# **ANNUAL PROGRESS REPORT**

### FOR THE PERIOD FROM APRIL 2020 TO MARCH, 2021



## OF KRISHI VIGYAN KENDRA, ANANTNAG



# SHER-E-KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES AND TECHNOLOGY OF KASHMIR

# **ANNUAL PROGRESS REPORT**

### FOR THE PERIOD FROM APRIL 2020 TO March, 2021



# of Krishi Vigyan Kendra, Anantnag

Compiled by: Dr Ishtiyak A Mir and Dr Manzoor A Ganai

> Edited by: Dr Manzoor A Ganai



## SHER-E-KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES AND TECHNOLOGY OF KASHMIR

### ANNUAL PROGRESS REPORT 2020-21 (April 2020-March-2021)

### 1. GENERAL INFORMATION ABOUT THE KVK

#### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
Krishi Vigyan Kendra Anantnag, P/O &	Office	FAX	anantnagkvk@gmail.com
Tehsil Dooru, District Anantnag 192211	7006853560		
Jammu and Kashmir.	9419040596		
	9906530596		

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

Address	Telephone		E mail
	Office	FAX	
SKUAST-Kashmir, Shalimar campus,	0194-2462159	01942-461271	vc@skuastkashmir.ac.in
Srinagar 19121 (J&K)			secretary@skuastkashmir.ac.in

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

Name	Telephone / Contact			
	Residence	Mobile	Email	
Dr. Manzoor A Ganai	Wanpoh Anantnag	7006853560,	ganai95@gmail.com	
		9419040596		
		9906530596		

1.4. Year of sanction: F.No.6-6/2012-AEII; Dated 31-03-2012

### 1.5. Staff Position (as on 31<sup>st</sup> March, 2021)

S.	Sanctioned	Name of the	Age	Discipline	Pay Band	Date of	Permanent	Contact Details	Category
No.	post	incumbent		with highest	& Grade	joining at	/		(SC/ST/
				degree obt.	Pay (Rs.)	present	Temporary		OBC/
						post			<b>Others</b> )
1	Programme			Ph D	RL 13A			Мо: 7006853560;	
	Coordinator	Dr. Manzoor A Ganai	55	Agronomy	131400-	15/07/2019	Permanent	Email:	General
	coordinator			rigronomy	217100			ganai95@gmail.com	
2	Subject Matter			Ph D Plant	RL 11		_	Mo <sup>.</sup> 7006359926	
	Specialist	Dr. Zewer H Bhat	46	Protection	68900-	08/06/2016	Permanent	Email: drzewar@gmail.com	General
	Specimise			11000000000	205500				
3	Subject Matter	Du Laberra A Khan	42	Ph D	RL 11	21/06/2012	Democrat	Mo:94691/8654	<b>C</b>
	Specialist	Dr. Ishtiyaq A Khan	43	Horticulture	08900-	21/00/2012	Permanent	Email:	General
				Dh D	205500 DI 11			<u>Ishtiyaqkhan /@ghan.com</u> Mo:7006817010	
	Subject Matter	Dr Ishtiyak A Mir	30	Animal	68900-	24/05/2013	Permanent	Fmail:	General
	Specialist	Di. Ishtiyuki i win	57	Science	205500	21/05/2015	rennanent	dr.ishtiyak83@rediffmail.com.	General
4					RL 10			Mo:9541043663	
	Subject Matter	Dr. Shazia Ramzan	33	Ph D Soil	57700-	03/01/2014	Permanent	Email:	General
	Specialist			Science	182400			<u>shaziyaramzan@gmail.com</u> .	
5	Subject Matter	Vacant							
	Specialist								
6	Subject Matter	Vacant							
	Specialist								
7				Ph D Agri-	RL 10	00/00/0015		Mo:9596060517	G 1
	Farm Manager	Dr. Shabeer A Ganaie	44	economics	57700-	08/08/2017	Permanent		General
0			-		182400			ganalesnabir@gmail.com	
0	Programme	Vacant			35400-				
	Assistant	vacant			112400				
9	a i				Level -6				
	Computer	Vacant			35400-				
	Programmer				112400				
11	Accountant /				RL 11				
	Superintendent	Vacant			35400-				
	Supermendent				112400				
12	G/ 1		20	Post	Level -4	01/06/0010	D (	Mo:9541653314	
	Stenographer	Ab Mateen Shah	39	Graduate	25500-	21/06/2019	Permanent	Email:	General
					81100				

APR 2020-21

13	Driver	Javid A Sheikh	41	HSC Part-2	Level -4 25500- 81100	15-10- 2013	Permanent	Mo:9697036267 Email:	General
14	Driver	Vacant		-	Level-4 19900- 63200	-	-	Mo: Email:	
15	Supporting staff	Mohd Ashraf Khanday	46	-	SL-1 14800- 47100	05-03- 2019	Permanent	Mo:9541400863 Email:	OBC
16	Supporting staff	Fayaz Ahmad Bhat	46	HSC Part-2	SL-1 14800- 47100	2/5/2019	Permanent	Mo:9149571782 Email:	General

### **1.6.** Total land with KVK (in ha): <u>9.6 ha</u>

~	Item	Area (ha)
S.		
1 <b>NO.</b>	Under Buildings	0.10
2	Under Demonstration Units	0.10
2.		0.25
3.	Under Crops	5.50
4.	Orchard/Agro-forestry	0.50
5.	Others (specify) apricot nursery	0.50
6.	Barren land	2.77
	Total	9.62

### 1.7. Infrastructural Development:

	Name of building	Source of	Stage					
S.		funding		Complet	te		Incompl	ete
No.			Completi	Plinth	Expenditure	Starting	Plinth	Status of
			on	area	( <b>Rs.</b> )	Date	area	construction
			Date	(Sq.m)			(Sq.m)	
1.	Administrative Building	ICAR	17-12- 2018		15300000/	-	230	Fully complete
2.	Farmers Hostel	-	-	-	-	-	-	_
3.	Staff Quarters	-	-	-	-	-	-	-
	1							
	2							
	3							
	4							
	5							
	6							
4.	Demonstration Units	-	-	-	-	-	-	_
	1	-	-	I	-	-	-	-
	2							
	3							
	4							
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting	_	_	_	_	_	_	_
	system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

A) Buildings

#### **B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero	2012	652987/-	146004	Good

#### C) Equipment's including Tractor & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Tractor John Deere 38HP model (5038)	2012	566100/	Good
Tractor Trolley	2019	58000/	V Good

#### **1.8.** A). Details SAC meeting\* conducted in the year 2020-21 : (List attached at the end)

S.	Date	Name and Designation of	No. of	Salient Recommendations	Action taken
No.		Participants	absentees		
	17/08/2020	List attached	-	-	-

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

#### **<u>2. DETAILS OF DISTRICT (2020-21)</u> (April-2020-March 2021)**

Sources of irrigation	Farming system/enterprise
1 Irrigated (canal)	Rice – Brown sarson+ Livestock (dairy /Sheep/poultry),
	Rice –fodder (oats/Berseem) Livestock (dairy /Sheep/poultry),
	Rice-Wheat+ Livestock (dairy /Sheep/poultry)
2 Rainfed	Apple + vegetables+ Livestock (dairy /Sheep/poultry),
	Maize + Rajmash+, Green Gram + Maize, Maize + field Pea
	Apple + Fodder+ Livestock (dairy /Sheep/poultry),
3 Enterprises	Apple + pulses+ Livestock (dairy /Sheep/poultry)
	Horticulture + Agriculture + livestock + Handicraft + Fishery + Apiculture +
	Poultry + Mushroom

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

 S. No
 Agro-climatic Zone
 Characteristics

 1
 Mid to high altitude temperate zone (JK-3) (more temperate climate in summer, relatively low in winter, rainfall exclusively in spring, moderate in winter, Average precipitation 1050 mm)
 High altitude (1850 m amsl) (plain and sloppy irrigated.)

 Mid to high altitude temperate zone (JK-3) (more temperate climate in summer, relatively low in winter, rainfall exclusively in spring, moderate in winter, Average precipitation 1050 mm)
 High altitude (1650-1850 m amsl) (plain and sloppy irrigated and plain unirrigated)

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

#### 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Silty to Clay loam	Ideal for cultivation of paddy, oilseed and pulses	59312 (80%)
2	Sandy to clay loam	Ideal for cultivation of apple, walnut and maize	14803 (20%)

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

Сгор	Area (ha)	<b>Production</b> (q)	Productivity (q/ha)
Rice	24037	1562403	65
Maize / (Hybrid)	10676	405713	38
Wheat	237	185172	78
Oilseed	14547	167295	11.5
Vegetables	2668	653650	245
Fodder Crops	8390	2600788	310
Pulses	1241	13656	11.5

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

Crop	Area (ha)	Production (M.T)	Productivity (M.T/ha)
Apple	18235	221636	12.15
Walnut	11949	44916	3.76
Pear	547	2107	3.85

### 2.5 Weather data

Month	Rainfall (mm)	Temper	rature °C	<b>RH (%)</b>
April, 2020	3.8	26.5	13.1	67.9
May, 2020	1.5	24.9	9.5	60.7
June, 2020	0.8	28.7	13.2	56.9
July, 2020	1.8	30.7	16.2	62.3
August, 2020	6.5	29.2	17.7	74.1
September, 2020	0.8	28.2	10.9	64.4
October, 2020	0.1	24.8	4.3	50.3
November, 2020	1.5	14.0	1.1	71.9
December, 2020	1.9	9.4	-3.2	79.9
January, 2021	6.5	5.9	-5.9	82.2
February, 2021	0.8	12.8	-0.9	73.7
March, 2021	8.1	3.8	3.8	71.2

Weather Data for the year 2020-21

Category	Population (000)	Production	Productivity
Cattle			
Crossbred	18.992	10.7114 MT	5.64 kgs milk/animal/day
Indigenous	345.0	8.9355 MT	2.59 kgs milk /animal/day
Buffalo	8.2	4.0098 MT	4.89 kgs milk /animal/day
Sheep			
Crossbred	1.49	3.81(lakh Kgs of wool)	1.27 Kgs wool/sheep/annum
Indigenous	0.40	0.68( lakh Kgs of wool)	0.84 Kgs wool/sheep/annum
Goats	50.9	-	0.60 Kg milk/Goat/day
Pigs	-	-	-
Crossbred	-	-	-
Indigenous	-	-	-
Rabbits	-	-	-
Poultry			
Hens	473.9	-	-
Desi	428.56	-	-
Improved	45.34	-	-
Ducks	22.63	-	-
Turkey and others		-	-
Category	Area	Production	Productivity
Fish	-	4.50 tons	-
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-

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

Category	Area	Production	Productivity
Fish	-	4.50 tons	-
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

10

S.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Dooru	Dooru/Larkipora	Bragam, Kreri, Nowpora	Paddy	Abiotic and biotic stress Cold injury Low yield Nutrient imbalance	Integrated farming system/Varietal introduction
2.	Dooru	Dooru Nowgam	Qammer, Thamankote, Rakhbrah & Bragam	Maize	Moisture stress Lack of quality seed Low productivity Lack of IPM and INM	IPM and INM
3.	Mattan	Mattan	Nambal, Srigufwara, Aakura	Brown Sarson	Poor drainage Higher seed rate Incidence of aphids Imbalanced nutrition Old varieties	IPM and INM
4.	Dooru	Dooru/Larkipora	Kreri, Nowpora, Bragam	Pulses	Non availability of quality seed of SKUAST-K released varieties Health consciousness	Integrated farming system
5.	Dooru	Dooru/Larkipora	Kreri, Bragam, Nowpora	Fodder Oats	Lack of quality seed Imbalanced nutrition	Integrated farming system
6.	Anantnag/ Dooru	Dooru/Anantnag	Aarampora Mir Maidan & Banghdar	Vegetables	Incidence of chilli wilt, downy mildew of cucurbits Lack of quality seed Lack of knowledge about seed production Shortage of vegetables during offseason	Integrated farming system

2.7 Details of Operational area / Villages (2020-21)

	-					
7.	Bijbhera / Anantnag / Mattan	Bijbhera/Anantnag/Mattan	Kanalwan, Samthan, Saller, Madhama, Bijbhera	Apple	Lack of proper INM, IDM & IPM Improper plant propagation techniques Russeting Monocrop Lack of pollinizers Poor quality and yield	Integrated farming system
8.	Anantnag / Mattan/ Pahalgam	Anantnag / Mattan/ Pahalgam	Saller, Kuller, Khiram, Sirhama	Walnut	Non descriptive cultivars Higher gestation period Poor quality & market due to traditional varieties Lack of budded / grafted walnut	Integrated farming system
9.	Dooru	Dooru/Larkipora	Bragam, Kreri	Floriculture	Lack of awareness about commercial cultivation of cut- flowers under protected conditions Lack of proper market chain	Integrated farming system
10.	Dooru	Dooru/Larkipora	Bragam, Kreri, Nowpora	Dairy animals (Cross-Bred cows)	Increased influence of Mastitis in cross bred cows Milk fever Repeated breeding Lack of balanced ration and disease management Increase in inter-calving period	Integrated farming system/ Dairy farming and poultry farming
11.	Dooru	Dooru/Larkipora	Bragam, Kreri, Nowpora	Sheep	Lack of feed & fodder management Incidence of pre & post partum problems in sheep during winter Lack of management in sheep production & nutrition during winter Foot rot in sheep	Integrated farming system/ Dairy farming and poultry farming
12.	Dooru	Dooru/Larkipora	Bragam, Kreri, Nowpora	Poultry	Low body weight Low egg production Low feed conversion efficiency Low Socio-Economic status	Integrated farming system/ Dairy farming and poultry farming
13.	Dooru/ Pahalgam	Dooru/ Pahalgam/Nowgam	Bragum, Saller, Thamankot	Honey Production	Lack of disease management Seasonal management Migration management	Integrated farming system/ Dairy farming and poultry farming

14.		Larkipora	Kreri	Dingri Mushroom	Non-acceptability by the consumers	Integrated farming system
15.	Dooru	Dooru/Larkipora	Bragam, kullamchinar	Fisheries	Lack of awareness about the proper selection of fish ponds Lack of management of fish ponds with regards to feeding methods of Fry, Fingerlings & Adult fish	Integrated farming system
16.	Pahalgam⁄ Mattan	Pahalgam/ Mattan	Saller, Kullar, Ladhi, Karshangam	Sericulture	Lack of awareness about high yielding races of silkworms for quality cocoon production Lack of awareness about scientific wormrearing chambers	Integrated farming system
17.	Dooru	Dooru/Larkipora	Kreri, Nowpora, Bragam	Crops & enterprises	Lack of knowledge on improved agricultural technologies in crops & livestock enterprise	Integrated farming system
18.	Dooru	Dooru/Larkipora	Kreri, Nowpora, Bragam	SHGs	Unemployment for young women	Self-employment opportunity
19.	Bijbehara / Dooru	Bijbhera/ Dooru/Larkipora	Rakhbrah, Kreri, Nowpora, Bragam	Resource related problem A. Soil	Less soil fertility due to non- addition of organic manures & imbalanced nutrients Erosion due to lack of soil and water conservation measures in sloppy areas	Integrated farming system
20.	Bijbehara / Dooru / Pahalgam	Bijbhera/ Dooru/Larkipora /Pahalgam	Bragam, Samthan and Rakhbrah	B, Multi- enterprise cropping system/ integrated cropping system	Less income due to non-adoption of crop diversification and enterprises in the existing cropping system	Integrated farming system
21.	Bijbehara / Dooru	Dooru/Larkipora	Kreri, Nowpora and Bragam	Rural Youth	Decreased interest of rural youths in agriculture & allied enterprises Lack of orientation on self- employment avenues Lack of capital for investment	Integrated farming system

#### 2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Maize and paddy	Enhancement of seed replacement rate, varietal introduction, integrated nutrient management,
	IDM and water management, seed production, Nursery management.
Oilseed (Mustard)	Varietal introduction, pre sowing irrigation, INM, timely sowing.
Apple and walnut	Propagation of quality planting material, rejuvenation through high density orcharding,
	pollination management, pruning and training and INM.
Vegetable and floriculture	Protected cultivation and high value vegetable production. Introduction as novel and
	remunerative crop.
Dairy Sheep and goat	Dairy, sheep and goat farm management, Disease and vaccination management, winter
	management and fodder shortage, prevention of early Lamb and kid mortality. Prevention of
	mastitis and early calf mortality.
Poultry	Introduction, comparison and management of improved backyard poultry birds.
Apiculture	Rearing and management of honey bees
Sericulture	Popularization of high yielding strains of silk worm for quality of cocoon and silk production.
Fish Farming	Popularization of cold water fisheries and carp culture
Cutting and tailoring, knitting of woolies, value addition	Women empowerment
of fruit and vegetable, tilla embroidery	
Mushroom cultivation and processing, fish farming, value	Entrepreneurship development.
addition of fruit and vegetable and rearing of honey bees	
Vegetable and fruits	Value addition and post-harvest management, Women empowerment, Entrepreneurship
	development.

