PROFORMA FOR ANNUAL REPORT 2017-18

<u>1. GENERAL INFORMATION ABOUT THE KVK</u>

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Jammu, SKUAST-J,	01923-252929	01923-252929	<u>kvkjammu@gmail.com</u> Website- <u>www.kvkjammu.nic.in</u>
R.S.Pura Jammu 181 102			

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

Address	Telephone		E mail
	Office	FAX	
Sher-e-Kashmir University of	0191-2262029	0191-2262029	vc@skuast.org
Agricultural Sciences and			
Technology of Jammu,			
Main Campus, Chatha, Jammu			

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

Name	;	Telephone / Contact	
	Residence	Mobile	Email
Dr. Vikas Tandon	09419155273	09419212421	kvkjammu@gmail.com

1.4. Year of sanction: 1992

1.5. Staff Position (as on 31st March 2018)

SI. No.	Sanctioned post	Name of the incumbent	Age	Discipline with highest degree obt.	Pay Band & Grade Pay (Rs.)	Present basic (Rs.)	Date of joiningat present post	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme	Dr. Vikas	47	Ph. D	37400-	63820	April	Temporary	Gen
	Coordinator	Tandon		Fruit	9000-		2016		
	~ · · · · ·			Sciences	67000				~
2	Subject Matter	Dr. Rakesh.	43	Ph.D	15600-	37680	Oct 2014	Temporary	Gen
	Specialist	Sharma		Ag. Ext.	8000-				
					39100				
3	Subject Matter	Dr. Punit	42	_Ph.D	15600-	35420	Oct 2014	Temporary	Gen
	Specialist	Choudhary		Forestry	7000-				
					39100				
4	Subject Matter	Dr Sheetal	47	Ph.D	15600-	33720	March	Temporary	Gen
	Specialist	Badyal		Home	7000-		2016		
				Science	39100				
5	Subject Matter	Sh. Prem	44	M.F.Sc.	15600-	25050	May 2010	Temporary	Gen
	Specialist	Kumar		Fisheries	6000-				
					39100				
6	Subject Matter	Vacant	-	-	-	-	-	-	-
	Specialist								
7	Subject Matter	Vacant	-	-	-	-	-	-	-
	Specialist								
8	Computer	Er. Ashish	44	M. Tech	9300-	20330	Dec 2016	Temporary	Gen
	Programmer	Katoch			4200-			- •	

					24000				
					34800				
9	Programme	Sh. Raju	37	Ph.D	9300-	17130	Aug.2008	Temporary	Gen
	Assistant (Farms)	Gupta		Agronomy	4200-				
					34800				
10	Programme	Ms. Poonam	29	M.Sc.	9300-	15210	June 2012	Temporary	Gen
	Assistant (Trainings)	Abrol		H. Science	4200-				
					34800				
11	Accountant /	Vacant							
	Superintendent								
12	Stenographer	Sh. Narinder	45	B. Sc.	9300-	19850	Aug.2002	Temporary	Gen
		Sharma			4200-				
					34800				
13	Driver	S. Harbajan	60	Middle	9300-	22500	Oct. 2001	Temporary	Gen
		Singh			4200-				
		•			34800				
14	Driver	Sh. Manohar	47	Matric	5200-	10040	Sept.	Temporary	SC
		Lal			1900-		2015		
					20200				
15	Supporting staff	S. Harbans	59	-	5200-	12410	April	Temporary	Gen
		Singh			1900-		2002	· · ·	
		C			20200				
16	Supporting staff	Sh. Satnam	41	-	4440-	9060	April	Temporary	Gen
		Singh			1300-		2005	· · ·	
		e			7440				

1.6. Total land with KVK (in ha) : 11.5ha

S. No.	Item	Area (ha)
1	Under Buildings	570 m ² (0.244 ha)
2.	Under Demonstration Units	144 m ² (0.0016 ha)
3.	Under Crops	8 ha
4.	Orchard/Agro-forestry	0.1 ha
5.	Others (specify)	Crop cafeteria, fish pond, nursery (0.2 ha)

1.7. Infrastructural Development:

A) Buildings

		Source			Stag	irce Stage					
S.	Name of building	of funding		9	Incomplete						
5. No.			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction			
1.	Administrative Building	ICAR	March 1999	582	30.62 lakh						
2.	Farmers Hostel	ICAR	March 2007	305	19.78			Complete			
3.	Staff Quarters	ICAR	March 1994	140	08.23			Complete			
	1	-	-	-	-	-	-	-			
	2	-	-	-	-	-	-	-			
	3	-	-	-	-	-	-	-			
	4	-	-	-	-	-	-	-			
	5	-	-	-	-	-	-	-			
	6	-	-	-	-	-	-	-			
4.	Demonstration Units	ICAR	December 1995	144	06.63	-	-	Complete			
	1	-	-	-	-	-	-	-			
	2	-	-	-	-	-	-	-			

	3	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-
5	Fencing	ICAR			6.95			Complete
6	Rain Water	-	-	-	-	-	-	-
	harvesting system							
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Scooter	1996-97	26,777.00	59979.00	unserviceable
Jeep	2006-07	5,10,134.00	186500	Working
Tractor	2005-06	4,13,920.00	2285 (hrs)	Working

