ANNUAL REPORT 2020 (Jan-Dec)

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 Pulwama, Malangpora-192308	01933-286952	01933-286952	pcpulwama@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
S. K. University of Agricultural Sciences & Technology of Kashmir Shalimar, Srinagar – 191121	0194-2462159	0194-2462160	vcskuastk@ gmail.com

1.3. Name of the Programme Coordinator with phone, mobile No & e-mail

Name	Telephone / Contact		
	Residence	Mobile	Email
Prof. Musarat Shafi	-	9797144702	pcpulwama@gmail.com

1.4. Year of sanction: 1983

1.5. Staff Position

SNo.	Sanctioned post	Name of the incumbent	Age	Discipline with highest degree obt.	Date of joining	Permanent /Temp.	Contact Details Mo: Email:	Category (SC/ ST/ OBC/ Other)
1	Prof. & Head	Prof. MusaratShafi	47	Home Science	05.02.20	Perma-nent	9797144702	General
2	SMS	Dr.Raies-ul-islam	38	Animal science	24-05-13	-do-	9596911001	-do-
3	SMS	Mr. Gazanfar	41	Floriculture	15-05-10	-do-	9596899665	-do-
4	SMS	Dr. S. Shujat	46	Soil Sc.	06-01-10	Adhoc	7780923349	-do-
5	SMS	Dr.Towseef	-	PHT	10-8-2020	Perma-nent	6006221741	-do-
	SMS	Dr. Shahnawaz	-	Ento.	10-8-2020	-do-	9906758967	-do-
6	Farm Manager	Mr.Gowhar Nabi Parray	43	Forestry	01-09-09	-do-	9597060052	-do-
7	Programme Assistant	Mr.Aijaz Ah. Sheikh	57	Agriculture	01-08-11	-do-	9682574280	-do-
8	Computer Programmer	Mrs. Sumera	39	Computer Science	22-07-09	-do-	9419068881	-do-
9	Accountant / Superintendent	Mr.Mohd Aslam	55	--	-11-19	-do-	7006750016	-do-
10	Stenographer	Vacant	-	-	-	-		--

S No.	Sanctioned post	Name of the incumbent	Age	Discipline	Pay Scale (Present basic Rs.)	Date of joining	Permanent /Temp.	Contact Details	Category (SC/ ST/ OBC/ Other)
11	Driver	Mr.Shahzad	43	--	RL-3 (21700)	2017	-do-	6005139600	-do-
12	Driver	Mr.Javed Ahmad Khan	37	--	RL-4 (26300)	14.10.13	-do-	7051605161	-do-
13	Supporting staff	Mr.Ab. Rashid Bhat	50	--	RL-4 (34300)	27.09.94	-do-	7006835155	-do-
14	Supporting staff	Mr. Mohmmad Iqbal	50	--	RL-1 (14800)	03.2019	--	9596137098	--

1.6. Total land with KVK (in ha): 10.02 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.6
2.	Field Crops	0.92
3.	Demonstration Units(Hort.)	1.14
4.	Demonstration Units (Diary ,Poultry,Fish Pond, Vermicompost)	0.50
5.	Nursery Block	0. 50
	Barren & waste land	5.36

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR		1771	--	--	--	Need repairs
2.	Farmers Hostel	SKUAST-K	--	--	--	--	--	-
3.	Staff Quarters (02)	ICAR		625	--	--	--	Need repairs
4.	Demonstration Units	SKUAST-K						-do-
A	Mushroom	SKUAST-K	--	--	--	--	--	-do-
B	Vermicompost	SKUAST-K	--	--	--	--	--	-do-
C	Fish Pond	SKUAST-K	--	--	--	--	--	-do-
D	Apiculture	SKUAST-K	--	--	--	--	--	-do-
5	Fencing							-do-
6	Rain Water harvesting system	--	--	--	--	--	--	--
7	Threshing floor	--	--	--	--	--	--	--
8	Farm godown	--	--	--	--	--	--	--
		--	--	--	--	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero(Mahindra)	March 2016	8,00000.0	84475	Needs Repair
Motor cycle	March 2011	48,245.0	18420	Good condition

C) Equipments including Tractor & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer	1999	33600.00	Not working
Hp Deskjet	1999	15000.00	Not working
Fax Machine	2003	20342.00	Working
UPS offline	2003	7190.00	Not working
Photocopier	2005	69084.00	Working
UPS 2KVA Online	2005	54173.00	Not Working
Laser Printer	2005	10836.00	-do-
Computer	2006	81276.00	-do-
LCD Projector	2007	99839.00	Working
Server	2008	ICAR	Working
Computers (5 No.)	-do	-do-	Three working
UPS 3KVS online (01)	-do-	-do-	Not working
UPS (650 VA) 05 No.	-do	-do-	Not Working
V-SAT (01 No.)	-do-	-do-	Service taken back

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Farming system/ enterprise
2	EFS-I Hort – Agri - Dairy
3	EFS-II Agri – Hort – Poultry - dairy
4	EFS-III Agri – Hort – Beekeeping
5	EFS-IV Saffron – Hort - Agri

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

S. No	Agro-climatic Zone	Characteristics
1	Sub humid temperate	Pulwama – vegetables, fruits and cereals Tral – Cereals, Fruits Pampore – Saffron, Cereals
2	High altitude	Kellar– Fruits, Cereals Parts of Tral- Maize,Oats,Pulses

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in (ha)
1	Lower plane soils (karewas)	Silty clay loams	24938
2	Group of Locustine origin	Clay loam	33604
3	High altitude soils	-do-	5030

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

S. No	Crop	Area (ha)	Production (Mts)	Productivity (Mts/ha)
1	Paddy	16500	112200	6.8
2	Maize	3603	180150	50.00
3	Oilseeds	17100	171000	10
4	Pulses	4315	5178	1.2
5	Vegetables	4985	162012	32.49
6.	Fodder	8710	252590	29
8.	Saffron	3200	8	0.0025
9	Apple	15785	172112(Mt)	10.90(Mt /ha)
10	Almond	3490	6462(Mt)	1.85(Mt /ha)
11	Walnut	5435	21,861(Mt)	4.02(Mt /ha)

2.5 Weather data:- Data Awaited

Month	Rainfall (mm)	Temperature ^{0} C	Temperature ^{0} C	Relative Humidity (%)

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

Category	Population	Production	Productivity
Cattle			
Crossbred			
Indigenous	11264	610075 ltrs/day	-
Buffalo	908	-	-
Sheep			
Crossbred	149132	-	-
Indigenous	56248	-	-
Goats	29500	9.56 lac Kg Meat, 4.60 lac Kg wool	
Pigs			
Crossbred	-	-	-
Indigenous	-	-	-
Rabbits	-	-	-
Poultry			
Hens	7550000	-	-
Desi		-	-
Improved		-	-
Backyard	2.248 lacs		-
Pvt. (Broiler)	286 lacs.		-
Fish			
Fish Pond (Govt. Sector) Trout		24.34 Q.	-
Carp	Nill	-	-
Fish Pond (Private Sector) Trout		30.15 Q	-
Carp		52.97 Q.	-
Capture fisheries production		3891.7 Q.	-

2.7 Details of Operational area / Villages

Name of the taluk	*Name of the CD Block*	*Name of the village*	*How long the village is covered under operational area of the KVK (specify the years)*	*Major crops and enterprises*	*Major problems identified*	*Identified thrust areas*
Pulwama	Pulwama	Mugalpora, Tenghar, Muran, Tahab, Tilangam, Dodura	10	Fruit crops (Apple,Pear, Almond etc) Vegetables Floriculture	• Pollination problem (low set/yields) • Fruit drop • Fruit Russetting • Improper nutrient mgt. • Soil health problems • Diseases & Pests	Fruit prod & Floriculture IDM
	Shadmarg	Shadimarg, RajporaKalampora,	01			
	Lassipora	Lassipora, Wasoora, Nowpora, Liter, Chakura, Astanpora	03			
	Pampore	Dusoo, Barsoo, Lethpora, Khrew, Shar, Ladoo	02	Saffron	• Low productivity • Corm rot disease	Scientific saffron cultivation IDM
	Tral	Tral, Divar, Chitragam, Haffo, Pinglish	05	Field crops (Paddy, Maize. Mustard) & Dairying	• Low yielding cultivars(use of land races) • Improper nutrient management • Diseases/pests • Soil health problem • Post-harvest handling • Poor health & low yields	Production management IPM/IDM Livestock production
	Aripal	Aripal, PanirDeedarpora, Khangund, Bhatnoor, Naristan, Satura	05			
	Dadsara	Dadsara, Nowpora, Chandrgam, Hardumir, Amirabad	04			
	Awantipora	Malangpora, Padgampora, Renzipora, Shaltokeun, Jangalnad, Gulzapora	10			
	Kakapora	Ratnipora, Urcharsoo, Wanpora, Samboora Naman, Narbal	05	Vegetables & Poultry	• Improper nutrient mgmt. • Pests and diseases • Unavailability during winter • High mortality in poultry • Improper management in winters	Vegetable production Poultry Production
	Newa	Bangund, Newa, Parigam, Pinglina				
	Achagoza Partially	Rajpora Keller, Drabgam, Abhama	03	Home science	• Orchard management • Food spoilage • least knowledge about health,hygiene & nutritious diet	Fruit cultivation Human health & hygiene

2.8 Priority/thrust areas

Crop / Enterprise	Thrust area
Apple, Almond	Orchard management 1. Training pruning on scientific lines 2. Use of pollinators and Pollinizers 3. Integrated disease management 4. Integrated nutrient management
Vegetables	Vegetable cultivation on scientific lines 1. Seed production 2. Production of early season seedlings under polyhouses 3. Popularization of vegetable hybrids
Poultry farming	Profitable poultry farming and Dairying 1.Management of parasitic diseases in Poultry 2. Popularization of Vanraja/kroiler birds as back yard poultry.
Value addition	Value Addition in fruits and vegetables 1. Pickle and puree making 2. Jam, juice and jelly making
Fodder production	Fodder production 1.Seed production 2. Hay & silage making
Fisheries	Fish farming
Saffron	Saffron cultivation 1. Management of Corm rot disease 2. Integrated nutrient management
Cereal crop production Paddy	Paddy Cultivation 1. Nursery raising/Management of newly released varities 2. SRI Techniques 3. Water management 4. Disease/Pest and Nutrient Management 5. Weed Management
Oilseed	Oilseed Production 1. Seed production. 2. Insect/pest and nutrition management
Wheat	Wheat Production 1. Seed production

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2020

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
19	12	66	42	561	272	400	272

3. A.1 FLDs Conducted under CFLDs on Oilseed

FLD (Oilseeds)			
Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement
50	50	43	43

3. A.2 FLDs Conducted under CFLDs on Pulses

FLD (Pulses)			
Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement
125	125	82	82

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	75	77	1125	1366	-	708	-	7768
Rural youth	33	27	330	377				
Extn. Functionaries	25	14	250	160				

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
16.72	16.72	-	2730

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg) (Vermicompost)	
7		8	
Target	*Achievement*	*Target*	*Achievement*
	-	-	-

B. Abstract of interventions undertaken

S. No	*Thrust Area*	*Crop/ Enterprise*	*Problem*	*Interventions*										
				Title of OFT if any	*Title of FLD if any*	*No. of Training (farmers)*	*No.of Training (Youths)*	*No. 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.	INM	Apple	Low fruit set	Effect of foliar application of Boron on fruit set and productivity of apple	-	-	-	-	-	-	-	-	-	300gms Boric acid
2	Nursery Mgmt	Ornamental plants	Poor Rooting	Effect of rooting media on rooting of different ornamental cuttings	-	-	01	-	07	-	-	-	-	
3	Nursery Mgmt.	Ornamental plants (Pansy, Snapdragon &Dianthus)	Poor Germination	Nursery raising of annuals, seasonal on scientific guidelines.	-	2	-	-	05	0.0003	-	-	-	-
4	Disease Mgmt.	Livestock	Foot rot in sheep	Management of foot rot in sheep	-	-	-	-	-		-	-	-	-
5	Feed Mgmt.	Livestock	Low milk yield during winters	Impact of winter chocolate on production performance of dairy cattle	-	-	-	-	-	-	-	-	150 chocl ates	
6	Nursery Mgmt	Apple	Low seed germination rate	Influence of stratification on seed germination of Apple		03	-	-	-	0.02	-	-	-	-
7	INM.	Almond	Poor fruit set and yield	Effect of foliar micro-nutrient spray on fruit set and productivity of almond		03								