#### **3. TECHNICAL ACHIEVEMENTS**

#### 3.A. Details of target and achievements of mandatory activities by KVK during 2020-21.

OFT (Technology Assessment and Refinement)			FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)				
1				2			
Number of OFTs Number of Farmers		er of Farmers	Number of FLDs         Number of Farmers			er of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
10	08	36	40	18	23	72	175

#### 3.A.1 FLDs Conducted under CFLDs on Oilseed: Nil

FLD (Oilseeds)					
	Number of FLDs	N	umber of Farmers		
Targets	Achievement	Targets	Achievement		
-	-	-	-		
-	-	-	-		

#### 3.A.2 FLDs Conducted under CFLDs on Pulses (Rajmash) and (field pea)

FLD (Pulses)					
Number of FLDs Number of Farmers					
Targets	Achievement	Targets	Achievement		
10 ha (Rajamash)	10	25	25		
10 ha (Field Pea)	10	15	15		

Training (including sp	onsored, vocat	tional and other train	nings carried u	ınder Rainwater	Extension Activities					
	H	larvesting Unit)								
	3 4									
Numb	er of Courses		Number	of Participants	Number of	f activities	Number of	f participants		
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
Farmers	81	72	2560	1923						
Rural youth	31	41	620	680	5000	4525	12000	7455		
Extn. Functionaries	25	7	500	189						

Seed Prod	uction (Qtl.)	Planting ma	terial (Nos.)
	5		5
Target	Achievement	Target	Achievement
20	7	6000	4500

Livestock, poultry strai	ns and fingerlings (No.)	Bio-prod	ucts (Kg)
	7	5	3
Target	Achievement	Target	Achievement
-	-	-	-

#### 3.B. Abstract of interventions undertaken

						I	ntervention	s						
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Number of Training	Number of Training	Number of Training (extension	Extension activities (No.)	Supply of seeds	Supply of planting materials	Supply of livestock	Supp bi proc	ly of io lucts
1	Integrated farming system/Varietal introduction	Paddy	Abiotic and biotic stress Cold injury Low yield Nutrient imbalance	Modified System of Rice Intensification for Higher Productivity	Varietal Introduction of High Yielding varieties of Rice SR3, SR4,SR5 and Mechanical paddy transplanter	(Jarmers)	( <i>Youths</i> )	personnel)		(Qrl.) 6	(No.) -	(No.) -	-	-
2	IPM and INM	Maize	Moisture stress Lack of quality seed Low productivity Lack of IPM and INM	-	Popularization and ICM Practices in KG-2 Maize Scientific cultivation of local Rajmash as intercrop with maize	6	3	-		6	-	-	-	_
3	IPM and INM	Brown Sarson	Poor drainage Higher seed rate Incidence of aphids Imbalanced nutrition Old varieties	-	Demonstration of SS- 1 along with ICM practices	5	1	-	4525	0.65	-	-	-	-
4	Integrated farming system	Pulses	Non availability of quality seed of SKUAST-K released varieties Health consciousness	-	Scientific cultivation of local Rajmash as intercrop with maize Scientific cultivation of Shalimar Pea	4	1	-		14	-	-	-	-

5	Integrated farming system	Fodder Oats	Lack of quality seed Imbalanced nutrition	-	Demonstration of Shalimar Fodder Oat-1	2	1	-	3	_	-	-	-
6	IPM	Apple	Rodent damage	Management of rodents in apple orchards	-	7	2	1	-	-	-	-	-
7	IPM	Apple	Root rot	-	Integrated management of root rot in apple	8	2	2	-	-	-	-	-

7	Integrated farming system	Apple	Lack of proper INM, IDM & IPM Improper plant propagation techniques Russeting Monocrop Lack of pollinizers Poor quality and yield	Assessment of different growth regulators for management of pre-harvest fruit drop in apple. Assessment of different post bloom chemical thinners on the regularity of bearing and quality of apple under High Density plantation (HDP)	Effect of Boron and Bouquet Pollination on Fruit set in Apple Soil application of decomposed FYM impregnated with bio-agent (Trichoderma spp) near affected area. Scarification followed by Recommended fungicide paste of (Carbendiazim: Copper-oxy- chloride: Linseed oil 1:2:9 ratio)	10	2	-	-	1000	_	-	-
8	Integrated farming system	Walnut	Non descriptive cultivars Higher gestation period Poor quality & market due to traditional varieties Lack of budded / grafted walnut		Demonstration of Walnut Grader	4	0	-	-	-	-	-	-

9	Integrated farming system/ Dairy farming and poultry farming	Dairy animals (Cross- Bred cows)	Increased influence of Mastitis in cross bred cows Milk fever Repeated breeding Lack of balanced ration and disease management Increase in inter- calving period	Urea Molasses Mineral Block-a cost effective feed supplement for increasing milk production	Use of glycerin and iodine solution before and after milking	5	2	-	-	-	-	-	-
10	Integrated farming system/ Dairy farming and poultry farming	Sheep	Lack of feed & fodder management Incidence of pre & post-partum problems in sheep during winter Lack of management in sheep production & nutrition during winter Foot rot in sheep	Management of foot rot in sheep	Impact of concentrate supplementation during transition period in pregnant ewes	5	5	-	-	-	-	_	_
11	Integrated farming system/ Dairy farming and poultry farming	Poultry	Low body weight Low egg production Low feed conversion efficiency Low Socio- Economic status		Impact of backyard poultry on household nutrition of poor families	7	2	-	-	-	500		
12	Integrated farming system	Crops & enterprises	Lack of knowledge on improved agricultural technologies in crops & livestock enterprise	-	-	6	2	-	-	-	-	-	-
13	Self- employment opportunity	SHGs	Unemployment for young women	-	-	2	2	-	-	-	-	-	-

14	Integrated farming system	Resource related problems of Soil	Less soil fertility due to non- addition of organic manures & imbalanced nutrients. Erosion due to lack of soil and water conservation measures in sloppy areas	Assessment of Bio fertilizer enriched vermi- compost application in Apple Changes in Soil Chemical Properties Resulting from Organic Farming Practices	Demonstration of proper time and method of fertilizer application. Popularization of scientific ways of Organic Waste decomposition using Shalimar Microbe.	15	8	-	-	-	-	_	
15	Integrated farming system	B, Multi- enterprise cropping system/ integrated cropping system	Less income due to non-adoption of crop diversification and enterprises in the existing cropping system	-	-	10	2	-	-	-	-	-	-
16	Integrated farming system	Rural Youth	Decreased interest of rural youths in agriculture & allied enterprises Lack of orientation on self- employment avenues Lack of capital for investment	-	-	-	2	-	-	-	-	-	-

20

#### 3.1 Achievements on technologies assessed and refined

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Tuber Crops	TO TAL
Varietal Evaluation	1	-	-	-	-	-	-	-	1
Seed / Plant production	-	-	-	-	-	-	-	-	
Weed Management	-	-	-	-	-	-	-	-	1
Integrated Crop Management	1		-	-	-	-	-	-	
Integrated Nutrient Management	1	-	-	-	-	3	-	-	4
Integrated Farming System	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	_	-	-	-
TOTAL	3	_	-	-	-	3	-	-	6

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

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Tuber Crops	TO TAL
Varietal Evaluation	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-

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

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

		0	1					
Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-	-	-
Nutrition Management	1	-	-	-	-	-	-	1
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	
Production and	-	-	-	-	-	-	-	-
Management								
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income	-	-	-	-	-	-	-	-
generating enterprises								
TOTAL	1	-	-	-	-	-	-	1

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

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

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

### 3.2. Achievements on technologies Assessed and Refined

Thematic areas	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)		
	Apple	Assessment of different growth regulators for management of pre- harvest fruit drop in apple	03	03	1.0 ha
	Paddy	Modified System of Rice Intensification for Higher Productivity	03	03	0.5 ha
Integrated Nutrient Management	Apple	Assessment of Bio fertilizer enriched vermi-compost application in Apple	03	05	0.5 ha
	Apple	Assessment of different post bloom chemical thinners on the regularity of bearing and quality of apple under High Density plantation (HDP)	03	03	1.0 ha
Varietal Evaluation	Maize	Demonstration of Shalimar maize composite	03	15	2.0 ha
Integrated Pest Management					
Integrated Crop Management	Maize	Changes in Soil Chemical Properties Resulting from Organic Farming Practices	03	15	nber of rmers       Incovering all the covering all the Technological Option         03       1.0 ha         03       0.5 ha         05       0.5 ha         03       1.0 ha         15       2.0 ha         15       1ha         15       1ha         16       1.0 ha         17       1.0 ha         18       1.0 ha         19       1.0 ha         10       1.0 ha         10       1.0 ha         11       1.0 ha         12       1.0 ha         13       1.0 ha         14       1.0 ha         15       1.0 ha
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management	-		-	-	-

### 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)
	-	-	-	-	-
Resource Conservation	-	-	-	-	-
Technology	-	-	-	-	-
Forme Mashin arias	-	-	-	-	-
Farm Machineries Integrated Farming System	-	-	-	-	-
Integrated Forming System	-	-	-	-	-
integrated Failing System	-	-	-	-	-
Card / Diant must describe m	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
Value addition	-	-	-	-	-
value addition	-	-	-	-	-
Dundgam, Daduation	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
Storage Technique					
Mushing one oulting tight	-	-	-	-	-
wushroomculuvation	-	-	-	-	-
Total		-	18	44	6.0 ha

### 3.2.2. Technologies Refined under various Crops

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	-	-	-	-	-
	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-
	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-

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 Crop Management	-	-	-	-	-
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	-	-	-	-	-
	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Total	-	-	-	-	-

#### 3.2.3. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management	Cattle	Urea Molasses Mineral Block-a cost effective feed supplement for increasing milk production	02	2
Disease management	-	-	-	-
Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder	-	-	-	-
Small scale income generating enterprises	-	-	-	-
Total			2	2

#### 2.4. Technologies Refined under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds	-	-	-	-
Nutrition management	-	-	-	-
Disease management	Sheep	Management of foot rot in sheep	03	03
Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder	-	-	-	-
Small scale income generating enterprises	-	-	-	-
Total	-	-	03	03

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

A	Technology Assessment
Trial :	:1
1.	Title         :         Modified System of Rice Intensification for Higher Productivity
2.	Problem diagnose/defined : Poor soil and crop management, low yield and quality, high disease susceptibility, micro
	nutrient deficiencies in soil, water scarcity.
3.	Details of technologies Selected for assessment/refinement : $T1 = FP$ , $T2 = Recommended$ method of cultivation and $T3 = SRI$
	techniques
4.	Source of technology : SKUAST Kashmir
5.	Production system thematic area : Irrigated
6.	Thematic area : Performance of different cultivation methods under given ecology
7.	Performance of the Technology with performance indicators : A superiority in yield by SRI practices over non-SRI ones
	was about 20% and 16.25%, respectively for FP and Recommended practice. The 20% increase in average yield indicated that
	SRI technology performed better than FP and Recommended Practices and water saving of 30%.
8.	Final recommendation for micro level situation: The focus could be on those SRI components that have contributed to a yield
	increase or cost reduction. This will minimize the transaction cost of farmers by minimizing the time and money spent on other
	components that do not directly contribute to an increase in yield. The results indicate that modifying SRI components to suit
	farmers' preferences result in comparatively higher yields than conventional practices. Encouraging farmers to practice SRI in
	their own way which suit them could be beneficial, instead of forcing them to follow a defined method. This way, modified SRI

their own way which suit them could be beneficial, instead of forcing them to follow a defined method. This way, modified SRI or improved management practices would enhance the rice yield compared to older practices. Scarcity of labour comes in the way of SRI practices that need timely attention. Machine transplanting can be introduced using wider spacing, young seedlings, and one to two seedlings.

- 9. Constraints identified and feedback for research: Imparting training to farmers on the SRI components is essential. This will make them more confident in carrying out follow-up tasks. The drivers of SRI adoption can be examined and incorporated in agricultural development programmes such as the Rashtriya Krishi Vikas Yojana.
- 10. Process of farmer's participation and their reaction : The identified farmers were imparted training before execution of the experiments, they were happy with the new technology. The experiments were monitored regularly at 20 days interval. A get together was held at experimental sites with farmers at harvest of the crop. The advantages of technology were discussed with farmers and officials from line departments. The farmers were eager to adopt the technology for their farms.

**Results of On Farm Trials** 

Crop/ enterp rise	Farm ing situa tion	Problem Diagnosed	Title of OFT	No. of trials*	Technol ogy Assessed	Parameters of assessment	Data on the parame ter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Paddy	Irrig ated	Poor soil and crop management, low yield and quality, high disease susceptibility, micro nutrient deficiencies in soil, water scarcity	Modified System of Rice Intensifica tion for Higher Productivity	03	Varieties under Farmers and recomm ended Practice	T1 = FP T2 = Recommen ded method of cultivation T3 = SRI techniques	Effecti ve tillers; yield; B:C R	T1 = Tillers/ hill =11, Yield = $6.4$ t/ha, BCR = 1.23 T2 = Tillers/hill =15, Yield = $6.7$ t/ha, BCR = $1.47$ T3 = Tillers/hill = $24$ , Yield = $8.0$ t/ha, BCR = 1.84	ResultsindicatedthatSRItechnologyperformedbetterthanFPandRecommendedPracticesand
									advantage of 20% and 16.25 %, respectively with a water saving of 35%

\* No. of farmers = 03

APR 2020-21

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1=Farmers practices	6.4 t/ha	18500.00	1.23
T2=Recommended	6.7 t/ha	25600.00	1.47
T3=SRI Technique	8.0 t/ha	36800.00	1.84

\*Field crops – kg/ha, \* for horticultural crops -= kg/t/ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermi compost kg/unitarea.