C) Equipments including Tractor & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Microscope	27.04.00	5,500.00	Working
Overhead Projector	03.08.95	7,425.00	Working
Slide Projector	25.05.96	12,327.00	Working
PA System (Ahuja)	09.06.99	19,788.00	Working
Blue Star AC (2 Nos.)	12.01.99	43116.00	Working
Photo Copier	26.03.02	66015.00	Working
Computer with UPS & Printer	21.02.05	69429.00	Working
OTG	17.03.05	5695.00	Working
Sony Handy Camera	31.03.05	33940.00	Not Working
Printer HP 5160	29.03.05	6200.00	Working
Genset	18.08.04	149200	Working
Panasonic KX-FT-903	05-09-05	10500	Working
Aqua Guard	30-09-05	8490	Not Working
LCD	29.05.04	1,00,366	Working
UPS Uniline 1KVA (2 No.)	31.01.07	9240	Working
Trolly for tractor	10.07.07	72800	Working
Leveller	22.06.05	8840	Working
Disc plough	22.06.05	21500	Working
Tiller tyne	22.06.05	15912	Working
Disc Harrow	22.06.05	21000	Working
Seed-cum-fertilizer drill	12.03.04	20000	Working
HP Laptop (2 no)	31-03-2017	115000	Working
SONY LCD projector SW631	31-03-2017	91800	Working
GMETEL Podium	31-03-2017	149900	Working
Handy Cam Sony	31-03-2017	21500	Working
SHARP digital XEROX machine82000	31-03-2017	82000	Working
Globus ceramic steel Board	31-03-2017	44655	Working
Electrowall mounting display panal	31-03-2017	66868	Working
Magzine rak	31-03-2017	81000	Working
Mrida Parikshak Soil testing Kits (2 no)	31-03-2017	90300	Working

1.8. A). Details SAC meeting* conducted in the year 2017-18

S. No.	Date	Name and Designation of Participants	No. of absentees	Salient Recommendations	Action taken
1.	26/03/2018	Dr. R.K. Arora Associate Director Extension(KVK) Sh. N.K. Dubey Chief Agriculture	Nil	Chairman directed to promote University Maize Composite through FLD's by the KVK	This year composite varieties will also be tested.

Officer, Jammu		
Dr. S.K. Gupta Prof. & Head,	incorporate multicut Bazra developed by IGFRI	We have sent reques to Rajastha
Division of Agro	Palampur under FLD	center for
forestry	programme	seed.
Dr. Mohd. Asmail		
Chief Animal		
Husbandry Officer,		
Jammu Da Shihari Sani		
Dr. Shilani Suri		
Prof. & Head, Division of Anatomy		
Dr. Anil Sharma		
Associate		
Professor(Agronomy) Ravinder Kachroo		
Dy. Project Director ,		
ATMA, Jammu		
Sh. B. B. Sidha		
Dy. Project Director,		
ATMA, Jammu		
Dr. Mohammed Raza		
District Sheep		
Husbandry Officer,		
Jammu		
Dr. Vikas Tandon		
Sr. Scientist & Head,		
KVK Jammu		
Dr. Rakesh Sharma		
Sr. Scientist		
(Extension) KVK-		
Jammu		
Dr. Punit Choudhary		
SMS(Agroforestry)		
KVK-Jammu		
Dr. Sheetal Badyal		
SMS(Home Science)		
KVK-Jammu.		
Sh. Ragubhir Singh ,		
farmer		
Fateypur Sikeri		
Sh. Vinod Kumar,		
farmer		
Kaloen, R.S.Pura		
Smt. Sunita devi,		
Farmwomen		
 Kaloen R.S.Pura		
	Chief Agricultural Officer	Same has
	Jammu again requested for	been

		training programmes on micro irrigation both on as well as off farm	incorporated in action plan.
		Incorporate more no of training programmes under Veterinary sciences and Animal Husbandry and resource persons for the said trainings will be made available for the FVSc& AH R S Pura.	More trainings on animal husbandry will be included.
		sensitize the farmers about Farmer Producer organization (FPO's) during the training programme entitled Mobilization of Social capital	Efforts are on to promote SHGs and also to form some FPO.
		Chief Animal Husbandry officer Jammu department requested to conduct training programme on backyard Poultry	KVK will train as well as demonstrate Backyard poultry models.

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

2. DETAILS OF DISTRICT (2017-18)

Major farming systems/enterprises (based on the analysis made by the KVK)				
Farming system/enterprise				
Rice-Wheat				
Maize-Wheat				
Wheat -Mash-Rice				
Maize-Toria-Wheat				
Rice-Barseem-Vegetable				

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

S. No	Agro-climatic Zone	Characteristics		
	Sub-tropical Zone	Situated between 300- 450m above mean sea level having severe		
		winter, rare occurrence of frost and a hot spell of summer with		
		concentration of precipitation in summer months.		
S. No	Agro ecological situation	Characteristics		
1	Rainfed	The average rainfall of the District Jammu ranges between 750-900 mm. Agriculture in this area is complex, diverse and risk-prone and is characterized by low levels of productivity and low input usage. Vagaries of the monsoon result in wide variation and instability in yields.		

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Sandy loam	pH 7.7-8.1, EC-0.15-0.23, organic	-
		carbon 0.35-0.44 (low), N- low, P-	
		medium, K- medium	
2	Loamy sand	pH 7.2-7.5, EC-0.15-0.20, organic	-
		carbon 0.45-0.55 (low), N- low, P-	
		medium, K- high	
3	Clay loam	pH 7.1-7.8, EC-0.18-0.22, organic	-
		carbon 0.40-0.50(low), N- low, P-	
		medium, K- medium	
4	Silty clay loam	pH 7.4-7.6, EC-0.16-0.20, organic	-
		carbon 0.42-0.50 (low), N- low, P-	
		medium, K- medium	

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

S. No	Crop	Area (ha)	Production (Qtls)	Productivity (Qtls /ha)
1	Paddy	45000	1587150	35.27
2	Wheat	71000	1843160	25.96
3	Maize	12000	366480	30.54
4	Pulses	11250	-	-
5	Millets	3500	-	-
6	Oil seed	6700	-	-
7	Fodders	10550	-	-
8	Vegetable	10000	-	-