`8	Varietal evalvation	Broccoli	Unawarernes about exiotic vegetables	Introduction & evaluation of Brocoli hybrids for Kharif & Rabi season under Kashmir conditions	-	-	-	-	-		5000			
9	INM	Saffron	Low yield	Evaluation of different doses of vermicompost application along with NPK and their effect on growth & yield of saffron	-	-	-	-	-	-	-	-	-	-
10	PHT	Chilli	Poor quality	Scientific drying of chilies	-	-	-	-	-		-	-	-	-
11	Production & Mgmt. technology	Fodder	Fodder shortage /loss of soil moisture	Yield & nutritional quality of fodder grass in Horti-Pastural systems	-	-	-	-	-		-	-	-	-
12	Varietal Evaluation.	Paddy-Wheat	Lack of short duration varieties	Variety evaluation under Paddy- Wheat Rotation	-	-	-	-	-	0.09	-	-	-	-

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3.1 Achievements on technologies assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Fodder Crop	TOTAL
Varietal Evaluation	1	-	-	-	1	-	-	-	2
Protecteed cultivation	-	-	-	-	-	-	-	-	-
Plant Propogation Tech.							-		-
Layout & mgmt. of orchards	-	-	-	-	-	-	-	-	-
Prod. & Mgmt. tech	-	-	-	1	-	-	-	1	2
Nursery Mgmt.	-	-	-	-	-	1	2		3
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	1	-	2	-	-	3
IFS	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-		-	-	-	-
Integrated Pest Management	-	-	-	-		-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-
TOTAL	1	-	-	2	1	3	2	1	10

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

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

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

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	Apple	Effect of foliar application of Boron on fruit set and productivity of apple.	03	03	0.25
	Almond	Effect of foliar micro-nutrient spray on fruit set and productivity of almond	03	03	0.25
	Saffron	Evaluation of different doses of vermicompost application along with NPK and their effect on growth & yield of saffron	03	03	0.35
Varietal Evaluation					
	Brocoli	Introduction & evaluation of Brocoli hybrids for Kharif & Rabi season under Kashmir conditions	05	05	0.3
	Paddy-Wheat	Variety evaluation under Paddy- Wheat Rotation	05	05	0.05
Production and management technology	Fodder	Yield & nutritional quality of fodder grass in Horti-Pastural systems.	03	03	0.05
Nursery mgmt.	Ornamental plants(Pansy, Snapdragon, Dianthus)	Nursery raising of annuals/ seasonal on scientific guidelines.	03	03	0.0025
	Ornamental plants	Effect of rooting media on different ornamental plants	03	03	0.00016 (185 sqft/ trial)
	Apple	Influence of stratification on seed germination of Apple	03	03	0.005
PHT	Chilli	Scientific drying of chilies	03	03	-
Total			34	34	-

3.2.2. Technologies Refined under various Crops:-Nil

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	Dairy cattle	Impact of winter chocolate on production performance of dairy cattle -	10	04
Disease management	Sheep	Management of foot rot in Sheep -	10	04
Feed and fodder	-	-	-	-
Small scale income generating enterprises	-	-	-	-
		Total	20	08

3.2.4. Technologies Refined under Livestock and other enterprises:-Nil

B. Results of Technologies Assessed

(a) Concluded On Farm Trials:-

(b) OFT 1:- Effect of foliar application of Boron on fruit set and productivity of apple.

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
Apple	Integrated	Low fruit set	Effect of foliar application of Boron on fruit set and productivity of Apple	03	T1:Farmers practice: No spray T2: Application of boric acid @1.5 g/ltr at bud swell stage, after petal fall & 21days after second spray	Fruit set productivity	T1= 22% T2= 31% T1= 18 t/ha T2= 23 t/ha	The fruit set was enhanced by 9% in T2 as against T1 wherein no boron spray was done/	The growers were very much satisfied with the technology since it increased the yield and also quality of produce

(b)

Technology assessed	Source of Technology	Production (t/ha)	Net Return (Profit) in Rs./ha	BC Ratio
*T1:*Farmers practice: No spray	SKUAST-K	18 t/ha	5,40,000	1:3.25
T2: Application of boric acid @1.5 g/ltr at bud swell stage, after petal		23 t/ha	8,03,333	1:3.97

(c) Details of On Farm Trial for assessment

1.	Title of Technology Assessed	Effect of foliar application of Boron on fruit set and productivity of Apple
2.	Problem definition	Low fruit set
3	Detail of technologies selected for assessment	*T1:*Farmers practice: No spray *T2:* Application of boric acid @1.5 g/ltr at bud swell stage, after petal fall & 21days after second spray
4	Source of technology	SKUAST-K
5	Production system & thematic area	Integrated nutrient management
6	Performance of the technology with performance indicators	Very good results were obtained with increase in both fruit yield and quality of produce
7	Feedback, matrix scoring of various technology parameters done through farmer's participation /other scoring techniques	
8	Final recommendation for micro level situation	Application of three sprays of boric acid @1.5 g/ltr at bud swell stage, after petal fall & 21days after second spray
9	Constrains identified & feedback for research	As per the SKUAST-K spray schedule for apple the fruit growers are supposed to make at least ten sprays during the season hence it is very difficult/cumbersome to accommodate three more sprays of Boron
10	Process of farmer's participation & their reaction	In the form of field days, farmer interaction and field diagnostic visits

OFT2:- Effect of rooting media on rooting of ornamental cuttings

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
Orna-mental Plants	Irrigated	Poor rooting	.Effect of rooting media on rooting of ornamental cuttings	03	T_1:- Rooting media soil (Farmers Practice) T_2:- Rooting media pure sand (Recommended practice) T_3:- Rooting media Cocopeat+Vermiculite+perilite in the ratio of 2:1:1 (Refinement)	Rooting percentage and Quality	$T_{1:-}$ 34% rooting $T_{2:-}$ 45% rooting T3:- 58% rooting	58% mean average rooting was observed in the cuttings of different ornamental plants in the rooting media mixture of cocopeat + vermicompost + perlite in the ratio of 2:1:1, whereas 45 percent rooting was ascertained in the rooting media of sand. However minimum rooting of 34 % was recorded in the farmers practice. The data was recorded under low cost polyhouse conditions without having misting facility.	Farmers expressed their satisfaction on the technology demonstrated to them. However, it was impressed upon them to set up the misting facility in order to harvest the maximum profit.

Technology assessed	Source of Technology	Production (t/ha)	Net Return (Profit) in Rs./ha	BC Ratio
T_1:- Rooting media soil (Farmers Practice) T_2:- Rooting media pure sand (Recommended practice) T_3:- Rooting media Cocopeat+Vermiculite+perilite in the	SKUAST-K	• 340/1000 cuttings (Check) • 450/1000 cuttings (Recommended) • 580/1000 cuttings (Refinement)	• 3900 • 5550 • 7400	• 1:1.95 • 1:2.76 • 1:3.70

Details of On Farm Trial for assessment

1.	Title of Technology Assessed	Effect of rooting media on rooting of ornamental cuttings
2.	Problem definition	Poor rooting
3	Detail of technologies selected for assessment	T_1:- Rooting media soil (Farmers Practice) T_2:- Rooting media pure sand (Recommended practice) T_3:- Rooting media Cocopeat+Vermiculite+perilite in the 2:1:1
4	Source of technology	SKUAST-K
5	Production system & thematic area	Propagation
6	Performance of the technology with performance indicators	-
7	Feedback, matrix scoring of various technology parameters done through farmer's participation /other scoring techniques	-
8	Final recommendation for micro level situation	Rooting media Cocopeat+Vermiculite+perilite in the 2:1:1
9	Constrains identified & feedback for research	
10	Process of farmer's participation & their reaction	Through trainings, Farmer scientist interactions etc.

OFT3:- Nursery raising of annuals/ seasonal on scientific guidelines.

Crop/ enterpriser	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of Assessment	Feedback from the farmer
Annual/seasonal flowers	Irrigated	Poor germination and quality	Nursery raising of annuals on scientific guidelines	03	T_1: Nursery raising in soil media (Farmers practice) T_2: Nursery raising using coco peat and vermicompost as growing media in the ratio of 3:1	Germination %age and quality	T_1: 35% germination T_1: 65% germination	65% mean average germination percentage was recorded in different annuals (Pansy, Snapdragon and Dianthus) using the media mixture of coco peat and vermicompost in the ratio of 3:1 whereas only 35% germination was recorded in the farmers practice using soil as growing media	Response from the growers was quiet satisfactory because the technology not only increased the germination but also compensated for the production of vigorous seedlings.

Technology assessed	Source of technology	Production (t/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
T_1: Nursery raising in soil media (Farmers practice) T_2: Nursery raising using coco peat and vermicompost as growing media in the ratio of 3:1	SKUAST-K	• 480/1000 seeds (Check) • 650/1000 seeds (Recommended)	• 3500/pocket of 1000 seeds • 6500/pocket of 1000seeds	• 1:1.8 • 1:2.7

Details of On Farm Trial for assessment

1.	Title of Technology Assessed	Nursery raising of annuals on scientific guidelines
2.	Problem definition	Poor germaination
3	Detail of technologies selected for assessment	T_1: Nursery raising in soil media (Farmers practice) T_2: Nursery raising using coco peat and vermicompost as growing media in the ratio of 3:1
4	Source of technology	SKUAST-K
5	Production system & thematic area	Nursery raising
6	Performance of the technology with performance indicators	-
7	Feedback, matrix scoring of various technology parameters done through farmer's participation /other scoring techniques	-
8	Final recommendation for micro level situation	Nursery raising using coco peat and vermicompost as growing media in the ratio of 3:1
9	Constrains identified & feedback for research	
10	Process of farmer's participation & their reaction	Farmers scientist interaction, Trainings etc.

OFT4:-Management of foot rot in sheep

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
Livestock	-	Foot rot in sheep	Management of foot rot in sheep	03	T1:-Farmers practice(Removing of hoofs) T2 :-Oxtetracycline @ 5-10 mg/kg body weight and 10% zinc sulphate T3:-Enrofloxacin @ 2.5 -5mg/kg body weight and 10% zinc Sulphate	Body condition score	T1: BCS 2 to 1 T2: BCS 2 to 2.5	In both the treatment groups the body condition score of the affected animals improved from thin to average compared to the farmers practice. While the body condition score of animals in farmers practice group reduced from average to thin	Satisfied
						Body weight gain/loss		Animals treated as per farmers practice suffered severe welfare issues and took a couple of months to regain a healthy posture and confirmation. The body weight in these animals was severely reduced	
								Enrofloxacin along with foot bath (10% $ZnSO_4$) was found more efficacious compared to oxytetracycline with foot bath (10% $ZnSO_4$). Enrofloxacin was easy to administer and did not cause much pain to the animal receiving it compared to oxytetracycline	

Technology assessed	Source of Technology	Production(t/ha)	Net Return (Profit) in Rs. /ha	BC Ratio
T1:-Farmers practice(Removing of hoofs)		T1: BCS 2 to 1		
T2 :-Oxtetracycline @ 5-10 mg/kg body weight and 10% zinc sulphate		T2: BCS 2 to 2.5		
T3:-Enrofloxacin @ 2.5 -5mg/kg body weight and 10% zinc Sulphate				

Details of On Farm Trial for assessment

1.	Title of Technology Assessed	Management of foot rot in sheep
2.	Problem definition	Foot rot in sheep
3	Detail of technologies selected for assessment	Oxtetracycline @ 5-10 mg/kg body weight and 10% zinc sulphate
4	Source of technology	SKUAST-K
5	Production system & thematic area	Disease Mgmt
6	Performance of the technology with performance indicators	-
7	Feedback, matrix scoring of various technology parameters done through farmer's participation /other scoring techniques	-
8	Final recommendation for micro level situation	-
9	Constrains identified & feedback for research	-
10	Process of farmer's participation & their reaction	Farmers scientist interaction, Trainings etc.

