching out to Waliwar and providing Quality Seed and chicks to	Two skill training programmes of 7 days duration on Stitching and Tailoring and Garment Construction were exclusively conducted for the participants form Chunt Waliwar. Further, input distribution cum

				farmers of the area. She hoped for more training and awareness programmes for the farmers of Chunt Waliwar and ensured full cooperation to the KVK.	awareness programmes for quality seed production of maize, potato, fodder, oilseed, vegetable were conducted to handhold tribal farmers and rural women of the area.
30		Mehran Amin Ganie Farmer		Mr. Sanaullah, progressive farmer appreciated the efforts of KVK in disseminating knowledge to the farmers of the District. He requested that for the year 2022-23, Shalimar Brown Sarson-2 and Shalimar Brown Sarson-3 may be provided to the farmers of the adjoining areas of the village.	KVK is continuously working for the farming community and making best possible varieties, expertise, timely interventions and monitoring available to the farming community of the district. During the year Shalimar Brown Sarson-2 was provided to 20 farmers of Kurhama for laying frontline demonstrations on an area of 5 hectares.
31		Sabya Zargar DPL		Mrs. Zamrooda, champion farmer of the District described the need of maintaining regular contact with the KVK for timely redressal of issues of the farming community. She requested for more awareness and training programmes on Lumpy Skin Disease and other diseases faced by dairy farmers.	The continuous technical support and handholding of Ms. Zamrooda, a progressive Champion farmer by KVK Ganderbal helped and engaged her to expand her venture and prently from 02 cows in 2016, she has now established dairy unit with 25 cows with an average daily milk production of 200 liters/day. It has not only let to increase in milk production and made her venture profitable but boosted her economy as well. Fortnightly training cum awareness programmes were conducted in different villages of Ganderbal (Repora, Nuner, Ganderbal, Watlar) to cater and control the LSD faced by the dairy farmers in collaboration with Faculty of Veterinary Sciences.
32		Sarfaraz Ahmad Accountant			
33		Nazir Ahmad Driver			
34		Khazir Mohammad Farmer			
35		Ab. Gaffar Driver			
36		Nazir Ahmad Driver			
37		Javid Ahmad Driver			

38		Muzafar Ahmad Farmer			
39		Javid Ahmad DPL			
40		Zamrooda Bano DPL			
41		Shameema Bano DPL			
42		Altaf Ahma Khan DPL			
43		Bashir Ahmad Dar DPL			
44		Mohammad Akbar Dar			
45		Mohammad Ismail Dar DPL			
46		Parvaiz Ahmad Dar DPL			
47		Firdousa Bano DPL			
48		Ishfaq Ahmad DPL			
49		Khursheed Ahmad DPL			
50		Sumaira Bano DPL			
51		Tabasum Ara DPL			
52		Ghulam Qadir Mir Farmer			

2. DETAILS OF DISTRICT (2022-23)

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 2022 to March 2023)

Month	Rainfall(mm)	Temperature ºC		Relative Humidity (%)
		Maximum.	Minimum	
April 2022	37.8	23.77	7.32	71.23
May 2022	65.8	25.52	10.57	78.26
June 2022	117.6	27.26333	13.33667	68.90
July 2022	177.8	27.81613	18.13871	75.87
Aug.2022	62.8	28.20968	16.86774	73.35
Sept.2022	20.0	28.7	13.15	82.30
Oct.2022	40.0	21.73548	4.890323	88.6
Nov.2022	98.6	13.7	1.083333	87.98
Dec.2022	8.0	9.841935	-3.16774	86.9
Jan. 2023	127.4	6.2	-2.00667	92.38
Feb.2023	194.8	12.71786	0.603333	97.44
March 2023	27.9	17.85806	3.719355	60.77

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 (2022-23)

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 mortality due to heat (high temp &RH) & cold stress (hailstorm& frost)	❖ 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. ❖ 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/ Manigam/ Watalbagh/	Grapes/ Apple/ Vegetables/ Rice/ Maize/ Pulses/ Oilseed/ Oats/ Livestock (Sheep/Poultry/Cattle).	➢ Anthracnose and powdery mildew of grapes. ➢ Hen and chicken disorder and berry cracking in grapes. ➢ Faulty Training and pruning in Grapes & Apple. ➢ Lack of knowledge about protected cultivation of off-season vegetables. ➢ Lack of knowledge on kitchen gardening and processing of fruits and vegetables	❖ Production and management technology for production high quality grapes. ❖ Foliar nutrient application to overcome micronutrient deficiencies. ❖ Scientific Training and Pruning in Grapes and Apple. ❖ Popularization of new SKUAST-K released varieties in Rice, Oilseed, Pulses & 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.	❖ 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, Oilsees 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. Protected cultivation for production of off-season vegetable seedlings. 12. Revival of local vegetable varieties. 13. Thrust on area and altitude specific vegetable cultivation. 14. 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***
07	07	20	22	220	250	150	186

3.A.1 FLDs Conducted under CFLDs on Oilseed

FLD (Oilseeds)			
Number of FLDs		**Number of Farmers**	
Targets	**Achievement**	**Targets**	**Achievement**
75	75	70	84

3.A.2 FLDs Conducted under CFLDs on Pulses

FLD (Pulses)			
Number of FLDs		**Number of Farmers**	
Targets	**Achievement**	**Targets**	**Achievement**
150	150	300	306

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	81	-	1935	-	299	-	3964
Rural youth	11	-	269	-		-	
Ext. Funct.	22	-	1621	-		-	
Total	**114**	**-**	**3825**	**-**	**299**	**-**	**3964**

Sale of Vegetables		Planting materials (Nos.)	
5		6	
Target	***Achievement***	***Target***	***Achievement***
Sale of Vegetables	(4851Nos)/ Rs. 12415.00	Sale of quality planting material	(1271Nos)/246650.00

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	***Achievement***	***Target***	***Achievement***
Sale of Milk Sale of Poultry	(4229Lit)/Rs. 190324 113 No./ Rs. 23070	Sale of Honey	(52.4Kgs)/Rs. 26200.00

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	Nursery management, Integrated crop management, & Integrated Disease Management.	Apple	Root & collar damage Recovery pecentage	Management of root rot disease in apple	-	08	03	-	14	-	-	-	-	-
2	Nursery management, Integrated crop management, & Integrated Disease Management.	Cherry	Gummosis leading to poor plant health and lesser yield	Management of gummosis in cherry for improved yield	-	06	-	-	11	-	-	-	-	-
3	Nursery management, Integrated crop management & Integrated Disease Management.	Apple	Low fruit set and productivity	-	Management of Canker in apple.	02	01	-	07	-	-	-	-	-
4	Nursery management, Integrated crop management, & Integrated Disease Management.	Grapes	Low productivity due to hen & chicken disorder	Assessment of foliar nutrient sprays for management of hen & chicken disorder of grapes	-	04	02	-	04	-	-	-	-	-
5	Soil and water conservation, soil testing	Soil Health	Blanket application of fertilizers	-	-	02	-	-	01	-	-	-	-	-

6	Seed production, SKUAST-K recommended Package of practices	Maize	Non-adoption of scientific method of cultivation, poor yield	-	Performance of different cultivars of Maize in the district.	03	-	-	06	-	-	-	-	-
7	Seed production, SKUAST-K recommended Package of practices	Rice	Low yield of rice	Alternative herbicides for weed control in rice	Demostration of various SKUAST-K released rice varieties in the district.	06	03	-	09	-	-	-	-	-
8	Popularization of high value crops	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Demonstartion of techniques for colour improvement in apple	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Dairy, poultry improvement, Management of diseases in animals	Dairy cattle	Low milk production during winter	Effect of feeding winter chocolate on production performance of dairy cattle.	-	14	03	-	08	-	-	-	-	-
11	Dairy, poultry improvement, Management of diseases in animals	Sheep/Cattle	-	-	-	04	05	-	07	-	-	-	-	-
12	Seed production, Demonstration of new varieties and SKUAST-K recommended Package of practices	Oats (SFO-3)	Low yield, poor seed replacement rate, and unavailability of fodder.	-	Fodder production	03	-	-	04	-	-	-	-	-
13	Seed production, Demonstration of new varieties and SKUAST-K recommended Package of practices	Fodder (KDFM-1)	Low yield, poor seed replacement rate, and unavailability of fodder.	-	Fodder production	04	-	-	03	-	-	-	-	-
14	Nursery management, Integrated crop management, & Integrated Disease Management.	Apple	Non adoption of SKUAST-K recommended spray schedule, high disease incidence, poor fruit quality, low yield and low returns	-	SKUAST-K recommended spray schedule	04	-	-	09	-	-	-	-	-
15	Seed production, Demonstration of new varieties and SKUAST-K recommended Package of practices	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Poultry, dairy development and integration of enterprises	Poultry	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	Demonstration of elite varieties of poultry	12	09	-	15	-	-	400	-	-

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

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	-	-	-	-	-	1	-	-	01
Integrated Farming System	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	2	-	-	**02**
Resource conservation technology	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-
TOTAL	**-**	-	-	-	-	**03**	**-**	**-**	**03**

***** *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	1	-	-	-	-	-	-	**01**
Disease of Management	-	-	-	-	-	-	-	**-**
Value Addition	-	-	-	-	-	-	-	**-**
Production and Management	-	1	-	-	-	-	-	**01**
Feed and Fodder	-	-	-	-	-	-	-	**-**
Small Scale income generating enterprises	-	-	-	-	-	-	-	**-**
TOTAL	**1**	**1**	**-**	**-**	**-**	**-**	**-**	**02**

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	-	-	-	-	-	-	-	-
Feed and Fodder		-	-	-	-	-	-	-
Small Scale income generating enterprises	-		-	-	-	-	-	-
TOTAL	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	Rice	Alternative herbicides for weed control in rice	3	3	0.80
	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	Maize	Organoleptic/ sensory evaluation of flat breads prepared from LQMH-1 flour.	1	3	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Total	-	-	**4**	**6**	**0.80**

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	-	-	-	-	-
Integrated Disease Management	Apple	Management of root rot disease in apple	3	3	0.15
	Cherry	Management of gummosis in cherry for improved yield	3	3	0.075
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	**-**	**-**	**09**	**09**	**0.25**

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	Cattle	Effect of feeding winter chocolate on production performance of dairy cattle	4	12
Disease management	-	-	-	-
Value addition	-	-	-	-
Production and management	Poultry	Effect of additional light hours on the production performance of layer chickens	4	50
Feed and fodder	-	-	-	-
Small scale income generating enterprises				
Total			**8**	**62**

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	-	-	-	-
Disease management	-	-	-	-
Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder	-	-	-	-
Small scale income generating enterprises				
Total	-	-	-	-

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

A. <u>Technology Assessment</u>

Trial 1

1)	Title:	Alternative herbicides for weed control in rice
2)	Problem diagnose/defined :	Low yield and high labour cost
3)	Details of technologies selected for assessment /refinement :	T1: Butachlor fb hand weeding T2: Eros fb hand weeding T3: Eros fb Bispyribac sodium
4)	Source of technology:	SKUAST-Kashmir.
5)	Production system thematic area:	Irrigated
6)	Thematic area:	Resource conservation
7)	Performance of the Technology with performance indicators:	Yield
8)	Final recommendation for micro level situation:	Application of Eros @0.5 kg/kanal (2-3 DAT) fb Nominee Gold @10 ml/kanal (20-25 DAT in 15 litres of water)
9)	Constraints identified and feedback for research:	Lack of knowhow regarding different herbicide options and proper herbicide application. Lack of availability of herbicide in the local market.
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 Assessed*	*Parameters*	*Data on the parameter*	*Results of refinement*	*Feedback from the farmer*
1	2	3	4	5	6	7	8	9	10
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	Yield	Table below	Table below	satisfactory

B. Table-1

Technology Assessed	**Production per unit (q/ ha) (Productivity)**	**Net Return (Rs.)**
11	**12**	**13**
T1: Butachlor fb hand weeding	75.5	118150
T2: Eros fb hand weeding	78.6	127680
T3: Eros fb Bispyribac sodium	82.8	136640

Note: Butachlor and Eros were applied@0.5 kg/kanal 2-3 days after transplanting, while as bispyribac sodium with the brand name of Nominee Gold was sprayed @10ml/kanal in 15 litres of water 20 days after transplanting.