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

#### Trial: 2

- 1) **Title:** Assessment of bio fertilizer enriched Vermicompost application in Apple
- 2) Problem diagnose/defined : Low yield
- 3) Details of technologies selected for assessment/refinement: T1:RDF

**T2:** Fertlizer dose on soil test basis

**T<sub>3</sub>:** RDF + Vermicompost + PSB + KSB

T4:Fertilizer dose on soil test basis+ Vermicompost + PSB + KSB

- 4) Source of technology : SKUAST-K
- 5) Production system
  - thematic area : Commercial horticulture
- 6) Thematic area : Integrated nutrient management
  - 7) Performance of the Technology with performance indicators: Highest yield was obtained in fertilizer dose on soil test basis

+ Vermicompost + PSB + KSB

- 8) Final recommendation : Fertilizer dose on soil test basis+ Vermicompost + PSB + KSB
- 9) Constraints identified and feedback for research : Nil
- 10) Process of farmers participation and their reaction : Farmers were actively engaged in laying out OFT
- B). Results of On Farm Trials

#### APR 2020-21

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Data on the parameter Yield (ton/ha)	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	8	9	10
Apple	Irrigated	Low yield	Assessment of bio fertilizer enriched Vermicompost application in Apple	4	RDF Fertlizer dose on soil test basis RDF + Vermicompost + PSB + KSB Fertilizer dose on soil test basis+ Vermicompost + PSB + KSB	14.5 15.9 16.1 17.5	Fertilizer dose on soil test basis+ Vermicompost + PSB + KSB increased yield to 13.5 tons/ha	Farmers were satisfied with the OFT results

\* No. of farmers

Technology Assessed	*Production per unit (ton/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
RDF	14.5	507500/ha	2.19
Fertlizer dose on soil test basis	15.9	604200/ha	2.30
RDF + Vermicompost + PSB + KSB	16.1	644000/ha	2.35
Fertilizer dose on soil test basis+	17.5	735000/ba	24
Vermicompost + PSB + KSB		733000/Ha	2.4

\*Field crops – kg/ha, \* for horticultural crops -= kg/t/ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermi compost kg/unit area. \*\* Give details of the technology assessed or refined and farmer's practice Trial 3

#### **Changes in Soil Chemical Properties Resulting from Organic Farming Practices** 1) Title :

2) Problem diagnose/defined : Soil health

3) Details of technologies selected for assessment/refinement: T1: Farmers Practice (FP) T2: FYM + Compost + Vermicompost +

#### Biofertilizer

- 4) Source of technology : SKUAST-K
- 5) Production system Commercial horticulture :
- 6) Thematic area Integrated nutrient management :
- 7) Performance of the Technology with performance indicators
- Organic amendments such as composts, manures, and vermicompost improved soil health metrics compared to farmers practice.
- 8) Final recommendation for Organic amendments such as composts, manures, and vermicompost improved soil health metrics compared to farmers practice Constraints identified and feedback for research Availability of organic material 9) Farmers were actively engaged in laying out OFT 10) Process of farmers participation and their reaction :

•

Page 32

#### Results of On Farm Trials B)

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of tria ls*	Technology Assessed	Param eters of assess ment		Data	on the p	parameter		Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	pН	OC (%)	N (kg/ha)	P (kg/ha)	K (kg/ha)	9	10
Maize	Rainfed	Soil degradation	Changes in Soil		Farmers Practice (FP)	Soil Health	6.55	1.13	404	12.3	155.5	Organic amendments	Farmers were
			Chemical Properties Resulting from Organic Farming Practices	3	FYM + Compost + Vermicompost + Biofertilizer		6.35	1.33	498	16.6	170.98	such as composts, manures, and vermicompost improved soil health metrics compared to farmers practice	satisfied with the OFT results

Technology Assessed	*Production per unit (ton/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
NA	NA	NA	NA

\*Field crops – kg/ha, \* for horticultural crops -= kg/t/ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermi compost kg/unit area. \*\* Give details of the technology assessed or refined and farmer's practice

1.	Title       :       Assessment of different PGRs for the management of Pre-harvest fruit drop in apple
2.	Problem diagnose/defined : Fruit drop, Low Productivity.
3.	Details of technologies Selected for assessment/refinement : $T1 = FP$ (Use of non-specific chemicals), $T2 = Recommended$ (RP)
	: NAA@ 10 ppm before 21 days (3 weeks) of Anticipated
	harvest, and $T3 = 2,4,5-T$ @ 30 ppm before 28 days (4 weeks)
	of Anticipated harvest.
4.	Source of technology : SKUAST Kashmir
5.	Production system thematic area : Rain-fed
6.	Thematic area : Performance of different PGRs for the management of Pre-harvest Fruit drop.
7.	Performance of the Technology with performance indicators : Results indicated that 2,4,5-T @ 30 ppm proved to be the
	best treatment, wherein lowest fruit drop (6.44%) was recorded
	followed by NAA @ 10 ppm (10.45%) as compared to FP
	(16.33%).
8.	Final recommendation for micro level situation: It was concluded that 2,4,5-T @ 30 ppm sprayed before 4 weeks of anticipated
	harvest proved the best treatment for controlling pre-harvest fruit drop in apple
	and is therefore suitable under given ecology.
9.	Constraints identified and feedback for research : 2,4,5-T is relatively more costlier PGR than NAA and therefore farmers
	are relatively reluctant in using 2,4,5-T, although were satisfied with the
	regard to its efficacy in checking fruit drop of apple. Nevertheless
	demanded that research to be conducted on more cheaper/affordable

technology.

10. Process of farmer's participation and their reaction : The identified farmers were imparted training about the preparation of dosage and effective timing of spray before the execution of the trial/testing (OFT). The trials at all the three locations were monitored regularly and data were collected at 07 days interval. All the farmers involved with the OFT were satisfied with technology. The advantages of technology were discussed with farmers and officials from line department.

Results of On Farm Trials:

Crop	Farming	Problem Diagnosed	Title	No. of	Technolo	Parameters	Data	Results of assessment	Feedback from the
/	situation		of OFT	trials*	gy	of	on the		farmer
enter					Assessed	assessment	param		
prise							eter		
1	2	3	4	5	6	7	8	9	10
Apple	Rainfed	Fruit drop, Poor	Assessment		T1=FP	T1=FP	%	T1 = fruit drop = 16.33 %,	Results indicated that
		crop management	of different		T2=Reco	T2=NAA	Fruit	Yield = $14.49$ t/ha, BCR =	both the recommended
		and low yield	PGRs for		mmended	@10ppm at	drop	2.12	practices performed
			the	03	practice	3weeks		T2 = fruit drop = 10.45%,	better in controlling
			management		T3=Reco	before	Yield	Yield = $15.51$ t/ha, BCR =	preharvest fruit drop
			of Pre-		mmended	harvest	(kg /	2.18	than Farmer's
			harvest fruit		practice	T3=2,4,5-T	tree)	T3 = fruit drop = 6.44%, Yield	Practice. However
			drop in		_	@30ppm	BCR	= 16.21  t/ha, BCR = 2.22	2,4,5-T proved the
			apple			before			best Recommended
						4weeks			practice in controlling
									fruit drop of apple.

\* No. of farmers = 03

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1=Farmers practices	14.49 t/ha	260,820.00	2.12
T2=Recommended Practice	15.51 t/ha	310,200.00	2.18
T3=Recommended Practice	16.21 t/ha	356,620.00	2.22

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

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

# Trial 5: a. Title: Assessment of different Post bloom chemical thinners on the regularity of bearing and quality of Apple under High Density Plantation (HDP).

b. Problem diagnose/defined : Biennial Bearing, Poor quality and Low Productivity.

c. Details of technologies Selected for as sessment/refinement: T1 = FP (no thinning), T2 = Recommended (RP): NAA@ 15 ppm and T3 = BA @ 150 ppm

d. Source of technology:

e. Production system:

#### f. Thematic area:

SKUAST Kashmir

Irrigated (Drip)

Crop Load Management in High Density Apple.

g. Performance of the Technology with performance indicators: Results indicated that both the recommended practices were effective in thinning of fruits as compared to Farmer's practice of no thinning. However, T3 (BA @ 150 ppm) was more effective as a postbloom chemical thinner wherein 79% of the total fruits harvested were A Grade fruits as compared to T2 (NAA @ 15 ppm) wherein 71.5 % fruits harvested were A grade fruits. Similarly, better return bloom(130 flower clusters/tree) were recorded in T3 (BA @ 150 ppm) as compared to T2 (NAA @ 15 ppm) wherein 117 flower clusters/tree were recorded. T1 where no thinning was done (Farmer's Practice) recorded lowest percentage of A grade fruits (53 %) and return bloom (49.5 flower clusters/tree) the next year.

h. Final recommendation for micro level situation: Crop load management (thinning) is absolutely essential in High Density Apple orchards for better quality and orchard longevity. BA @ 150 ppmproved to be a better post bloom chemical thinner technological option when applied 3-4 weeks after full bloom which not only enhanced the quality of the fruits and thereby better returns but also resulted in significantly highest number of Flower cluster per tree (Return bloom) the following season.

i. **Constraints identified and feedback for research**: Since both BA and NAA are growth regulators and that there is no control over their thinning extent. Also their efficacy depends upon multiple factors and especially weather at the time spray and 3-4 days post spray. Therefore, farmers feedback was that an accurate technology to be developed for thinning and option of hand thinning technology needs to be standardized especially for the areas where labour is not an issue.

j. **Process of farmer's participation and their reaction**: The identified farmers were imparted training about the preparation of dosage and effective timing of spray before the execution of the trial/testing (OFT). The trials at all the three locations were monitored regularly and data were collected at 45 days from full bloom, at harvest and at 20 % bloom the next season. Farmers involved with the OFT were partially satisfied with the technology. The advantages of technology were discussed with farmers and officials from line department.
### Results of On Farm Trials

Crop/ enter prise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technolog y As sessed	Parameters of assessment	Data on the parame ter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Apple (03 years old)	Irrigated (Drip)	Alternate Bearing/Biennial Bearing, Poor Quality.	Assessment of different Post bloom chemical thinners on the regularity of bearing and quality of Apple under High Density Plantation (HDP).	03	T1=FP T2=Recom mended practice T3=Recom mended practice	T1=FP (No thinning) T2= NAA @15pm T3= BA @150 ppm	% A Grade Apples Return Bloom (Flower clusters/ tree	T1 = % A Grade Apples = 53 % , Return Bloom = 29.5 Flower clusters/tree T2 = % A Grade Apples = 71.5 % , Return Bloom = 117 Flower clusters/tree T3 = % A Grade Apples = 79 % , Return Bloom = 130 Flower clusters/tree	Results indicated that both the recommended practices performed better in thinning of fruits and thereby enhancing both quality and return bloom and thus overcoming ill effects of alternate bearing in apple under HDP. However, Farmers were partially satisfied with the technology as it was viewed that there is no control over the extent of thinning by spraying Chemical thinners and demanded that a more reliable technology for crop load management (thinning) is devised.

\* No. of farmers = 03

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1=Farmers practices (No thinning)	36.0 t/ha	1,998,000.00	3.84
T2=Recommended Practice (NAA @ 15 ppm)	25.80 t/ha	1,999,500.00	4.78
T3=Recommended Practice (BA @ 150 ppm)	23.4 t/ha	2,094,300.00	5.36

\*Field crops - kg/ha, \* for horticultural crops -= kg/t/ha, \* milk and meat - litres or kg/animal, \* for mushroom and vermi compost kg/unit area.

# Trial 5:a. Title:Management of Rodents in Apple orchards.

b. Problem diagnose/defined : Root damage and Debarking resulting into Death of plants c. Details of technologies Selected for assessment/refinement: T1 farmers practice, T2 = Use of tin box filled with water and piece of apple as a

bait and T3 = Fumigator

- d. Source of technology:SKUAST Kashmire. Production system:Irrigated
- f. **Thematic area** : Management of rodents in Apple.

g. Performance of the Technology with performance indicators: Results indicated that incidence of damage by rodents where 40 ; 25; and 5 per cent, respectively for T1; T2 and T3. The number of dead rodents on an average after imposing the treatments were 0; 9 and 30 rodents

per demonstration, respectively.

h. Final recommendation for micro level situation: The use of fumigator showed a significant control of rodents over farmers practices (T1) and Use of tin box filled with water (T2).

i. **Constraints identified and feedback for research**: Handling of fumigator and tin box filled with water is cumbersome. The farmers feedback was that an accurate technology to be developed and needs to be standardized.

j. **Process of farmer's participation and their reaction**: The identified farmers were imparted training about the use of fumigators and tin boxes, bates for the management of rodents. The trials at all the three locations were monitored regularly and data were collected at 10 days interval. Farmers involved with the OFT were partially satisfied with the technology. The advantages of technology were discussed with farmers and officials from line department.

#### **Results of On Farm Trials**

Crop / enter prise	Far min g situa tion	Problem Diagnose d	Title of OFT	No . of tria ls*	Technology Assessed	Param eters of assess ment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Apple	irrigat	Root	Manage		T1: Farmers practice		% incidence of	% damage of	The identified farmers were
	ed	damage and	ment of Rodents		T2: Use of tin box	Root damage	damage of trees by rodents	trees by rodents $= 40;$	imparted training about the use of
		Debarking	in Apple		filled with water and	and de-	-	25 and 5, for	fumigators, bates and use of tin
		resulting into	orchards	3	piece of apple as a bait (RP)	barking		$T_1$ , $T_2$ and $T_{3}$ , respectively.	boxes for the management of
		Death of						The average	damage by the rodents. The trials
		plants			T3: Fumigator			number of dead rodents	at all the three locations were
								were 0; 9 and	monitored regularly and data were
								30 per demonstration	collected at 10 days interval.
								for $T_1$ , $T_2$ and	Farmers involved with the OFT
								T <sub>3</sub> , respectively	were partially satisfied with the
									technology.

Technology assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T <sub>1</sub> : Farmers practice (FP)	-	-	-
T2: Use of tin box filled with water and piece of apple as a bait (RP)	-	-	-
T3: Fumigator			

\*Field crops – kg/ha, \* for horticultural crops -= kg/t/ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermi compost kg/unit a rea. \*\* Give details of the technology assessed or refined a nd farmer's practice

### Trial 7:

#### 1. Title : Urea Molasses Mineral Block-a cost effective feed supplement for increasing milk production.

- 2. Problem diagnose/defined : Low Milk Production in dairy cattle. Poor Body condition score.
- 3. Details of technologies selected for assessment/refinement: T1: Farmers practice (FP) T2: UMMB as lick @200-500gm/day/ animal for 2 months
- 4. Source of technology : SKUAST-K
- 5. Production system : Semi intensive
- 6. Thematic area : Dairy production
- Performance of the Technology with performance indicators: Milk production was increased in T2 group of animals from 4.75Kg/day (FP)to 5.20kg/day(RP). Also BCS was increased in T2 group of animals from 1.5-2.0 (FP) to 2.0-2.50 (RP).
- 8. Final recommendation for micro level situation: Feeding of UMMB as lick @200-500gm/day/ animal for 2 months particularly during winter will not only increase the milk production but also maintains the milk production throughout the spring season.
- 9. Constraints identified and feedback for research: Availability and Manual preparation of UMMB. Animals prefer to bite the UMMB brick instead of Licking that creates problem of indigestion and bloat. Future research should be to make harder bricks by altering composition of UMMB block without effecting the nutritional value of brick.
- 10. Process of farmers participation and their reaction: Farmers were actively participating but were reluctant to adopt when they came to know that it includes fertilizer grade urea and cement. After proper counselling they agree to adopt the technology on limited number of animals in their farm. After seeing the performance of animals they are highly satisfied with the technology.

#### **Results of On Farm Trials**

Crop / enter prise	Far min g situa tion	Problem Diagnose d	Title of OFT	No . of tria ls*	Technology Assessed	Param eters of assess ment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Dairy	Semi	Low	Urea		T <sub>1</sub> : Farmers practice	Milk	Milk Yield:	8.65% increase	Farmers were satisfied with
	Intens	Milk	Molasses		(FP)	yield	4.75kg/day	in Average	the introduction of UMMB
	ive	Producti	Mineral			Body	Body Condition	daily Milk	and performance of animals
		on in	Block-a			conditi	Score: 1.5-2.0	Yield in T2 as	particularly during winters in
		dairy	cost			on		compared to	their farm.
		cattle.	effective	2	T2: UMMB as lick	score	Milk Yield:	T1 and Body	
		.Poor	feed		@200-500gm/day/		5.20kg/day	condition	
		Body	supplem		animal for 2 months		Body Condition	Score in T2	
		condition	ent for				Score: 2.0-2.5	group of	
		score	increasin					animals was	
			g milk					excellent 2-2.5	
			producti					as compared to	
			on					T1 group of	
								animals 1.5-	
								2.0	

Technology assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T <sub>1</sub> : Farmers practice (FP)	4.75kg/day/animal	NA	NA
T2: UMMB as lick @200- 500gm/day/ animal for 2 months	5.20kg/day/animal	NA	NA

\*Field crops – kg/ha, \* for horticultural crops -= kg/t/ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermi compost kg/unit a rea. \*\* Give details of the technology assessed or refined and farmer's practice

## B. Technology Refinement

### Trial 1

Frial 1			
1.	Title	:	Management of foot rot in sheep
2.	Problem diagnose/defined	:	Poor body condition score, less body weight
3.	Details of technologies selected for assessment /	:	$T_1$ : Farmers practices ( <b>FP</b> )
	refinement		T <sub>2</sub> : Foot bath 10% copper sulphate + antibiotics ( <b>RP</b> )
			T3: Foot bath 10% copper sulphate + zinc dusting of wound +
			Antibiotics as per recommended dose (Refinement)
4.	Source of technology	:	SKUAST-Kashmir, Production system
5.	Production system thematic area	:	Sheep Production
6.	Thematic area	:	Prevention of foot rot in sheep,
7.	Performance of the Technology with	:	Results showed 55% (11/20 animals) recovered from disease while treating
	performance indicators		diseased animals with foot bath of 10% copper sulphate + zinc dusting of
			wound + antibiotics at recommended dose rate (Refinement) while as 40%
			(08/20) recovered from disease while treating diseased animals with foot bath
			of 10% copper sulphate + antibiotics (RP) and improved body condition score
			of animals from 2.0 (RP) to 2.5 (Refinement)
8.	Final recommendation for micro level situation	:	Antibiotic sensitivity test should be carried out first before administering
			antibiotics at recommended dose rate. On the basis of Antibiotic sensitivity
			test least resistant antibiotic should be selected for treatment.
9.	Constraints identified and feedback for research	:	Farmers are following the treatment guidelines but do not separate
			infected/diseased animal from healthy animals and indiscriminate use of
			antibiotics.
-			

#### 10. Process of farmer's participation and their

Active participation of farmers and were satisfied with the recovery of :

reaction

diseased animals as they were looking healthy

#### **Results of On Farm Trials** 2).

Crop/ enterprise	Farming situation	Probl em Diagn osed	Title of OFT 4	No. of trials *	Technology refined	Parameters of assessment	Data on the paramete r 8	Results of assessment	Feedback from the farmer	Justificati on for refineme nt 11
Sheep	-	Poor body condi tion score, less body weig ht	Mana gemen t of foot rot in sheep	3	T <sub>1</sub> : Farmers practices (FP) T <sub>2</sub> : Foot bath 10% copper sulphate + Antibiotics as per recommended dose ( <b>RP</b> ) <b>T3</b> : Foot bath 10% copper sulphate + zinc dusting of wound +Antibiotics as per recommended dose ( <b>Refinement</b> )	Recover y rate and BCS Recovery rate and BCS Recover y rate and BCS	Recovery % = 20% (4/20) BCS = 1.5 Recovery % = 40% (08/20) BCS = 2.0 Recovery % = 55% (11/20) BCS = 2.5	Results showed 55% (11/20 animals) recovered from disease while treating diseased animals with foot bath of 10% copper sulphate + zinc dusting of wound + antibiotics at recommended dose rate (Refinement) while as 40% (08/20) recovered from disease while treating diseased animals with foot bath of 10% copper sulphate + antibiotics (RP) and improved body condition score of animals from 2.0 (RP) to 2.5 (Refinement)	Active participation of farmers and were satisfied with the recovery of diseased animals as they were looking healthy.	Recovery rate from foot root in sheep was not much satisfacto ry and growth rate of animals was less.