OFT 5:-Impact of winter chocolate on production performance of dairy cattle

Crop/ enterprise	Farming situation	Problem definition	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
Livestock	-	Low milk yield during winters	Impact of winter chocolate on production performance of dairy cattle	06	T1 :- FP (Nil) T2:- winter chocolate @ 300g/ animal per day for 4 months(Dec-March)	Milk yield	T1:-7ltr/day Avg T2:- 8.25 ltr/day	Milk production on an average increased by 1.25 liters compared to farmers practice	The chocolate is costly. Farmers should be trained to manufacture it themselves, so that they can use locally available ingredients to make it cost effective
						Body condition score		The body condition score of 2 animals decreased from average to poor and in rest of the animals it remained unchanged	
						Reproductive performance		The non pregnant animals fed winter chocolate didn't manifest any apparent signs of heat during the trial period	

Technology assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, litre/animal, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14	15	16
T1 :- FP (Nil)	SKUAST-K	7	Litre/animal	4350	1:2.45
T2:- winter chocolate @ 300g/ animal per day for 4 months(Dec-March)		8.25		5163	1:2.47

Details of On Farm Trial for assessment

1.	Title of Technology Assessed	Impact of winter chocolate on production performance of dairy cattle
2.	Problem definition	Low milk yield during winters
3	Detail of technologies selected for assessment	winter chocolate @ 300g/ animal per day for 4 months(Dec-March
4	Source of technology	SKUAST-K
5	Production system & thematic area	Nutrition Mgmt.
6	Performance of the technology with performance indicators	The chocolate is costly.
7	Feedback, matrix scoring of various technology parameters done through farmer's participation /other scoring techniques	-
8	Final recommendation for micro level situation	-
9	Constrains identified & feedback for research	-
10	Process of farmer's participation & their reaction	-

On Farm Trials (Not conducted):-

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	No. of trials	Technology Assessed	Prod. per unit	Net Return Rs. / unit	CB Ratio
1.	Lilium	Use of under size planting material (Bulbs)	Cultivation of Lilium on scientific guidelines	03	T1: FP –12-14 cm bulb size T2: 14-16 cm bulb size T3:16-18 cm bulb size	Not conducted		
2	Tomato	Early blight	Management of early blight disease on tomato	03	T1: **FP:-** Spray of any fungicide after appearance of disease. T2:**RP**:- Spray mancozeb 75WP @ 0.3%, Hexaconazole	Not conducted		
3	Almond	Mite infestation	Monitoring and management of mite pests of almond	03	T1= Farmers practice T2= 2 sprays 1-Summer spray 0.75ml/l (Early) 2-Fenzaquin 5EC @ 0.4 ml/l (Late)	Not conducted		
4	Cole crops	Insect pests	Management of aphids in Cole crops	03	T1=FP(injudicious pesticide use) T2 = Dichlorovos 76SC @ 1ml/L T3 = Spray Neem Oil @ 5ml/L	Not conducted		
5	Apiary	Diseases & Pests	Management of Honeybees from diseases & pests affecting during winters	03	T1:-Farmers Practice T2:- Sulphur @ 02g/colony & Formic acid (3%)	Not conducted		
6	Apiary	Packing of Honeybee colonies	Winter management of bee colonies through different types of packing material	03	T1:- Paddy Straw T2:-Paddy Straw + Thermocol	Not conducted		
7	Value addition of rice	Poor nutritional quality of conventi-onnal supplementary foods	Rice based complementary food formulation	03	T1:- FP-Storage at ambient temperature T2- Storage in zero energy cool chamber	Not conducted		

On Farm Trials (Ongoing):-

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology Assessed	Prod. per unit	Net Return Rs. / unit	CB Ratio
1.	Apple	Low seed germination rate	Influence of stratification on seed germination of Apple	T1: - FP-No stratification T2: Stratification of seeds for 60 days in sand	Ongoing		
2	Almond	Less fruit set & Low yield	Effect of foliar micro-nutrient spray on fruit set and productivity of almond	T1: Farmer Practice T2= 2 foliar sprays 1st spray: -Boron (4000 ppm) before bloom 2nd spray: -Zn(2000 ppm) after harvest			
3	Broccoli.	Not cultivating exotic vegetables	Introduction & evaluation of Brocoli hybrids for Kharif & Rabi season in Kashmir conditions (New)	T1: Fiesta T2: Tesla T3:-Titanic			
4	Saffron	Low yield Low oil content	Evaluation of different doses of vermicompost application along with NPK and their effect on growth & yield of saffron	T1: Farmer Practice T2: RDF|+ 5t / ha ® T3: RDF+10 t/ha(RF)			
5	Fodder Grass (Doctylis Glomerita)	Fodder shortage/ loss of soil moisture	Yield and nutritional quality of fodder grass in Horti-pastoral system	T1:- FP – Natural Sward Technology to be Demonstrated: T2:- Incorporation of fodder crops in between apple trees			
6	Paddy-wheat	Lack of short duration varieties	Variety evaluation under Paddy- Wheat Rotation	T1: No double cropping (Farmer practice T2: SR-4+SKAU WW-101 T3: SR-5+SKAU WW-101			
7	Chilli	Pretreatments before drying	Scientific drying of Chillies	T1:- Farmers practice T2:-KMS T3:- Citric acid T4:- Ground nut oil			

4. FRONTLINE DEMONSTRATIONS

4.A. Summary of FLDs implemented during (2020)

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	- Irrigated	Rabi 2019-2020	Brown sarsoon	Shalimar Sarsoon-2	-	Crop production	Popularization of SKUAST-K released varieties	64	12.88	56	Paddy
2	Pulses	Rainfed-	Kharief 2020	Rajmash	Shalimar rajmash-1	-	Crop production	Popularization of SKUAST-K released varieties	48	12	40	Field pea
		Rainfed	Kharief 2020	Moong	KM-2241	-	do	do	48	12	40	do
3		Rainfed	Rabi 2019-2020	Pea	HFP-715	-	do	do	115	28	75	Rajmash+ Maiz
4		Rainfed	Rabi 2019-2020	Lentil	IPL-316		do	do	102	22	98	Moong
3	Cereals	- Irrigated	Kharief 2020	Paddy	SR-4	-	Crop production	Popularization of SKUAST-K released varieties	46.4	14.8	35.6	Oil seeds
		Rainfed	Kharief 2020	Maize	C-4	-	Crop production	Popularization of SKUAST-K released varieties	42	13.6	59	Oats

4.A. 1. Soil fertility status of FLDs plots during (2020)

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 2019-2020	Brown sarsoon	Shalimar Sarsoon-2	-	Crop production	Popularization of SKUAST-K released varieties	64	12.88	56	Paddy
2	Pulses	Rainfed	Kharief 2020	Rajmash	Shalimar rajmash-1		Crop production	Popularization of SKUAST-K released varieties	48	12	40	Field pea
		Rainfed	Kharief 2020	Moong	KM-2241	-	do	do	48	12	40	do
3	Cereals	- Irrigated	Kharief 2020	Paddy	SR-4	-	Crop production	Popularization of SKUAST-K released varieties	46.4	14.8	35.6	Oil seeds
		Rainfed	Kharief 2020	Maize	C-4	-	Crop production	Popularization of SKUAST-K released varieties	42	13.6	59	Oats

B. Results of Frontline Demonstrations

4.B.1. Crops

Crop	*Name of the techn. Demons..*	*Variety*	*Hybrid*	*Farming situation*	*No. of Demo./ FAR*	*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	SKUAST-K released varieties & POP	Shalimar Sarsoon-2	-	Irrigated	30/11	6.1	16.6	15.7	16.15	12.8	26.17	27,500	82,500	55,000	3.0:1	26,000	57,600	31,600	2.21:1
Pulses																			
Pea		Prakash	-	Rainfed	63/84	12.5	5.49	5.32	5.41	4.35	24.37	43,240	75,740	32,500	1.75:1	43,200	60,900	17.700	1.41:1
Rajmash		Shalimar Rajmash-1	-	Rainfed	50/ 20	10	11	9	10	7	42.85	60000	160000	100000	2.67:1	51,000	1,12,000	61000	2.20:1
Moong		KM-2241	-	Rainfed	50/ 45	10	9.98	8.04	9.01	6.3	43.02	68800	126140	57340	1.8:1	60000	84,000	24000	1.4:1
Lentil		Shalimar Masoor-2		Rainfed	20/10	04	12.69	11.83	12.26	10.15	20.69	60,000	1,10,340	50,340	1.84:1	57,000	91,350	34,350	1.57:1
Cereals			-	-															
Paddy		SR-4	-	Irrigated	50/46	16.65	85	70	78	58	34.48	90000	184000	94000	2.04:1	90000	140000	50000	1.5:1
Maize		C-4	-	Rainfed	25/11	5	60	50	55	30	83.33	80000	165000	85000	2.06:1	80000	105000	25000	1.31:1

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***
Paddy	Popularization of Blast resistant Variety SR-4	Variety	Disease incidence	5%	20%

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										
Dairy																	
Poultry	Backyard poultry farming	Key-stone golden	22	22				NA		8000	13500	5500	1.68:1	NA	NA	NA	NA
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***
P		

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										

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:- NIL

Enterprise	*Name of the technology demonstrated*	*Variety/ species*	*No. of Demo*	*Units/ Area {m^2}*	*Yield (q/ha)*				*% Incr.*	**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																	

Data on additional parameters other than yield (viz., additional income realized, employment generation, quantum of farm resources recycled etc.) :-NIL

Data on other parameters in relation to technology demonstrated		
Parameter with unit	***Demo***	***Local***

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

Sl.No.	*Activity*	*No. of activities organised*	*Number of participants*	*Remarks*
1	Field days	05	105	Field days play an important role in technology dissemination.
2	Farmers Training	10	86	Good response from farmers.
3	Media coverage	-	-	Media also plays an important role in dissemination of knowledge.
4	Training for extension functionaries	-	-	.