Technology Assessed	**Production per unit (q/ ha) (Productivity)**		**Net Return (Rs.)**	
11	**12**		**13**	
	2021	**2022**	**2021**	**2022**
T1: Butachlor fb hand weeding	75.5	78.9	118150	93960
T2: Eros fb hand weeding	78.6	82.4	127680	103660
T3: Eros fb Bispyribac sodium	82.8	87.6	136640	115140

Grain yield (q/ha)	**Rate/q**	**total**	**Straw yield (Khur/ha)**	**Rate/100 Khur**	**total**	**Gross return (Rs/ha)**	**Gross cost (Rs./ha)**	**Net return (Rs/ha)**	**BC**
78.9	1400	110460	1000	50	50000	160460	66500	93960	1.412932331
82.4	1400	115360	1100	50	55000	170360	66700	103660	1.554122939
87.6	1400	122640	1200	50	60000	182640	67500	115140	1.705777778

Trial 2:

1)	Title:	Organoleptic/ sensory evaluation of flat breads prepared from LQMH-1 flour
2)	Problem diagnose/defined :	Local variety deficient in essential amino acids
3)	Details of technologies selected for assessment /refinement :	T0= farmers practice (local maize) T1= preparing flat breads (with and without fat) from LQMH1 T2= preparing from 50 % LQMH1 and 50% other flour. (with and without fat)
4)	Source of technology:	DARS and IIMR
5)	Production system thematic area:	Rainfed cereal based system
6)	Thematic area:	Varietal evaluation
7)	Performance of the Technology with performance indicators:	Flatbreads prepared from LQMH1 flour were highly accepted for its dough consistency, taste, color and overall acceptability by the consumers as compared to Local white on organoleptic evaluation.
8)	Final recommendation for micro level situation:	Local can be replaced with LQMH1 for consumption/ Nutrient replenishment
9)	Constraints identified and feedback for research:	Lack of breeders seed for mass distribution
10)	Process of farmers participation and their reaction:	Farm women were involved in the process of flour making / flat bread making. The formulations with and without addition of local flour/ fat were prepared and shared with the farm women. Its acceptability as compared to local was also evaluated among tribal families and their acceptance and adoption towards LQMH1 was highly significant.

B). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Maize	Rainfed	Local variety deficient in essential amino acids	Organoleptic/ sensory evaluation of flat breads prepared from LQMH-1 flour	1	T0= farmers practice (local maize) T1= preparing flat breads (with and without fat) from LQMH1 T2= preparing from 50 % LQMH1 and 50% other flour. (with and without fat)	Sensory evaluation+ End use	Overall acceptability score was highly Significant+ Was easily used in flatbread making for its dough consistency, taste, and colour.	Highly Significant	Highly Satisfied

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
Acceptability of LQMH1	N.A	N.A	N.A

Trial 3:

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:	Dairy production
6)	Thematic area:	Animal Nutrition
7)	Performance of the Technology with performance indicators:	Milk yield B:C Ratio
8)	Final recommendation for micro level situation:	On-going
9)	Constraints identified and feedback for research:	NA
10)	Process of farmers participation and their reaction:	Farmers reported the enhanced milk production and reproductive performance due to winter chocolates. However, many farmers reported spoilage of winter chocolates due to fungal growth.

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
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	1. Milk yield 2. B:C Ratio	See Table below	Farmers reported enhanced milk production and reproductive performance due to winter chocolates. However, few farmers reported spoilage of winter chocolates due to fungal growth.

Technology Assessed	Change in Average Milk yield/Cow/day	B:C Ratio
T0: Farmer practice	0.00	-
T1: Feeding winter chocolate daily for 2 months	1.27 litres	2.01

Trial 4:

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 for 3 months
4)	Source of technology:	SKUAST-Kashmir
5)	Production system thematic area:	Poultry production, Backyard Poultry
6)	Thematic area:	Production Management
7)	Performance of the Technology with performance indicators:	1. Percentage hens in lay 2. Average egg weight 3. Hen Housed Egg Production
8)	Final recommendation for micro level situation:	On-going
9)	Constraints identified and feedback for research:	NA
10)	Process of farmers participation and their reaction:	Farmers reported egg production during winter and are satisfied with the technology. They contact to KVK for any advisory & training related to backyard poultry.

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	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	1. Percentage hens in lay 2. Average egg weight 3. Hen Housed Egg Production	Refer to table below	Nil	-Farmer were satisfied about learning the effect of light on egg production -Farmers were happy to collect eggs during winter months when hens normally cease egg production. -Farmers reported that Hens came into lay earlier

Technology Assessed	**Percentage hens in lay**	**Average egg weight**	**Hen Housed Egg Production**
T0: Natural light hours	22%	51.2g	16.00%
T1: 2-3 additional light hours for 3 months	75%	52.8g	56.30%

B. **Technology Refinement**

Trial 1:

1)	Title:	Assessment of foliar nutrient sprays for management of hen & chicken disorder of grapes
2)	Problem diagnose/defined :	Low productivity due to the problem of hen and chicken disorder
3)	Details of technologies selected for assessment /refinement :	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 spray21 days after second spray. T4: Combination of T2 and T3
4)	Source of technology:	SKUAST-Kashmir
5)	Production system thematic area:	Rainfed Horticulture
6)	Thematic area:	Integrated Nutrient Management
7)	Performance of the Technology with performance indicators:	Results showed that incidence of short berries was reduced to 7.75 % by combination sprays. The productivity was highest (39.9 MT/Ha) compared to control (31.3 MT/Ha)
8)	Final recommendation for micro level situation:	Continued for one more season
9)	Constraints identified and feedback for research:	Since the grape belt is rainfed, so deficiency of nutrients due to low uptake affects the crop
10)	Process of farmers participation and their reaction:	Farmers participated and executed the trial in an efficient way and are satisfied that their problem which was ongoing from many years has been solved.

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**
Grapes	Rainfed	Low productivity due to hen and chicked disorder	Management of hen and chicken disorder	3	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	Percentage of short berries Production		On going	satisfied

Technology Assessed	***Production per unit (T/ha)**	**Net Return (Profit) in Rs. / unit**	**BC Ratio**
11	12	13	14
T1: Farmers practice	3.13	626000	1.56
T2: Three sprays of boric acid @1.5g/litre of water at bud swell, after petal fall and 21 days after second spray	3.17	674000	1.68
T3: Three sprays of GA3@ 40ppm at pre-bloom, after petal fall and third spray 21 days after second spray.	3.65	730000	1.82
T4: Combination of T2 and T3	3.99	798000	1.99

Trial 2:

1)	Title:	Management of Root rot disease of apple
2)	Problem diagnose/defined :	Root rot collar damage, Recovery percentage.
3)	Details of technologies selected for assessment /refinement :	T0: Farmer's practice (Removal of Soil from the root surface) T1: Soil drenching under tree canopy with Carbendazim + Mancozeb 75WP @ 0.5%. T2: Soil drenching under tree canopy with Captan + Hexaconazole 75WP @ 0.1%. T3: Removal of Soil from the root surface + Soil application with bio-agent (soil application with FYM impregnated with Bio-agent)
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 in management of root rot disease of apple.
8)	Final recommendation for micro level situation:	As per observations it is recommended that T1 and T2 proved best followed by T3 and results obtained were satisfactory
9)	Constraints identified and feedback for research:	NA
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*	*Data on the parameter*	*Results of refinement*	*Feedback from the farmer*
1	2	3	4	5	6	7	8	9	10
Apple	Irrigated	Root and collar damage Recovery percentage	Management of Root rot disease of apple	04	T0: Farmer's practice (Removal of Soil from the root surface) T1: Soil drenching under tree canopy with Carbendazim + Mancozeb 75WP @ 0.5%. T2: Soil drenching under tree canopy with Captan+Hexaconazole 75WP @ 0.1%. T3: Removal of Soil from the root surface + Soil application with bio-agent (soil application with FYM impregnated with Bio-agent)	Yield and net returns	0 60.08 63.67 52.66	The survival rate was better when infected trees were treated with T1 or T2 followed by T3	Farmers preferred T3 treatment provided it is available at farmers level as it is environment friendly than chemical applications (T1 OR T2)

Table: A Three years compiled mean data

Treatments	**Recovery percentage**				
	Watlar	**Batwina**	**Shuhama**	**Ahan**	**Mean**
Farmers Practice	0	0	0	0	0
Recommended-1(T1)	56.67	58.00	66.67	59.0	60.08
Recommended-2(T2)	58.67	66.67	68.67	60.67	63.67
Refinement practice (T3)	51.33	49.00	59.00	51.33	52.66

Table-1

Technology Assessed	**Production per unit (MT/ ha) (Productivity)**	**Net Return (Rs.)**
11	**12**	**13**
T0: Farmers practice (Removal of Soil from the root surface)	9.5	109615
T1:Soil drenching under tree canopy with Carbendazim + Mancozeb 75WP @ 0.5%.	13.5	178000
T2: Soil drenching under tree canopy with Captan+Hexaconazole 75WP @ 0.1%.	13.5	178000
T3: Removal of Soil from the root surface + Soil application with bio-agent (soil application with FYM impregnated with Bio-agent)	13.0	150000

Trial 3:

1)	Title:	Management of gummosis in cherry for improved yield
2)	Problem diagnose/defined :	Gummosis leading to poor plant health and lesser yield.
3)	Details of technologies selected for assessment /refinement :	T0: Farmers practice T1: Spray copper oxychloride (0.3%) after leaf fall + apply mashobra paste after cleaning the weeping wounds at the time of dormancy break and repeat the process on new lesions in following month+ spray Streptocycline (0.02%) before the onset of rainy season follwed by spray with Carbendazim + Mancozeb @ 0.05%.
4)	Source of technology:	HPKV Palampur & GBPAUT
5)	Production system thematic area:	Irrigated
6)	Thematic area:	IDM
7)	Performance of the Technology with performance indicators:	T1 treatment proved best in managing the gummosis in cherry.
8)	Final recommendation for micro level situation:	T1 treatment is recommended and results obtained were satisfactory
9)	Constraints identified and feedback for research:	NA
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*	*Data on the parameter*	*Results of refinement*	*Feedback from the farmer*
1	2	3	4	5	6	7	8	9	10
Cherry	Irrigated	Gummosis leading to poor plant health and lesser yield	Management of gummosis in cherry for improved yield	03	T0: Farmers practice T1: Spray copper oxychloride (0.3%) after leaf fall + apply mashobra paste after cleaning the weeping wounds at the time of dormancy break and repeat the process on new lesions in following month+ spray Streptocycline (0.02%) before the onset of rainy season follwed by spray with Carbendazim + Mancozeb @ 0.05%.	Yield and net returns	5.27 7.37	T1 treatment proved best in managing the gummosis in cherry as compared to farmers practice	Treating gummosis with T1 is very difficult as purchasing of various ingradients and mixing of those then their application is cumbersome job however treatment was T1 was better to recover the gummosis in cherry