Month	Rainfall (mm)	Temp	erature ⁰ C	Relative Humidity (%)
		Maximum	Minimum	
April 2017	23.4	34.4	16	68
May 2017	11.4	37.8	20.4	57
June 2017	231.4	36.5	23.6	68
July 2017	279.0	35.1	25.1	83
Aug 2017	181.8	33.6	25	87
Sep 2017	49.5	33.9	22.7	85
Oct 2017	-	32.8	16.3	83
Nov 2017	10.6	25.1	8.9	95
Dec 2017	51.2	21.0	6.2	92
Jan 2018	9.6	19.1	3.9	93
Feb 2018	50.8	22.6	7.4	90
March 2018	12.8	28.5	11.9	84

2.5 Weather data

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

Category	Population	Production	Productivity	
Cattle			¥	
Crossbred	2.49	-	-	
Indigenous	4.57	-	-	
Buffalo	2.59	-	-	
Sheep				
Crossbred	-	-	-	
Indigenous	1.03	-	-	
Goats	2.5	-	-	
Pigs	0.1	-	-	
Crossbred	-	-	-	
Indigenous	-	-	-	
Rabbits	-	-	-	
Poultry				
Hens	7.85	-	-	
Desi	-	-	-	
Improved	-	-	-	
Ducks	-	-	-	
Turkey and others	-	-	-	

Category	Area	Production	Productivity
Fish	-	-	
Marine	-	-	-
Inland	-	10751.76q	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

2.7 Details of Operational area / Villages (2017-18)

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas	
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1	R.S.Pura	R.S.Pura	Raipur Sazda, Karotana, Suchetgarh	Paddy, Wheat, Oilseeds, Dairy, Vegetable Marigold Mushroom Fodder crops	 Low productivity of cereals, oilseeds and pulses. Improper adoption of Package of Practices Problem of yellow rust in wheat Old marigold varieties. low milk yield and adoption of improper management practices in animals. 	 Increasing production of cereals, oilseeds and pulses by replacing varieties. Promotion of new and high yielding marigold varieties, Dairy development Value addition Mushroom cultivation fodder
2	Akhnoor	Akhnoor	Mathwar Rabta Danger	Oil seed, Chickpea, Mash, Maize Medicinal tree	 Low productivity of maize and Chickpea. Lack of knowledge about rain-fed crop varieties 	 Increasing productivity of rain- fed crops. Promotion of INM and IDM in cereals, pulses and oilseeds Medicinal trees
3	Bishnah	Bishnah	Chak Bhagwana, Chak Chimna, Saidgarh	Paddy, Wheat, Mash, Oilseeds, Dairy, Fisheries Fodder grasses	 Low productivity of cereals, oilseeds and pulses. Problem of yellow rust in wheat Lack of knowledge of Vaccination in cattle. Low Milk Yield Traditional fish farming system 	 Increasing production of cereals, oilseeds and pulses by replacing variety. Dairy development Scientific Fish farming Value addition Ornamental fish culture fodder
4	Surinsar	Nagrota	Sagoon Surinsar Katal Battal	Paddy , Wheat, Maize, Marigold, Pulses and Oilseeds Fodder grasses	 Low seed replacement rate Lack of quality seed of paddy Low productivity of cereals Old marigold varieties. 	 Seed replacement Increasing productivity of cereals Promotion of new and high yielding marigold varieties, Fodder

2.8 **Priority/thrust areas**

Crop/Enterprise	Thrust area				
Rice	Preservation and promotion of Basmati 370, Integrated Nutrient Management, ,Introduction of				
	Pusa varieties in non-basmati growing areas.				
Wheat	Introduction of High yielding varieties, Yellow rust resistant varieties. ICM in wheat				
Maize	High yielding hybrids, disease and pest management.				
Oilseeds	Seed replacement, High yielding newly released short duration varieties.				
Pulses	Weed Management, High yielding varieties, Diversification, INM				
Oats, Perennial grasses	Fodder intensification, high yielding perennial grass varieties.				
Medicinal trees	Quality planting material production, production of superior clonal material				
Fish farming	Promotion of composite fish culture, Ornamental fish farming and value addition				
Mango, Amla, Ber, Citrus	Promotion of Horticulture in rain-fed areas				
Dairy farming	Promotion of clean milk production, Milk preservation and processing.				
Marigold	Introduction of high yielding varieties, increasing the area under cultivation.				

<u>3. TECHNICAL ACHIEVEMENTS</u>

3.A. Details of target and achievements of mandatory activities by KVK during 2017-18

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)				
1				2				
Numb	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets Achievement		Targets	Achievement	Targets	Achievement	
08	10	24	32	105	115	105	268	

3.A.1 FLDs Conducted under CFLDs on Oilseed

	FLD (Oilseeds)								
Number of FLDs Number of Farmers									
Targets	Achievement	Targets	Achievement						
25	25	25	108						

3.A.2FLDs Conducted under CFLDs on Pulses

	FLD (Pulses)						
Number of FLDs Number of Farmers								
Targets	Achievement	Targets	Achievement					
50	47	50	189					

Training (incl		nsored, vocat Rainwater H			Extension Activities				
	icu unuci	3	ai vesting O	iiit)	4				
Num	ber of Cour	ses	Number of	of Participants	Number	of activities	Number	of participants	
Clientele	Targets	Achievement	Targets Achievement		Targets	Achievement	Targets	Achievement	
Farmers	40	45	900	1092	Awareness (5)	19	500	1031	
Rural youth	7	7	140	165	Plantation drive (1)	4	40	51	
Extn. Functionaries	6	7	120	181	Exhibition (2)	3	100	250	
					Kisan mela (1)	2	200	250	
					Exposure visit (2)	4	100	133	
					Field day (6)	8	320	401	
					Kisan Ghoshti (2)	8	800	1222	

Seed Product	ion (Qtl.)	Planting material (Nos.)			
5		6			
Target	Achievement	Target	Achievement		
Paddy- 75q (B-370)	77.5q	Napier 1000	1500		
Wheat – 170 q (WH-1080)	150q	Setaria	500		
-	-	Aonla	300		
-	-	Harad	500		