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

A) **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										
I Crop Production										
Production management	4	52	16	68	-	-	-	52	16	68
Weed Management	1	18	03	21				18	03	21
Moisture Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Water management	1	17	0	17	-	-	-	17	0	17
Seed production	1	20	0	20				20	0	20
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop/Nutrient Management	-	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Total	**7**	**107**	**19**	**126**				**107**	**19**	**126**
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	2	25	06	31				25	06	31
Off-season vegetables/crop diversification	01	11	05	16	-	-	-	11	05	16
Nursery raising	1	11	03	14	-	-	-	11	03	14
Cultivation of Exotic vegetables	1	16	-	16	-	-	-	16	-	16
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	2	21	-	21	-	-	-	21	-	21
b) Fruits										
Training and Pruning	2	35	-	35				35	-	35

Layout and Management of Orchards	1	16	0	16	-	-	-	16	0	16
Cultivation of Fruit	1	20		21	-	-	-	20		21
Management of young plants/ orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	02	28	0	28	0	0	0	28	0	28
Pollination Mgmt	01	14	0	14	-	-	-	14	0	14
Nutrient Mgmt.	02	31	0	31	0	0	0	31	0	31
Grading & Packing	01	15		15				15		15
c) Ornamental Plants										
Nursery Management	2	40	05	45				40	05	45
Management of potted plants	2	23	20	43				23	20	43
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants	2	61	23	84				61	23	84
d) Plantation crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
e) Tuber crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology										
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Total	**23**	**367**	**62**	**429**				**367**	**62**	**429**
III Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation										
Integrated Nutrient Management										
Production and use of organic inputs										

Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing	01	27	03	30				27	03	30
Total	**01**	**27**	**03**	**30**				**27**	**03**	**30**
IV Livestock Production and Management										
Dairy Management	01	13	0	13				13	0	13
Poultry management	-	-	-	-	-	-		-	-	-
Piggery Management	-	-	-	-	-	-		-	-	-
Rabbit Management	-	-	-	-	-	-		-	-	-
Disease Management	03	37	12	49	-	-		37	12	49
Feed management	02	42	25	67				42	25	67
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Total	**06**	**92**	**37**	**129**				**92**	**37**	**129**
V. Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	01		19	19	-	-	-	-	19	19
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	01	0	35	35					35	35
Minimization of nutrient loss in processing	01	0	27	27			-	-	27	27
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition										
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	01		30	30					30	30
Total	04		111	111					111	111
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-

and value addition										
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
VII. Plant Protection										
Integrated Pest Management	03	73	15	88				73	15	88
Integrated Disease Management	01	24	0	24				24	0	24
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Total	04	97	15	112				97	15	112
VIII Fisheries										
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-

X CapacityBuilding and Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Extension Education & communication	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	01	27	1	28	-	-	-	27	1	28
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Total	**01**	**27**	**1**	**28**	**-**	**-**	**-**	**27**	**1**	**28**
XI Agro-forestry									-	
Production technologies	03	54	-	54				54	-	54
Nursery management	03	41	0	41				41	0	41
Integrated Farming System	03	36		36	-	-		36		36
TOTAL	09	131	-	131				131	-	131
(B) RURAL YOUTH										
Mushroom Production										
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production										
Production of organic inputs										
Integrated Farming										
Planting material production										
Vermi-culture										
Sericulture										
Design & dev. of high nutrient efficient diet										
Women & Child care										
Repair and maintenance of farm machinery and implements	-				-	-	-	-	-	-
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Value addition	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn	-	-	-	-	-	-	-	-	-	-

culture										
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Pollution control										
TOTAL										
(C) Extension Personnel										
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

B) **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										
I Crop Production										
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetable cultivation/ Diversification	1	16	-	16	-	-	-	16	-	16
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Grafting & Budding	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of	-	-	-	-	-	-	-	-	-	-

ornamental plants										
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
e) Tuber crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
f) Spices										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	01	13	-	13	-	-	-	13	-	13
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Total	**02**	**29**		**29**				**13**	**-**	**13**
III Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	01	18	04	22				18	04	22
Integrated Nutrient Management	01	22	-	22				22	-	22`
Production and use of organic inputs	01	15	-	15				15	-	15
Management of Problematic soils	-	-	-	-	-	-		-	-	-
Micro nutrient deficiency in crops	01	23	-	23	-	-		23	-	23
Nutrient Use Efficiency	-	-	-	-	-			-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-	-
Total	**04**	**78**	**04**	**82**				**78**	**04**	**82**
IV Livestock Prod.*Management										
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	01	0	16	16	-	-		0	16	16
Designing and	01	0	20	20	-	-		0	20	20

development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	04	-	65	65	-	-	-	-	65	65
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care										
Total	**06**	**-**	**101**	**101**				**-**	**101**	**101**
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
VII Plant Protection										
Integrated Pest Management	03	43	-	43	-	-	-	43	-	43
Integrated Disease Management	01	25	-	25	-	-	-	25	-	25
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Mushroom Cultivation	-	-	-	-	-	-	-	-	-	-
Total	**04**	**68**	**-**	**68**				**68**	**-**	**68**
VIII Fisheries										
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-

Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Grnad TOTAL	**16**	**175**	**105**	**280**				**175**	**105**	**280**
(B) RURAL YOUTH										
Mushroom Production	01	28		28	-	-	-	01	28	28
Beekeeping	03	35	08	43	25		25	60	08	68
Protective cultivation	01	22	0	22		-		22	0	22
Prod. Magmt. Of Vegetables	02	12	06	18				12	06	18
Seed Production	01	12		12				12		12
Soil & Water testing	01	07	0	07	-	-		07	0	07
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Prod. &Mgmt Tech. in agroforestry/ Nursery Mgmt	02	24	0	24	-	-		24	0	24

Entrepreneurship Dev.	01	12	0	12	-	-	-	-	-	-
Nursery Management of Horticultural crops	05	73	11	83	-	-	-	38	04	42
Protected cultivation of ornamental plants/Bulb Production	02	21		21				21		21
Women & Child care	03	0	47	47	-	-	-	0	47	47
Orchard Mgmt.	-	-	-	-	-	-	-	-	-	-
Vermi-culture	01	04		04				04		04
Sericulture	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	01	20	-	20	-	-	-	20	-	20
Value addition										
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	01	-	12	12	-	-	-	-	12	12
Tailoring and Stitching	01	-	10	10	-	-	-	-	10	10
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Pollution control	01	13		13				13		13
Total	**27**	**283**	**94**	**377**	**25**		**25**	**283**	**94**	**402**
(C) Extension Personnel										
Nursery Mgmt.	01	09	02	11	-	-		09	02	11
Integrated Pest/Disease mgmt Management	03	31		31	-	-		31	-	31
Integrated Nutrient management	01	10	-	10	-	-	-	10	-	10
Orchard Mgmt	01	11	0	11	-	-		11	0	11
Protected cultivation technology	01	11	0	11	-	-	-	11	-	11
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-

Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
PHT/ Value Addition	02		15	15					15	15
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	02	15	-	15				15		15
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security										
Women and Child care	02		50	50					50	50
Production & Mgmt. technology	01	14	-	14	-	-		14	-	14
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	**14**	**101**	**67**	**168**	**-**	**-**	**-**	**101**	**67**	**168**

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										
I Crop Production										
Production management	4	52	16	68	-	-	-	52	16	68
Weed Management	1	18	03	21				18	03	21
Moisture Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Water management	1	17	0	17	-	-	-	17	0	17
Seed production	1	20	0	20				20	0	20
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop/Nutrient Management	-	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Total	**7**	**107**	**19**	**126**				**107**	**19**	**126**
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	2	47	0	47	0	0	0	47	0	47
Off-season vegetables/crop diversification	02	31	0	31	-	-	-	31	0	31
Nursery raising	-	-	-	-	-	-	-	-	-	-
Cultivation of Exotic vegetables	-	-	-	-	-	-	-	-	-	-

Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-	-
b) Fruits										
Training and Pruning	2	35	-	35				35	-	35
Layout and Management of Orchards	1	16	0	16	-	-	-	16	0	16
Cultivation of Fruit	1	20		21	-	-	-	20		21
Management of young plants/ orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	02	28	0	28	0	0	0	28	0	28
Pollination Mgmt	01	14	0	14	-	-	-	14	0	14
Nutrient Mgmt.	02	31	0	31	0	0	0	31	0	31
Grading & Packing	01	15		15				15		15
c) Ornamental Plants										
Nursery Management	2	40	05	45				40	05	45
Management of potted plants	2	23	20	43				23	20	43
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants	2	61	23	84				61	23	84
d) Plantation crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
e) Tuber crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	01	13	-	13	-	-	-	13	-	13
Post harvest	-	-	-	-	-	-	-	-	-	-

technology and value addition										
Total	21	374	48	423				374	48	423
III Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	01	18	04	22				18	04	22
Integrated Nutrient Management	01	22	-	22				22	-	22`
Production and use of organic inputs	01	15	-	15				15	-	15
Management of Problematic soils	-	-	-	-	-	-		-	-	-
Micro nutrient deficiency in crops	01	23	-	23	-	-		23	-	23
Nutrient Use Efficiency	01	18	04	22				18	04	22
Soil and Water Testing	01	27	03	30				27	03	30
Total	**06**	**123**	**11**	**134**				**123**	**11**	**134**
IV Livestock Production and Management										
Dairy Management	01	13	0	13				13	0	13
Poultry management	-	-	-	-	-	-		-	-	-
Piggery Management	-	-	-	-	-	-		-	-	-
Rabbit Management	-	-	-	-	-	-		-	-	-
Disease Management	03	37	12	49	-	-		37	12	49
Feed management	02	42	25	67				42	25	67
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Total	**06**	**92**	**37**	**129**				**92**	**37**	**129**
V. Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	01		19	19	-	-	-	-	19	19
Design and development of low/minimum cost diet	01	-	16	16				-	16	16
Designing and development for high nutrient efficiency diet	02	0	55	55					55	55
Minimization of nutrient loss in processing	01	0	27	27			-	-	27	27
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	04	-	65	65	-	-	-	-	65	65
Income generation activities for empowerment of rural	-	-	-	-	-	-	-	-	-	-

Women										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	01		30	30					30	30
Total	**10**	**0**	**212**	**212**					**212**	**212**
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
VII. Plant Protection										
Integrated Pest Management	06	116	15	131				116	15	131
Integrated Disease Management	02	49	0	49				49	0	49
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Total	08									
VIII Fisheries										
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-

Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
X CapacityBuilding and Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Extension Education & communication	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	01	27	1	28	-	-	-	27	1	28
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry										
Production technologies	03	54	-	54				54	-	54
Nursery management	03	41	0	41				41	0	41
Integrated Farming System	03	36		36	-	-		36		36
TOTAL	**10**	**158**	**1**	**159**				**158**	**1**	**159**
(B) RURAL YOUTH										
Mushroom Production	01	28	0	28	-	-	-	28	0	28
Beekeeping	03	35	08	43	25		25	60	08	68
Protective cultivation	01	22	0	22		-		22	0	22
Prod. Magmt. Of Vegetables	02	12	06	18				12	06	18
Seed Production	01	12	0	12				12	0	12
Soil & Water testing	01	07	0	07	-	-		07	0	07

Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Prod. &Mgmt Tech. in agroforestry/ Nursery Mgmt	02	24	0	24	-	-		24	0	24
Entrepreneurship Dev.	01	12	0	12	-	-	-	12	0	12
Nursery Management of Horticultural crops	05	73	11	84	-	-	-	73	11	84
Protected cultivation of ornamental plants/Bulb Production	02	21	0	21				21	0	21
Women & Child care	03	0	47	47	-	-	-	0	47	47
Orchard Mgmt.	-	-	-	-	-	-	-	-	-	-
Vermi-culture	01	04	0	04				04	0	04
Sericulture	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	01	20	0	20	-	-	-	20	0	20
Value addition										
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	01	0	12	12	-	-	-	0	12	12
Tailoring and Stitching	01	0	10	10	-	-	-	0	10	10
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Pollution control	01	13		13				13		13
TOTAL	**27**	**283**	**94**	**377**	**25**		**25**	**308**	**94**	**402**

(C) Extension Personnel										
Nursery Mgmt.	01	09	02	11	-	-		09	02	11
Integrated Pest/Disease mgmt Management	03	31		31	-	-		31	0	31
Integrated Nutrient management	01	10	0	10	-	-	-	10	0	10
Orchard Mgmt	01	11	0	11	-	-		11	0	11
Protected cultivation technology	01	11	0	11	-	-	-	11	0	11
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
PHT/ Value Addition	02	0	15	15				0	15	15
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	02	15	0	15				15	0	15
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security										
Women and Child care	02	0	50	50				0	50	50
Production & Mgmt. technology	01	14	0	14	-	-		14	0	14
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	**14**	**101**	**67**	**168**	**-**	**-**	**-**	**101**	**67**	**168**