Table-1

Technology Assessed	**Production per unit (MT/ ha) (Productivity)**	**Net Return (Rs.)**
11	**12**	**13**
T0: Farmer's practice (application of mud plaster on infected surfaces)	5.27	190800
T1: Spray copper oxychloride (0.3%) after leaf fall + apply mashobra paste after cleaning the weeping wounds at the time of dormancy break and repeat the process on new lesions in following month+ spray Streptocycline (0.02%) before the onset of rainy season follwed by spray with Carbendazim + Mancozeb @ 0.05%.	7.37	370000

PART 4 - FRONTLINE DEMONSTRATIONS

4.A. Summary of FLDs implemented during 2022-23

Sl. 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 2021-22	Brown Sarson	SS-2	Variety	Crop production (ICM)	Integrated Crop Management	10.0	20.0	-	28	28	-
	Pulses	Irrigated	Kharief/2022	Moong	(SM-1)		Nutritional security	Introduction of Moong in Kitchen Gardens	0.11	0.11	-	15	15	-
	Cereals													
1		Irrigated	Kharif 2022	Rice	SR-4	Variety	Crop production (ICM)	Integrated Crop Management	15.0	16.6	-	34	34	-
2		Irrigated	Kharif 2022	Rice	SR5	Variety	Crop production (ICM)	Integrated Crop Management	2.0	1.6	-	07	07	-
3		Irrigated	Kharif 2022	Maize	SMC-4	Variety	Crop production (ICM)	Integrated Crop Management	5.0	5.0	25	-	25	-
4		Irrigated	Kharif 2022	Maize	SMC-7	Variety	Crop production (ICM)	Integrated Crop Management	1.0	0.4	1	-	1	-
	Millets	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vegetables	Irrigated	Kharief/2022	Okra	SKBS 11		Nutritional security	Introduction of Okra in Kitchen gardens (SKBS-11)	0.20	0.20	-	45	45	-
	Flowers	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fruit													
1		Irrigated	Kharif 2022	Apple	Red Delicious	Variety	Disease Management (IDM)	Management of Canker in apple	0.15	0.15	-	5	5	-
2		Rainfed	Kharif 2022	Apple	Red Delicious	Variety	Disease Management (IDM)	Demonstration of SKUAST-K recommended spray schedule	1.0	1.0	-	10	10	-
	Spices and condiments	-	-	-	-	-	-	-	-	-	-	-	-	-
	Commercial	-	-	-	-	-	-	-	-	-	-	-	-	-
	Medicinal and aromatic	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fodder													
1		Irrigated	Rabi 2021-22	Oats	SFO-3	Variety	Crop production (ICM)	Integrated Crop Management	5.0	5.0	22	-	22	-

Sl. 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*	
2		Irrigated	Rabi 2022	Maize	KDFM-1	Variety	Fodder production for animals	Fodder production	-	0.40	-	4	4	-
	Dairy													
1	Poultry	-	2022	Poultry	Vanraja, Kroiler	Variety	Poultry management	Backyard poultry	-	400 units	50	-	50	-
	Piggery	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sheep and goat	-	-	-	-	-	-	-	-	-	-	-	-	-
	Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-
	IFS	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-
	Implements	-	-	-	-	-	-	-	-	-	-	-	-	-
	Others													

4.A. 1. Soil fertility status of FLDs plots during 2022-23

Sl. No.	*Category*	*Farming Situation*	*Season and Year*	*Crop*	*Variety/ breed*	*Hybrid*	*Thematic area*	*Technology Demonstrated*	*Status of soil (Kg/Acre)*			*Previous crop grown*
									N	*P*	*K*	
1	Oilseeds	Rainfed	Rabi 2021-22	Brown Sarson	SS-2	Variety	Crop production (ICM)	Variety, Time of sowing, pre-sowing irrigation, seed rate	295	26	275	Rice
	Pulses	Irrigated	Kharief/2022	Moong	(SM-1)	Variety	Nutritional security	Introduction of Moong in Kitchen Gardens	325	22	350	Pulse
	Cereals											
1		Irrigated	Kharif 2022	Rice	SR-4	Variety	Crop production (ICM)	Integrated Crop Management	290	22	245	Oilseed
2		Irrigated	Kharif 2022	Rice	SR-5	Variety	Crop production (ICM)	Integrated Crop Management	320	23	239	Oilseed
3		Irrigated	Kharif 2022	Maize	SMC-4	Variety	Crop production (ICM)	Integrated Crop Management	315	20	270	Fodder Oats
4		Irrigated	Kharif 2022	Maize	SMC-7	Variety	Crop production (ICM)	Integrated Crop Management	322	18	286	Fodder Oats
	Millets	-	-	-	-	-	-	-	-	-	-	-
	Vegetables	Irrigated	Kharief/2022	Okra	SKBS 11	Variety	Nutritional security	Introduction of Okra in Kitchen gardens (SKBS-11)	240	17	255	Vegetable
	Flowers	-	-	-	-	-	-	-	-	-	-	-
1	Fruit	Irrigated	Kharif 2022	Apple	Red Delicious	Variety	Disease Management (IDM)	Management of Canker in apple	205	13	215	-
		Rainfed	Kharif 2022	Apple	Red Delicious	Variety	Disease Management (IDM)	Demonstration of SKUAST-K recommended spray schedule	200	15	209	-
	Spices and condiments	-	-	-	-	-	-	-	-	-	-	-
	Commercial	-	-	-	-	-	-	-	-	-	-	-
	Medicinal and aromatic	-	-	-	-	-	-	-	-	-	-	-
	Fodder											
1		Irrigated	Rabi 2021-22	Oats	SFO-3	Variety	Crop production (ICM)	Integrated Crop Management	275	22	220	Maize
2		Irrigated	Kharif 2022	Maize	KDFM-1	Variety	Fodder production for animals	Fodder production	270	19	215	Fodder Oats
	Plantation	-	-	-	-	-	-	-	-	-	-	-
1	Dairy	-							-	-	-	-
2		-							-	-	-	-

Sl. No.	*Category*	*Farming Situation*	*Season and Year*	*Crop*	*Variety/ breed*	*Hybrid*	*Thematic area*	*Technology Demonstrated*	*Status of soil (Kg/Acre)*			*Previous crop grown*
									N	*P*	*K*	
1	Poultry		2021	-	Vanraja, Krouiler and Keystone	Variety	Poultry management	Backyard poultry	-	-	-	-
	Piggery	-	-	-	-	-	-	-	-	-	-	-
	Sheep and goat	-	-	-	-	-	-	-	-	-	-	-
	Button mushroom	-	-	-	-	-	-	-	-	-	-	-
-	Vermicompost	-	-	-	-	-	-	-	-	-	-	-
	IFS	-	-	-	-	-	-	-	-	-	-	-
	Apiculture	-	-	-	-	-	-	-	-	-	-	-
	Implements	-	-	-	-	-	-	-	-	-	-	-
	Others											

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																			
Brown Sarson	Integrated Crop Management	SS-2	Variety	Irrigated	28	20.0	14.9	14.6	14.75	10.5	40.5	30000	88500	58500	1.95	28500	63000	34500	1.21
Pulses	Introduction of Moong in Kitchen Gardens	SM-1	Variety	Irrigated	15	0.11	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
Cereals																			
Rice	Integrated Crop Management	SR-4	Variety	Irrigated	34	16.6	82.6	79.6	81.1	73.5	10.3	66700	161300	94600	1.42	65200	147900	82700	1.27
Rice	Integrated Crop Management	SR-5	Variety	Irrigated	7	1.6	54.5	47.4	50.95	36.8	38.5	63450	110000	46550	0.73	61200	91520	30320	0.50
Maize	Integrated Crop Management	SMC-4	Variety	Irrigated	25	5.0	50.6	43.5	47.05	37.4	25.8	49500	141150	91650	1.85	48000	112200	64200	1.34
Maize	Integrated Crop Management	SMC-7	Variety	Irrigated	1	0.4	49.2	43.6	46.4	35.6	30.3	49500	139200	89700	1.81	48000	106800	58800	1.23
Millets	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetables	Introduction of Okra in Kitchen gardens (SKBS-11)	SKBS-11	Variety	Irrigated	45	0.23	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
Flowers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ornamental	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruit																			
Apple	Management of Canker in apple	Red delicious	Variety	Irrigated	5	0.15	15	14	13.5	9.5	37.5	76000	172500	96500	2.27	60200	95000	34800	1.51
Apple	Demonstration of SKUAST-K recommended spray schedule	Red delicious	Variety	Rainfed	10	1	15	13	14	9.1	42.3	78000	170000	92000	2.18	65300	99400	34100	1.52
Spices and condiments	-	-	-	-	-														
Commercial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medicinal and aromatic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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										
Fodder																			
Oats	Integrated Crop Management	SFO-3	Variety	Irrigated	22	5.0	384	337	360.5	258	39.7	32000	108150	76150	2.38	30000	77400	47400	1.58
Maize	Fodder production	KDFM-1	Variety	Irrigated	4	0.4	422	395	408.5	325	25.7	29000	102125	73125	2.52	28000	81250	53250	1.90

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 (q/ha)				% Increase	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
					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	Vanraja, Kroiler	50	400	Weight gain=3.04kg at 1 year Age of laying=6 months Egg production: 133 eggs per year	Weight gain=2.2 kg at 1 year Age of laying=8.5 months Egg production: 96 eggs per year	Weight gain=2.8 kg at 1 year Age of laying=7.3 months Egg production: 123 eggs per year	Weight gain=1.5 kg at 1 year of age Age of laying=12 months Egg production=70 eggs/year/bird	87 76	670	1610	940	1.40	380	810	430	1.13
Rabbitry		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pigerry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sheep and goat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duckery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.) Nil

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**
-	-	-

4. B.3. Fisheries Nil

Type of Breed	*Name of the technology demonstrated*	*Breed*	*No. of Demo*	*Units/ Area (m^2)*	*Yield (q/ha)*				*% Increase*	**Economics of demonstration Rs./unit) or (Rs./m2)*				**Economics of check Rs./unit) or (Rs./m2)*			
					Demo			*Check if any*		*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*	*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*
					H	L	A										
Common carps	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.) Nil

Data on other parameters in relation to technology demonstrated		
Parameter with unit	***Demo***	***Check if any***
-	-	-

4.B.4. Other enterprises

Enterprise	*Name of the technology demonstrated*	*Variety/ species*	*No. of Demo*	*Units/ Area {m^2}*	*Yield (q/ha)*				*% Increase*	**Economics of demonstration (Rs./unit) or (Rs./m2)*				**Economics of check (Rs./unit) or (Rs./m2)*			
					Demo			*Check if any*		*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*	*Gross Cost*	*Gross Return*	*Net Return*	*** BCR*
					H	L	A										
Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.) Nil

Data on other parameters in relation to technology demonstrated		
Parameter with unit	***Demo***	***Check if any***
-	-	-

4.B.5. Extension and Training activities under FLD

Sl.No.	*Activity*	*No. of activities organized*	*Number of participants*	*Remarks*
1	Field days	24	263	-
2	Farmers Training	14	298	-
3	Media coverage	11	-	-
4	Training for extension functionaries	-	-	-
5	Others (Please specify)	58	241	-

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

A) ON 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	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	1	22	0	22	-	-	0	22	0	22
Cropping Systems	1	18	0	18	-	-	0	18	0	18
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	1	22	2	24	-	-	-	22	2	24
Micro irrigation/irrigation	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	1	16	4	20	-	-	-	16	4	20
Soil & water conservation	-	-	-	-	-	-	-	-	-	-
Integrated nutrient Management	2	40	3	43	-	-	-	40	3	43
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Others	1	-	10	10	-	-	-	-	10	10
Total	**7**	**62**	**10**	**72**	**-**	**-**	**-**	**62**	**10**	**72**
Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	18	-	18	-	-	-	18	-	18
Off0season vegetables										
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
Others										
Total (a)										
b) Fruits										
Training and Pruning	-	-	-	-	-	-	-	-	-	-

Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	2	40	3	43	-	-	-	40	3	43
Management of young plants/orchards	1	15	-	15	-	-	-	15	-	15
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
Others	1	16	-	16	-	-	-	16	-	16
Total (b)										
c) Ornamental Plants										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (c)	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (d)	-	-	-	-	-	-	-	-	-	-
e) Tuber crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (e)	-	-	-	-	-	-	-	-	-	-
f) Spices										
Production and Management technology	-	-	-	-	-	-	-	-	-	-

Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (f)	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (g)	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Integrated water management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Balance Use of fertilizer	-	-	-	-	-	-	-	-	-	-
Soil & water testing	1	17	3	20	-	-	-	17	3	20
others	-	-	-	-	-	-	-	-	-	-
Total	1	17	3	20	0	0	0	17	3	20
Livestock Production and Management										
Dairy Management	4	119	3	122	-	-	0	119	3	122
Poultry Management	3	23	16	39	-	-	0	23	16	39
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management										
Disease Management	2	49	-	49	-	-	-	49	-	49
Feed & fodder technologies	1	15	19	34	3	-	3	18	19	37

Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Others	1	70	36	106	-	-	-	70	36	106
Total	11	279	91	370	13	-	13	292	91	383
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	-	10	10	-	-	-	-	10	10
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	1	27	16	43	-	-	-	27	16	43
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Processing & cooking	1	16	16	32	-	-	-	16	16	32
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	3	18	39	57	12	9	21	30	48	78
Women empowerment	-	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
Others	2	32	9	41	11	1	12	52	10	62
Total	8	83	90	173	23	10	33	106	100	206
Agril. Engineering										
Farm machinery & its maintenance	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-

Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Plant Protection										
Integrated Pest Management	2	45	16	61	-	-	-	45	16	61
Integrated Disease Management	6	67	10	77	60	-	60	127	10	137
Bio-control of pests and diseases	1	18	9	27	-	-	-	18	9	27
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Others	5	26	67	93	-	-	-	26	67	93
Total	14	129	93	444	60	0	60	189	93	282
Fisheries										
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
Others										

Total	-	-	-	-	-	-	-	-	-	-
Production of Input at site										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio0agents production	-	-	-	-	-	-	-	-	-	-
Bio0pesticides production	-	-	-	-	-	-	-	-	-	-
Bio0fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi0compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee0colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Capacity Building and Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	1	16	9	25	-	-	-	16	9	25
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	1	16	9	25	-	-	-	16	9	25
Agro forestry										
Production technologies	-	-	-	-	-	-	-	-	-	-

Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Grand Total	54	709	305	1236	96	10	106	805	315	1120
(B) RURAL YOUTH										
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi0culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	1	-	11	11	-	-	-	-	11	11
Bee0keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	2	11	40	51	-	-	-	11	40	51
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying										
Sheep and goat rearing	1	-	17	17	-	-	-	-	17	17
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	1	-	21	21	-	-	-	-	21	21
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-

Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	1	16	-	16	-	-	-	16	-	16
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
other	2	37	8	45	-	-	-	37	8	45
Total	8	58	97	155	19	0	19	77	97	174
(C) Extension Personnel										
Productivity enhancement in field crops	3	132	45	177	-	-	-	132	45	177
Integrated Pest Management	2	67	30	97	-	-	-	67	30	97
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	2	79	40	119	-	-	-	79	40	119
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	1	132	30	162	-	-	-	132	30	162
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	1	43	33	76	-	-	-	43	23	76

Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production										
Household food security	-	-	-	-	-	-	-	-	-	-
Other	12	603	193	796	-	-	-	603	193	796
Total	21	1056	371	1427	0	0	0	1056	371	1427

B) 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	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	1	-	-	-	46	-	46	46	-	46
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Micro irrigation/irrigation	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Soil & water conservation	1	-	-	-	27	42	69	27	42	69
Integrated nutrient Management	1	25	-	25	-	-	-	25	0	25
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Others	1	25	-	25	-	-	-	25	-	25
Total	4	50	-	50	73	42	115	123	42	165
Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off0season vegetables	-	-	-	-	-	-	-	-	-	-

Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (a)	-	-	-	-	-	-	-	-	-	-
b) Fruits										
Training and Pruning	1	35	-	35	-	-	-	35	-	35
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	2	35	-	35	48	-	48	83	0	83
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
Others										
Total (b)	3	94	-	94	48	-	48	142	-	142
c) Ornamental Plants										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (c)	-	-	-	-	-	-	-	-	-	-
d) Plantation crops										

Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (d)	-	-	-	-	-	-	-	-	-	-
e) Tuber crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (e)	-	-	-	-	-	-	-	-	-	-
f) Spices										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (f)	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (g)	-	-	-	-	-	-	-	-	-	-
Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Integrated water management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-

Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Balance Use of fertilizer	-	-	-	-	-	-	-	-	-	-
Soil & water testing	-	-	-	-	-	-	-	-	-	-
others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Livestock Production and Management										
Dairy Management	1	18	-	18	-	-	-	18	-	18
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-
Disease Management	2	50	-	50	-	-	-	50	-	50
Feed & fodder technologies	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	1	-	15	15	-	-	-	-	15	15
Others	-	-	-	-	-	-	-	-	-	-
Total	4	68	15	83	0	0	0	68	15	83
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	-	15	15	-	-	-	-	15	15
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	2	-	24	24	-	-	-	-	24	24

Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Processing & cooking	2	64	7	71	-	-	-	64	7	71
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	1	-	15	15	-	-	-	-	15	15
Women empowerment	-	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	1	-	11	11	-	-	-	-	11	11
Others	1	30	8	38	-	-	-	30	8	38
Total	8	94	80	174	0	0	0	94	80	174
Agril. Engineering										
Farm machinery & its maintenance	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Plant Protection										
Integrated Pest Management	3	82	-	82	-	-	-	82	-	82

Integrated Disease Management	3	77	6	83	-	-	-	77	6	83
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Others	2	-	-	-	74	11	85	74	11	85
Total	8	159	6	165	74	11	85	257	17	274
Fisheries										
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Production of Input at site										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio0agents production	-	-	-	-	-	-	-	-	-	-
Bio0pesticides production	-	-	-	-	-	-	-	-	-	-
Bio0fertilizer production	-	-	-	-	-	-	-	-	-	-

Vermi0compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee0colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Capacity Building and Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Agro forestry										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Grand Total	27	489	101	590	195	53	248	684	154	838

(B) RURAL YOUTH										
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi0culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee0keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-

Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
other	3	-	56	56	28	11	39	28	67	108
Total	3	-	56	56	28	11	39	28	67	108
(C) Extension Personnel										
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-

Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	1	163	31	194	-	-	-	163	31	194
Household food security	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	1	163	31	194	0	0	0	163	31	194

C) 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	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	1	22	-	22	-	-	-	22	-	22
Cropping Systems	2	18	-	18	46	-	46	64	-	64
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Micro irrigation/irrigation	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Soil & water conservation	-	-	-	-	-	-	-	-	-	-
Integrated nutrient Management	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Others	2	25	10	35	0	0	0	25	10	35
Total	8	112	10	122	73	42	115	185	52	237
Horticulture										
a) Vegetable Crops										

Production of low volume and high value crops	1	18	-	18	-	-	-	18	-	18
Off0season vegetables	1	16	-	16	-	-	-	16	-	16
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
Others	1	24	6	30	-	-	-	24	6	30
Total (a)	3	58	6	64	0	0	0	58	6	64
b) Fruits										
Training and Pruning	1	35	0	35	-	-	-	35	-	35
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	1	10	3	13	-	-	-	10	3	13
Management of young plants/orchards	3	50	-	50	48	-	48	98	-	98
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
Others	3	64	-	64	-	-	-	64	-	64
Total (b)	8	159	3	162	48	0	48	207	3	210
c) Ornamental Plants										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-

Total (c)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (d)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (f)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total (g)	0	0	0	0	0	0	0	0	0	0
Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Integrated water management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-

Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Balance Use of fertilizer	-	-	-	-	-	-	-	-	-	-
Soil & water testing	1	17	3	20	-	-	-	17	3	20
others	-	-	-	-	-	-	-	-	-	-
Total	1	17	3	20	0	0	0	17	3	20
Livestock Production and Management										
Dairy Management	4	127	3	130	-	-	-	127	3	130
Poultry Management	3	23	16	39	-	-	-	23	16	39
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	1	13	17	30	10	-	10	23	17	40
Disease Management	4	99	-	99	-	-	-	99	-	99
Feed & fodder technologies	1	15	19	34	3	-	3	18	19	37
Production of quality animal products	1	-	15	15	-	-	-	-	15	15
Others	1	70	36	106	0	0	0	70	36	106
Total	15	347	106	453	13	0	13	360	106	466
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	-	25	25	-	-	-	-	25	25
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	3	27	40	67	-	-	-	27	40	67

Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Processing & cooking	3	80	23	103	-	-	-	80	23	103
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	4	18	54	72	12	9	21	30	63	93
Women empowerment	-	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	1	-	11	11	-	-	-	-	11	11
Others	2	52	17	69	11	1	12	63	18	81
Total	15	177	170	347	23	10	33	200	180	380
Agril. Engineering										
Farm machinery & its maintenance	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	0	0	0	0	0	0	0	0	0	0
Plant Protection										
Integrated Pest Management	6	143	16	159	-	-	-	143	16	159

Integrated Disease Management	9	143	16	159	60	-	60	203	16	219
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Others	7	26	67	93	74	11	85	100	78	178
Total	22	312	99	633	134	11	145	446	110	556
Fisheries										
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Production of Input at site										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio0agents production	-	-	-	-	-	-	-	-	-	-
Bio0pesticides production	-	-	-	-	-	-	-	-	-	-
Bio0fertilizer production	-	-	-	-	-	-	-	-	-	-

Vermi0compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee0colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Capacity Building and Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	1	16	9	25	-	-	-	16	9	25
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	1	16	9	25	0	0	0	16	9	25
Agro forestry										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Grand Total	81	1198	406	1826	291	63	354	1489	469	1935

(B) RURAL YOUTH										
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi0culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	1	-	11	11	-	-	-	-	11	11
Bee0keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	2	11	40	51	-	-	-	11	40	51
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post-Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	1	14	-	14	19	-	19	33	-	33
Sheep and goat rearing	1	0	17	17	0	0	0	0	17	17
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	1	0	21	21	0	0	0	0	21	21
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-

Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	1	16	-	16	-	-	-	16	-	16
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
other	4	17	64	81	28	11	39	45	75	120
Total	11	58	153	211	47	11	58	105	164	269
(C) Extension Personnel										
Productivity enhancement in field crops	3	132	45	177	-	-	-	132	45	177
Integrated Pest Management	2	67	30	97	-	-	-	67	30	97
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	2	79	40	119	-	-	-	79	40	119
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	1	132	30	162	-	-	-	132	30	162
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-

Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	1	43	33	76	-	-	-	43	23	76
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production										
Household food security	-	-	-	-	-	-	-	-	-	-
Other	12	603	193	796	-	-	-	603	193	796
Total	21	1056	371	1427	0	0	0	1056	371	1427
Grand Total	**84**	**1256**	**559**	**2037**	**338**	**74**	**412**	**1594**	**633**	**2227**