\* No. of farmers

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
T <sub>1</sub> : Farmers practices (FP)	NA	NA	NA
T <sub>2</sub> : Foot bath 10% copper sulphate +	NA	NA	NA
Antibiotics as per recommended dose ( <b>RP</b> )			
<b>T3</b> : Foot bath 10% copper sulphate + zinc	NA	NA	NA
dusting of wound + Antibiotics as per			
recommended dose ( <b>Refinement</b> )			

\*Field crops – kg/ha, \* for horticultural crops -= kg/t/ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermi compost kg/unit a rea. \*\* Give details of the technology assessed or refined and farmer's practice

#### PART 4 - FRONTLINE DEMONSTRATIONS

4.A. Summary of FLDs implemented during 2020-21

SI.		Farming	Season	son Hybri Them			Area	( <b>h</b> a)		No. Dem	of farmers/ constration		Reasons for shortfall in		
No ·	Category	Situation	and Year	Crop	Variety/ breed	d	atic area	Technology Demonstrated	Proposed	Actual	SC/S T	OB C	Others	Total	shortfall in achieveme nt
1	Oilseeds														
		Irrigated	Rabi 2020- 21	Mustard	SS-2	-	-	Demonstration of SS-2 along with ICM practices	5.0	05	-	-	12	12	-
		Irrigated	Rabi 2020- 21	Mustard	SS-2	-	-	Demonstration of SS-2 along with ICM practices in collaboration with MRCFC Khudwani.	1.6	1.6			05	05	
2	Pulses														
	Rajmash	Rain fed	Kharif 2020-21	Rajmash	Shalimar Rajmash	-	-	Scientific cultivation of local Rajmash as intercrop with maize	10 (CFLD)	10	-	-	25	25	-
	Field Pea	Rain fed	Rabi 2020- 21	Field Pea	Shalimar Pea	-	-	Scientific cultivation of Shalimar Pea	10 (CFLD)	10	-	-	15	15	-
	Moong	Rain fed	Kharif 2020-21	Moong	-	-	-	Scientific cultivation of Shalimar Moongh	01	01	-	-	05	05	
3	Cereals														
	Paddy	Irrigated	Kharif 2020-21	Paddy	SR 3	-	-	Varietal Introduction of High Yielding varieties of Rice SR3,	1.75	1.75	-	-	04	04	-
	Paddy	Irrigated	Kharif 2020-21	Paddy	SR 4	-	-	Varietal Introduction of High Yielding varieties of Rice	6.5	6.5	_	-	19	19	-

															45
SI.		Farmina	Season			Unhai	Them		Area	(ha)	No. of farmers/ Demonstration				Reasons for
No ·	Category	Situation	and Year	Crop	Variety/ breed	d	atic area	Technology Demonstrated	Proposed	Actual	SC/S T	OB C	Others	Total	shortfall in achieveme nt
								SR4,							
	Paddy	Irrigated	Kharif 2020-21	Paddy	SR5	-	-	Varietal Introduction of High Yielding varieties of Rice SR5	01	01	-	-	05	05	-
	Maize	Irrigated/ Rain fed	Kharif 2020-21	Maize	KG-2	-	-	Popularization and ICM Practices in KG-2 Maize	10	10	-	- 1	30-	30	-
	Maize	Irrigated/ Rain fed	Kharif 2020-21	Maize	SMC-4			Popularization and ICM Practices in SMC-4	11	11	28	_	13	41	
	Maize	Irrigated/ Rain fed	Kharif 2020-21	Fodder maize	KMD-1	-	-	Popularization of fodder Maize	02	1.75	23	-	-	23	-
4	Implements														
	Paddy	Irrigated	Kharif 2020-21	Paddy	SR-4	-	-	Paddy Transplanter	01	01	-	-	02	02	-
	Walnut	Rain fed	Kharif 2020-21	-	-	-	-	Walnut Dehuller	-	-	-	-	07	07	-

Sl. No	Category	Farming Situation	Season and Year	Crop	Variety / breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)	No. of farmers/ demonstration		No. of farmers/ demonstration		Reasons for shortfall in achievement	
5	Vegetables														
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Flowers														
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Fruit														
	Apple	Irrigated	Kharif 2020-21	Apple	-	-	-	Popularization of Boron & Bouquet pollination for improved yield and quality of apple	1	1	-	-	5	5	-
	Apple	Irrigated	Kharif 2020-21	Apple	-	-	-	Demonstration of proper time and method of fertilizer application.	1	1	-	-	3	3	-
	Apple	Irrigated	Kharif 2020-21	Apple	-	-	-	Integrated management of root rot in Apple	1	5	-	-	-	5	-
8	Spices and condiments														
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sl. No	Category	Farming Situation	Season and Year	Crop	Variety / breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)	No. of fa demonst	tratio	rs/ on		Reasons for sh achievem	ortfall in ent
9	Commercial														
10	Medicinal and aromatic														
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Fodder														
	Oats	Irrigated	Rabi 2020-21	Shalimar Fodder Oats	Shalim ar Fodder Oat-1	-	-	Demonstration of Shalimar Fodder Oat-1	4	4			30	30	
12	Dairy														
	Cows	-	2020-21	Cows	Cross Jersey/ HF	-	Prevention of Mastitis	Use of glycerin and iodine solution before and after milking	10 animals	10 animals	-	-	10	10	-
13	Poultry														
			2020-21	Back Yard poultry birds	Kuroil er		Popularization of Kuroiler birds under Backyard poultry system	Kuroiler birds	100 birds	100 birds	-	-	10	10	-
14	Piggery														
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Sheep and goat	-	Winter, 2020-21	Ewes	Cross merino	-	Nutritional problems in pregnant ewes and early lamb mortality	Impact of feeding conc. supplementation during transition period in pregnant ewes	30 ewes	30 ewes	-	-	2	2	-
16	Button mushroom														
	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-
17	Vermicompost	IFS	2020-21		-	-	Wealth from waste	Demonstration of preparation of Vermicompost	3demo	3demo	-	-	3	3	-
		Organic agriculture	2020-21				Wealth from waste	Popularization of scientific ways of Organic Waste decomposition using Shalimar Microbe.	3demo	3demo	-	-	3	3	-
18	IFS														
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Apiculture											L	ļ		
	-	-	-	-	-	-	-	-	-	-	I -	I -	I -	-	-

SI. No	Category	Farming Situation	Season and Year	Crop	Variety / breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)	No. of fa demonst	rmer ratio	s/ n	Reasons for sh achievem	ortfall in ent
20	Implements													
	-	-	-	-	-	-	-	-	-				-	-
21	Others													
21	(specify)													
	-	-	-	-	-	-	-	-	-					

#### 4. A. 1. Soil fertility status of FLDs plots during 2020-21

SI.	Category	Farming	Season and	Сгор	Variety/	Hybrid	Thematic area	Technology Demonstrated	2	Status of so (Kg/Acre)	oil	Previous crop
<i>N0</i> .		Situation	Year	-	breea	-			N	P	K	grown
1	Oilseeds	Rainfed	Rabi 2020	Brown sarson	SS-1	-	-	Demonstration of SS-1 along with ICM practices	426.4	28.8	271.6	Paddy
2	Pulses											
	Pea	Rainfed	Rabi 2021	Pea	Shalimar Pea	-	-	Scientific cultivation of Shalimar Pea	621.53	23.433	97.066	Rajmash
	Rajmash	Rainfed	Kharif 2020	Rajmash	Shalimar Rajmash	-	-	Scientific cultivation of local Rajmash as intercrop with maize	542.76	29.033	115.73	Pea
3	Cereals											
	Paddy SR2	Irrigated	Kharif 2020	Paddy	SR2	-	-	Paddy Transplanter	611.12	85.16	175.84	Oilseed
	Paddy SR3	Irrigated	Kharif 2020	Paddy	SR3	-	-	Varietal Introduction of High Yielding varieties of Rice SR3,	565.22	80.06	155.68	Fodder
	Paddy SR4	Irrigated	Kharif 2020	Paddy	SR4	-	-	Varietal Introduction of High Yielding varieties of Rice SR4,	759.15	64.425	116.2	Fodder
	Paddy SR5	Irrigated	Kharif 2020	Paddy	SR5	-	-	Varietal Introduction of High Yielding varieties of Rice SR5	596.76	83.933	132.53	Oilseed
	Maize	Rainfed	Kharif 2020	Maize	KG-2	-	-	Popularization and ICM Practices in KG-2 Maize	437.3	42.9	78.4	Fodder
	Millets											
	-	-		-	-	-	-	-	-	-	-	-
4	Vegetables	Irrigated	Kharif 2020	Chilli	Local			Integrated management of chilli wilt disease	519.8	47.3	240.8	Kale
	-	-	-	-	-	-	-	-	-	-	-	-
5	Flowers											
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
6	Fruit	Rainfed	Kharif 2020	Apple	-	-	-	Spray of Calcium Chloride Solubar	485.03	63.23	186.67	Apple
		Rainfed	Kharif 2020	Apple	-	-	-	Boron Sprays and Bouquet Pollination	-	-	-	-
		Rainfed	Kharif 2020	Apple	-	-	-	Soil application of decomposed FYM impregnated with bio- agent (Trichoderma spp) near affected area.	-	-	-	-

												48
SI.	Category	Farming	Season and	Crop	Variety/	Hybrid	Thematic area	Technology Demonstrated	2	Status of s (Kg/Acre	oil )	Previous crop
10.		Situation	Year	-	breed	-			N	Р	K	grown
7	Spices and condiments											
	-	-	-	-	-	-	-	-	-	-	-	-
8	Commercial											
	-	-	-	-	-	-	-	-	-	-	-	-
9	Medicinal and aromatic											
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
10	Fodder	Irrigated	Rabi 2020	Fodder oats	-	-	-	Demonstration of Shalimar fodder Oats -1	456.9	35.95	98.55	Paddy
					_							
11	Plantation											
	-	-	-	-	-	-	-	-	-	-	-	-
12	- Dairy	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
13	Poultry											
	-	-	-	-	-	_	-	_	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
14	Piggery											
	-	-	-	-	-	-	-	-	-	-	-	-
15	Sheep and goat											
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
16	Button mushroom											
	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-
17	Vermicompost											
	-	-	-	-	-	-	-	-	-	-	-	-
1.0	-	-	-	-	-	-	-	-	-	-	-	-
18	IFS											
	-	-	-	-	-	-	-	-	-	-	-	-
10	- A:14	-	-	-	-	-	-	-	-	-	-	-
19	Apiculture											
	-	-	-	-	-	-	-	-	-	-	-	-
20	- Turu 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	-	-	-	-	-	-	-	-	-	-	-
20	implements	ļ										
L	-	-	-	-	-	-	-	-	-	-	-	-
•	-	-	-	-	-	-	-	-	-	I -	-	-

49

SI.	Category	Farming Situation	Season and	Crop	Variety/	Hybrid	Thematic area	Technology Demonstrated	2	Status of so (Kg/Acre)	pil	Previous crop
10.		Summing	Year		breea				N	P	K	grown
21	Others (specify)											
	-	-	-	-	-	-	-	-	-	-	-	-

#### **B. Results of Frontline Demonstrations**

#### 4.B.1. Crops

	Name of the						Yield (q/ha)				%	*Economi	cs of demonst	ration (Rs.	/ha)	*Economi (Rs./ha)	cs of check		
Crop	technology demonstrated	Variet y	Hybri d	Farming situation	No. of Demo.	Area (ha)	Demo			Check	Incre ase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BC R
							Н	L	А										
Oilseeds	Demonstration of SS-1 along with ICM practices	<b>SS-2</b>		Irrigated	12	6.6	14	10	12	10	16.66	30150	43200	13050	1.43	30150	36000	5850	1.19
Pulses																			
Rajmash.	Scientific cultivation of Shalimar Rajmash.	Shalimar Rajmash	-	Rain fed / Irrigated	25	10	8.2	7.6	7.9	6.5	17.72	33729	105300	71570	3.12	27704	75075	47370	2.70
Pea	Scientific cultivation of Shalimar Rajmash.	Shalimar Pea 1	-	Rainfed	15	10	8.4	7.3	7.85	6.1	22.29	20690	52025	31335	1.51	20190	40650	20460	1.01
Moong.	Scientific cultivation of Shalimar Moong.	-		Rain fed / Irrigated	05	1.0	7.4	6.2	6.8	4.8	29.41	29925	102060	72135	3.41	23220	71925	48705	3.09
Cereals																			
Paddy	Varietal Introduction of High Yielding variety of Rice SR3,	SR3	-	Irrigated	2	0.5	70.0	64.0	67.0	54.0	19.40	44100	130464	86364	2.95	44280	99330	55050	2.24
Paddy	Varietal Introduction of High Yielding variety of Rice SR4,	SR4		Irrigated	2	0.5	76.0	72	74	58.0	21.62 %	44100	139320	95220	3.15	44280	107730	63450	2.43
Paddy	Varietal Introduction of High Yielding variety of Rice SR5	SR5		Irrigated	2	0.5	58.0	52.0	55.0	42.0	23.63 %	40950	84888	43938	2.07	41040	73080	32040	1.78
Maize	Popularization and ICM Practices in KG-2 Maize	KG 2		Rain fed	8	1	40	32	36	28	28.57 %	28350	74088	45738	2.61	29160	45570	16410	1.56
Maiæ	Popularization and ICM Practices in SMC-4 Maize	SMC- 4		Rain fed	41	11	42	28	35	26	25.71	27499	45675	18175	1.66	28285	44202	15917	1.56
Maize	Popularization of fodder Maize	KMD- 1		Rain fed	23	1.75	355	265	310	200	35.48	15000	62000	47000	4.13	15000	40000	25000	2.66