D) Skill Development/Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Dur days	No. of Participants			Self-employed after training			No. of persons employed else where
					M	F	T	Type of units	No. of units	No. of persons employed	
Crochet designing	8th Jan 2020	Knitting & crochet designer craft	Income generation activities for women empowerment	60	-	11	11	-	-	-	-
Crop	26th – 28th Aug 2020.	Demonstration on Preperation of tomato puree		03	-	13	13	-	-	-	-
Enterprise	24th-30th Dec. 2020	Apiary management strategeries for entrepreneures	Entreprenenurship Development	07	8	7	15	-	-	-	-

E) Sponsored Training Programmes conducted by KVK:-

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	17th March 2020	Awareness Prog. on "Bee-keeping for bee keepers	Apiculture	Bee-Keeping	01		01	20	0	20	-	-	-	20	0	20	Agri. Dept	
2	18th March 2020	Awareness Prog. on "Protected cultivation of Vegetables	Olericulture	Protected Cultivation	01		01	25	0	-25	-	-	-	25	0	25	Div. of veg. Science SKUAST-K	
3	14th March 2020	Awareness prog. on "Diseases and Nutrient mgmt of cereal crops	Fruit science	INM	01		01	25	0	-25	-	-	-	25	0	25	Agri. Dept. Kulgam	
4	12th – 13th March 2020	Farmer Scientist Interaction	Ext. Education	Ext. Edu. & Comm.	01		01	25	0	25	-	-	-	25	0	25	By Dept. of Agriculture, Sub Div. Tral)	
5	12th – 13th March 2020	Farmer Scientist Interaction	Ext. Education	Ext. Edu. & Comm.	01		01	25	0	25				25	0	25	By Dept. of Agriculture, Sub Div. Kakapora	
6	7th .Sept. 2020	Scientific Mushroom cultivation	Plant Pathalogy	Prod. & mgmt. tech.	01	RY	01	55	-	55	-	-	-	55		55		-
7	10th Nov. 2020	Awareness program on importance of Saffron	Crop Production	Awareness	01	Farmers	01	29	07	36	-	-	-	29	07	36	NMHS project at village patlibag	

F. Skill Development Training under ASCI Conducted by selected KVKs: - Nil

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

6. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	Purpose/Topic & Date	No. of activities	Participants											
			Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
			M	F	T	M	F	T	M	F	T	M	F	T
Field Day	Paddy 15th.-16th Sep.	02	20	-	20							20	-	20
	Maiz 6th.-7th Sep	02	30	10-	40							30	10-	40
	Moong(5th Aug)	01	10		10							10		10
	Rajmash 4th Aug	01	10	5	15							10	5	15
Total		06	109	25	134							109	25	134
Exhibition	7th March 2020	02	313	0	313							313	0	313
Film Show	-	-	-	-	-	-		-	-	-	-	-	-	-
Method Demonstrations	Jan20- Dec20	15	90	14	104	-	-	-	-	-	-	90	14	104
Lectures delivered as resource persons	Jan20- Dec20	66	778	376	1154							778	376	1154
Newspaper coverage	Jan20- Dec20	08	-	-	-	-	-	-	-	-	-	-	-	-
TV talks	Jan20- Dec20	07	-	-	-	-	-	-	-	-	-	-	-	-
Extension Literature	Jan20- Dec20	03	304	-	304							304	-	304
Advisory Services	Jan20- Dec20	85	2501	123	2624							2501	123	2624
Scientific visit to farmers field	Jan20- Dec20	258	947	59	1006							947	59	1006
Farmers visit to KVK	Jan20- Dec20	140	1275	69	1344							1275	69	1344
Diagnostic visits	Orchards	13	53	07	60							53	07	60
Exposure visits	Jan20- Dec20	07	160	16	176							160	16	176
Farmer Scientist interaction		30	132	25	157							132	25	157
Kissan mela	7th March 2020	01	313	0	313							313	0	313
International Womens day	8th March 2020	01	-	54	54							-	54	54

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
Pulwama	2624	85	Hort./Agri.	Dairy	-	-	-		

NB:- Error sending sms while using the excel sheet.

6.C. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS during 2020:-Nil

No. of Tech. week celebrated	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
1	Gosthies	-	-	
2	Lectures organized	-	-	-
3	Exhibition	-	-	-
4	Film show	-	-	-
5	Fair	-	-	-
6	Farm Visit	-	-	-
7	Diagnostic Practicals	-	-	-
8	Distribution of Literature (No.)	-	-	-
9	Distribution of Seed (q)	-	-	-
10	Distribution of Planting materials (No.)	-	-	-
11	Bio Product distribution (Kg)	-	-	-
12	Bio Fertilizers (q)	-	-	-
13	Distribution of fingerlings	-	-	-
14	Distribution of Livestock specimen (No.)	-	-	-
15	Total number of farmers visited the technology week		221	-

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	Wheat	SW-1	3.85		KVK Store
		SW-2	1.33		do
	Maize	C-4	1.10		--do-
	Paddy	SR-4	4.0		--do-
Oil Seeds	Mustard	SS-2	0.80		
Fodder Crops	Oats	SKO-90	4.23	-	KVK Store
PULSES	Pea	Shalimar pea	1.18	-	10
	Moong	Shalimar Moong-1	0.19		KVK Store
VEGETABLES	Bhindi	SKBS-11	0.04	-	do
	Total		**16.72**	-	

B).PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
	Apple grafted (HD)	Gala, Red Gold, Red Chief, Red Velox, Organ super	486	93600	97
	Apple assorted	Mix	5	500	1
	Clonal Apple Rootstock	MM106	1	80	1
	Walnut grafted	Selections	55	16500	23
	Grafted Apricot	CITH Slections	25	2500	20
	Grafted Plum	Santaros	23	2300	6
	Peach grafted	-	6	600	6
		Total	**601**	**116080**	**154**
SPICES					
VEGETABLES					
	Broccoli	Palm Simridhi	0.6q	3000	50
	Cauliflower	Snowcrown	0.35q	1050	25
	Red cabbage	Real ball	0.20q	600	15
	Knol Khol	Whit Vienna, Purple Vienna, G.M. Dari	1.5q	3000	87
		Total	**2.65q**	**7650**	**177**
Flowers/Ornamental Plants	Annuals	Hybrid Seedlings (Pansy, Snapdragon, Dianthus)	2500		Used in KVK Landscape Area Farmers (30)
	Bulbous Flowers	Hyacianths, Tulip, Daffodil,Belladonna lily, Nerine lily, Muscari, Iris	150		
			200		
			250		
			80		
			100		
			50		
	Landscape Plants	Dusty Miller, Santollena, Euonymus sps. Buxus etc.	200		l
		Total	**3530**		
FOREST SPECIES	Conifers	Cupressus torulosa	400		
		Cedrus deodara	200		
		Pinuswallichiana	100		
		Abiespindrow			
		Willow twigs	100	2500	
		Firewood	-		

		Total	**800**	**2500**	
Medicinal Plants	-	Mentha	1000	-	-
		Artemissia	500	-	
		Bergenia	1500		
		Podophylum	100		
		Total	**3100**		
PLANTATION CROPS	-	-	-	-	-

B) BIO PRODUCTS: NIL

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

C) LIVESTOCK

Sl. No.	**Type**	**Breed**	**Quantity**		**Value (Rs.)**	**Provided to No. of Farmers**
			(Nos)	**Kgs**		
Cattle	Cow	Jersy	2		1,50000	
	Cow	HF	1		70000	
	Calves	-	2		60000	
SHEEP AND GOAT	-	-	-	-	-	-
POULTRY		Vanraja Birds	500	-	50000	45
		Keystone	250		25000	23
FISHERIES		Commoncarp		30	6000	17

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

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

(A)

Item	***Title***	***Authors name***	***Number of copies***
Research papers	Adoption of Almond (*Prunus amygdalus*) Production Technologies in District pulwama and kashmir	Bashir A Rather Jahangeer A Baba M Zubir Tak R A Dar Gower N Pary	
	Constraints encountered by oats growers in adoption of improved production technology	S S Kubrevi M S Kanwar M A Dar R A Dar I Yatoo	
	Evaluation of Different Strawberry Cultivars for Growth, Yield and Quality Characters under Temperate of North Western Himalayas	Sehresh Jan Jahangeer A Baba M K Sharma Sheikh Qurat	

Item	*Title*	*Authors name*	*Number of copies*
Technical reports	-	-	-
Book chapters	An Intervention Programme for increasing Nutritional Status of rural women" in**:Women Perspectives –Issues and Concerns**: ISBN: 978-93-87631-24-3 "Valuation of Knowledge and Perception of ICDS Women Beneficiaries Regarding Chidcare and Child Activities"**in:Women Empowerment and Emancipation**. ISBN: 978-93-87631-25-0	Iffat Ghani and Mohd Zubair.	-
Technical bulletins	KVK PROFILE	Prof. A.H.Mughal and other scientists	-
Popular articles			-
Training Manual			-
Extension literature			-
Folders /leaflets	Gaza aurBachoonkiSehat'	Prof. A.H.Mughal Dr.Iffat Ghani Dr.Zubair	20

(C) Details of Electronic Media Produced:-

S. No.	Type of media (CD / Software)	Title of the programme	Number
1	DVD	KVK Farm uplifting	01

(D) Mobile App developed by KVK:-Nil

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):-Nil

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

The expertise of progressive farmers and experienced rural women from the ex-trainees of this Kendra is being utilized and they are involved in imparting training on various aspects of farming and also demonstrate various technologies adopted by them in their own fields to the participating farmers in various programmes of this Kendra in which thrust is laid on a particular technology in which the experts are trained. These programmes include Bee keeping, poultry production, earthen wear painting, cutting & tailoring and Package of practices for various crops.

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
1	Apple /Almond	Farmers burlap the tree trunks of almond and apple with HDPE and gunny bags and also hang colored water in bottles on trees.	They use it to prevent the damage due to porcupine which scrap the bark of the trees under conditions of food shortage.
2	Maize / Rajmash	Mixed cropping of Rajmash and Maize is being practiced by the farming community of the area	Since the Rajmash variety Canadian Red is pole type as such it is grown in maize fields in order to save staking of Rajmash plants.
3	Use of wood ash as insecticide	It is believed wood ash produced in the kitchen is spread on the seed beds and vegetable beds for controlling the insects because wood ash has been seen to have insecticidal property.	This technology can be used for development of an organic insecticide for controlling insects in kitchen gardens.
4	Saffron as intercrop in almond orchards	Observing that 02 crops almond and saffron require different periods of cultivation for the year, and can be inter cropped with minimum effect on each other	Cultural operations for almond start in Feberuary.The crop is harvested in the month of August. and the saffron cultivation starts in Aug and harvesting done in October-November. So there is a better utilization of the land with 200% cropping intensity. Also the soil fertility and water requirements being same for both. Moreover the saffron is surface crop (roots upto 10cm deep) where as the almond feeds below 10cms.