Livestock, poultry strai	ns and fingerlings (No.)	Bio-products (Kg)				
	7	8				
Target	Achievement	Target	Achievement			
	~		50 q			
		Azola	2 q			

3.B. Abstract of interventions undertaken

								Interventions						
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 prod	o ucts
1.	Varietal Evaluati on	Paddy	Low yield Lack of knowledge about improved varieties	Assessment of Basmati varieties for yield potential	Promotion and demonstration of Basmati varieties for yield potential Demonstration of improved Pusa varieties under irrigated condition.	(farmers)	(Youths)	personnel)	05	(Qtl.) 4.05	(No.)	(No.)	<u>No.</u>	Kg
2	Varietal evaluatio n	Maize	Low yield Lack of knowledge about improved hybrid	Assessment of Maize composite. Maize stem borer management through organic/inorganic plant nutrition Integrated nutritent management in rainfed maize	Promotion of maize hybrid for yield.	01	-	-	01	2.20	-	-	-	
3	Clonal evaluatio n	Aonla Harad	Lack of superior clones	Assessment of superior clones of Aonla with respect to survival and establishment	Demonstration of vegetatively propagated superior clones of Harad	03	03	-	2		250	-	-	
4	Perennia l fodder producti on	Napier Setaria Cenchrus	Lack of perennial grasses	Assessment of improved perennial grasses for herbage production under subtropical conditions		2	-	-	2		1500	-	-	
5	Varietal Evaluati on	Wheat	Low yield and incidence of yellow rust		Demonstration of high yielding rust resistant Wheat variety	02	-	-	01	10.0				
6	Varietal evaluatio n	Oilseed	Lack of short duration high yielding varieties	Assessment of high yielding Gobi Sarson varieties	Demonstration of short duration high yielding mustard and Gobi Sarson	01	-	-	01	0.53				
7	Varietal performa nce	Oats	Low productivity and Lack of knowledge about improved varieties	Assessment of high yielding Oat varieties for higher biomass	Demonstration of high yielding Oat varieties for higher biomass	02	-	-	-	3.10				
8	Varietal performa nce	Berseem	Low productivity and Lack of knowledge about improved varieties		Demonstrationo f high yielding Oat varieties Berseem for higher biomass	01	-	-	-	1.0				
9	Varietal evaluatio n	Gram	Lack of knowledge about variety	Efficacy of different chemicals for management of gram pod borer.	Promotion and demonstration of high yielding chickpea variety under rainfed conditions of Jammu and Samba	02	-	-	02					
10	Varietal evaluatio n	Mash			Promotion and demonstration of high yielding variety	01	-	-	02					
11	INM	Pearl Millet		Integrated Nutrient Management in pearlmillet crop yield under rainfed		-	-	-	-	-				

3.1 Achievements on technologies assessed and refined

Abstract of the number of technologies assessed* in respect of crops/enterprises												
Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Tuber Crops	TOTAL			
Varietal	5	1	-	-	-	-	-	-	6			
Evaluation												
Seed / Plant	-	-	-	-	-	-	-	-	-			
production												
Weed	-	-	-	-	-	-	-	-	-			
Management												
Integrated	-	-	-	-	-	-	-	-	-			
Crop												
Management												
Integrated	2	-	-	-	-	-	-	-	2			
Nutrient	_								_			
Management												
Integrated	-	_	-	-	-	-	-	-	-			
Farming												
System												
Mushroom	-	_	-	_	-	-	-	-	-			
cultivation												
Drudgery	-	_	-	-	_	-	-	-	-			
reduction												
Farm	-	-	-	_	_	-	-	-	-			
machineries												
Value	-	-	-	-	-	-	-	-	-			
addition	_	_	_	_	_	_	_	_				
Integrated	1	-	1	_	-	_	_	_	2			
Pest	1	_	1	_	_	_	_	_	2			
Management												
Integrated	_	_	_	_	_	_	_	_	_			
Disease	-	_	-	-	-	-	-	-	-			
Management												
Resource	_	-	-	_	_	_	_	_	_			
	-	_	-	-	-	-	-	-	-			
conservation												
technology												
Small Scale	-	-	-	-	-	-	-	-	-			
income												
generating												
enterprises												
TOTAL	8	1	1	-	-	-	-	-	10			

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.

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Tuber Crops	TOTAL
Varietal Evaluation	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-

Mushroom	_	_	_	_	_	_	_	_	
cultivation	_	_	_	_	_	_	_	-	_
Drudgery	-	-	-	-	-	-	-	-	-
reduction									
Farm	-	-	-	-	-	-	-	-	-
machineries									
Post Harvest	-	-	-	-	-	-	-	-	-
Technology									
Integrated	-	-	-	-	-	-	-	-	-
Pest									
Management									
Integrated	-	-	-	-	-	-	-	-	-
Disease									
Management									
Resource	-	-	-	-	-	-	-	-	-
conservation									
technology									
Small Scale	-	-	-	-	-	-	-	-	-
income									
generating									
enterprises									
TOTAL	-	-	-	-	-	-	-	-	-

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

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

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

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

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

3.2. Achievements on technologies Assessed and Refined

3.2.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient		Integrated nutrient management in rainfed maize	03	03	0.3
Management	Pear millet	Integrated Nutrient Management in pearl millet crop yield under rainfed	03	03	0.3
Varietal Evaluation	Paddy	Assessment of Basmati varieties for yield potential	05	05	0.5