Details of Training programmes during the year 2022-23

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	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
04-04-2022	Farmers	Training cum awareness campaign on pesticide spray schedule of SKUAST-K for apple insect pest and diseases (Venue: Kurhama)	Plant Protection	IPM	01	Off Campus	-	-	-	22	-	22	22	-	22
05-04-2022	Farmers	Training cum awareness campaign on pesticide spray schedule of SKUAST-K for apple insect pest and diseases (Venue: Gunzhama)	Plant Protection	IPM	01	Off Campus	-	-	-	29	-	29	29	-	29
06-04-2022	Farmers	Training cum awareness campaign on pesticide spray schedule of SKUAST-K for apple insect pest and diseases (Venue: Youngoora)	Plant Protection	IPM	01	Off Campus	-	-	-	31	-	31	31	-	31
6-04-2022	Farmers	Management of mastitis in dairy cattle (Venue: Gunzhama)	Animal Science	Dairy Management	01	Off Campus	-	-	-	18	-	18	18	-	18
15-04-2022	Rural Youth	Including nutrient rich vegetables in kitchen gardens to promote Nutri-Garden (Venue: Repora).	Home Science	Household food security	01	Off Campus	-	-	-	-	32	32	-	32	32
19-4-2022	Farmers	Importance of dewormimg and Vaccination in livestock (Venue: Gutlibagh).	Animal Science	Disease management	01	Off Campus	-	18	18	-	-	-	-	18	18
19-04-2022	Farmers	Including nutrient rich vegetables in kitchen gardens to promote Nutri-Garden (Venue: Gutlibagh).	Home Science	Household food security	01	Off Campus	-	-	-	-	15	15	-	15	15
06-5-2022	Farmers	IDM and IPM of important insect pests and disease of stone fruits (Venue: Gutlibagh)	Plant Protection	IDM	01	On-Campus	27	-	27	-	-	-	27	-	27

09-5-2022	Farmers	IDM of collar rot and root rot disease in apple (Venue: Khalmulla)	Plant Protection	IDM	01	On-Campus	-	-	-	20	-	20	20	-	20
10-5-2022	Farmers	Application of Spray Schedule and Safe Handling of Pesticides (Venue: Wayil Wudar)	Plant Protection	IDM	01	On-Campus	33	-	33	-	-	-	33	-	33
12-5-2022	Farmers	Management of repeat breeding/ infertility in high yielding cows (Venue: Khanpora)	Animal Science	Dairy	01	On-Campus	-	-	-	35	-	35	35	-	35
11-5-2022	Farmer	Importance of Boron & Calcium in quality fruit production (venue: Baba Wayil)	Horticulture	Management of orchards	01	Off-Campus	48	-	48	-	-	-	48	-	48
24-5-2022	Rural Youth	Value addition of bakery products (Bread, cupcakes, loafs & Parathas) (Venue: On-campus)	Home Science	Value addition	01	On-Campus	-	-	-	11	16	27	11	16	27
03-6-2022	Farmers	Nutritional management of dairy (Venue: On-campus)	Animal Science	Dairy	01	On-Campus	-	-	-	16	03	19	16	03	19
10-6-2022	Farmers	IDM in vegetable crops (Venue: Ahan)	Plant Protection	IDM	01	Off-Campus	-	-	-	16	6	22	16	6	22
10-6-2022	Farmers	Scope of vegetable processing in District Ganderbal (Venue: Ahan)	Home Science	Processing	01	Off-Campus	-	-	-	16	7	23	16	7	23
16-6-2022	Farmers	IDM in Paddy (Venue: Badergund)	Plant Protection	IDM	01	Off-Campus	-	-	-	20	-	20	20	-	20
23-6-2022	Farmers	Clean Milk Production (Venue: Repora)	Animal Science	Production of quality animal products	01	Off-Campus	-	-	-	-	15	15	-	15	15
21-6-2022	Farmers	Balanced use of fertilizers (Venue: Badergund)	Crop Production	INM	01	Off-Campus	-	-	-	25	-	25	25	-	25
21-6-2022	Farmers	Region specific agroforestry (Venue: Badergund)	Crop Production	Others	01	Off-Campus	-	-	-	25	-	25	25	-	25
28-6-2022	Farmers	Development of fortified food products (Nutri-roll) for school going children (Venue: Repora)	Home Science	Design& development of high nutrient diet	01	Off-Campus	-	-	-	-	12	12	-	12	12

4-6 July 2022	Farmers	Three days entrepreneurship programme on production, value addition in fish for ST youth at KVK Ganderbal	Home Science	Value addition	03	On-Campus	12	9	21	-	-	-	12	9	21
6-7-2022	Farmers	Scientific Management of Backyard Poultry at KVK Ganderbal	Animal Science	Poultry	01	On-Campus	-	-	-	-	32	32	-	32	32
14-7-2022	Farmers	Feed formulation for dairy cows at Repora	Animal Science	Feed &fodder management	01	Off-Campus	-	-	-	-	10	10	-	10	10
14-7-2022	Farmers	Development of nutrient efficient meals for school going children and women at risk under ICAR Mega Project in Nutri Smart Village of Repora	Home Science	Women & childcare	01	Off-Campus	-	-	-	-	11	11	-	11	11
18-7-2022	Farmers	Importance of Boron & Calcium in quality fruit production at KVK Ganderbal	Horticulture	Management of orchards	01	On-Campus	-	-	-	15	-	15	15	-	15
20-7-2022	Farmers	IPM & IDM in Apple at Batwina	Plant Protection	IDM	01	Off-Campus	-	-	-	41	-	41	41	-	41
20-7-2022	Farmers	Scope of vegetable processing in District Ganderbal at Batwina	Home Science	Processing	01	Off-Campus	-	-	-	48	-	48	48	-	48
20-7-2022	Farmers	Need and scope of FPOs in district Ganderbal at Batwina	Home Science	Capacity building	01	Off-Campus	-	-	-	30	8	38	30	8	38
24-7-2022	Farmers	Entrepreneurship in livestock farming at KVK Ganderbal	Animal Science	Others	01	On-Campus	-	-	-	37	-	37	37	-	37
28-7-2022	Farmers	Preparation of “Nutri cutlets” under Gender & Nutrition ICAR mega project at Repora.	Home Science	Design& development of high nutrient diet	01	Off-Campus	-	-	-	-	12	12	-	12	12
29-7-2022	Rural Youth	Fruit processing – Jam & Jelly making at KVK Ganderbal.	Home Science	processing	06	On-Campus	-	-	-	-	12	12	-	12	12
4-8-2022	Farmers	Management of Mastitis in Dairy Cattle at KVK Ganderbal	Animal Science	Dairy	01	On-Campus	58	-	58	-	-	-	58	-	58
6-8-2022	Farmers	Awareness cum training programme on Value Addition of Grapes at Repora B	Home Science	Value addition	01	Off-Campus	-	-	-	-	15	15	-	15	15
6-8-2022	Farmers	Water management in field crops at Chunti Waliwar.	Crop Production	Soil & water conservation	01	Off-Campus	27	42	69	-	-	-	27	42	-

16-8-2022	Farmers	Integrated Nutrient Management in Rice at KVK Ganderbal at KVK Ganderbal	Crop Production	INM	01	On-Campus	-	-	-	22	-	22	22	-	22
16-8-2022.	Farmers	Integrated Disease Management in Rice at KVK Ganderbal	Plant Protection	IDM	01	On-Campus	-	-	-	22	-	22	22	-	22
17-8-2022.	Farmers	Resource Conservation Technologies for sustainable Agriculture at Batwina	Crop Production	Resource conservation techniques	01	On-Campus	-	-	-	22	-	22	22	-	22
17-8-2022	Farmers	Insect Pest and Disease management of Maize & Apple at Batwina	Plant Protection	IPM	01	On-Campus	-	-	-	27	16	43	27	16	43
17-8-2022.	Farmers	Awareness cum training programme on Use and Consumption of high nutritive value under utilized vegetables at Batwina.	Home Science	Design& development of high nutrient diet	01	On-Campus	-	-	-	27	16	43	27	16	43
18-8-2022	Farmers	Awareness cum training programme on Prevention of Lumpy Skin Disease in livestock at KVK Ganderbal	Animal Science	Disease management	01	On-Campus	28	-	28	-	-	-	28	-	28
18-8-2022	Farmers	Steps towards establishing Commodity Interest Groups (CIG's) / FPO's in the District at KVK Ganderbal	Home Science	Capacity Building	01	On-Campus	11	-	11	22	11	31			42
31-8-2022	Farmers	Prevention, treatment and control of Lumpy Skin Disease at Repora	Animal Science	Disease management	01	On-Campus									
2-9-2022	Farmers	Development of site specific & appropriate crop/ enterprises enterprise-based models suitable for different agro-eco systems of Kashmir at KVK Ganderbal	Crop Production	Cropping system	01	On-Campus	18	-	18	-	-	-	18	-	18
2-9-2022	Farmers	Management of stored grain pests at KVK Ganderbal	Plant Protection	IPM	01	On-Campus	18	-	18	-	-	-	18	-	18

2-9-2022.	Farmers	Hands on training on vegetable seed production at KVK Ganderbal	Horticulture	Production of low volume and high value crops	01	On-Campus	18	-	18	-	-	-	18	-	18
8-9-2022	Farmers	Scientific management of backyard poultry at KVK Ganderbal	Animal Science	Poultry	01	On-Campus	-	-	-	11	1	12	11	1	12
14-9-2022	Farmers	Value addition of Bio-fortified maize hybrids at KVK Ganderbal	Home Science	Value addition	01	On-Campus	-	-	-	18	15	33	18	15	33
20-26 Sept. 2022	Farmers	Production technology of button & dhingri mushroom cultivation at KVK Ganderbal	Plant Protection	Others	01	On-Campus	-	-	-	6	16	22	6	16	22
21-9-2022	Farmers	Commercial production of ornamental plants for establishing a viable ornamental nursery at KVK Ganderbal	Horticulture	Cultivation of fruits	01	On-Campus	-	-	-	10	3	13	10	3	13
22-9-2022	Farmers	Seed production of field crops at KVK Ganderbal	Crop Production	Seed production	01	On-Campus	-	-	-	13	6	19	13	6	19
6-10-2022	Farmers	Mushroom production technology (Venue: Shuhama and KVK Campus)	Plant Protection	Others	01	On-Campus									
12-10-2022	Farmers	Grading and packaging of fruits (Venue: Zazuna)	Horticulture	Others	01	On-Campus	-	-	-	16	-	16	16	-	16
17-10-2022	Farmers	Scientific management of backyard poultry (Venue: On-campus)	Animal Science	Poultry	01	On-Campus	-	-	-	12	5	17	12	5	17
18-10-2022	Farmers	Entrepreneurship in livestock sector opportunities & challenges (Venue: On-campus)	Animal Science	Others	01	On-Campus	-	-	-	14	36	50	14	36	50
20-21st October 2022	Farmers	Two days training programme on Field Demonstration on Post-harvest Management and Processing of Walnuts (Venue: On-campus)	Home Science	Processing	02	On-Campus	-	-	-	40	4	44	40	4	44
25-10-2022	Farmers	Lumpy skin disease	Animal Science	Disease Management	01	Off-campus	-	-	-	35	-	35	35	-	35