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

- **Identification of courses for farmers/farm women-** Survey, Group discussions, PRA in villages
- **Rural Youth-** Survey, Group discussions, PRA in villages
- **In-service personnel- Meeting with officers of Line departments**

9.E. Field activities

i. Number of villages adopted - 01
ii. No. of farm families selected - 180
iii. No. of survey/PRA conducted - 01

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

Status of establishment of Lab :

1. Year of establishment : Feb 2005 started Oct-2009
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	Flame photometer	1	34725.00
2	Ph meter	1	10430.00
3	Hot air oven	1	19800.00
4	Shaker	2	27360.00
5	Balance single cap 5 K.g	1	9778.00
6	Chemical balance cap 300gm	1	100880.00
7	Refrigerator 300 ltr with stabilizer	1	18125.00
8	Spectophotometer	1	41500.00

9	Altimeter	1	3035.00
10	Jindal Kjeldal distillation and combined unit	2	28206.00
11	Distillation unit cap 5 lit	1	10116.00
12	Grinder	1	24897.00
13	Soilaugur	2	2384.00
14	Water distillation apparatus 2.5 cap	1	98469.00
15	Hot plate rectangular	1	3480.00
16	Glass ware	--	6280.00
	Total		439465.00

3. **Details of samples analyzed / Soil Health Cards issued during 2020 :**

Details	No.	No. of Farmers	No. of Villages	Amount realized
Soil Samples+ FLD samples	90 325	89 325	76	9475
Water Samples	-	-	-	-
Plant Samples	-	-	-	-
Soil Health Cards Issued	415	415	76	9475

4. Status of mini soil testing labs/kit : 01 Functional 01 Not in good condition
5. Year of procurement of lab/kit :
6. No. of mini labs with the KVK : 02
7. Type of mini labs (Name of lab/Kkt) : STFR Meter

Details of samples analyzed through mini soil kit / Soil Health Cards issued during 2018-19 :NIL

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

10. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Training and pruning on scientific lines	75	42%	Rs 500/day	Rs. 800/day
Budding and grafting	30	28%	Rs 500/day	Rs.750/day
Vermi compost-(6'x2'x1.5')	100	90%	Nil	Rs.30000-50000/year
Early season vegetable (production under polyhouses	30	55%	Nil	1,23,000/acre
Poultry Farming	28	10.7	Nil	48000/year
Dairy Farming	15	2	Nil	70000/year
Mushroom	28	14.2%	Nil	7000/10 trays
Beekeeping	68	-	-	-

10.2. Cases of large scale adoption

Cases of large scale adoption

Paddy:-

Earlier Pulwama District was cultivating only local varieties of paddy which are low yielding as well as disease prone. But with the introduction of SKUAST-K released varieties of paddy like SR-2, SR-3,large scale adoption has been observed while SR-4 being newly released its popularization is under process. These varieties are fit for both low &medium altitude areas. In lower belts more than 70 villages are cultivating SR-2 with an average production of 75q/ha and in medium belts about 50 villages are cultivating SR-3 with an average production of 75q/ha against the local varieties with the production of 55q/ha so adoption in both the varieties is increasing year by year.

Brown Sarsoon:-

In oil seed production there is also large scale adoption after this KVK laid FLDs on oilseeds with the introduction of variety KS-101.The farmers who were given KS-101 for cultivation observed an average yield of 12.0q/ha against their local variety with yield of 8q/ha. Because of this increase in yield of KS-101 almost in 210villages this variety is being adopted by the farmers for cultivation on large scale.

Pollination management:-

Pollination being an important factor for increasing the production in apple. In this regard KVK organized mass level awareness camps/training programmes to make the orchardists aware of the benefits .Orchardists are using pollinizers bouquets , planting their own pollinizers varieties and also taking care of insect pollinators in their orchards , which indicates the adoption of technology on a good scale. 45per cent of the orchardists were being found planting pollinizers trees and side by side using pollinizer bouquets till the pollinizer's get ready for flowering and also many orchardists grafted pollinizer varieties on the established main tree cultivar for getting early benefits.

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

- The impact analysis was carried out on the adoption of different crop varieties issued under Front Line demonstrations to the farmers in some villages of the district.
- Impact analysis was also ascertained on the adoption of no. of technologies demonstrated under different OFTs to the farmers in several villages of the district
- Impact of various training programmes on production technology as per the package of practices in the KVK operational area was conducted.

-

10.3 Details of impact analysis of KVK activities.

i) Popularisation of SKUAST-Kreleased varieties and their impact on farmers' income.

ii)

SNo	Technology Interven-tion*		Yield (q/ha)			Economic Returns (Net) Rs/ha			%Adoption
			Local	Impr-oved	% Inc.	Local	Impr-oved	% Inc.	
	Paddy	SR-4	58	78	34.48	50000	94000	88	Near about 16.65 ha is brought under cultivation of SR-4
2	Maize	SMC-4	30	55	83.33	40000	85000	112.5	The maize growing areas of the district Pulwama especially lower belts of Tral & around 10,000ha is brought under cultivation of SMC-7 & SMC-4
3	Rajmash	Shalimar Rajmash	8	10	25	61000	100000	63.93	Near about 05ha is brought under cultivation of Shalimar Rajmash-1.
4	Moong	KM-2291	7.2	9.01	25.41	24000	57340	138.91	In adopted villages around 1500 hectares is under this Varieties.
5	Lentil	Shalimar Lentil-1	Crop under progress						
3	Brown Sarson	Shalimar Sarsoon-2	Crop under progress						
3	Pea	Shalimar Pea-1	Crop under progress						

NB: - (Improved SKUAST-K varieties under FLDs along with production technologies as per POP)

ii) Extent of adoption of apple production technologies by KVK adopted farmers in district Pulwama.

S. No.	Production Technology	Extent of Adoption (%)			Mean Score	Rank
		Fully adopted	Partially adopted	Not adopted		
1.	Scientific training & pruning	42.0	25.5	32.5	0.84	X
2.	Orchard Sanitation	93.25	5.5	1.25	2.86	I
3.	Pollination management	85.5	12.25	2.25	2.70	II
4.	Adoption of spray schedule for management of insect pests and diseases	80.50	19.0	0.5	2.26	IV
5.	Scheduled fertilization as per POP	86.0	9.5	4.5	2.57	III
6.	Use of vermicompost in addition to FYM	88.0	4.0	8.0	2.64	III
7.	Soil test based fertilizer application	40.50	35.40	24.10	1.21	VII
8.	Budding & Grafting	28.0	39.6	32.4	0.64	X
9.	Application of Boron for increasing fruit set	29.5	48.5	22.0	1.03	VIII

S.NO	Particulars	Beneficiary	Non-beneficiary	Difference
1.	Mean Index of Knowledge	88.07	19.00	69.07
2.	Mean Index of Adoption	62.12	15.4	46.7
	Total	154.71	26.43	115.8
3.	Impact (%) = Sum of difference of Index/2 = 115.8/2 = 57.9%			

IMPACT OF DIFFERENT INTEGRATED FARMING SYSTEM (IFS) MODELS OF THREE PROGRESSIVE FARMERS

Models	**Name of Progressive Farmer**	**Availab -le land**	**Farming System**	**Cost of Prod. (Rs.)**	**Gross Return (Rs.)**	**Net Return (Rs.)**	**Emp.(Man day year @Rs 400/day**
Without IFS	Mudasir Ahmad MirDadsara, Tral	One Hectare	Agri-Hort crops	106000/	3,36,300	2,30,300	575
IFS Model-I	-Do-	One Hectare	Agri- Hort. crops + Polyhouse (vegetable seedling) + Vermi-compost unit + Mushroom unit + Diary unit + Mini soil testing Lab.	3,18,900	7,99,500	4,80,650	1201
Without IFS	Self Help Group (Muneer A Sheikh, Bilal Ahmad KumarBilal Ahmad Sheikh	2.5 Hectares	Agri-Hort crops	2,60,000	8,00,000	5,40,000	1350
IFS Model-II	-Do-	2.5 Hectares	Agri-Hort crops + Polyhouse + Diary unit + Vermi-compost unit + Soil Testing Laboratory	3,60,500	14,64,500	11,04,000	2760
Without IFS	Suhail Manzoor Ganai S/o Manzoor A Ganai R/o Koil	2.16 Hectares	Agri-Hort crops	5, 20,000	15,00,000	9,80,000	2450
IFS Model-II	-Do-	-Do-	Agri-Hort crops + Vermi-compost unit + Sheep husbandry unit + Diary unit	5,81,000/	26,30,000	20,49,000	5122

11.0 LINKAGES

11.1 Functional linkage with different organizations

Name of organization	Nature of linkage
State Agriculture Department	Need based Joint Farm Advisory Visits In-Service Trainings for field functionaries
State Horticulture Department	
Animal Husbandry Department	
Sheep Husbandry Department	
Sericulture Department	
ICDS,	Organize training program for Anganwari worker
Govt. Poultry Hatchery, Srinagar	Provides facility of Hatchery for Vanraja unit.
District Youth Co-ordinator, Nehru Yuva Kendra, Pulwama	KVK provides resource persons for delivering lectures on different aspects of farming
Khatoon welfare society Kaka Pora (NGO)	Imparting training on value addition
Shirkat (an NGO)	Framing of SHG's & imparting training to the self-help groups.

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

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/No

S. No.	Programme	Nature of linkage	Remarks
1	Framing of SREP and conduct of trainings for farmers and extension functionaries	As resource person for implementation SREP, organizing training programmes for farmers self-help groups and officers of line departments	This KVK will continue to assist the Line Departments for implementation of ATMA project

Coordination activities between KVK and ATMA during 2020

S. No.	*Programme*	*Particulars*	*No. of programmes attended by KVK staff*	*No. of programmes Organized by KVK*	*Other remarks (if any)*
01	**Meetings**		01		-
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	-	-	-	-

S. No.	*Programme*	*Particulars*	*No. of programmes attended by KVK staff*	*No. of programmes Organized by KVK*	*Other remarks (if any)*
	Pamphlets	-	-	-	-
	Others News coverage	-	-	-	-
07	**Other Activities**	-	-	-	-

11.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	Integrated disease & pest management	Facilitating of resource person for delivering lectures on different aspects	-
2	Precise fertilizer management	-do	-

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 (Benef. No.)
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Mushroom	2002		Button,	-	95 Kg	6300/-	19000/-	78

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(q)	Cost of inputs	Gross income	
Paddy	17-06-2020	25-09-2020	0.15	SR-4		4.0			
Wheat	20-10-2019	27-06-2020	0.2	SW-1, SW-2, SKAUWW-101	Seed	2.6	-	-	KVK store
Oats	20-10-2019	24-05-2020	0.7	Shalimar Fodder Oats-2	seed	2.4	-	-	KVK store
Maize	10-5-2020	20-10-2020	0.2	SMC-4	Seed	1.10	-		KVK store
Pulse Pea	28-10-2019	10-06-2020	0.1	Shalimar pea-1	Seed	1.18			
Moong	15-6-2020	20-10-2020	0.1	Shalimar Moong-1	Seed	0.19			
Oilseed	25-10-2019	10-05-2020	0.15	KOS-101	Seed	0.80			
Apple Orchard	Old plants	2020	-	Shireen, Akber, Firdous, Kolu delicious	Fruit				Auction
Walnut	Old plants	2020	10(big Old Plants)	Seedling origin	Fruit (Nuts)	-	-	53000.00	

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

Sl. No.	Name of the Product	Qty(q)	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	
1	Poultry	Vanraja	Vanraja	300	-	36000/-	
2.	Fisheries	Commoncarp	-	30 Kg	-	6000/-	

12.5 Utilization of hostel facilities: NIL

Accommodation available (No. of beds) =

Months	*No. of trainees stayed*	*Trainee days (days stayed)*	*Reason for short fall (if any)*
-	-	-	-

12.6. Database management:- Nil

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

12.7 Rainwater Harvesting:NIL

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

Seed produced using Rainwater Harvesting Demonstration Unit:NIL

Name of the crop	Quantity of seed produced (q)

Plant materials produced using Rainwater Harvesting Demonstration Unit:_NIL

Name of the crop	Number of plant materials produced

Other activities organized using Rainwater Harvesting Demonstration Unit:_NIL

Activity	No. of visitors
Visit of farmers	
Visit of officials	

FINANCIAL PERFORMANCE

13.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	-	-	-
With KVK	J&K Bank	Awantipora	0334010200000004

13.2 Utilization of KVK funds during the year 2020(April-March)

Name of KVK: Pulwama

(Amount in Rupees)