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
	Maize	Assessment of Maize composite.	01	01	0.2
	Oilseed	Assessment of high yielding Gobi Sarson varieties	05	05	0.5
	Oats	Assessment of high yielding Oat varieties for higher biomass	04	01	0.4
	Aonla	Assessment of superior clones of Aonla with respect to survival and establishment	04	04	0.8
	Perennial grasses	Assessment of improved perennial grasses for herbage production under subtropical conditions	03	03	0.3
Integrated Pest	Chickpea	Efficacy of different chemicals for management of gram pod borer.	03	03	0.3
Management	-	-	-	-	-
Integrated Crop	-	-	-	-	-
Management	-	-	-	-	-
Integrated Disease Management	Maize	Maize stem borer management through organic/inorganic plant nutrition	3	3	0.3
	-	-	-	-	-
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					

3.2.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Internet al Nutricity Management	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-
	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop 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 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	-	-	-	-
Disease management	-	-	-	-
Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder	-	-	-	-
Small scale income generating enterprises	-	-	-	-
Total				

3.2.4. Technologies Refined under Livestock and other enterprises

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

B. Technology Assessment

A.1 Trial 1

	Title	:	Assessment of Basmati Varieties For Yield Potential
2.	Problem diagnose/defined	:	Suitability of Basmati Varieties under Jammu condition
3.	Details of technologies selected for assessment/refinement	:	T 1: B-370 T 2: B-103 T 3: B-104 T 4: B-118 T5: B-123 T6: B-138
4.	Source of technology	:	SKAUST-J
5.	Production system thematic area	:	Irrigated cereal based system (Paddy - Wheat)
6.	Thematic area	:	Varietal evaluation
7.	Performance of the	:	Result showed that T2 recorded highest yield (45.0q/h) where as T
	Technology with		5 recorded the lowest (40 q/ha) which was 26.4 $\%$ and 14.6 $\%$
	performance indicators		higher as compared to check (T 1). Over all the no of maturity days ranged from 97-120 days which is about 15-20 days less than T1.
8.	Final recommendation for	:	Basmati varieties B-103, B-104 and B138 performed better and
	micro level situation		recommended for basmati growing area for higher productivity.
9.	Constraints identified and	:	Non availability of labour at the time of maturity
	feedback for research		
10.	Process of farmers	:	Farmers participated from seed to seed in laying out of the OFT.
	participation and their		They fully cooperated in providing feedback and the required data
	reaction		pertaining OFT.

B 1: Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Paddy	Irrigated	Low productivity and late sowing of wheat due to	Assessment of Basmati Varieties For Yield	3	T 1: B-370	Grain Yield B:C ratio	35.6 q/ha 150-155 days to maturity		Farmers satisfied with the yield potential
		late maturity of traditional basmati	Potential		T 2: B-103	Days to maturity	45 q/ha 120-125 days to maturity.	26.4% increase in grain yield as compared to T1 with 30 days earlier maturity	Basmati varieties
					T 3: B-104		43.0q /ha 120-125 days to maturity.	20.8% increase in grain yield as compared to T1 with 30 days earlier maturity	
					T 4: B-118		40.8q /ha 97-105 days to maturity	12.4% increase in grain yield as compared to T1 with 50 days earlier maturity	
					Т5: В-123		40.0q /ha 120-125 days to maturity	14.6% increase in grain yield as compared to T1 with 30 days earlier maturity	

_						±,
				42.0q /ha	18% increase	
				120-125 days	in grain yield	
			T6: B-138	to maturity	as compared	
			10. D-138		to T1 with 30	
					days earlier	
					maturity	

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
Т 1: В-370	35.6 q/ha 150-155 days to maturity	89200	3.52:1
T 2: B-103	45 q/ha 120-125 days to maturity.	122100	4.45:1
T 3: B-104	43.0q /ha 120-125 days to maturity.	115100	4.25:1
T 4: B-118	40.8q /ha 97-105 days to maturity	107400	3.95:1
T5: B-123	40.0q /ha 120-125 days to maturity	104600	3.95:1
T6: B-138	42.0q /ha 120-125 days to maturity	111600	4.15:1

*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

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A.2 Trial 2

1.	Title	:	Assessment of improved perennial grasses for herbage production under subtropical conditions
2.	Problem diagnose/defined	:	Low fodder yield
			Lack of improved perennial grasses
3.	Details of technologies	:	T-1: Farmer practice(<i>Dicanthium</i> spp)
	selected for		T-2:Napier Hybrid (NB-1)
	assessment/refinement		T-3:Setaria (PSS-1)
4.	Source of technology	:	SKUAST-J, CAZRI, IGFRI
5.	Production system thematic	:	Maize-Wheat (Rain-fed)
	area		Paddy-Wheat (Irrigated)
6.	Thematic area	:	Species evaluation
7.	Performance of the	:	Performance of T-2 (Napier Hybrid) and T-3 (Setaria) with
	Technology with performance		respect to green fodder production was considerably high (398
	indicators		q/ha) and (375q/ha) respectively.
8.	Final recommendation for	:	The productivity of green fodder can be increased by adoption
	micro level situation		of perennial grasses viz., Napier and Setaria on the farm bunds
			that will also provide an alternative cut and carry system of
			fodder production to the farmers
9.	Constraints identified and	:	Lack of improved perennial grasses and low adoption their
	feedback for research		cultivation
10.	Process of farmers	:	Farmers response was participatory and actively responded to
	participation and their reaction		the technical guidance provided by the KVK

Photographs of OFT



B 2: Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Perennial grasses	Rain-fed/ Irrigated	Low fodder yield Lack of improved perennial grasses	Assessment of improved perennial grasses for herbage production under subtropical	01	T-1: Farmer practice (<i>Dicanthiums</i> pp) T-2:Napier Hybrid (NB-1)	Herbage Yield Time of availability of green herbage	169 398	Green herbage availability till 3rd week of Oct Green herbage availability till Last week of December	Farmers were satisfied and radially adopted the cultivation of perennial grasses at the bunds of their farm
			conditions		T-3:Setaria (PSS-1)		375	Green herbage availability till1st week of Dec	