25-10-2022	Farmers	IDM/IPM of important insect peat & diseases of horticultural crops	Horticulture	Management of orchards	01	Off-campus	-	-	-	35	-	35	35	-	35
25-10-2022	Farmers	Importance of pruning & training in fruit crops	Horticulture	Training & Pruning	01	Off-campus	-	-	-	35	-	35	35	-	35
4-11-2022	Farmers	Benefits of Cereal-Pulses Cropping system (Venue: Babawayil)	Crop Production	Cropping system	01	On-Campus	46	-	46	-	-	-	46	-	46
04-11-2022	Farmers	Management/ importance of orchard/ field sanitation (Venue: Babawayil)	Plant protection	Others	01	On-Campus	46	-	46	-	-	-	46	-	46
10 -11 Nov 2022	Rural Youth	Two days training programme on value addition and processing of vegetables (making of pickle & masala tiki) (Venue: On-campus)	Home Science	Value addition	02	On-Campus	-	-	-	-	24	24	-	24	24
11-11-2022	Rural Youth	Training cum awareness on health benefits of pulses (Pea) (Venue: Gutlibagh)	Home Science	Others	07	On-Campus	-	-	-	-	24	24	-	24	24
11-11-2022	Rural Youth	Enhancing egg production in backyard poultry (Venue: On-campus)	Animal Science	Poultry	01	On-Campus	-	-	-	-	21	21	-	21	21
15-11-2022	Rural Youth	Agronomic practices for boosting pulse yield (Venue: Gutlibagh)	Crop Production	Others	07	On-Campus	28	11	39	-	-	-	28	11	39
15-11-2022	Farmers	Management/ importance of orchard/ field sanitation (Venue: Gutlibagh)	Plant protection	Others	01	On-Campus	28	11	39	-	-	-	28	11	39
21-11-2022	Farmers	Six days MSME sponsored training programme on ‘Human Resource Management Practices for Small Business Firms’ (Venue: On-campus)	Capacity building	Entrepreneurs hip development	01	On-Campus	-	-	-	16	9	25	16	9	25
22-11-2022	Farmers	Training programme on soil health management & soil health card implementation (Venue: On-campus)	Soil health	Soil & water testing	01	On-Campus	-	-	-	17	3	20	17	3	20

01-12-2022	Farmers	Integrated disease management in different crops (Venue: On-campus)	Plant protection	IDM	01	On-Campus	-	-	-	-	10	10	-	10	10
01-12-2022	Farmers	Backyard poultry farming (Venue: On-campus)	Animal Science	Poultry	01	On-Campus	-	-	-	-	10	10	-	10	10
02-12-2022	Farmers	Production technology of mushroom cultivation (Venue: On-campus)	Plant Protection	Others	01	On-Campus	-	-	-	-	10	10	-	10	10
02-12-2022	Farmers	Layout preparation and establishment of Nutri-Garden (Venue: On-campus)	Home Science	Household food security	01	On-Campus	-	-	-	-	10	10	-	10	10
02-12-2022	Farmers	One day training programme on vermicomposting (Venue: On-campus)	Vermicomposting	Others	01	On-Campus	-	-	-	-	10	10	-	10	10
05-12-2022	Farmers	Scientific beekeeping (Venue: On-campus)	Plant Protection	Others	01	On-Campus	-	-	-	-	9	9	-	9	9
05-12-2022	Rural Youth	Fish processing & value-added fish products (Venue: On-campus)	Home Science	Fish processing and value addition	01	On-Campus	-	-	-	-	16	16	-	16	16
4-9th December 2022	Rural Youth	Low-cost mushroom cultivation as an alternative source of rural livelihood (Venue: On-campus).	Plant Protection	Mushroom	01	On-Campus	-	-	-	-	11	11	-	11	11
11-16th December 2022	Rural Youth	Maximizing farm economics through scientific Sheep & Goat rearing (Venue: On-campus).	Animal Science	Sheep & Goat	01	On-Campus	-	-	-	-	17	17	-	17	17
17-22nd December 2022	Rural Youth	Decisions in farm management resource allocation and profitability (Venue: On-campus).	Agronomy	Others	01	On-Campus	-	-	-	17	8	25	17	8	25
24-29th December 2022	Farmers	Integrated Horticulture Practices in Fruit Crops to Combat Climate Change (Venue: On-campus).	Plant Protection	Others	01	On-Campus	-	-	-	31	-	31	31	-	31

09-1-2023	Farmers	Integrated crop management for resource conservation, yield and profitability (Venue: On-campus)	Crop production	Intigrated crop management	01	On-Campus	-	-	-	16	4	20	16	4	20
16-1-2023	Farmers	Integrated nutrient management in field crops (Venue: Gutlibagh)	Crop production	INM	01	Off-Campus	-	-	-	18	3	21	18	3	21
18-1-2023	Farmers	Integrated farming system for profitability and sustainability (Venue: On-campus)	Crop production	Integrated farming	01	On-Campus	-	-	-	22	2	24	22	2	24
24-1-2023	Farmers	Sensitization on formation of FPO (Venue: On-campus)	Home Science	Others	01	On-Campus	-	-	-	10	-	10	10	-	10
27-1-2023	Farmers	Winter management of livestock (Venue: On-campus)	Animal Science	Dairy	01	On-Campus	-	-	-	10	10	20	10	10	20
28-1-2023	Farmers	Biological control-a boon in natural farming (Venue: On-campus)	Plant Pathology	Bio-control	01	On-Campus	-	-	-	18	9	27	18	9	27
4-2-2023	In-service	Integrated disease management in vegetable crops (Venue: KVK Ganderbal)	Plant Pathology	IDM	01	On-Campus	-	-	-	25	-	25	25	-	25
4-2-2023	In-service	Nursery to Harvest: Improved practices in managing fruit crops (Venue: KVK Ganderbal)	Horticulture	Cultivation of fruits	01	On-Campus	-	-	-	30	-	30	30	-	30
6-2-2023	In-service	Technology intervention for fish seed and trout production in UT of J&K (Venue: KVK Ganderbal)	Fisheries	Others	01	On-Campus	-	-	-	21	-	21	21	-	21
8-2-2023	In-service	Development of fodder resources for UT of J&K (Venue: Govt. Degree College, Ganderbal)	Crop production	Fedd & Fodder	01	Off-Campus	-	-	-	163	31	194	163	31	194
10-2-2023	In-service	Promotion of wool and Pelt for effective processing and marketing (Venue: KVK Ganderbal)	Animal Science	Others	01	On-Campus	-	-	-	38	5	43	38	5	43
13-2-2023	In-service	Promotion of Niche crops in District Ganderbal (Venue: KVK Ganderbal)	Crop production	Production enhancement	01	On-Campus	-	-	-	50	10	60	50	10	60

15-2-2023	In-service	Development of seed and seed multiplication chain in UT of J&K (Venue: KVK Ganderbal)	Crop production	Production enhancement	01	On-Campus	-	-	-	42	20	62	42	20	62
17-2-2023	In-service	Promotion of vegetable and exotic vegetables (Venue: KVK Ganderbal)	Horticulture	Protected cultivation	01	On-Campus	-	-	-	39	25	64	39	25	64
	In-service	Strengthening agriculture marketing in UT of J&K 22-2-2023 (Venue: KVK Ganderbal)	Agriculture marketing	Others	01	On-Campus	-	-	-	140	39	179	140	39	179
24-2-2023	In-service	Cultivation, Conservation, Harvesting, Post Harvesting, Branding & Marketing of medicinal and Aromatic plants (Venue: KVK Ganderbal)		Protected cultivation	01	On-Campus	-	-	-	40	15	55	40	15	55
27-2-2023	In-service	Promotion & Strengthening of Beekeeping in UT of J&K (Venue: KVK Ganderbal)	Plant Patholgy	Others	01	On-Campus	-	-	-	20	16	36	20	16	36
01-3-2023	In-service	Technological Interventions to Strengthen Sericulture (Venue: KVK Ganderbal)	Sericulture	Others	01	On-Campus	-	-	-	21	-	21	21	-	21
03-3-2023	In-service	Promotion of millets & nutri-cereals (Venue: KVK Ganderbal)	Crop production	Others	01	On-Campus	-	-	-	40	24	64	40	24	64
06-3-2023	In-service	Farm Mechanization & Automation (Venue: KVK Ganderbal)	Crop production	Others	01	On-Campus	-	-	-	20	7	27	20	7	27
08-3-2023	In-service	Mushroom Cultivation: An Agribusiness (Venue: KVK Ganderbal)	Mushroom production	Others	01	On-Campus	-	-	-	48	11	59	48	11	59
08-3-2023	In-service	Integrated disease management in cereal crops (Venue: KVK Ganderbal)	Crop production	IDM	01	On-Campus	-	-	-	20	15	35	20	15	35
10-3-2023	In-service	Promotion of Oilseed (Venue: KVK Ganderbal)	Crop production	Production enhancement	01	On-Campus	-	-	-	40	15	55	40	15	55
13-3-2023	In-service	Steps towards establishing CIGs/FPO's (Venue: KVK Ganderbal)	Home science	Formation & management	01	On-Campus	-	-	-	132	30	162	132	30	162

15-3-2023	Rural Youth	Cultivation of medicinal and aromatic plants.	Medicinal and aromatic plants	Others	07	On-campus	-	-	-	20	-	20	20	-	20
15-3-2023	In-service	Integrated farming system (Venue: KVK Ganderbal)	Crop production	Others	01	On-Campus	-	-	-	40	15	55	40	15	55
17-3-2023	In-service	Promotion of Commercial Floriculture (Venue: KVK Ganderbal)	Floriculture	Others	01	On-Campus	-	-	-	20	-	20	20	-	20
20-3-2023	Rural Youth	Value addition of medicinal and aromatic plants (Venue: KVK Ganderbal)	Home Science	Others	01	On-Campus	-	-	-	40	17	57	40	17	57
20-3-2023	In-service	Rainfed area development (Venue: KVK Ganderbal)	Crop production	Others	01	On-Campus	-	-	-	78	5	83	78	5	83
22-3-2023	In-service	Alternate Agriculture System (Venue: KVK Ganderbal)	Agronomy	Others	01	On-Campus	-	-	-	42	9	51	42	9	51
27-3-2023	In-service	Minimizing pestcide use (Venue: KVK Ganderbal)	Plant Pathology	IPM	01	On-Campus	-	-	-	47	15	62	47	15	62
29-2-2023	In-service	Soil and land resource development (Venue: KVK Ganderbal)	Soil Health	Others	01	On-Campus	-	-	-	35	30	65	35	30	65
31-3-2023	In-service	Innovative extension (Venue: KVK Ganderbal)	Extension	Capacity building	01	On-Campus	-	-	-	43	23	66	43	23	66

(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	-
Mushroom	20-26 Sept. 2022	Production technology of button & dhingri mushroom cultivation	Mushroom cultivation	07	-	19	19	-	-	-	-

(E) Sponsored training programmes

Sl.No	Date	Title	Discipline	Thematic area	Duration (days)	Client (PF/RY/EF)	No. of courses	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
								Others			SC/ST			Total				
								Male	Female	Total	Male	Female	Total	Male	Female	Total		
1	26-08-2022	Stitching & Tailoring under STRY (07 days)	Home Science	Stitching and tailoring	07	RY	01	25	-	25	-	-	-	25	-	25	MANAGE	42000
2	26-08-2022	Garment Construction (07 days)	Home Science	Garment construction	07	RY	01	25	-	25	-	-	-	25	-	25	MANAGE	42000
3	21-11-2022	Human resource management practices for small business firms	Home Science	Capacity building	07	RY	01	-	-	-	16	9	25	16	9	25	MSME	
4	4-12-2022	Low-cost mushroom cultivation as an alternative source fo rural livelihood	Plant Pathology	Mushroom cultivation	07	RY	01	-	-	-	15	10	25	15	10	25	MANAGE	42000
5	17-12-2022	Decisions in farm management resource allocation and profitability	Agronomy	Farm Management	07	RY	01	-	-	-	19	6	25	19	6	25	MANAGE	42000
6	24-12-2022	Integrated Horticulture practices in fruit crops to combat climate change	Horticulture	Fruit crops	07	RY	01	-	-	-	18	7	25	18	7	25	MANAGE	42000