	Name of the	Variat	Hybri	Farming	No. of	Area	Yield	(q/ha)			%	*Economic	cs of demonst	ration (Rs.	/ha)	*Economia (Rs./ha)	cs of check		
Crop	technology demonstrated	y y	d	situation	Demo.	(ha)	Demo			Check	Incre ase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BC R
							Н	L	А										
Oilseeds	Demonstration of SS-1 along with ICM practices	SS-2		Irrigated	12	6.6	14	10	12	10	16.66	30150	43200	13050	1.43	30150	36000	5850	1.19
Paddy	Paddy Transplanter	SR 4		Irrigated	2	1.0	72.0	70	71	62.0	22.6 %	38272	130140	91867	3.40	44280	108780	64500	2.45
Millets	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetables	-	-			-	-	-			-	-	_	-	-	-	_	-	-	-
	-	-			-	-	-			-	-	_	-	-	-	_	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flowers	-	-	-	-	<u> </u>	-	<u> </u>	<u> </u>	Γ	-	-	-	-	-	-	-	-	<u> </u>	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruit	Popularization of Boron & Bouquet pollination for improved yield and quality of apple	Red Delici ous	-	Rainfed	5	01	170. 8	150.6	160. 7	135.9	15.43	265,155	642,800	377,64 5	2.42	217,440	475,650	258,21 0	2.19
	Integrated management of root rot in Apple	Red delicio us	-	Irrigated	5	1.0	-	-	-	-	-	-	-	-	-	-	-	_	-
Spices and condiments	-	-	<b>-</b>	-	-	[ -	-	-	-	-	-	-	-	-	-	-	-	-	-
<u> </u>		-								-	-	-	-						-
Commercial	-	-								-	-	-	-	-	-	-			-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medicinal and aromatic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fodder	Demonstration of Shalimar Fodder Oat-1	Shali mar fodder oats-1		Irrigated	30	4	36.4	28.9	32.6	24.5	20.6	11895.6 5	39255.65	27360	2.3	10840.2	29160.2	18320	1.69
Walnut	Walnut dehuller	-	-	Rain fed	07		The r	esults show	vs that N	Iechanical of	lehulling	is highest la	bour saving a	as it saves	14 labou	r days for de	hulling of 1	056 kgs w	al nut.
Fruit	Demonstration of proper time and method of fertilizer application.	Red Delici ous	-	Rainfed	03	01		160.20		140.40	8.02	NA	NA	NA	NA	NA	NA	NA	NA

																		5	1
	Name of the						Yield	(q/ha)			%	*Economic	cs of demons	tration (Rs	./ha)	*Economi (Rs./ha)	cs of check		
Crop	technology demonstrated	Variet y	Hybri d	Farming situation	No. of Demo.	Area (ha)	Demo			Check	Incre ase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BC R
							Н	L	А										
Oilseeds	Demonstration of SS-1 along with ICM practices	SS-2		Irrigated	12	6.6	14	10	12	10	16.66	30150	43200	13050	1.43	30150	36000	5850	1.19
							pН	O C N (% (%) )	P (%)	K (%)	S (mg kg) A	NA	NA	NA	NA	NA	NA	NA	NA
	Demonstration of preparation of Vermicompost	Red Worm	-	-	03		7.20	12. 32 5 7	1.71	1.5 6	370. 0								
							Time	of Decom	position	(months)									
	Popularization of scientific ways of Organic Waste decomposition using Shalimar Microbe.	-	-	-	03		10	10	10	16	-38	NA	NA	NA	NA	NA	NA	NA	NA
																			<u> </u>
															1				

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone. \*\* BCR= GROSS RETURN/GROSS COST ; H – Highest Yield, L – Lowest Yield A – Average Yield

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

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

#### 4.B.2. Livestock and related enterprises

Turne of	Name of the	Broo	No. of	No ·	Milk	k Yield (I	Kg/anim	al/day)	%	*Econon	nics of dem	onstration	Rs./unit)		*Econ (	omics of check Rs./unit)	
livestock	technology demonstrat ed	d	Demo	of Un its		Demo		Check if any	Incr ease	Gross Cost	Gross Return	Net Return	** BCR	Gros s Cost	Gross Return	Net Return	** BCR
					Н	L	А										

Dairy	Prevention of mastitis in dairy cattle	Cros s jerse y/HF	10	2	8.20	8.00	8.10	6.30	22.2	44226	68040	23814	1.54	3969 0	52920	13230	1.33
						Meat Yie	ld (kg/ur	nit)									
Poultry	Popularizati on of Kuroiler birds under Backyard poultry system	Kuro iler	10	5	60	40	50	28.0	44	6000	15000	9000	2.5	4200	9800	5600	2.33
Rabbitry																	
Pigerry																	
					Λ	Autton Yi	eld (ko/i	(nit)									
Sheep and goat	Popularizati on of feeding concentrate supplement ation during transition period in pregnant ewes	Cros s meri no	2 demos with 15 ewes	2	300	240	270	162	40	NA	NA	NA	NA	NA	NA	NA	NA
Duckery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone. \*\* BCR= GROSS RETURN/GROSS COST

D / 111/1 1	4 41	4 • • • • • • •	1 4 6	4 10	•	• •• •	• 4 • •	• • • •
Data on additional	narameters of h	er than vield (w	reduction of	nercentage di	ISEASES INCREASE	in conceiving rate	inter_calving	neriod etc.)
Data on automat	pui une cers oui	ci ului yiciu (vi	i, i cuuchon or	per centage u	is cases, mer case	in concerning rad	, meer -carving	periou cici)

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

4. B.3. Fisheries

Type of Breed	Name of the	Broad	No.	Units/	Yield (q/ha)			%	*Econ K	nomics of Rs./unit) or	s of demonstratio t) or (Rs./m2)		* I	Economic Rs./unit) of	s of check r (Rs./m2)	;	
	demonstrated	Dreeu	Damo	$(m^2)$		Demo		Check	Increase	Gross	Gross	Net	**	Gross	Gross	Net	**
	uemonstruteu		Demo	(m)				if any		Cost	Return	Return	BCR	Cost	Return	Return	BCR
					Н	L	Α										
Common carps	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

	Data on other parameters in relat	ion to technology demonstrated
Parameter with unit	Demo	Check if any
-	-	_

#### 4.B.4. Other enterprises

Entonnico	Name of the	Variety/	No. of	Units/	Yield (q/ha)		)	%	*Economics of demonstration (Rs./unit) or (Rs./m2)					*Economics of check (Rs./unit) or (Rs./m2)			
Enterprise	demonstrated	species	Demo	Area {m <sup>2</sup> }		Demo		Check if any	xk Increase y	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	А										
Button																	
mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

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

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	12	279	On Oilseed, Rajmash, Pea, Maize, Paddy, Saffron and Poultry
2	Farmers Training	72	1923	
3	Media coverage	5		-
4	Training for extension functionaries	7	187	-
5	Others (Identification of cluster villages under CFLD Rajmash and Pea)	6	40	

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

Thematic area	No. of					Participants				
	courses		Others			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production	5	-	-	196	-	-	-	-	-	196
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Watermanagement	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Fodderproduction	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture										
a) Vegetable Crops	4	-	-	100	-	-	-	-	-	100
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-

Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like	-	-	-	-	-	-	-	-	-	-
Broccoli										
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green	-	-	-	-	-	-	-	-	-	-
Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning	6	-	-	180	-	-	-	-	-	180
Layout and Management of	-	-	-	-	-	-	-	-	-	-
Orchards										
Cultivation of Fruit	-	-	-	-	-	-	-	-		-
Managementoryoung	-	-	-	-	-	-	-	-	-	-
plants/orchards										
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of	-	-	-	-	-	-	-	-	-	-
orchards									<b> </b>	
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-		-
Export potential of	-	-	-	-	-	-	-	-	-	-
Ornamental plants									<u> </u>	
Propagation techniques of Ormomental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation grops		_		_			_	_	<u> </u>	
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										

										56
Processing and value addition	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility	0			200						200
Management	8	-	-	208	-	-	-	-	-	208
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	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management	5	-	-	105	-	-	-	-	-	105
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	2	-	-	30	-	-	-	-	-	30
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-

										57
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
VII Plant Protection	3	-	-	130	-	-	-	-	-	130
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries	-	-	-	-	-	-	-	-	-	-

Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery	-	-	-	-	-	-	-	-	-	-
management										
Carp fry and fingerling	-	-	-	-	-	-	-	-	-	-
rearing										
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and	-	-	-	-	-	-	-	-	-	-
culture of freshwater prawn										
Breeding and culture of	-	-	-	-	-	-	-	-	-	-
ornamentalfishes										
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	4	-	-	85	-	_	-	_	-	85
site				00						00
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and	-	-	-	-	-	-	-	-	-	-
fingerlings										
Production of Bee-colonies	-	-	-	-	-	-	-	-	-	-
and wax sheets										
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed	-	-	-	-	-	-	-	-	-	-
and fodder										
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	6	-	-	175	-	-	-	-	-	175
Leadership development	-	-	-	-	-	-	-	-	-	_
Group dynamics	-	-	-	-	-	-	-	-	-	_
Formation and Management	-	-	-	-	-	-	-	-	-	-
		•	1	1	1					

of SHGs										
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development	-	-	-	-	-	-	-	-	-	-
of farmers/youths										
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
TOTAL	43	-	-	1213	-	-	-	-	-	1213
(B) RURAL YOUTH										
MushroomProduction	-	-	-	-	-	-	-	-	-	-
Bee-keeping	2	-	-	42	-	-	-	-	-	42
Integrated farming	4	-	-	59	-	-	-	-	-	59
Seed production	-	-	-		-	-	-	-	-	-
Production of organic inputs	1	-	-	24	-	-	-	-	-	24
Planting material production	2	-	-	30	-	-	-	-	-	30
Vermi-culture	1	-	-	20	-	-	-	-	-	20
Sericulture		-	-	-	-	-	-	-	-	-
Protected cultivation of	1	-	-	20	-	-	-	-	-	20
vegetable crops	1			20						20
Commercial fruit production		-	-		-	-	-	-	-	
Repair and maintenance of		-	-		-	-	-	-	-	
farm machinery and	-			-						-
implements										
Nursery Management of	2	-	-	30	-	-	-	-	-	30
Horticulture crops	-			20						20
Training and pruning of	-	-	-	-	-	-	-	-	-	-
orchards	-			• •						
Value addition	3	-	-	39	-	-	-	-	-	39
Production of quality animal	-	-	-	-	-	_	-	-	-	_
products				• •						
Dairying	2	-	-	30						30
Sheep and goat rearing	2	-	-	30						30
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	3	-	-	35						35
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	2	-	-	25		-	-	-	-	25
Post Harvest Technology	4	-	-	63		-	-	-	-	63
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
TOTAL	29	-	-	447	-	-	-	-	-	447
(C) Extension Personnel		-	-		-	-	-	-	-	
Productivity enhancement in	1			22						22
field crops	1	-	-	22	-	-	-	-	-	22
Integrated Pest Management		-	-		-	-	-	-	-	
Integrated Nutrient	3	_	-	79	_	_	_	_	_	79
management	5			17						15
Rejuvenation of old orchards		-	-		-	-	-	-	-	
Protected cultivation	1		_	16			_	_	_	16
technology	1			10						10
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									<u> </u>	<u> </u>
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder	2	-	-	72	-	-	-	-	-	72
production									<b></b>	<b></b>
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	07	-	-	189	-	-	-	-	-	189

#### B) **OFF Campus**

Thematic area	No. of	Participants								
	courses		Others			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm										
Women										
I Crop Production	5	-	-	197	-	-	-	-	-	197
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Watermanagement	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture										
a) Vegetable Crops	3	-	-	75	-	-	-	-	-	75
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green	-	-	-	-	-	-	-	-	-	-

APR 2020-21

61

										62
Houses, Shade Net etc.)										
b) Fruits	6	-	-	206	-	-	-	-	-	206
Training and Pruning										
Layout and Management of										
Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young										
plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of										
orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of										
ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of										
Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
Production and Management	_	_		_	_	_				
technology						_		_	_	_
Processing and value	_	_		_	_	_				
addition										
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
Production and Management	-	_	_	-	-	_	_	_	-	-
technology										
Processing and value	-	-	-	-	-	-	-	-	-	-
addition										
f) Spices	-	-	-	-	-	-	-	-	-	-
Production and Management	-	_	_	-	-	-	_	_	-	-
technology										
Processing and value	-	-	-	-	-	-	_	_	-	-
addition										
g) Medicinal and Aromatic	-	-	-	-	-	-	_	_	_	-
Plants										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management	-	-	-	-	-	-	-	-	-	-
technology										

										63
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management	7	-	-	130	-	-	-	-	-	130
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	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management	5	-	-	104	-	-	-	-	-	104
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
V Home Science/Women										
empowerment	-	-	-	-	-	-	-	-	-	-
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gendermainstreaming	-	-	-	-	-	-	-	-	-	-

										÷ .
throughSHGs										
Storage loss minimization										
techniques	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Income generation activities										
for empowerment of rural	-	-	-	-	-	-	-	-	-	-
Women										
Location specific drudgery										
reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Installation and maintenance										
of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming										
practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and										
implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of										
farm machinery and	-	-	-	-	-	-	-	-	-	-
implements										
Small scale processing and										
value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
VII Plant Protection	3	-	-	102	-	-	-	-	-	102
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease										
Management	-	-	-	-	-	-	-	-	-	-
Bio-control of pests and										
diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control	_	_	_	_	_	_	_	_	_	
agents and bio pesticides										
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery										
management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling										
rearing	-		-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-

Hatchery management and	-	-	-	-	-	-	-	-	-	-
Dreading and outure of		1								
ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp										
hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value										
addition	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at										
site	-	-	-	-	-	-	-	-	-	-
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	_	-	-	-	-	-
Bio-pesticides production	-	-	-	-	_	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	_	-	-	-	-	-
Vermi-compost production	-	-	-	-	_	-	-	-	-	-
Organic manures production	-	-	-	-	_	-	-	-	-	-
Production of fry and	_	_	_	_	_		_	_	_	
fingerlings										
Production of Bee-colonies	_	_	_	_	_		_	_	_	
and wax sheets						_	_	_	_	_
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed	_	-	_	_	_	-	-	-	-	-
and fodder										
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
X Capacity Building and	-	-	-	-	_	-	-	-	-	_
Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management	-	-	-	-	_	-	-	-	_	_
of SHGs										
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development	-	-	-	-	-	-	-	-	-	-
of tarmers/youths										
W I O and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-

65

Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
TOTAL	29	-	-	710	-	-	-	-	-	710
(B) RURAL YOUTH										
MushroomProduction	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	1	-	-	24	-	-	-	_	_	24
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	2	-	-	39	-	-	-	-	-	39
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of	1			10						10
vegetable crops	1	-	-	19	-	-	-	-	-	19
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of										
farm machinery and	-	-	-	-	-	-	-	-	-	-
implements										
Nursery Management of	2	_	-	38	-	-	_	_	-	38
Horticulture crops	_			50						50
Training and pruning of	2	-	-	57	-	-	_	_	-	57
orchards										
Value addition	-	-	-	-	-	-	-	-	-	-
Production of quality animal	-	-	-	-	-	-	-	-	-	-
products				20						20
Dairying	2	-	-	30	-	-	-	-	-	30
Sheep and goat rearing	2	-	-	26	-	-	-	-	-	26
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-		-			-	-	-	-

										-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing	_	_	_	_	_	_	_	_	_	
technology	-	_	_		_	_	_	_	_	_
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
TOTAL	12	-	-	233	-	-	-	-	-	233
(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		ļ							[]	
Production and use of	-	-	-	-	-	-	-	-	-	_
organic inputs									<b> </b>	
Gendermainstreaming	-	-	-	-	-	-	-	-	- '	-

					68
through SHGs					
TOTAL					

#### C) Consolidated table (ON and OFF Campus)

Thematic area	No. of	p. of Participants								
	courses		Others			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production	10	-	-	-	-	-	-	-	-	293
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Watermanagement	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	7	-	-	-	-	-	-	-	-	175
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-	-
b) Fruits	12	-	-	-	-	-	-	-	-	386
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-

										69
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	_	_	_	_	_	_	_		_	_
ornamentalplants										
Propagation techniques of	-	_	_	-	-	-	_	-	-	_
Ornamental Plants										
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	-	-	-	_
technology										
Processing and value	-	-	-	-	-	-	-	-	-	-
addition										
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
technology	-	-	-	-	-	-	-	-	-	-
Processing and value										
addition	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value										
addition	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nurserv management	-	-	-	_	-	-	_	-	-	-
Production and management										
technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and	-	-	-	-	-	-	-	-	-	-
value addition		ļ								
III Soil Health and Fertility	15	-	-	-	-	-	-	-	-	338
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soll 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	-	-	-	-	-	-	-	-	-	-
IV Livestock Production	10									209
and Management	10	-	-	-	-	-	-	-	-	207
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-	-
Production of quality animal										
products	-	-	-	-	-	-	-	-	-	-
V Home Science/Women										20
empowerment	2	-	-	-	-	-	-	-	-	30
Household food security by										
kitchen gardening and	-	-	-	-	-	-	-	-	-	-
nutrition gardening										
Design and development of										
low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development										
for high nutrient efficiency	-	-	-	-	-	-	-	-	-	-
diet										
Minimization of nutrient loss	-	_	_	_	_	-	_	_	-	-
in processing										
Gendermainstreaming	-	_	_	-	_	-	_	_	-	-
through SHGs										
Storage loss minimization	-	-	-	-	-	-	-	-	-	-
techniques			ļ							
Value addition	-	-	-	-	-	-	-	-	-	-
Income generation activities										
tor empowerment of rural	-	-	-	-	-	-	-	-	-	-
Women	l									