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T-1: Farmer practice (<i>Dicanthiumspp</i>)	169 Green herbage availability till 3rd week of Oct	16900	1.69:1
T-2:Napier Hybrid (NB-1)	398 Green herbage availability till Last week of December	29800	2.98:1
T-3:Setaria (PSS-1)	375 Green herbage availability till1st week of Dec	27500	2.75:1

A-3: Trial-3

1.	Title	:	Assessment of high yielding oat varieties for higher biomass
2.	Problem diagnose/defined	:	Low yield and lack of high yielding fodder variety
3.	Details of technologies	:	T1 = Kent (farmers practice)
	selected for		T2= Palampur-1
	assessment/refinement		T3= Sabjar
4.	Source of technology	:	SKUAST-J, CSKVV-Palampur
5.	Production system thematic	:	Maize-Wheat (Rain-fed)
	area		Paddy-Wheat (Irrigated)
6.	Thematic area	:	Varietal evaluation
7.	Performance of the	:	Results revealed that there is 2.6 % increase in
	Technology with		production of fodder for T-2 (Palampur-1) as
	performance indicators		compared to the T-1 with 5-8 days early maturity
			time for the first cut and 4.5 % increase in
			production of fodder as compared to the Kent with 5
-			-8 days early maturity time
8.	Final recommendation for	:	The productivity of fodder can be increased by
	micro level situation		adoption of Sabjar and Palampur varieties which
0			also matures early as compared to the control.
9.	Constraints identified and	:	Lack of improved oat varieties and low adoption of
	feedback for research		oat cultivation
10.	Process of farmers	:	Farmers response was participatory and actively
	participation and their reaction		responded to the technical guidance provided by the KVK
	reaction		



B 3. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Oats				01	T1:Farmers practices (Kent)	Herbage yield No of cuts yays to	324 q/ ha 88-93 days for 1 st cut		Farmers were satisfied with
	Rainfed yield Lack of improved	Lack of improved	Assessment of high yielding oat varieties for higher biomass		T2:Palampur-1		332.5 q/ha 85-90 days for 1 st cut	2.6 % increase in production of fodder as compared to the T-1 with 5- 8 days early maturity time for the first cut	the varieties
		variety			T3:Sabjar	maturity	338.62/ha 84-87days for the 1 st cut	4.5 % increase in production of fodder as compared to the kent with 5 -8 days early maturity time	

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1:Farmers practices (Kent)	324 q/ ha 88-93 days for 1 st cut	26760	2.84
T2:Palampur-1	332.5 q/ha 85-90 days for 1 st cut	27460	2.89
T3:Sabjar	338.6/ha 83-85 days for the 1 st cut	27970	2.92

A.4 Trial 4

Title

- 2. Problem diagnose/defined
- 3. Details of technologies selected for assessment/refinement
- 4. Source of technology
- 5. Production system thematic area
- 6. Thematic area
- Performance of the Technology with performance indicators
- 8. Final recommendation for micro level situation
- 9. Constraints identified and feedback for research
- 10. Process of farmers participation and their reaction

- : Efficacy of different chemicals in management of gram pod borer.
- : Heavy loses due to Gram pod borer.
- : T1- No spray (farmers practice) T2- Larvin75WP @2g/L
 - T3- Indexocarb 14.5 ŠC @ 0.3 ml/L
- : Maize gram rainfed system

SKAUST-J/ PAU

: IPM

:

- : Application of Indexocarb @ 0.3ml/l resulted in increase of yield of gram by 26.5% and reduced pod damage to 8.5% as compared to control which resulted in 32% pod damage.
- : Indexocarb @ 0.3ml/l has resulted in controlling the gram pod borer.
- : Chemical is costly and not easily available.
- : The trials were laid out at farmer's fields with their active participation.



B 4: Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Chicpea	Rainfed	Heavy loses due to	Efficacy of different chemicals	05	T1- no spray	% pod damage	42 % damage	4.6q/ha	Farmers were satisfied with
		gram pod borer	in management of gram pod borer.		T2- larwin 75 WP 2g/l	Yield (q/ha)	25.5% damage	6.7q/ha	both the chemicals.
					T3- Indexocarb 14.5 S C @ 0.3 ml/L		12.5% damage	7.0q/ha	

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1- no spray	4.6q/ha	5800	1.30:1
T2- Larwin 75 WP 1g/l	6.7q/ha	16050	1.77:1
T3- Indexocarb 14.5 <u>S c @ 0.3</u> ml/L	7.0q/ha	17000	1.79:1

A5: Trial-5

1.	Title	:	Assessment of high yielding Gobi Sarson varieties
2.	Problem diagnose/defined	:	Low yield and lack of high yielding gobhi-sarsoon variety
3.	Details of technologies selected for assessment/refinement	:	T1= DGS-1 (farmers practice) T2= RSPN-25 T3= GSC-7
4.	Source of technology	:	SKUAST-J, PAU Ludhiana
5.	Production system thematic area	:	Maize-Wheat (Rainfed) Paddy-Wheat (irrigated)
6.	Thematic area	:	Varietal evaluation
7.	Performance of the Technology with performance indicators	:	Results revealed that there is 25 % increase in production of oilseed crop for T-2 (RSPN-25) as compared to the T-1 and 33.3 % increase in production for T 3 as compared to T-1.
8.	Final recommendation for micro level situation	:	The productivity of oilseed can be increased by adoption of GSC 7 variety
9.	Constraints identified and feedback for research	:	Lack of knowledge about improved varieties.
10.	Process of farmers participation and their reaction	:	Farmers participated actively and responded to the technical guidance provided by the KVK



B 5. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
					T1= DGS-1 (farmers practice)		12.0q/ha		Farmers were satisfied with the varieties
Oats	Rainfed	Low fodder yield Lack of improved variety	01	T2= RSPN-25	Yield B: C ratio	15.0q/ha	25.0% increase in yield as compares to T- 1		
					T3= GSC-7		16.0 q/ha	33.3 % increase in yield as compares to T- 1	