7	15-3-2023	Cultivation of medicinal and aromatic plants.	Crop production .	Medicinal and aromatic plants	07	RY	01	-	-	-	19	1	20	19	1	20	DST	500000
Total					49						87	33	120	137	33	170		710000

(F) Skill Development Training under ASCI Conducted by selected KVKs

Sl.No	Date	Title	Discipline	Thematic area	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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

6. Extension Activities (including activities of FLD programmes)

S.No.	Nature of Activity	No. of Activities	SC/ST (Farmers) (I)			OBC/Other (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
			Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Field Day	24	85		85	167	2	169	6	3	9	258	5	263
2	Kisan Mela	4	53		53	251	60	311	8	4	12	254	60	314
3	Kisan Mela (Virtual)													
4	Kisan Ghosthi	4				53	2	55				53	2	55
5	Exhibition	7				38	12	50				38	12	50
6	Film Show	4												
7	Method Demonstrations	55	64	45	109	493	40	533	9	16	25	566	101	667
8	Farmers Seminar													
9	Workshop	1												
10	Group meetings	25	142	21	163	291	116	407	16	40	56	856	177	1033
11	Lectures delivered as resource persons	18	26	4	30	182	52	234				208	56	264
12	Newspaper coverage	22												
13	Radio talks													
14	TV talks	11												
15	Popular articles													
16	Extension Literature	3				81	2	83				81	2	83
17	Advisory Services													
18	Scientific visit to farmers field	80	21		21	136	8	144				157	8	165

19	Farmers visit to KVK	20	41		41	310	31	341				351	31	382
20	Diagnostic visits													
21	Exposure visits	15	63	9	72	347	44	391				410	53	463
22	Extrainees Sammelan													
23	Soil health Camp													
24	Animal Health Camp	4	46		46	63	7	69				109	7	116
25	Agri mobile clinic	1				43		43	6	2	8	49	2	51
26	Soil test campaigns	1				44	11	55	3		3	47	11	58
27	Farm Science Club Conveners meet													
28	Self Help Group Conveners meetings													
29	Mahila Mandals Conveners meetings													
30	Celebration of important days (Kisan Diwas, International Womens Day & World Water Day)	2	-	-	-	15	37	52	-	-	-	15	37	52

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	693	96	35	16	12	6	22	5	35

6.C. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS during 2022

No. of Technology week celebrated	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
-	Gosthies	-	-	-
-	Lectures organised	-	-	-
-	Exhibition	-	-	-
-	Film show	-	-	-
-	Fair	-	-	-
-	Farm Visit	-	-	-
-	Diagnostic Practicals	-	-	-
-	Distribution of Literature (No.)	-	-	-
-	Distribution of Seed (q)	-	-	-
-	Distribution of Planting materials (No.)	-	-	-
-	Bio Product distribution (Kg)	-	-	-
-	Bio Fertilizers (q)	-	-	-
-	Distribution of fingerlings	-	-	-
-	Distribution of Livestock specimen (No.)	-	-	-
-	Total number of farmers visited the technology week	-	-	-

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	Rice	SR-4	5.0	15000	12
	Wheat	SW-1	6.0	18000	15
	Maize	SMC-7	3.0	9000	22
OILSEEDS	Brown Sarson	SS-2	6.0	36000	115
PULSES	Cowpea	SC-1	1.0	15000	18
	Moong	SM-1	5.0	100000	55
	Rajmash	SR-1	5.5	88000	72
	Field Pea	SF-1	5.0	75000	31
VEGETABLES	-	-	-	-	-
FLOWER CROPS	-	-	-	-	-
OTHERS (Fodder)	Oats	SFO-3	13.0	97500	71
	Fodder Maize	SFM-1	120	48000	05

Note: * The seed produced at KVK Farm was distributed to the farmers of district Ganderbal as FLD/ CFLD.

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
	Apple	High Density, Red delicious, Golden delicious, Red Gold	162	40500	71
	Peach	CITH-1	52	7800	42
	Apricot	Local	120	15600	61
	Plum	Sant Rose	179	26850	102
	Pear	Nakh & WB	100	20000	45
	Cherry	Mishri, Double, Makhmali	121	30250	48
	Almonds	Local selection	81	17010	24
	Walnut	Grafted (wusan selction)	117	46800	37
	Grape	Sahibi, Hussaini	37	4810	21
	Rootstock	M9	288	35350	151
SPICES	-	-		-	-
VEGETABLES	-	-	-	-	-
FOREST SPECIES	-	-	-	-	-
ORNAMENTAL CROPS	-	-	-	-	-
PLANTATION CROPS	-	-	-	-	-
Others *					
Jam/Jelly*	Plum	Sanatrosa	95 Bottles	7800	51
Aloo Bukhara*	Plum	Sanatrosa	33 Boxes	3485	19
Masa Tikki*	Chilli	Kashmir Long	100 boxes	4250	61
Pickels *	Vegetables	Kashmiri pickle	88 bottles	4040	49
Jam/Muraba*	Quince	Local	54 bottles	4720	29

Note: * The products developed were used in different skill development training programmes for the trainees and revenue generation.

B) BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS	-	-	-	-	-	-
BIOFERTILIZERS	-	-	-	-	-	-
BIO PESTICIDES	-	-	-	-	-	-

C) LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
Cattle	Breeding BUll	Jersey	01	-	60600	01
SHEEP AND GOAT	-	-	-	-	-	-
POULTRY	Dual	Vanraja, Kroiler	52	-	23400	09
FISHERIES	-	-	-	-	-	-
Others	-	-	-	-	-	-

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

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

(A) KVK News Letter – (Name, Date of start, periodicity, number of copies distributed, etc.) Nil

(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	Epidemiological and molecular characterization of echinococcus granulosus isolated from small ruminants in Kashmir Valley, India.	Beigh AB, Darzi MM, Bashir S, Dar PA, Bhat S, Ganaie N, Bhat BA, Iranian Journal of Parasitology; 16(3) 357-365	-
	Immune cell plasticity allows for resetting of phenotype from effector to regulator with combined inhibition of notch/eif5a pathways.	Imam S, Dar P, Aziz SW, Zahid ZA, Sarwar H, Karim T, Faisal S, Haseeb I, Naqvi AS, Shah R, Haque A, Salim N, Jaume JC Frontiers in Cell and Developmental Biology; 9:777805	-
	Spontaneous type-1-diabetes humanized transgenics help unveil pathophysiology of human diabetes and allow for disease-reverting CAR-TREG immunotherapy,	Shahnawaz Imam, Pervaiz Dar, Maria Alfonso-Jaume, Ahmed Al-Khudhair, Juan Carlos Jaume, SSRN 3778362	-
	Prevalence Of Phomopsis Blight And Fruit Rotof Brinjal Inkashmir	Zarka Nabi, F.A. Ahanger, T.A.Shah, K. Hussain Bhat, S.A.Banaday and T.A.Wani Applied Biological Research 24(4) 2022	-
	Morpho-cultural and Pathogenic Variability of Sclerotinia sclerotiorum causing White Mold of Beans	Roaf Ahmad Rather, Farooq Ahmad Ahanger, Shafat Ahmad Ahanger, Umer Basu,Nazir Ahmad Bhat ; Owais Ali Wani, Mohammad Saleem Dar; Jafar K. Lone, Jasima Ali Khanday, Parvaze Ahmad Sofi, Muntazir Mushtaq. Journal of Fungi.8:775, 2022	-
	Screening of available germplasm for resistance to phomopsis blight in Brinjal	ZarkaNabi, Farooq AH Ahanger, KhursheedHussain. Bhat, Taiq AH Shah, Javid Ahmad Bhat, Mahreena Farooq, Javid Ahmad Bhat, Shafat Ahmad Banday and Tariq Ahmad Sofi. The Pharma Innovation Journal 2022; 11(5): 1295-1302	-
	Apilot study on Hort-poultry Integrated Farming Model.	P.A Reshi,A.A.Khan, J,.A.BhatG.G.Sheikh. F.A.Ahanger, S.A.Banday. Current Journal of	-

Item	*Title*	*Authors name*	*Number of copies*
		Applied Science and Technology. 2022:41(2): 1-5	
	Response of phosphorus and potassium fertilizer levels on soil leaf and fruit nutrient status of Gala Mast/ MM106 apple under high density plantings	U Iqbal, A Kumar, I Fayaz, M M Mir, M. U. Rehman and S.A.Banday.	-
Book Chapters	Atomic Absorption Spectorphotonmetry	Ejaz A. Dar et al book chapter in Molecular Assay Protocols, Pervaiz Dar, S Farooq, MS Ahmad and AA Dar, Book White Falcon Publishers, ISBN#978-1-63640-774-6	-
	Gas Chromatography,	Rafiya Munshi et al book chapter in Molecular Assay Protocols, Pervaiz Dar, S Farooq, MS Ahmad and AA Dar, Book White Falcon Publishers, ISBN#978-1-63640-774-6	-
	Bacterial Cell Transformation,	Farooq A Ahanger et al book chapter in Molecular Assay Protocols, Pervaiz Dar, S Farooq, MS Ahmad and AA Dar, Book White Falcon Publishers, ISBN#978-1-63640-774-6	-
	DNA Quantification by Spectorphotonmetry,	Shafat A Banday et al book chapter in Molecular Assay Protocols, Pervaiz Dar, S Farooq, MS Ahmad and AA Dar, Book White Falcon Publishers, ISBN#978-1-63640-774-6	-
Technical reports	"Advanced techniques of mass multiplication of bio-formulations"-A Sustainable Approach	Farooq Ahmad Ahanger SMS Plant Protection KVK Ganderbal, SKUAST-Kashmir	-
	-	-	-
Technical bulletins	-	-	-
	-	-	-
Popular articles	Bird Flu: An imminent threat to the poultry industry along migration routes	Pervaiz Dar and Shabir A Bhat popular article in Rising Kashmir Oct 27, 2022	-
	Fighting Lumpy Skin Disease	Pervaiz Dar and Shabir A Bhat open edition article in Greater Kashmir, Sept 02, 2022	-
Training Manual	Molecular Assay Protocols	Pervaiz Dar, S Farooq, MS Ahmad and AA Dar, White Falcon Publishers, ISBN#978-1-63640-774-6	-

Item	*Title*	*Authors name*	*Number of copies*
Extension literature	A-Maiz-ing Products	Rafiya Munshi, Zahoor. A. Dar, Bupender K. Shanker L. Jat, Ishfaq Abidi, Eajaz A. Dar, Faisal R, Fayaz B, Shafat A. Banday, Farooq A, Pervaiz A. Dar and Sabina N.	-
	Compendium on "Entrepreneurship Skill Development Programme (ESDP) for cultivation of Aromatic & Medicinal Plants"	Ishfaq Abidi, Rafiya Munshi, Eajaz A. Dar, Farooq A, Shaheen Farooq and Faiqa Syed.	-
	-	-	
Folders /leaflets	-	-	-
TOTAL	**15**	**-**	**-**

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / Software)	Title of the programme	Number
1	CD	Horti.-Poultry	01

(D) Mobile App developed by KVK

S.No.	Name of KVK	Name of Mobile App Developed	Year in which App is Developed	No. of Users downloaded the App	Type of information offered by the App(seeds, fertilizers, market prices, weather etc.)
-	-	-	-	-	-

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

9.B. Give details of innovative methodology/technology developed and used for Transfer of Technology during the year :Horti-Poultry Model

The scientists of the KVK innovatively established Horti-Poultry Model, which is a novel way of increasing farmers income by utilization of all the resources in the orchards. Under this concept, birds are given free access to the Apple orchards during the day and confined to shelter during night. Birds are allowed to feed on herbs, insects and other scavenging resources during the day and offered kitchen waste (left over rice, vegetable waste, egg shells, leftover pulses) during the evening hours. Supplementary feeding is also done during the night but the dependence on market feed is reduced by 85%.