										<i>,</i> <del>,</del>
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Installation and maintenance	-	-	-	-	-	-	-	-	-	-
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	6	-	-	-	-	-	-	-	-	232
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-

										72
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value										
addition	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at	4									85
site	7	-	-	-	-	-	-	-	-	05
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and	-	_	-	-	_	-	_	_	-	_
fingerlings										
Production of Bee-colonies	_	_	_	_	_	_	_	_	_	
and wax sheets										
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed	-	_	_	_	_	-	-	_	-	-
and fodder										
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
X Capacity Building and	6	-	-	-	_	-	_	-	-	175
Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management	-	-	-	-	_	-	_	-	-	_
of SHGs										
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development	-	-	-	-	-	-	-	-	-	-
of farmers/youths		-								
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
TOTAL	72	-	-	-	-	-	-	-	-	1923
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	-	-
MushroomProduction		-			-	-	-	-	-	-
										73
---------------------------------------------------------------	---	---	---	---	---	---	---	---	---	----
Bee-keeping	2	-	-	-	-	-	-	-	-	42
Integrated farming	4	-	-	-	-	-	-	-	-	59
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	2	-	-	-	-	-	-	-	-	48
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Planting material production	2	-	-	-	-	-	-	-	-	30
Vermi-culture	3	-	-	-	-	-	-	-	-	59
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	2	-	-	-	-	-	-	-	-	39
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Nursery Management of Horticulture crops	4	-	-	-	-	-	-	-	-	68
Training and pruning of orchards	2	-	-	-	-	-	-	-	-	57
Value addition	3	-	-	-	-	-	-	-	-	39
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	4	-	-	-	-	-	-	-	-	60
Sheep and goat rearing	4	-	-	-	-	-	-	-	-	56
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	3	-	-	-	-	-	-	-	-	35
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	-	-	-	-	-	-	-	-	-	-

a 11 1 1	-	1	1	1					1	, , 
Small scale processing	2	-	-	-	-	-	-	-	-	25
Post-Harvest Technology	4	-	-	-	-	-	-	-	-	63
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
TOTAL	41	-	-	-	-	-	-	-	-	680
(C) Extension Personnel	-	-	-	-	-	-	-	-	-	-
Productivity enhancement in field crops	1	-	-	22	-	-	-	-	-	22
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	3	-	-	79	-	-	-	-	-	79
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	1	-	-	16	-	-	-	-	-	16
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	2	-	-	72	-	-	-	-	-	72
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	07	-	-	189	-	-	-	-	-	189

74

Note: Please furnish the details of above	training programmes as /	Annexure in the proforma	given helow
Note. I lease ful mish the details of above	thanning programmes as <u>r</u>	<u>Annezar e</u> in the protor ma	grienderow

Date	Clientele	Title of the	Discipline	Thematic	Duration	Venue (Off /	Numb	er of oth	ner	Numb	er of SC	/ST	Total	number	of
		training		area	in days	On Campus)	partici	ipants					partici	pants	
		programme					Male	Fem	Total	Male	Fem	Total	Male	Fema	Total
								ale			ale			le	
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Role of pollinzers/pollinato rs in temperate fruit crops	Horticulture (Fruit science	Pollination and Fruit set	01	On campus	18	02	20		-	-	18	02	20
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Rural Youth	Mass Multiplication of clonal rootstocks of Apple	Horticulture	Propagation of clonal rootstocks through mound Layering	03	on campus	20	02	22	10	-	10	30	02	32
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Method of Fertilizer application in apple orchards	-do-	INM	01	Off campus	23	8	31	6	-	6	29	8	37
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Rural youth	Budding techniques in apple	-do-	Vegetative propagation intemperate fruit crops	02	On campus	28	03	31	11	-	11	39	3	42
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Scientific Harvesting, grading/Packing and truthful labeling of apple	-do-	Grading and Packing of Temperate fruits	01	Off campus	36	04	40	-	-	-	36	04	40
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Scientific Pruning & Training of apple	-do-	Pruning and Training	10	Off campus	240	10	250	20	07	27	260	17	277
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	In-service Extension personnel	Strategies to overcome Production constrains of temperate fruit crops & High density Orcharding-a way forward	-do-	Temperate fruit production problems	03	On campus/off campus	14	02	16	-	-	-	14	02	16
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Rural youth	Pruning and Training of Apple under HDP	-do-	Pruning and Training	01	Off campus	28	-	28	-	-	-	28	-	28
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Scientific Layout of apple Orchards	-do-	-		Off campus	18	03	21	-	-	-	18	03	21

														76	
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Integrated management of diseases and insect pests of rice	Plant Protection	-	1	Off campus	20	0	20	-	-	-	-	-	20
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Integrated management of root-rot and collar- rot of apple	Plant Protection	-	1	Off campus	18	4	22	-	-	-	-	-	22
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Integrated management of apple diseases.	Plant Protection	-	1	Off campus	-	-	-	15	6	21	15	6	21
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	IPM in apple.	Plant Protection	-	1	Off campus	9	5	-	-	-	-	-	-	14
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Safe and effective use of pesticides	Plant Protection	-	1	Off campus	30		-	-	-	-	-	-	30
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Role of orchard sanitation in eradication of diseases in Apple.	Plant Protection	-	1	Off campus	10		10	15	4	19	25	4	29
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Extension Personal/In- Service	Water Harvesting and Conservation Methods	Agri- Extension/Econ omics	Water storage and its efficient use.	02	On Campus	17	05	22	-	-	-	17	05	22
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Rur al Youth	Techniques for Water Harvesting	Agri- Extension/Econ omics	Water Conservation	04	On Campus	16	09	25	-	-	-	16	09	25
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Rur al Youth	Techniques for Water Harvesting	Agri- Extension/Econ omics	Water Conservation	04	On Campus	27	03	30	-	-	-	27	03	30
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Protected Cultivation	Agri- Extension/Econ omics	Vegetable/horti culture	02	Off Campus	35	12	47	-	-	-	35	12	47
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Anganwari Worker	Poshan Maah	Agri- Extension/Econ omics	Nutrition- Sensitive Agriculture	03	Off Campus/on campus	14	107	121	-	-	-	14	107	121
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Water management in Maize under rain fed conditions.	Agri- Extension/Econ omics	Establishment of Farm schools at Block Level	01	Off Campus	22	05	27	-	-	-	22	05	27
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Cultural practices and nutrient management in vegetables.	Agri- Extension/Econ omics	Vegetable cultivation	01	Off Campus	21	08	29	-	-	-	21	08	29
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Post-harvest preservation in agricultural crops.	Agri- Extension/Econ omics	preservation in agricultural crops.	01	Off Campus	32	-	32	-	-	-	32	-	32
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March	Farmers	Fertilizer use & availability in	Agri- Extension/Econ	Fertilizer management in	01	Off Campus	22	03	25	-	-	-	22	03	25

														77	
2021		cereals	omics	cereals											
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Scientific Harvesting, grading/Packing and truthful labeling of apple	Agri- Extension/Econ omics	Grading and Packing of Temperate fruits	01	Off campus	36	04	40	-	-	-	36	04	40
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Sch ool Children	Concept of Natural Farming	Agri- Extension/Econ omics		01	Off campus	15	15	30	10	10	20	25	25	50
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Pre and Post- harvest Management of temperate fruit crops	Agri- Extension/Econ omics	Atma Nirbhar	01	Off campus	28	04	32	08	-	08	36	04	40
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Rur al Youth	Awareness regarding preparation of compost and Vermicompost	Soil Science	Waste decomposition	01	Off Campus	17	05	22	-	-	-	17	05	22
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Rur al Youth	Techniques for soil sampling	Soil Science	Soil health	03	Off Campus	19	09	28	-	-	-	19	09	28
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Extension personal	Soil test based fertilizer application	Soil Science	Soil health	03	On Campus	11	10	21	-	-	-	11	10	21
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Extension personal	Soil testing using STFR meter	Soil Science	Soil analysis	10	On Campus	19	10	29	-	-	-	19	10	29
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Extension personal	Scientific methods for preparation of On-farm compost and Vermicompost using microbial cultures	Soil Science	Waste management	10	On Campus	19	10	29	-	-	-	19	10	29
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Soil and Leaf sampling technique.	Soil Science	Soil fertility	01	Off Campus	12	05	17	-	-	-	12	05	17
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Visual deficiency symptom in apple and their correction.	Soil Science	Soil fertility	01	Off Campus	21	08	29	-	-	-	21	08	29
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Methods of fertilizer application in apple orchards	Soil Science	Soil fertility	01	On Campus	32	-	32	-	-	-	32	-	32
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Fertilizer use & availability in cereals	Soil Science	Fertilizer management in cereals	01	Off Campus	22	03	25	-	-	-	22	03	25
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Sch ool Children	Concept of Natural Farming	Soil Science		01	Off campus	15	15	30	10	10	20	25	25	50

														78	
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Methods of fertilizer application in apple orchards	Soil Science	Soil fertility	01	On Campus	32	-	32	-	-	-	32	-	32
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers, extension personnel	Waste management through composting and vermicomposting	Soil Science	Waste management	07	On Campus	32	13	45	-	-	-	32	13	45
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Climate change impact on horticultural crops	Soil Science	Climate change	01	On Campus	30	13	43	-	-	-	30	13	43
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Climate change	Soil Science	Climate change	01	On Campus	30	35	65	-	-	-	30	35	65
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farm women	Method demonstration for preparation of carrot candy and Gajjar ka halwa	Food technology/Hom e science	preparation of carrot candy and Gajjar ka halwa	1	On campus	-	15	15	-	-	-	-	15	15
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farm women	Method demonstration for the preparation of cherry jam	Food technology/Hom e science	preparation of cherry jam	1	On campus	-	15	15	-	-	-	-	15	15
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Awareness programme on prevention of mastitis in dairy cattle	Animal Science	mastitis	1	On campus	10	-		-	-	-	10	-	10
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Far m women	Demonstration on good quality hay and silage preparation.	Animal Science	hay and silage preparation.	1	Off Campus	32	02	34	16	04	20	48	6	54
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers	Awaressness programme /Demonstration on clean milk production	Animal Science	clean milk production	1	Off Campus	10	-	-	-	-	-	10	-	10
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmer/Rura 1 youth	Management of Backyard poultry Birds	Animal Science	Backyard poultry Birds	3	Off Campus	10	-	-	-	-	-	10		10
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Rural Youth/Farm ers	Importance of Vaccination in livestock -Zoom meeting	Animal Science	Vaccination in livestock	1	On campus	17	-	-	-	-	-	17		17
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmer/Rura 1 youth	Value addition of Milk and Milk products	Animal Science	Milk and Milk products	1	On campus	03	22	-	-	-	-	03	22	25
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	In Service Extension functionaries	Utilization of available feed resources in livestock	Animal Science	Feed & Nutrition Management	3	Off campus	43	5	48	25	07	32	68	12	80

														79	
		production.													
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	In Service Extension functionaries	Nutritional Management of dairy cows and sheep during winter.	Animal Science	Nutritional Management	1	Off campus	21	0	-	-	-	-	21	0	21
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmer/Rura 1 youth	Diagnosis and management of milk fever in dairy cows.	Animal Science	Disease Diagnosis	6	Off campus	71	0	-	-	-	-	71	0	71
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmer/Rura 1 youth	Skill development hands on training on Preparation of UMMB	Animal Science	Capacity building	1	On campus	16	0	-	-	-	-	16	0	16
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	In Service Extension functionaries	Skill development hands on training on Preparation of UMMB	Animal Science	Preparation of UMMB	3	On campus	21	0	-	-	-	-	21	0	21
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmer/Rura l youth	Sheep farming: A profitable enterprise	Animal Science	Capacity building	1	On campus	25	5	-	-	-	-	25	5	30
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmer/Rura l youth	BalancedfeedformulationforSheepfromavailablefeedresources	Animal Science	Balanced feed formulation	3	On campus	25	5	-	-	-	-	25	5	30
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmer /Rural youth	Dairy Farming a profitable enterprise	Animal Science	Organic Livestock farming	1	On campus	00	33	-	-	-	-	00	33	33
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Women	Entrepreneur opportunities in Value addition of Milk and Milk Products for Rural Youth	Animal Science	Capacity Building	07	On campus	0	33	33	-	-	-	0	33	33
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Far m women	Integrated management of rice blast	Agronomy	Integrated Disease management	3	Off campus	60	10	70	-	-	-	60	10	70
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Rural Youth	Importance of INM in fruit trees	Agronomy	INM	3	On campus	56		56	15		15	71		71
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Far m women	Intercropping of Legumes with maize	Agronomy	INM	3	Off campus	15	09	24	20	32	52	35	41	76
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Farmers/Far m women	Role of Sulphur in oil seeds	Agronomy	Crop production	1	Off campus	17	06	23	-	-	-	17	06	23
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Rural Youth	Farmers produce organisations (FPOs)	Agronomy	Capacity building	3	On campus	75	33	108	-	-	-	75	33	108
1 <sup>st</sup> April/2020	Rural Youth	Self-employment	Agronomy	Capacity	3	On campus	35	60	95	-	-	-	35	60	95

														80	
to 31 <sup>st</sup> March 2021		avenues for rural youth		building											
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Rural Youth	STRY on Employment opportunities in Bee Keeping	Plant protection	Capacity building	07	On campus	23	05	28	-	-	-	-	-	-
1 <sup>st</sup> April/2020 to 31 <sup>st</sup> March 2021	Rural Youth	Skill Development Programme on Employment opportunities in bee keeping for tribal youth in collaboration with KVIB.	Plant protection	Capacity building	10	On campus	-	-	-	18	07	25	-	-	_

# (D) Vocational training programmes for Rural Youth: 7

Crop /	Date	Training		Duration				No. o	f Participa	nts				Self e	employed af	ter training	Number of
Enter prise		title*	Identified Thrust Area	(days)		Others	5		SC/ST			Total					persons employed else where
					Male	Fem ale	Total	Male	Female	Total	Male	Fem ale	Total	Type of units	Number of units	Number of persons employed	
Vermico mpost	25/1 to 1/2/2021	Waste managem ent through composti ng and vermico mposting	Waste manage ment	07	26	2	28	-	-	-	26	2	28	-	-	-	-
Soil	25/11/2020 to 05/12/2020	Soil testing using STFR meter	Soil Analysis	10	19	2	21	-	-	-	19	2	21	-	-	-	-
Vermico mpost	25/11/2020 to 05/12/2020	Scientific methods for preparati on of On-	Soil health	10	17	2	19	-	-	-	17	2	19	-	-	-	-

		farm compost and Vermico mposting using microbial cultures															
Apple	09 to 19, November, 2020	Training and pruning in apple orchards of district Anantnag for Master Pruners	Training and pruning in apple	10	241	-	241		-	-	241		241	-	-	-	-
Apple	8-15 / 2/2021	STRY on Entrepr eneurial opportu nities in Nursery Raising Techniq ues of fruit crops	Nursery Raising	07	25	3	28	-	-	-	25	3	28	-	-	-	-
Bee keeping	1-7 / 2/2021	STRY on Employ ment opportun ities in Bee Keeping	Bee Keeping	07	23	05	28	-	-	-	23	05	28	-	-	-	-

																	82
		Entrepren														1	
		eur	1	1													
		opportuni	Value							ľ	1					ļ	
	16 22 /	ties in	addition								1						
Dairy	16-227 01/2021	Value	of Milk	07	-	33	33	-	-	-	-	33	33	-	-		-
	01/2021	addition	and Milk							ľ	1					ļ	
		of Milk	Products							ľ	1					ļ	
		and Milk								ľ	1					ļ	
		Products								ľ	1					ļ	

\*training title should specify the major technology/skill transferred

											No. of	f Partici	pants				Sponso	Amount of
Sl.No	Date	Title	Discipl ine	Themat ic area	Durati on (days)	Client (PF/RY /EF)	No. of course s		Other	5		SC/ST			Total		ring Agency	fund received (Rs.)
								Male	Female	Total	Male	Female	Total	Male	Female	Total		
1	09-18, March, 2021	Skill Development Programme on Employment opportunities in bee keeping for tribal youth in collaboration with KVIB.	Apicult ure	Bee Keeping	10	RY	-	-	-	-	18	07	25	18	07	25	KVIB	125000/-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

<b>(E)</b>	Sponsored Training Programmes	conducted by KVK:	01
	sponsored framing rogrammes	conducted by 11 11.	U.