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1:Farmers practices (Kent)	12.0q/ha	30500	2.74:1
T2:Palampur-1	15.0q/ha	41300	3.21:1
T3:Sabjar	16.0 q/ha	45300	3.42:1

A.6 Trial 6

Title

- 2. Problem diagnose/defined
- 3. Details of technologies selected for assessment/refinement
- 4. Source of technology
- 5. Production system thematic area
- 6. Thematic area
- 7. Performance of the Technology with performance indicators
- 8. Final recommendation for micro level situation
- 9. Constraints identified and feedback for research
- 10. Process of farmers participation and their reaction

- : Integrated Nutrient Management in pearl millet crop yield under rainfed
 - Imbalance use of fertilizer
 - T 1: Farmers Practice
 - T 2: Recommended Practice(100 % RDF)
 - T 3: Improved Practice(75 % N Inorganic + 25 % N-VC)
 - SKAUST-J

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- Irrigated cereal based system (Maize Wheat)
- : Integrated Nutrient Management
 - The results at farmers' field revealed that pearl millet crop sown with 75 % N (Inorganic) + 25 % N (Vermicompost) accrued mean grain yield to the tune of 25.7 q/ha which was (4.5 %) higher than yield value (24.6 q/ha) obtained with recommended practice (100 % RFD). The mean grain yield of farmers' practice was 21.3 q/ha.
 - Improved practice registered mean increase of 20.2 % in grain yield over farmers' practice and thus could be an effective option to recommended practice with concomitant 25 % N saving..
- : Non availability of chemical fertilizer in time.
 - Farmers participated from seed to seed in laying out of the OFT. More over they fully cooperated in providing feedback and other data pertaining OFT.



B 6: Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Pearl Millet	Rainfed	Low productivity and	Integrated Nutrient Management	3	T 1: Farmers Practice	Grain Yield	21.3		Farmers satisfied with the
		imbalanced use of fertilizer	in pearlmillet crop yield under rainfed		T 2: Recommended Practice(100 % RDF)	B:C ratio	24.6	T 2 registered mean increase of 15.5 % in grain yield over farmers' practice	INM practice and yield potential
					T 3: Improved Practice(75 % N Inorganic + 25 % N-VC)		25.7	T 3 registered mean increase of 20.2 % in grain yield over farmers' practice	

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T 1: Farmers Practice	21.3	22868	2.54:1
T 2: Recommended Practice(100 % RDF)	24.6	28052	2.76:1
T 3: Improved Practice(75 % N Inorganic + 25 % N-VC)	25.7	29965	2.79:1

A.7 '	Frial 7 Title	:	Assessment of superior clones of Aonla with respect to survival and establishment
2.	Problem diagnose/defined	:	Lack of quality planting material and inferior growing stock
3.	Details of technologies selected for assessment/refinement	:	Local selection Kancan NA-7
4.	Source of technology	:	SKAUST-J/ Dr YSP UH&F SOlan HP
5.	Production system thematic area	:	Maize – Wheat rainfed system
6.	Thematic area	:	Varietal evaluation
7.	Performance of the	:	Clones are under phase of establishment , However after one year clones
	Technology with performance		recorded 63.0 % 66.5 % and 65.5% survival
	indicators		
8.	Final recommendation for	:	
	micro level situation		
9.	Constraints identified and	:	
	feedback for research		
10.	Process of farmers	:	Farmers participated from seed to seed in laying out of the OFT more over
	participation and their reaction		they fully cooperated in providing feed back and other data pertaining
			OFT.



B7: Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Harad	Rainfed	Lack of quality planting material and inferior growing stock	Assessment of superior clones of Aonla with respect to survival and establishment	05	Local selection Kancan NA-7	Survival percentage	63.0 % 66.5 % 65.5%		

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
Local selection	63.0 %	-	
Kancan	66.5 %	-	
NA-7	65.5%	-	-

A.8 Trial 8

Title

- 2. Problem diagnose/defined
- 3. Details of technologies selected for assessment/refinement
- 4. Source of technology
- 5. Production system thematic area
- 6. Thematic area
- 7. Performance of the Technology with performance indicators
- 8. Final recommendation for : micro level situation
- 9. Constraints identified and : feedback for research
- 10. Process of farmers participation and their reaction

- Evaluation of Maize composite Vijay Composite
- : Lack of composite variety
 - T 1: Farmers Practice
 - T 2: Vijay composite

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- : DMR New Delhi, SKUAST-J
- : Irrigated cereal based system (Maize Wheat)
- : Varietal evaluation
- : The results at farmers' field revealed that T-2 recorded 27.6 q/ha grain yield which is 15.9 % more than the Check T-1 (23.8).
- Vijay composite can be recommended for rainfed areas of Jammu district
- Non availability of maize composite.
- : Farmers participated from seed to seed in laying out of the OFT. More over they fully cooperated in providing feedback and other data pertaining OFT.