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

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

9.D. Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women : Courses are selected based on the problems observed in the field and/or reported by farmers in addition to the feedback received from the line Departments.
- Rural Youth : Courses are selected based on the skill & income generation potential. Trainings required for the upgardation of the already existing enterprises & development of low cost, easy to start enterprises is also taken as a criteria for designing trainings for rural youth.
- Inservice personnel : Trainings for Inservice personnels are designed based on the feedback received from line departments and the need for acqventing new skills or improving the knowledge based of extension functionaries regarding the advances in agriculture sector.

9.E. Field activities

i. Number of villages adopted : 03
ii. No. of farm families selected : 30
iii. No. of survey/PRA conducted : 03

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**

3. **Details of samples analyzed / Soil Health Cards issued during 2022 :**

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 2020-21 :**

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	03	03	01	Nil
Water Samples	-	-	-	-
Soil Health Cards Issued*	-	-	-	Nil

IMPACT

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

Sl.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 Gutlibag	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

11.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies :

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
-	-	-	-

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 2022

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**	-	-	-	

11.4 Give details of programmes implemented under National Horticultural Mission: NIL

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

11.5 Nature of linkage with National Fisheries Development Board : NIL

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

11.6. Details of linkage with RKVY: NIL

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
-	-	-	-	-	-

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	4229.4 Lit		190324	-
2	Poultry	2007		Vanraja	Chicks	113 No.		23070	-
3	Vermicompostin g	2017	97.26 sqm	-	Vermicompost	10 qtls	17500	52500	-

12.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Wheat	10 Nov. 2020	20 June 2021	0.3	SW-1	Seed	2.85 qtls		10260	-
Oats	15 Nov. 2020	12 May 2021	1.5	SFO-3	Seed	5.55 qtls		34410	-
Pulses	-	-	-	-	-	-		-	-
Pea	20 Nov 2020	28 May 2021	0.2	HFP-715	Seed	2.25 qtls		15750	-
Grams	-	-	-	-	-	-		-	-
Oilseeds									
Brown Sarson	15 Oct. 2020	24 May 2021	0.4	SS-2	Seed	1.24 qtls		7440	-
Fibers	-	-	-	-	-	-	-	-	-
Floriculture	-	-	-	-	-	-	-	-	-
Fruits	-	Sept. -Oct 2021 Feb.-March 2022	1.55	-	Fruit / Planting material	16.8 qtls / 3459 No.s	-	624510	-
Vegetables	Feb. 2020	April 2021	0.02	-	Seedling	12200 No.	-	15000	-
Others (specify)	-	-	-	-	-	-	-	-	-

12.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

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

12.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-

12.5 Utilization of hostel facilities:

Accommodation available (No. of beds) =

Months	*No. of trainees stayed*	*Trainee days (days stayed)*	*Reason for short fall (if any)*
April 2017	-	-	-
May 2017	-	-	-
June 2017	-	-	-
July 2017	-	-	-
August 2017	-	-	-
September 2017	-	-	-
October 2017	-	-	-
November 2017	-	-	-
December 2017	-	-	-
January 2018	-	-	-
February 2018	-	-	-
March 2018	-	-	-

*** Not functional due to non-availability of funds under furniture and furnishing.**

12.6. Database management

S. No	*Database target*	*Database created by the KVK*
-	-	-

12.7 Rainwater Harvesting

Training programmes conducted using Rainwater Harvesting Demonstration Unit

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

Demonstrations conducted using Rainwater Harvesting Demonstration Unit

Date	Title of the Demonstration	Client (PF/RY/EF)	No. of Demos.	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total
2-9-2022	Water conservation	PF	01	-	-	-	27	-	27
1-11-2022	Runoff management	PF	01	-	-	-	16	-	16

Seed produced using Rainwater Harvesting Demonstration Unit

Name of the crop	Quantity of seed produced (q)
-	-

Plant materials produced using Rainwater Harvesting Demonstration Unit

Name of the crop	Number of plant materials produced
-	-

Other activities organized using Rainwater Harvesting Demonstration Unit

Activity	No. of visitors
Visit of farmers	09
Visit of officials	07

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 2022(up to March. 2023) :(in lakhs)

S. No.	Particulars	Sanctioned	Released	Expenditure
24.1	Recurring Contingencies			
24.1.1	Pay & Allowances	195.50	195.50	195.50
24.1.2	Traveling allowances	1.00		1.00
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	13.50	13.50	13.50
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	**209.00**	**209.00**	**209.00**
24.2	Non-Recurring Contingencies			
24.2.1	Works			
24.2.2	Equipments including SWTL & Furniture (Photocopier)			
24.2.3	Vehicle (Four wheeler/Two wheeler, please specify)	0.20	0.20	0.20
24.2.4	Library			
24.2	Total Non-Recurring			
24.3	REVOLVING FUND			
24.4	GRAND TOTAL (A+B+C)	**209.20**	**209.20**	**209.20**

Revolving Fund

Opening balance as on 01.04.2022 (Rs.in Lakh)	Expenditure incurred during 2022 (Rs.in Lakh)	Receipts during 2022 (Rs.in Lakh)	Closing balance as on 31.3.2023 (Rs.in Lakh)
662950.98	1124999	1255891	532058.98

14. Details of HRD activities attended by KVK staff during 2022-23

Name of the staff	*Designation*	*Title of the training programme*	*Institute where attended*	*Date*
Dr. Farooq Ahmad Ahanger	SMS Plant Protection	Development of Noble Bio-formulationsfor use in sustainable Agr-ecosystems	Division of Basic Sciences FOA WADURA SKUST-K	1-10 August 2022
-do-	-do-	10th Seminar on Agriculture and beyond 4.0 Society for mobilization for sustainable Development (Mobilization) New Delhi	SKUST-K	26-28 May,2022
-do-	-do-	Impact of Climate Change on Emerging Plant Diseases	SKUAST-K & IPS, IARI NEW DELHI	28-29 October 2022
-do-	-do-	Oral Presentation Award National Symposium organised by Div. of Plant Pathology	Skuast-k in collaboration with Indian Phytopathological Society, IARI New Delhi	
-do-	-do-	Introduction to Natural Farming principles and practices	MANAGE, Hyderabad	17-19 October,2022.
Pervaiz Dar	SMS (AS)		North Temperate Regional Station (NTRS) Garsa, Kullu, H.P.	
Pervaiz Dar	SMS (AS)		Dr Y S Parmar University of Horticulture & Forestry	

15. Please include any other important and relevant information which has not been reflected above (write in detail). -

Annexure-I

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 (2022)

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 Agriculture Research Institute & Central Institute of Temperate Horticulture Srinagar.

2. Technology inventory

Sl. No	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference /citation
1	Shalimar Fodder Maize-1	Maize	2021	SKUAST – K	---
2	Shalimar Sarson-2	Oilseed	2018	SKUAST – K	
3	Shalimar Sarson-3	Oilseed	2018	SKUAST – K	
4	Shalimar Rajmash-2	Rajmash	2017	SKUAST – K	
5	Shalimar Rice-4	Paddy	2017	SKUAST – K	
6	Shalimar Rice-5	Paddy	2017	SKUAST – K	
7	Shalimar Rice-2 (variety)	Paddy	2014	SKUAST – K	
8	Shalimar Rice-1(variety)	Paddy	2010	SKUAST – K	
9	Jehlum (variety)	Paddy	1996	SKUAST – K	
10	Shalimar KG Maize-1 (variety)	Maize	2005	FOA Wadura	
11	Shalimar KG Maize-2 (variety)	Maize	2005	FOA Wadura	
12	Shalimar Maize Composite-3 (variety)	Maize	2009	SKUAST – K	
13	Shalimar Maize Composite-4 (variety)	Maize	2009	SKUAST – K	
14	Shalimar Maize Hybrid-1 (variety)	Maize	2009	SKUAST – K	
15	Shalimar Wheat-1 (variety)	Wheat	2005	SKUAST – K	
16	KS-101 (variety)	Oilseed	1999	SKUAST – K	
17	Sabzar (variety)	Oats	1996	SKUAST – K	
18	Shalimar Rajmash-1(variety)	Rajmash	2005	SKUAST – K	
19	Shalimar moong-1 (variety)	Moong	2005	SKUAST – K	
20	Shalimar Tomato Hybrid-1 (variety)	Tomato	2009	SKUAST – K	
21	Shalimar Brinjal Hybrid-1 (variety)	Brinjal	2009	SKUAST – K	
22	Shalimar Capsicum Hybrid-1 (variety)	Capsicum	2009	SKUAST – K	
23	Seed treatment with Mancozeb 75 WP @ 3 grams/Kg	Chillies	2005	SKUAST-K	
24	Seedling dip with Carbendezim 50 WP @ 1 gram/ liter of water	Chllies	2005	SKUAST-K	

25	Seed treatment with Mancozeb 75WP followed by spray of Tricyclozole 50 WP @0.06%.	Paddy	2003	SKUAST-K	
26	Foliar spray of boric acid @ 0.2% & CaNO3 0.5%	Apple	2011	SKUAST-K	
27	Soil application of Sulphur 20kg/ha	Onion	2009	SKUAST-K	
28	Pre-sowing irrigation	Oilseed	2005	SKUAST-K	
29	Seed inoculation	Pea	2005	SKUAST-K	
30	Seed treatment	Vegetables	2001	SKUAST-K	
31	Proper pruning and nutrient application	Apple	2000	SKUAST-K	

Activity Chart

Crop/Animal/ Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Paddy	Low yield, Disease prone	Old varieties, no seed treatment, Imbalanced use of fertilizer	Seed treatment, INM, Varietal introduction	Demonstration, OFT, Training	-
Oilseed	Low oil recovery, low yield, poor germination	Late sowing, No pre-sowing irrigation, Land races, Low input use	Sowing before 10th October + pre-sowing irrigation + application of Sulphur& other nutrients and variety.	Demonstration, OFT, Training	-
Maize	low yield, moisture stress particularly at high altitudes	Lack of high yielding varieties for high altitude, use of undecomposed FYM	Introduction of KG-1, KG-2 maize, use of compost, land leveling	Demonstration	-
Wheat	Failure of Rice-wheat rotation	Lack of short duration varieties	Introduction of Shalimar wheat-1	Demonstration	-
Vegetables	Low yields, less market preference, poor shelf life & quality	Lack of suitable high yielding, qualitative varieties for region	Introduction of varieties	Demonstration	-
Apple	Low percentage of A grade apple,	Poor nutrient management, poor disease management, faulty pruning	Foliar spray of calcium and Boron adoption of spray schedule and proper pruning	Demonstration, discussion, field visits	-

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

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

12. Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc., for technologies selected under FLD and OFTs

13. Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for FLD and OFT

Crop	*Name of the technology assessed*
Paddy	Alternative herbicides for weed control in paddy.
Maize	Evaluation of different maize varieties under integrated Crop Management (ICM)
Dairy	Effect of feeding winter chocolate on production performance of Dairy Cattle
Poultry	Effect of additional light hours on the production performance of Layer Chickens

Crop	*Name of the technology Refined*
Grapes	Assessment of Foliar Nutrient Sprays for Management of Hen & Chicken Disorder of Grapes
Apple	Management of Root rot Disease in Apple
Cherry	Integrated Management of Gummosis in Cherry.

Composed By: M. Iqbal Koul (Programme Assistant-C)
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Krishi Vigyan Kendra, Ganderbal, SKUAST-Kashmir-190006