S. No.	Budget Head	Revised Estimate				Expenditure			
		other than TSP, SCSP, NEH	TSP	SC SP	Total	other than TSP, SCSP, NEH	TS P	SC SP	Total
	Grants for creation of Capital Assets (CAPITAL)	-	-	-	-	-	-	-	-
1	Works	-	-	-	-	-	-	-	-
	(i) Office Building	-	-	-	-	-	-	-	-
	(ii) Residential Building	-	-	-	-	-	-	-	-
	(iii) Minor Works	-	-	-	-	-	-	-	-
2	Equipment	-	-	-	-	-	-	-	-
3	Information Technology	-	-	-	-	-	-	-	-
4	Library Books and Journals	-	-	-	-	-	-	-	-
5	Vehicle & Vessels	-	-	-	-	-	-	-	-
6	Livestock	-	-	-	-	-	-	-	-
7	Furniture & fixtures	-	-	-	-	-	-	-	-
8	Others	-	-	-	-	-	-	-	-
	Total - CAPITAL	-	-	-	-	-	-	-	-
9	**Pay & Allowances**	17654086 + 79000	-	-	17885000	17885000	-	-	17885000
	Total	**17733086**			**17885000**	**17885000**			**17885000**
	Grants in Aid – General								
10	Travelling Allowance (Domestic)	114000	-	-	114000	114000	-	-	114000
11	A. Research Expenses	280000	-	-	280000	280000	-	-	280000
12	B. Operational Expenses	490000			490000	490000			490000
13	C. Infrastructure (Rent, Electricity, Water charges, Veh running exp, insurance)	100000	-	-	100000	100000			100000
14	D. Communication (Postage and telephone)	40000	-	-	40000	40000	-	-	40000
15	E. Others (excluding TA)(Printing and stationery consumable, Advertising, Legal Professional charges)	100000	-	-	100000	100000	-	-	100000
16	F. Publicity & Exhibitions	-	-	-	-	-	-	-	-
17	G. Guest House-Maintenance (recurring only)	-	-	-	-	-	-	-	-
18	H Other Miscellaneous	70000			70000	70000			70000
19	I**. Repair & Maintenance**	-	-	-	-	-	-	-	-
	(i) Equipment, Vehicle & Others	50000	-	-	50000	50000	-	-	50000
	(ii) Office building	270000	-	-	270000	270000	-	-	270000
	(iii) Residential building	-	-	-	-	-	-	-	-
	Total Recurring Contingency	1400000			1400000	1400000			1400000
	Grants in Aid- General (RC+TA)	**1514000**			**1514000**	**1514000**			**1514000**
	Grand Total (Capital + Salary +General)	**19247086**			**19399000**	**19399000**			**19399000**

1 3.3 Status of revolving fund (Rs. in lakhs) during 2018-2021

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2018 to March 2019	7,22,297.21	21,95,874.0	7,05,050.25	22,13,120.98
April 2019 to March 2020	22,13,120.96	6,74,018.50	23,61,430	5,25,709.46
April 2020 to March 2021	5,25,709.46	4,40,185	4,24,980	5,40,914.46

14. Details of HRD activities attended by KVK staff during 2020: NIL

Name of the staff	*Designation*	*Title of the training programme*	*Institute where attended*	*Date*

15. Details of Important Programs/Events conducted in KVKs during 2020

1. **Event name:-** World Earth Day (7th April 2020 through virtual mode)
2. **Event name:-** World Veterinary Day (25th April 2020 through virtual mode)
3. **Event Name**:- World Rabies Day (26th Sept. 2020)

Krishi Vigyan Kendra, Pulwama and Directorate of Extension, SKUAST-Kashmir organised one day Virtual Awareness Program on "Educate, Collaborate and Vaccinate" to celebrate World Rabies Day on 26th Sep. 2020. The program was attended by scientists from veterinary and medical professions besides research scholars, para veterinary staff and officers of Animal/ Sheep Husbandry departments. Dr. Musarat, Head of the Kendra and Dr. M A Paul, Dean Veterinary Faculty highlighted the importance of public education and multi-sectorial invelovement in fighting this menace.

Dr. M R Fazili, Head veterinary Clinical Compex, Shuhama and Dr. Ruquaya Qounser, Lecturer Community Medicine, GMC Srinagar threw light on stray dog population control measures and Kashmir scenario of dog mediated rabies. Dr Malik Raies, Dr Aijaz Dar and Nazir Ahmed conducted the technical sessions.

4. **Event Name:- Rashtriya Poshan Maah (1-30th Sep. 2020)**

Krishi Vigyan Kendra, Pulwama Organised Rashtriya Poshan Maah in which different on-camps and off-camps programmes were conducted. Dr. Masurat Shafi presented the well come address in which she briefed the participants about the significance of Rashtriya Poshan Maah and deceminated the awareness about the importance of balanced diet and advised participants to focus on malnutrition and anemia among the women and children for healthy society. Various technical sessions on balanced nutrition, nutrition garden, nutria thali, value addition of fruilts and vegetables and backyard poultry were conducted by the scientists of this Kendra at different places of the Dictrict.

5. Event Name:- Tribal farmers Day (9th Nov. 2020)

Tribal Farmers Day under tribal sub-plan of ICAR on "Prpmoting cultivation of Soyabean in Tribal Area of District pulwama" was celebrated at KVK campus in collaboration with DARS Budgam under TSP Project. Tribal farmers of village Wangud tral and Renzipora were given awareness about the importance of soyabean as protein supplement in human diet. Soyabean (SS-1) seed was also distributed among the beneficeries.

6. Event Name:- World Soil Health Day (5th Dec. 2020)

World Soil Health day was celebrated at KVK Campus on 5th Dec. 2020 under the theme save the soil and protect the soil biodiversity. Farmers were given awareness about the importance of soil health and its role in good crop stand. The emphasis was given on use of organic manures instead of increased use of chemical fertilizers. Further awareness was also given to farmers on New Farm Law Act.

7. Event Name:- Medical Camp (9th Dec. 2020)

Free medical camp was organized at KVK campus in collaboration with Border Security Force in which 200 beneficiaries were treated by the doctors and free medication was given to all.

8. Event Name:- Kissan Divas (23rd Dec. 2020)

On Kissan divas scientists of KVK Pulwama with farmers at campus and provided them awareness about the New Farm Law Act 2020, also extension literature was distributed among the farmers.

9. Event Name:- PM interaction with farmers in PM Kissan Samman Nidhi on 25th Dec 2020

On 25th of Dec 2020 Hon'ble PM of India addressed the farming community in which 85 progressive farmers participated from all over the district. During the programme Hon'ble PM of India apprised the farmers about the importance of New Farm bills and releasing of PM Kissan money. PM also ensured the farmers that MSP mechanism for crops will continue in future as well. Extension literature was also distributed among the beneficiaries.

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

Annexures

District Profile - I

1. General census of district Pulwama

a)	Geographical area	:	1090 sq. kms.
b)	Altitude	:	2000masl
c)	Total No. of Tehsils	:	8
d)	Total No. of blocks	:	11
e)	Total No. of villages	:	336
f)	No. of delimited panchayats	:	186
g)	Hoseholds	:	0.86 lakh No.
h)	Male population	:	293064
i)	Female population	:	267376
j)	Total population(2011 census)	:	5.60 lac

2. Agriculture and allied census

a)	Reporting Area	:	60772 ha.
b)	Under forests	:	320 ha.
c)	Non agricultural use	:	8387 ha.
d)	Un cultivated land	:	2542 ha.
e)	Permanent pasture & other grazing land	:	5953 ha.
f)	Cultivated wasted land	:	3617 ha.
g)	Area under miscellaneous Tree crops	:	1102 ha.
h)	Fallow land other than Current fallow	:	158 ha.
i)	Current fallows	:	6033 ha.
j)	Net area sown	:	32660 ha.
k)	Total cropped Area	:	55870 ha
l)	Area sown more than once	:	23210 ha
m)	Average holding size	:	0.48 ha.
n)	Agricultural laborers	:	18197 Nos
o)	Cultivators	:	50000 Nos
p)	Major crop grown		
	i) Fruit crops	:	Apple, Almond, Cherry, Walnut.
	ii) Cereals	:	Paddy, Wheat, Maize
	iii) Pulses	:	Rajmash, Moong, Pea
	iv) Oilseeds	:	Mustard
	v) Fodder	:	Oats, Maize, Barseem
	vi) Vegetables	:	Tomato, Chillies, Capsicum etc.
	vii) Other crops	:	Saffron

3.	Agro-climatic zones	:	Sub-Humid Temperate
		:	High altitude

4. Agro-eco systems	:	AES-I Temperate low land zone
	:	AES-II Temperate mid land zone
	:	AES-III Temperate high altitude zone
	:	AES-IV Temperate upland zones
5. Major and micro farming systems	:	EFS-I Hort.-Agri-Dairy
	:	EFS-II Agri-Hort-Poultry-Dairy
	:	EFS-III Agri-Hort-Beekeeping
	:	EFS-IV Saffron-Hort.-Agri.
		,
6. Major Production systems	:	Rice-Mustard
	:	Rice-Wheat
	:	Maize-Field Pea
	:	Pulses-Oats (Fodder)
	:	Oats-Moong/Rajmash
7. Major agriculture and allied enterprises:		Poultry
	:	Dairy
	:	Beekeeping
	:	Veneer units
	:	Cricket bats
	:	Flour Mills

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

a) Agro-ecosystem analysis of the focus/target area

Name of the village	Focus area	Target area
Rajpora, Drubgam, Murrun,Tumbla ,Tenghar,kaganhall,Lassipora,Saidpor ashiekhar etc.	Orchard Management	Integrated Disease Management Scientific training Pruning Use of pollinizers and pollinating insects Integrated nutrients managements
Puchhal, Ratnipora, Parigam, Lajura, Koil ,sambora,malngpora,renziporawakerw an,chokraetc.	Poultry , dairyingand sheep farming	Profitable poultry/sheep farming Dairy farming on scientific lines Disease management in poultry ,sheep and dairy. Feed and fodder for poultry,sheep and dairy
Tral, Koil, Medora, Gulshanpora, Lrawjagir, MachhamaNagbal,etc.	Bee keeping for pollination and honey production	Use of pollinating insects (Bees) in orchards for effective pollination Beekeeping as income generating venture
Tral, Charsu, Padgampora, Malangpora, Sunrigund, Awantipora etc.	Seed treatment campaign	Seed treatment for management of paddy blast disease Seed treatment for management of Chilli wilt disease
Pampore, Khrew, Ladoo, Lethpora, Bharsoo etc.	Saffron cultivation on scientific lines	Management of corm rot disease Conservation of water for need based irrigation
Murran, Pinlana, Sunrigund, Begpora, Banagundboogam,patlbaghetc.	Vegetable cultivation	Popularization of SKUAST-K released varieties and hybrid varieties, Seed production in vegetables and Nutrient management
Murrun ,WakerwanRanzipora,Dadsara	Vermicomposting	Preparation of vermicompost on scientific guidelines Proper use of waste materials of kitchen as well as dairy sheds
NaristanSaturaKhangundDevarAripal, Panier,Tral, Padgamporaetc	Cereal crop Paddy,Maize&oilseed	Popularizationof SKUAST –K released varieties Integrated disease and pest management INM Management and SRI as well as intercropping Seed production/seed bank
Rajpora ,kakpora,quil,wakerwan,malangpora	Value addition	Value addition in fruits and vegetables Pickle and tomato puree,Jam juice and jelly making

b) Survey method used
Survey was carried out by Questionnaire during conduct of Off campus training programmes, field days, awareness camps and other activities of the KVK.

c) Various techniques used :Transect walk around the villages

d) Analysis and conclusions:-

e) List of location specific problems and brief description of frequency and severity of problem