		D-4- T:41-		Thomatic	Duration	Client	No. of				No.	of Participar	nts			
Sl. No Date	Title		area	(days)	$(\mathbf{PF}/\mathbf{RV}/\mathbf{FF})$	(F) courses	es Others		SC/ST		Total					
			Discipline	arca	(uays)		courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

#### 6. Extension Activities (including activities of FLD programmes)

Activity		Achievements									Extension		
	No.				No. o	of farme r	5			personnel			
		SC	C/ST	Ol	BC	Oth	ners	To	tal				
		Μ	F	М	F	М	F	М	F	М	F		
Exposure visits of farmers by KVK to other place	9	49	28	0	0	206	97	255	125	10	0		
Exposure visits of farmers at KVK	691	18	7	0	0	872	295	890	302	33	6		
Animal camps	1	57	30	0	0	0	0	57	30	2	0		
Agricultural camps	0	0	0	0	0	0	0	0	0	0	0		
Other result / method demonstrations	80	18	7	32	0	580	75	630	82	33	0		
Extension literature distributed	46	18	7	0	0	69	3	87	60	3	0		
Kisan gosthi (other than FLDs)	4	0	0	0	0	196	72	196	72	22	3		
Field Days (other than FLDs)	12	0	0	0	0	297	22	297	22	21	0		
Farmer scientist interaction	48	200	31	0	0	915	130	1115	161	34	9		
Lecture delivered (On zoom)	60	0	0	0	0	885	70	885	70	30	12		
Exhibitions	174	0	0	0	0	397	81	397	81	0	0		
Film show	0	0	0	0	0	0	0	0	0	0	0		
Kisan Mela	0	0	0	0	0	0	0	0	0	0	0		
TV talk	1	28	22	0	0	30	20	58	42	0	0		
Radio talk	2	0	0	0	0	0	0	0	0	0	0		
Publications	2	0	0	0	0	0	0	0	0	0	0		

Extension literature	0	0	0	0	0	0	0	0	0	0	0
Magazines/Newsletters	0	0	0	0	0	0	0	0	0	0	0
Papers/Articles	0	0	0	0	0	0	0	0	0	0	0
Reports	13	0	0	0	0	0	0	0	0	0	0
Press releases	50	0	0	0	0	0	0	0	0	0	0
Advisory via mobile/M-Kisan	3321	0	0	0	0	0	0	0	0	0	0
Special days/weeks/months											
World Earth Day 22 <sup>nd</sup> April	1	0	0	0	0	0	0	17	0	0	0
World Veterinary Day Last Saturday of April	1	0	0	0	0	0	0	62	0	0	0
Poshan Maah (1-30 September 2020)	1	0	0	0	0	61	356	61	356	19	30
World Rabies Day 26 Sept 2020 (zoom)	1	0	0	0	0	85	-	85	0	0	0
Weeklong Celebration before150 <sup>th</sup> Birthday on 2 <sup>nd</sup> Oct 2020 of Father of Nation Mahatma Gandhi.	1	0	0	0	0	112	73	112	73	25	0
Mehla Kissan Diwas on 15 <sup>th</sup> Oct 2020	1	0	0	0	0		22	0	22	0	0
26 <sup>th</sup> November 2020 constitution of India Preamble day	1	0	0	0	0	16	2	16	2	0	0
Soil Health Day 5 <sup>th</sup> Dec. 2020	1	0	0	0	0	35	5	35	5	03	0
Swachhta Pakawada 16-31 <sup>th</sup> Dec. 2020	1	0	0	0	0	300	32	300	32		0
International Women's Day (8 <sup>th</sup> March 2021)	1	0	0	0	0	0	29	0	29	13	0
World Water Day (22 <sup>nd</sup> March 2021)	1	0	0	0	0	0	25	0	25	11	0
Total	4525	388	132	32	0	5056	1409	5555	1581	259	60

## 6. B. Kisan Mobile Advisory Services: NIL

Kisan Mobile Advisory										
Name of the KVK	ame of the KVK No. of farmers Covered No. of Advisories Sent Type of messages									
			Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Any other	

# 6. C. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS during 2019-20:

No. of Technology week	Types of Activities	No. of	Number of	Related crop/livestock technology
celebrateu		Activities	Participants	
-	Gosthies	4	293	Integrated farming system, protected cultivation of cash crops
Poshan Maah Swatchta pakawarda	Lectures organized	60	997	Integrated farming system, Entrepreneurship development in vermicompost, dairy processing, beekeeping, horticulture nursery management, protected cultivation of vegetables, quality seed production in maize, pulses and paddy
	Exhibition	176	478	Technologies and products available at KVK Anantnag
-	Film show	-	-	
-	Fair	-	-	-
-	Farm Visit	9	390	Technology demonstration
-	Distribution of Literature (No.)	1	500	Apple spray schedule and agricultural package of practice
-	Distribution of Seed (q)	6	275	100 seed packets during Poshan Maah and Paddy, maize pea, rajmash, oilseed and oats
-	Distribution of Planting materials (No.)	1	50	Apple
-	Bio Product distribution (Kg)	-	-	-
-	Bio Fertilizers (q)	4	10	Apple
-	Distribution of fingerlings	-	-	-
-	Distribution of Livestock specimen (No.)	2	500	Poultry
-	Total number of farmers visited the technology week	-	3500	-

## Production and supply of Technological products A) SEED MATERIALS

Major group/class	Сгор	<b>Varie</b> ty	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
Paddy	Paddy	SR 3,4, and 5	5.85	19305	28
Maize	Maize	KG-2, Hybrid Maize, SMC 4	8.30	39010	71
	Fodder Maize	KDFM 1	3.50		35
OILSEEDS	Brown sarson	SS-I	0. 66	3168	20
-	-	-	-	-	-
PULSES					
Rajmash	Rajmash	Shalimar Rajmash	6.0	54000	25
Pea	Pea	Shalimar Pea	6.0	42000	15
	Moongh	SM 1	0.25	4000	5
VEGETABLES					
-	-	-	-	-	-
FLOWER CROPS					
	-	-	_	-	-
OTHERS (Oats)	-	-	-	-	-
-	-	-	-	-	-

#### B) PLANTING MATERIALS: 4000

Major group/class	Сгор	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Apple	MM9/M106	4000	40000	53
SPICES					
-	-	-	-	-	-
VEGETABLES					
-	-	-	-	-	-
FOREST SPECIES					
-	-	-	-	-	-
ORNAMENTAL CROPS					
-	-	-	-	-	-
PLANTATION CROPS					
-	-	-	-	-	-
Others (specify)					
-	-	-	_	-	_

#### C) **BIO PRODUCTS: Nil**

Major group/class	Product Name	Species	Qua	antity	Value (Rs.)	Provided to No.
			No	( <b>kg</b> )		of Farmers
BIOAGENTS	-	-	-	-	-	-
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
BIOFERTILIZERS	-	-	-	-	-	-
1	-	-	-	-	-	-
2	-	-	-	-	-	-
<b>BIO PESTICIDES</b>	-	-	-	-	-	-
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-

#### D) LIVESTOCK

Sl. No.	Туре	Breed	Qua	antity	Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
Cattle						
	-	-	-	-	-	-
SHEEP AND GOAT	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
POULTRY						
BackyardPoultry	Chicks	Kuroiler	500		40000	2
FISHERIES	-	-	-	-	-	-
Others (Specify)	-	-	-	-	-	-
	-	-	-	-	-	-

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

- 8. Literature Developed/Published (with full title, author & reference)
- (A) KVK News Letter (Name, Date of start, periodicity, number of copies distributed, etc.)
- (B) KVK e-News Letter (Name, Date of start, periodicity, Name of the Website uploaded)
- (C) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers	(Influence of nutrient-management practices on yield,	Nazir A. Teli, M. Anwar Bhat, S. Sheraz	
	quality and nutrient uptake of scented rice varieties	Mahdi, Ashaq Hussain, Showkat A. Waza,	
	under temperate conditions of Kashmir (2020)., Indian	M.A. Ganai, Waseem Raja, I.A. Jehangir and	
	Journal of Agronomy 65 (4): 412-419	M. Ashraf Ahanger	
	Spatial Variation Characteristics of Soil Erodibility in	Shazia Ramzan, Manzoor A. Ganai , Shabir A.	
	the Ganderbal Watershed of Sind River, Jammu and	Ganie, I.A. Mir, I.A. Khan, Ab. Rouf, Z.H. Bhat	
	Kashmir (India), (2020). Soil and Water Conservation	and Ifra Ashraf	
	Bulletin, No. 5 : 1-4		
	Growth, Yield and Nutrient Uptake of Knol-Khol	Ashaq Hussain, Manzoor A. Ganai, Mudasir	
	(Brassica oleracea Var. gongylodes) as Influenced by	A. Shan, Intikhab Aalum Jehangir,	
	Organic Manures, Inorganic Fertilizers and Biochar,	Shabir H. Wani and Aziz M.A	
	(2020). Indian Journal of Ecology, 47(3): 681-685		
	Response of Growth, Yield and Yield Attributes of	Sadaf Iqbal, Zahida Rashid, Manzoor Ganai,	
	Popcorn (Zea mays everta) to Organic and Inorganic	A. A. Saad, R. H. Kanth, Rais Bhat, Tahir	
	Sources of Nutrients, (2020). Int .J. Curr. Microbiol.	Sheikh, Javaid Ahmad Bhat and Tanveer	
	App. Sci 9(7): 4024-4034		
	Efficacy of different nitrogen levels and herbicides on	R. Nissar, Manzoor A. Ganai and A. Hussain.	
	weed dynamics in basmati rice under temperate		
	conditions of Kashmir valley, (2020). Journal of Crop		
	and Weed, 16(2): 166-170		

Item	Title	Authors name	Number of copies
	Formulation, characterization and evaluation of encapsulated bio-herbicide on <i>Echinochloa cruss galli</i> and <i>Phalaris minor</i> (2020). <i>Journal of AgriSearch</i> , 8 (1): 50-54	Parmeet Singh, Ravinder Kohli, Lal Singh and Manzoor Ahmad Ganie	
	Effect of NAA (Napthalene acetic acid) and 2,4,5-T (2,4,5-Tricholrophenoxy acetic acid) on fruit quality of apple cv. Red delicious. 2020, <i>International Journal of chemical studies</i> 8(4):251-254	Shemoo Nisar, <b>Ishtiyaq A. Khan</b> , Shaila Din, Sehrish Jan, Tajamul Wani, Shiekh Qurat, Insha Javed and Rihana Rahman.	-
	Effect of NAA (Napthalene acetic acid) and 2,4,5- T(2,4,5- Tricholro phenoxy acetic acid) on Shelf life of apple cv. Red delicious. (2020). <i>Int. J. Curr.</i> <i>Microbiol. App. Sci.</i> 9(10):381-390.	Shemoo Nisar, <b>Ishtiyaq A. Khan</b> , M.A.Mir, Nageena Nazir, F.A.Khan, Shaila Din, Rihana Rahman, Insha javed and Tajamulwani.(2020).	-
	Agricultural soils a trigger to nitrous oxide: a persuasive greenhouse gas and its management. Environ Monit Assess (June 2020) 192:436. <u>https://doi.org/10.1007/s10661-020-08410-2</u>	Shazia Ramzan, Tabasum Rasool, & Rouf Ahmad Bhat & Pervez Ahmad & Ifra Ashraf & Nowsheeba.	
	Responses of Soil Properties to Organic Amendments. Springer Nature Switzerland AG 2021 39 K. R. Hakeem et al. (eds.), <i>Microbiota and Bio-</i> <i>fertilizers</i> , <u>https://doi.org/10.1007/978-3-030-48771-</u> 3_3	Shazia Ramzan, Ifra Ashraf, Tahir Ali, Tabasum Rasool, Pervez Ahmad, Mushtaq A. Wani, Rohitashw Kumar, and Abdul Rouf.(2021)	
	Biodegradable Waste a Nutrient Asset for Upholding Soil Health and Crop Production. Innovative Waste Management Technologies for Sustainable Development. Published in the United States of America by IGI Global. Engineering Science Reference (an imprint of IGI Global)	Ifra Ashraf, <b>Shazia Ramzan</b> , Nowsheeba Rashid, Ikhlaq A. Mir, Asima Jillani.	
Book Chapters	Management of Pre- harvest Fruit Drop in Fruit Crops ADVANCES IN HORTICULTURE Volume 16:17-33 (Akinik Publication) (2020).	Shemoo Nisar, <b>Ishtiyaq A. Khan</b> , Shaila Din, and Insha javed (2020)	- -

90

Item	Title	Authors name	Number of copies
	-	-	-
Technical bulletins	Soil Sampling Techniques. <i>Technical bulletin No. AU/DE/161-F/09/2020</i> .	Shazia Ramzan, Manzoor A. Ganai, Molvi Rouf, Ishtiyaq Khan, Ishtiyaq Wani, Zewar Hussain, Shabir A. (2020)	50
	-	-	-
Popular articles	-	-	-
	-	-	-
Training Manual	-	-	-
Extension literature	Spray Schedule for Apple 2020-21	SKUAST-K	250
Folders /leaflets	<ul> <li>Soil sampling procedure</li> <li>Clonal Rootstock Multiplication Technology of Apple</li> </ul>	<ul><li>Shazia R, et al</li><li>I A Khan et. Al.,</li></ul>	100 100
TOTAL			500

#### (D) Details of Electronic Media Produced: Nil

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

## (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.)
-	-	-	-	-	-

The success stories/case studies with good action JPGE format photographs (with captions) should be on the following topics

- a) Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise
- b) Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise
- c) Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/enterprise/bio-product

The general format for preparing the above success stories/case studies are furnished below

#### TITLE

#### Introduction

**KVK** intervention

Output

Outcome Impact

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

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

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

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

- Identification of courses for farmers/farm women: need based trainings
- Rural Youth: Self-employment generation
- In-service personnel: Technological backstopping

#### 9.E. Field activities

- i. Number of villages adopted. 24
- ii. No. of farm families selected. 50
- iii. No. of survey/PRA conducted. 08

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

#### Status of establishment of Lab

1. Year of establishment

#### 2. List of equipment purchased with amount

quipinent			
Sl. No	Name of the Equipment	Qty.	Cost (Rs)
1	Electric Conductivity meter	01	11000/-
2			
Total		1	11000/-

#### 3. Details of samples analyzed / Soil Health Cards issued during 2020-21:

Details	No.	No. of Farmers	No. of Villages	Amount realized
Soil Samples	118	110	30	19000/-
Water Samples	-	-	-	-
Plant Samples	-	-	-	-
Soil Health Cards Issued	115	110	30	19000/-

- 4. Status of mini soil testing labs/kit : Functional.
- 5. Year of procurement of lab/kit :
- kit : 2018-19
  - No. of mini labs with the KVK : 02 (only one functional)
- 7. Type of mini labs (Name of lab/Kit) : STFR (Soil testing and fertilizer recommendation)

#### 8. Details of samples analyzed through mini soil kit / Soil Health Cards issued during 2019-20 :

:

•

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	89	75	20	Rs 13350/-
Water Samples	-	-	-	-
Soil Health Cards Issued	75	75	20	Rs 13350/-

6.

10.<u>IMPACT</u> 10.1 Impact of KVK activities (Not to be restricted for reporting period).

			Number	Change in inc	Change in income (Rs.) / ha	
S. No.	Name of specific technology/skill transferred	No. of participants	of adopters %	Before (Rs./unit)	After (Rs./unit)	
1.	Method demonstration on scientific training and pruning in apple	697	56	560000.00	865000.00	
2.	Integrated nutrient management / spray scheduling in apple	557	43	572500.00	875000.00	
3.	Leaf and soil sampling	485	26	535000.00	755000.00	
4.	Management of apple with special reference to root rot, collar rot, canker and russeting	430	45	520000.00	805000.00	
5.	Spraying of Ca & B in apple	230	50-60	675000.00	890000.00	
6.	Management of Injury caused due to hailstorm	397	40-50	320000.00	550000.00	
7.	Integrated management of chili wilt	116	07	8000.00	14000.00	
8.	Integrated disease management in paddy (seed and seedling treatment)	465	17	36000.00	45960.00	
9.	Vermicomposting	325	13	Data not available	25000 / year	
10	Cutting and tailoring	21	50	Data not available	70000 / year	
11	Tila embroidery	21	50	Data not available	35000 / year	
Popularization of SKUAST-K released varieties of Cereals, pulses and oilseeds						
12	Cereals (Maize and Paddy)	414 (Maize)	78 ( Maize)	30000.00	70000.00	
12		451 (Paddy)	70 (Paddy)	32000.00	42000.00	

13	Pulses (Rajmash and Moong)	278	35	50000.00	70000.00
14	Oilseeds (Brown Sarson)	243	60	20000.00	31350.00
15	Backyard poultry	6800	33	Rs 3000/year	Rs 8000/year
16	Fodder Oats	3520	95	Data not available	25000.00
17	SKUAST recommended Spray Schedule	4500	43	550000.00	850000.00
18	Prevention of mastitis in dairy cows	250	50	Rs 3500/lactation	Rs 7500/lactation
19	Prevention of foot rot in sheep	360	45	Rs 2400/unit	4300/unit
20	UMMB preparation and feeding in livestock	178	36	Rs2200/year	Rs 5300/year
21	Concentrate feed supplementation during transition period in ewes	458	51	Rs 3600	Rs 5600

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

**10.2.** Cases of large scale adoption: NIL

(Please furnish detailed information for each case)

10.2 **Details of impact analysis of KVK activities carried out during the reporting period:** Number of field visits, Surveys and questionnaires prepared and group discussions in the adopted villages of Kendra

#### 11.0 LINKAGES

#### **11.1** Functional linkage with different organizations

Name of organization	Nature of linkage
1. Agriculture and allied departments	Joint survey, Diagnostic, meetings, trainings and demonstrations
2.KVK Kulgam	Diagnostic, meetings, trainings and demonstration
3 DARS, Rangreth (SKUASTK)	Trainings, demonstrations, Seed materials

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

94

#### 11.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies: 01

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Khadi & Village Industries Board.	09-18 / 03/2021	Khadi & Village Industries Board J & K Srinagar	125000/-
-	-	-	-

#### 11.3 Details of linkage with ATMA: Yes

a) Is ATMA implemented in your district Yes

S.No.	Programme	Nature of linkage	Remarks
1	Awareness trainings	Collaboration	General awareness programme for farmers in which more than 600 farmers were benefited
-	-	-	-
-	-	-	-

#### Coordination activities between KVK and ATMA during 2020-21:

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	-	-	-	-
02	Research projects	-	-	-	-
03	Training programmes	Awareness programmes	all	-	Farmers from different Agricultural zones of District Anantnag participated
04	Demonstrations	-	-	-	-
05	Extension Programmes	-	-	-	-
	Kisan Mela	-	01	-	Farmers from different Agricultural zones of District Anantnag participated
	Technology Week	-	-	-	-
	Exposure visit	-	-	-	-
	Exhibition	-	-	-	-
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	FFS	-	-	-	-
06	Publications	-	-	-	-

<i>S. No</i> .	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others News coverage	-	-	-	-
07	Other Activities	-	-	_	-
		-	-	_	-

#### 11.4 Give details of programmes implemented under National Horticultural Mission: Nil

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

#### 11.5 Nature of linkage with National Fisheries Development Board : Nil

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

#### 11.6. Details of linkage with RKVY: Nil

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

#### **<u>12.</u> PERFORMANCE OF INFRASTRUCTURE IN KVK**

#### 12.1 Performance of demonstration units (other than instructional farm): Nil

Sl.	Demo Unit	Year of estt.	Area	Details o	of productio	n	Amoun	t ( <b>Rs</b> .)	Remarks
No.	(Mention the name of Demo Unit)			Variety	Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Name	Date of	Date of		Detail	Details of production		Amour	nt (Rs.)	Remarks
Of the crop	sowing	harvest	rea ha)	<b>X</b> 7 <b>1</b> 1					
			A D	Variety	Type of	Qty.	Cost of	Gross	
~ .					Produce	( <b>q</b> )	inputs	income	
Cereals									
Rice	-	-	-	-	-	-	-	-	-
Maize	April	September	1.0	C15	TLS	2.7	8775	14410/	No irrigation
Pulses	May- June	Sept-Oct	1.0	Shalimar Rajmah-1	TLS	7.0	14100	63000/	No irrigation
	Oct- Nov	June	1.0	Shalimar Pea	TLS	3.0	9300	21000/	No irrigation
	June	Oct	0.5	SM 1	TLS	0.32	2300	4640/	No irrigation
	June	Oct	0.4	SC 1	TLS	0.40	2700	9600/	No irrigation
Grams	-	-	-	-	-	-	-	-	-
Oilseeds	Oct-Nov	May	0.2	SS 2	TLS	0.21	600	756/	No irrigation
	-	-	-	-	-	-	-	-	-
Fibers	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Floriculture	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-
	-	Feb-Mar	0.05	M9, MM106	-	1250 No.	-	100000/	-
Vegetables	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Others (specify)									
Fodderoats	Nov	Iune	10	SKO-96	Seed	2.0	2250/	10000/	No irrigation
(Seed)	2019-20	June	1.0	510-70	Secu	2.0	2230/	10000/	
Earth worms	-	-	-	-	-	0.04	-	4000/	

12.2 Performance of instructional farm (Crops) including seed production

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

Sl.	Name of the	Qty	Amou	Remarks	
No.	Product		Cost of inputs	Gross income	
	-	-	-	-	-

12.4 Performance of instructional farm (livestock and fisheries production) : Nil

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

#### **12.4** 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)
April 2017	-	-	-
May 2017	-	-	-
June 2017	-	-	-
July 2017	-	-	-
August 2017	-	-	-
September 2017	-	-	-
October 2017	-	-	-
November 2017	-	-	-
December 2017	-	-	-
January 2018	-	-	-
February 2018	-	-	-
March 2018	-	-	-

#### 12.5. Database management: Nil

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

#### 12.6 Rainwater Harvesting: Nil

Training programmes conducted using Rainwater Harvesting Demonstration Unit: Nil

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

State	No. of Training programmes under Rain water Harvesting	No. of Demons trations	Seed produced (q)	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)	No. of KVKs involved
Anantnag	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

Demonstrations conducted using Rainwater Harvesting Demonstration Unit: Nil

Date	Title of the	Client	No. of Demos.	No. of Par	ticipants incl	luding SC/ST	No. of SC/ST Participants		
	Demonstration	(PF/RY/EF)		Male	Female	Total	Male	Female	Total
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

#### **13. FINANCIAL PERFORMANCE**

**13.1** Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	Jammu & Kashmir Bank	Shalimar	-
With KVK	Jammu & Kashmir Bank	Dooru	0044010200000114

S No	Particulars	Sanctioned	Released	Expenditure
	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	Farm Implements/ Small Implements	200000	200000	200000
7	Furniture & fixtures	-	-	-
8	Others (Farm Development)	500000	500000	500000
	Total - CAPITAL	700000	700000	700000
9	Pay & Allowances	12705000	12705000	12705000
	Grants in Aid – General			
10	Travelling Allowance (Domestic)	100000	100000	100000
11	A. Research Expenses	240000	240000	240000
	B. Operational Expenses	420000	420000	420000
	C. Infrastructure (Rent, Electricity, Water charges, Veh running exp, insurance)	100000	100000	100000
	D. Communication (( Postage and telephone)	40000	40000	40000
	E. Others (excluding TA)(Printing and stationery consumable, Advertising, Legal Professional charges)	150000	150000	150000
	F. Publicity & Exhibitions	-	-	-
	G. Guest House- Maintenance (recurring only)	-	_	-
	H Other Miscellaneous	200000	200000	200000
	I. Repair & Maintenance			
	(i) Equipment, Vehicle & Others	50000	50000	50000
	(ii) Office building	-	-	-
	(iii) Residential building	-	-	-
12	Revolving Fund	-	_	-
	Total Recurring Contingency	1200000	1200000	1200000
	Grants in Aid- General (RC+TA)	1300000	1300000	1300000
	Grand Total ( Capital + Salary +General)	14705000	14705000	14705000

13.2 Utilization of KVK funds during the year 2019-20 (April 2020 to March 2021)

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2016 to March 2017	1.65508	0.06720	0.00002	1.72210
April 2017 to March 2018	1.72210	1.81992	2.59303	0.94899
April 2018 to March 2019	0.94899	4.16733	5.02619	0.09013
April 2019 to March 2020	0.09013	2.44471	2.40654	0.12830
April 2020 to March 2021	0.12830	3.79953	3.43914	0.48869

13.3 Status of revolving fund (Rs. in lakhs) for the last five years

#### 14. Details of HRD activities attended by KVK staff during 2020-21 (April-December)

Name of the staff	Designation	Title of the training programme	Institute where	Date
	Designation		attended	Dute
	Senior	"Understanding Biometrical Genetics:	NAHEP;	07 to 16,
Dr Manzoor A Ganai	Scientist &	Statistical Maneuvering towards	SKUAST	September,
	Head	ensuring Food Security"	Kashmir	2020
		QGIS training programme	GeoTech	
	SMS, Soil Science	international level for the	GIS training	12/08/2020
Dr Shazia Ramzan		development of GIS plate form	Institute,	to
			Aurangabad,	18/08/2020
			Maharashtra	
Dr Ishtiyag A Khan	SMS,	Market led extension	MANAGE,	14-23/
Di Ishuyay A Khan	Horticulture		Hyderabad	08/2020
	SMS	Recent Advances in development of	NAHEP;	25.21
Dr Ishtiyaq A Khan	Horticulture	Bio-formulations for use in	SKUAST	23-31, March 2021
	Horticulture	Sustainable Agro-ecosystems in India	Kashmir	Watch, 2021
Dr Shaheer A Ganaie	SMS Agri-	Market led extension	MANAGE,	14-23/
	Econ		Hyderabad	08/2020

# 15. Details of Important Programs/Events conducted in KVKs during 2020-21 (April-December) (With 4-5 Photographs (JPEG Format).

#### (Please furnish detailed information for each Program/Event)

Soil health Day was celebrated by inviting the farmers on 5<sup>th</sup> of December 2020 at office of the KVK Anantnag in which 43 farmers participated in the programme. During this event importance of soil health, Soil sample procedure and soil sampling was addressed. Farmers were provided hands on training regarding soil sampling procedures. During the event 25 soil health cards were issued to apple orchardists of the adopted villages. On the occasion SDM, Dooru, was chief guest, Chief Agriculture officer Anantnag and Chief Horticulture officer Anantnag were guest of honour.



2) Training cumdemonstration on value addition of Milk and Milk Products was organized by the KVK Anantnag for unemployed educated girls of village Nowpora in which 43 girls / women participate. During the event participants were given hands on training for preparation of milk products. Unemployed educated girls were motivated to work in groups so as to form self-help groups in future.



3) 10 days Pruning and training camps were organized from November,  $9^{th}$  to  $19^{th}$  for the local Master pruners and apple orchardists of the district in which 241 farmers were benefitted.



4) Demonstration programme on making of Urea Molasis Mineral Block (UMMB) was organized in which 21 farmers participated. During the programme farmers were informed about the shortage of concentrate feed and fodders, importance of fortification.



#### 16. Please include any other important and relevant information which has not been reflected above.

1) One day programme on "Aatma Nirbhar Krishi" was celebrate on line with Hon'ble Prime Minister on 9<sup>th</sup> of August, however, farmers were also invited to attend the programme in which on virtual mode 23 farmers attended and at Kendra 17 farmes attend the programme. On 3<sup>rd</sup> October one online programme on New Farm Laws was also attended with Minister Agriculture



2) To commemorate the 150 years of celebration of Mahatma, a drawing completion was organised across the district and the school children were felicitated. On the occasion three Assistant Professors of Near-by College were invited to grace the occasion. 45 farmers / school children attended the porogramme.



3) Celebration of Mehala Divas on15th October in which 27 women / girls participated. They were given hands on training on value addition of Milk, vegetables and fruits.



4) Celebration of "**Poshan Mah**" in collaboration with Department of Rural development from 1-30, September was organised. 436 farm women including 61 farmers and 19 state department officials were actively involved in the programme. SDM dooru was chief Guest on concluding day.



5) Successfully celebrated the Swachhta Pakhwada program during 16-31 Dec 2020 in which a number of awareness programs, sanitation and plantation drive, cleanliness of tourist spots and residential areas, polythene free environment and soil health, sensitization of local youth towards healthy life and organizing group meetings benefiting approximately 332 farmers of the area. On concluding day SDM Dooru attended the programme as Chief Guest.



6) Hon'ble Vice Chancellor, Director Extension along with othjer officials visited the Kendra on 2<sup>nd</sup> July and took stock of situation. He was upraised about some shortages / deficiencies at Kendra.



7) Four Seven days STRY trainings were conducted in Collaboration with SAMETI, SKUAST Kashmir and MANAGE, Hyderabad, in which 110 Rural Youth (Men / women) were benefited. The trainings were conducted in the months of January, February. All the four trainings were monitored online by MANAGE, Hyderabad and at each valedictory function, Associate Director Extension was gracing the occasion as Chief Guest.



8) Ten days resident Skill Development for Schedule Tribe Youth was organised in collaboration with SAMETI SKUAST Kashmir and Khadi and Village Industries Board Govt. of J & K. 25 ST Youth (Men / Women) were imparted training on Bee Keeping.



- 9) One day Training programme on each SAME-ATMA, NICRA, MATASYA, Saffron were organize at KVK Anantnag. 118 farmers of district Anantnag got benefitted.
- 10) Distribution of 4000 Colonal Root Stocks of M 9; M 7; MM106; MM 111 and Merton 793 to the 50 farmers / Budding entrepreneurs / rural youth (farming community) of District Anantnag. CGM NABARD was Chief Guest on the occasion, Associate Director Research, SKUAST K was guest of Honour.


S No.	Name	Designation
1.	Prof. Mushtaq Ahmad	Director Extension (Chairman SAC),
		SKUAST-K, Shalimar.
2.	Dr. Amal Saxena	Associate Director, KVK's SKUAST-Kashmir
3.	Dr. Masood Saleem	Associate Director Extension (AS) SKUAST-K
4.	Dr. Manzoor A. Ganai	Programme Coordinator, KVK Anantnag
5.	Mr. Malik Yaseen	CHO, Anantnag.
6.	Mr. Hilal Bhat	HDO, Anantna g
7.	Mr. Malik Reyaz Ahmad	SDAO, Anantnag
8.	Mr. Asif Ahmad	AFO, Anantnag.
9.	Dr. Syed Abasi	Chief AH, Anantnag
10.	Dr. Asif Ali	VAS, Sheep Husbandry Anantnag
11.	Dr. Ishtiyaq Ahmad Khan	Scientist/ SMS, Horticulture KVK Anantag
12.	Dr. Ishtiyak Ahmad Mir	Scientist/ SMS, Animal Science KVK Anantnag
13.	Dr. Shazia Ramzan	Scientist/ SMS, Soil Science KVK Anantnag
14.	Dr. Shabeer Ahmad	Scientist/ SMS, Agri Economics KVK Anantnag
15.	Mr. Nazir Ahmad	Farmer, Anantnag
16.	Mr. Ayat Ajaz	Farmer, Anantnag
17.	Mr. Javaid Ahmad	Farmer, Anantnag
18.	Mr. Mushtaq Ahmad	Farmer, Anantnag
19.	Mr. Zubair Khalil	Farmer, Anantnag
20.	Mr. Irfan Ahmad Bhat	Farmer, Anantnag
21.	Mr. Abdul Ahad Lone	Farmer, Anantnag
22.	Mr. Nisar Ahmad	Farmer, Anantnag
23.	Mr. Abdul Mateen	Stenographer, KVK Anantnag

## LIST OF PARTICIPANTS OF SAC MEETING (2020-21)

The work and contribution of following is duly acknowledged for completion of this manuscript: Dr Zewar H Bhat (SMS Plant Protection) Dr Abdul Rouf (SMS Food Technology) Dr Ishtiyaq A Khan (SMS Horticulture) Dr Ishyiyak A Mir (SMS Animal Science) Dr Shazia Ramzan (SMS Soil Science) Dr Shabir A Ganie (SMS Agri-Econ)

> Sd/ **Dr Manzoor A Ganai** Programme Coordinator