5		6	7
Location specific problem	Intensity/severity	Matrix ranking	Specific thrust area
Fruit drop Poor fruit set Disease problem Less use of pollinizers Improper training and pruning Improper nutrient management	Severe Mild Mild Severe Mild Mild	I II III I III III	Orchard management
Poor yield in saffron Crom rot problem Irrigation problem	Severe Mild Sever	I III I	Saffron cultivation on scientific guidelines,
Paddy blast disease Chilli wilt disease	Mild Mild	III III	Seed treatment campaign
Disease management in poultry disease , sheep and dairy Imbalanced feed	Mild Mild	III III	Management of disease
Least knowledge of proper waste management of kitchen and from other sources waste	Sever	I	Waste management on scientific lines
Fruits and vegetables spoilage Lack of knowledge about health, hygiene &nutritios diet	Sever Sever	I I	Value addition in fruits and vegetables

f) Matrix ranking of problems

g) List of location specific thrust areas

h) List of location specific technology need for OFT and FLD

i) For OFT's

8	9	10
Trainings for rural women in rural crafts	II	Trainings on crewel embroidery, stitching and tailoring
Pickle/Jam making /puree making	III	Value addition in fruits and vegetables
Pest management in apple & saffron	II	INP management
Waste management	II	Training on waste management

i) Matrix ranking of technologies

j)List of location specific training needs

Technology Inventory and Activity Chart - III

i.Names of research institutes, research stations etc.

a. Mountain ResearchCenter for Field Crops Station Khudwani, SKUAST-K
b. Ambri Apple Research Center, Balpora, SKUAST-K
c. Central Institute of Temperate Horticulture, Srinagar, ICAR
d. Nehru Yuva Kendra, Pulwama
e. Institute for medicinal Plants, Banura Pulwama
f. Sirket NGO pulwama

II. Inventory of Latest technology available:

S.No	Technology	Crop/nterprise	Year of Release	Source of Technology	Reference / citation
1.	Shalimar Rice-1 Shalimar Rice-2] Shalimar Rice-3]>lower belt Shalimar Rice-4] Kosher----------> Higher belt K332 Shalimar Rice-5	Paddy ---------->	2005 2012 2017	SKUAST-K ---------->	
2	KS 101,Shalimar,Gulchin sarsoon-1,Shalimar sarsoon-2 and Shalimar sarsoon -3	Brown sarson	2016	-do-	
3	,C7,C4 C15,KG1 ,KG2	Maize	2016	-do-	
4	Shalimar Wheat-1	Wheat	2005	-do-	
5	Shalimar Fodder oats-1	Sabzar	-	-do-	
	VEGETABLES				
6.	Shalimar Carrot-1	Carrot	2006	-do-	
7	Tomato Hybrid 1 &3	Tomato	2009	-do-	
8	Shalimar capcicum Hybrid 1 & 5	Capcicum	2009	-do-	
9	Sunheri, Firdous, Shireen, Akbar, Lal ambri	Apple	-	-do-	
10	Almond varieties Makhdoom&Waris	Almond	1999	-do-	
11	Disease management in chillies	Chilli	2002	-do-	
12	Protected nursery for seedling raising	Paddy	2002	-do-	
13	Management of corm rot disease in saffron	Saffron	2002	-do-	
14	Vermicomposting	Waste management	2018	Do	

III. Activity Chart

Crop/ Animal/ Enterprise	Problem	Cause	Solution	Activity	Reference of technology
Paddy	i. Low productivity ii. Blast Disease iii. Early season cold damage to nursery beds	Old varieties and imbalanced fertilizer management Seedling mortality in unweather condition during nursery raising	Introduction of Shalimar Rice-1, Shalimar Rice-2 Shalimar Rice-3 Shalimar Rice-4 and recommended dose of fertilizer along with protected nursery	FLD's on Shalimar Rice -1, Shalimar Rice-2 Shalimar Rice-3 Shalimar	1 12

		period		Rice-4 OFT	
Brown sarson	Low production and productivity	Old varieties, Sulphur deficiency	Popularization of Shalimar sarson 1 Shalimar sarson -2 Shalimar sarson -3 and use of Zinc Sulphate	FLD's and OFT's	2
Chillies	Chilli wilt	Disease prevalence	Seed treatment and seedling dip along with transplanting on raised beds	OFT	11
Saffron	Corm rot disease	Disease incidence	Disease management through corm treatment	OFT	13
Almond	Early spring cold damage to flowers	Early spring cold	Use of late bloomer like Makhdoom&Waris Insect management	OFT and FLD	10
Apple	Poor colour, low fruit set Canker disease	Imbalance use of INM Pollination problem ,improper training & pruning and disease management	Proper use of INM, Accurate ratio of pollinizers pruning & training on scientific lines	OFT	10
Vegetables	Low production with poor quality	Old varieties	Introduction and popularization of SKUAST released vegetable varieties	FLD	6,7,8
Vermi-composting	Least knowledge of waste management	Old traditional method	By introducing decomposing agent	FLD	3
Livestock	Foot rot, low milk yield	mismanagement& lack of nutritious feed		OFT	1,2

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

Include

A. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD

Crop	**variety**	**Characters**
Paddy	SR-2,SR-3,SR-4	Fit for low altitude areas Yield 7-8t/ha. Blast resistant and Days to maturity135-140
-do-	K-333,SR-5	Fit for high altitude areas Yield 4.6-5.5 t/ha. Blast resistant Days to maturity135-140
Maize	C7	for high altitude areas Yield 55-65 q/ha. Flint shaped Days to maturity105-110
Oil seed	Shalimar sarson-1	Low altitude/high altitude High oil content

	Shalimar sarson-2	Yield 16-17q/ha. Days to maturity 215-140
Oats	Shalimar oat-1	For irrigated & rainfed areas High/low altitude areas Yield 500 q/ha.
Peas	Shalimar Pea-1 PB-89	Field pea Low high altitude area 13-15.31 q/ha. and mature 210-215 days
-do-	Arkel	Vegetable pea Low high altitude area 110q/ha

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

i) Nutrient application:- Soil application through band placement & broad casting
ii) Pesticides & fungicide application:-Soil application as well as foliar sprays

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

Paddy

SR- 2,SR-3 SR-4 for low altitude area
SR-5 K333 for high altitude area

Maize

C7 for high altitude area
C4 for low altitude area

Oil seed & Pulses

Shalimar sarson-1 &Shalimar sarson-2 for low/high altitude area
Rajmash& Pea for both low & high altitude areas

a) Detailed account on varietal/breed characters for each of the variety/breed selected for OFT
b) Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc., for technologies selected under OFTs
c) Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for OFT.

Annexure-I

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Subject: Proceedings/Minutes of Scientific Advisory Committee Meeting (2020) of KVK, Pulwama

The 23rd Scientific Advisory Committee meeting of the KVK, Pulwama was held on 13th of August 2020 through Google meet virtual platform, under the chairmanship of Prof. Nazeer Ahmad, Hon'ble Vice Chancellor SKUAST-Kashmir. The meeting was attended by Prof. Mushtaq Ahmad, Director Extension, Associate Director Extension Prof. Sheikh Muzzafer and Prof. Amal Saxena, Officers from line departments, Scientists of KVK and few progressive farmers. After welcome address by Dr Iffat Ghani, Prof. Musarat Shafi, Head KVK Pulwama presented action taken report on agenda items of 2018-19, followed by presentation of annual progress report for the year 2019-20. Annual progress report highlighted the achievements made with regard to FLDs, OFTs and training programmes carried out during the year. List of activities carried out during the year is reproduced as:

S. NO.	Activity	Nos.	Beneficiaries
1.	Trainings	82	1820
2	FLDs	172.5	175
3	OFTs	14	42

The house was informed that out of 14 OFT's conducted during the year 07 have been concluded and rest are ongoing. After presenting the action plan 2020 feedback was sought from the line department officials. Chief Horticulture Officer Pulwama highlighted the need for arranging training and pruning training programmes on high density apple orchards.

Hon'ble Vice Chancellor directed the KVK, that varieties identified and recommended by concerned Division of SKUAST-K should be distributed among farmers as per the area suitability. The Line Departments should always be taken into confidence while arranging such programmes so that farmers can harness maximum benefits from the collaborative efforts of KVK and line departments. Further demonstration of ICAR recommended hybrids including sugar 75 variety of sweet corn should be promoted and old varieties like golden acre should not be demonstrated to

the farming community. Hon'ble Vice Chancellor stressed on the need for framing of action plan in consultation with the line departments, so that problems faced by the farmers can be addressed effectively in a coordinated fashion. For the benefits of the schemes to percolate to grass roots level, a collaborative approach of KVK with Development departments is needed so that impact of these schemes is accentuated and is easy to assess.

Worthy Director Extension laid stress on the integrated approach of line Departments and KVK scientists to target farmers. He also emphasized that the OFTs, FLDs and training programmes should be carried out in a cluster approach, so that impact of the technique demonstrated can be easily assessed and area should be selected based upon its suitability for a crop. To meet the demand for scientific canopy management of high-density apple orchards, Worthy Director Extension suggested that training/prunning programmes should be conducted so that a group of master trainers can be developed to perpetuate this skill throughout the district.

Irshad Ahmad, a progressive farmer from Patal Bagh appreciated the efforts of KVK for guiding the farmers of his locality in harnessing the benefits of streamlining farming on scientific lines. He requested for guiding the farmers of his locality for intercropping of saffron in almond orchards so that it will help in boosting farmer's income and revival of both the crops.

Following are the action points set for the station for the year 2020: -

1. Awareness cum training programmes on repeat breeding, management of heat and cold stress of dairy animals, conservation of fodder, preparation of balanced ration for livestock and promotion of backyard poultry rearing should be conducted and issues undermining the profitability of commercial poultry farmers should be documented to enhance animal productivity and farmer's income.
2. In order to achieve the goal of doubling farmer's income animal health camps should be conducted to address problems undermining the production and productivity of livestock and poultry.
3. For safe and effective disposal of farm animal waste, training programme on vermi-composting should be conducted and efforts should be made for promotion of low cost vermi-composting and composting house hold waste.
4. Vocational/ skill-oriented training programme should be framed in such a way so that youth are motivate to set up their own income generating units. Efforts should be made to link trained youth with different credit lending agencies. Mass scale awareness among the farmers should be conducted regarding the negative impact of conversion of paddy land to apple orchards, so that the farmers may desist from changing the land use pattern.

5. Regarding saffron cultivation and its decreasing area and productivity due to many constraints Hon'ble Vice Chancellor insisted on the technology of high-density concept in saffron and intercropping of Almond with saffron and Kala-zeera which has been found very remunerative. In this respect KVK should arrange an exposure visit of farmers to Saffron Research Station Konibal.
6. Awareness and training programmes for promotion of high value vegetables, minimising crop losses and developing suitable market channels for better returns of produce should be conducted so that farmers can reap maximum benefits. Hon'ble Vice-Chancellor even suggested for developing links with KVK Budgam in this regard.
7. For mitigating the shortage of nutritious fodder during winters, which causes heavy production losses in dairy animals, Hon'ble Vice Chancellor directed KVK to initiate FLD's on fodder maize variety in consultation with KD farm and demonstrate to farmers, the technology of silage making.
8. For doubling the farmer's income Hon'ble Vice Chancellor highlighted the concept of IFS, introduction of elite varities of apple and emphasized the need to adopt it on proven scientific guidelines in order to achieve this goal.
9. For redressal of problems, faced by farmers available virtual platforms should be utilized to reach out to farmers in real time. In order to achieve this social media groups containing farmers at least from each block should be formed for easy dissemination of information on large scale.
10. Worthy Director Extension stressed that no land should be kept fallow during winter, problem of drainage if any should be addressed, so that double cropping is ensured.
11. Worthy Director Extension highlighted the need for strengthening of efforts for promotion of apiculture and mushroom farming on large scale and devising effective skill development programmes to cater to the needs of the unemployed rural youth for setting up of income generating units viz a viz commercial mushroom farming and apiculture. Further Kendra should come up as a centre of excellence in this regard, to attract youth to venture into commercial mushroom farming and apiculture.
12. All demonstration units of KVK should serve as a source of persuasion for visiting farmers, so that adoption of scientific methods of farming is ensured, which will facilitate in enhancing the returns and help in achieving the goal of doubling farmers income.

Head
KVK/ETC, Pulwama