Vijay composite at farmers field



B 8: Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Maize	Rainfed	Low productivity and non-	Evaluation of Maize	01	T 1: Farmers Practice	Grain Yield	23.8		Farmers satisfied with the
		availability of composite	composite Vijay Composite		T 2: Vijay	B:C ratio	27.6	T 2 registered mean increase of 15.9 % in grain yield over farmers' practice	composite variety

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T 1: Farmers Practice	21.3	16310	1.82:1
T 2: Vijay	24.6	21920	2.10:1

A.9 Trial 9

2. 3.	Title Problem diagnose/defined Details of technologies selected for assessment/refinement	:	Integrated nutrient management in rain-fed maize Imbalance use of fertilizers T 1: Farmers Practice T 2: Recommended Practice 100 % RDF in maize T 3: (FYM @ 10 t ha ⁻¹ + 40 kg N ha ⁻¹ + recommended P and K
4.	Source of technology	:	SKUAST-J
5.	Production system thematic area	:	Rain-fed cereal based system (Maize - Wheat)
6.	Thematic area	:	INM
7.	Performance of the Technology with performance indicators	:	The results of on-farm trials conducted in rainfed areas revealed that maize grain yield ranged from 22.1 to 23.6, 26.6 to 29.5 and 25.8 to 30.1 q/ha with farmers's practice, recommended practice (NPK 60:40:20) and improved practice (FYM @ 10 t ha ⁻¹ + 40 kg N ha ⁻¹ + recommended P and K) respectively. The highest mean grain yield of maize (28.1 q/ha) was obtained with improved practice whereas corresponding lowest yield to the tune of 22.6 kg/ha was recorded in farmer's practice.
8.	Final recommendation for micro level situation	:	Improved practice registered 16 to 28 % increase in grain yield of maize over the farmer's practice with mean percent increase yield of 24% over farmer's practice. Thus improved practice of integrated nutrient management could be a viable option to improve productivity of maize over farmer's practice with concomitant saving of nitrogen through inorganic fertilizer.
9.	Constraints identified and feedback for research	:	Non availability of fertilizers
10.	Process of farmers participation and their reaction	:	Farmers participated from seed to seed in laying out of the OFT. More over they fully cooperated in providing feedback and other data pertaining OFT.



B 9: Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Maize	Rain-fed	Low productivity and	Integrated Nutrient Management	03	T 1: Farmers Practice	Grain Yield	22.6		Farmers satisfied with the
		imbalanced use of fertilizer	in Maize crop yield under rain-fed		T 2: Recommended Practice 100 % RDF in maize	B:C ratio	27.6	T 2 registered mean increase of 22.12 % in grain yield over farmers' practice	composite variety
					T 3: (FYM @ 10 t ha ⁻¹ + 40 kg N ha ⁻¹ + recommended P and K		28.1	T 3 registered mean increase of 24.0 % in grain yield over farmers' practice	

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T 1: Farmers Practice	22.6	18520	1.93:1
T 2: Recommended Practice 100 % RDF in maize	27.6	27020	2.36:1
T 3: (FYM @ 10 t ha^{-1} + 40 kg N ha^{-1} + recommended P and K	28.1	27870	2.40:1

A.10 Trial 10

	Title	:	Maize stem borer management through organic/inorganic plant nutrition				
2.	Problem diagnose/defined	:	Economic loss due to Stem borer				
3.	Details of technologies selected for assessment/refinement		T 1: Farmers Practice T 2: Recommended practice (Carbofuran 3G) T 3: MOP @80kg/ha + <i>Neem cake @ 2q/ha</i> T 4: MOP @80kg/ha				
4.	Source of technology	:	SKUAST-J				
5.	Production system thematic area	:	Rain-fed cereal based system (Maize - Wheat)				
6.	Thematic area	:	IPM				
7.	Performance of the Technology with performance indicators	:	Results revealed reduction in stem borer incidence by 84.28 and 72.08 % with increase in grain yield of 81.04 and 64.72% in T3 and T4 respectively.				
8.	Final recommendation for micro level situation	:	MOP @80kg/ha + Neem cake @ 2q/ha can be recommended for control of maize stem borer				
9.	Constraints identified and feedback for research	:	Non availability of organic inputs.				
10.	Process of farmers participation and their reaction	:	Farmers participated from seed to seed in laying out of the OFT. More over they fully cooperated in providing feedback and other data pertaining OFT.				

B 10: Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters	Data on the Parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Maize	Rainfed	Low productivity and	Integrated Nutrient Management	03	T 1: Farmers Practice	Percent stem borer incidence	24.68 17.77 q/ha		Farmers satisfied with the
		imbalanced use of fertilizer	in Maize crop yield under rainfed	crop yield	T 2: Recommended practice (Carbofuran 3G)	Grain Yield B:C ratio	10.97 23.43q/ha	T 2 registered mean increase of 31.9 % in grain yield over farmers' practice	composite variety
					T 3: MOP @80kg/ha + Neem cake @ 2q/ha		3.88 32.17 q/ha	T 3 registered mean increase of 81 % in grain yield over farmers' practice	
					T 4: MOP @80kg/ha		6.89 29.27q ha	T 4 registered mean increase of 64.7 % in grain yield over farmers' practice	

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T 1: Farmers Practice	24.68 17.77 q/ha	10309	1.52:1

			57
T 2: Recommended practice (Carbofuran 3G)	10.97	20466	2.03:1
	23.43q/ha	20400	2.03.1
T 2: MOD @ 20/kg/ha + Noom agka @ 2 g/hg	3.88	34789	2.75:1
T 3: MOP @80kg/ha + <i>Neem cake</i> @ 2q/ha	32.17 q/ha	54789	2.73.1
T 4. MOD @ POlice/ha	6.89	20860	2.50:1
T 4: MOP @80kg/ha	29.27q ha	29869	2.30:1

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PART 4 - FRONTLINE DEMONSTRATIONS

4.A. Summary	of FLDs impleme	inted during 2017-18

SI. No.	Category	Farming Situation	Season and	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated		rea (ha)	d	o. of farm emonstrat	ion	Reasons for shortfall in
		Suuation	Year					Demonstratea	Proposed	Actual	SC/ST	Others	Total	achievement
А	Oilseeds													-
		Irrigated	Rabi	Mustard	RSPR-01		Varietal	Improved		1.0	04	09	13	-
			2017-18		PR-20		evaluation	variety		0.8	09	04	13	-
1					PR-19				4.0	3.2	12	27	39	
				Gobi	DGS-1		_			3.0	24	03	27	-
				Sarson	RSPN-25					1.0	03	05	08	-
_				Toria	RSPT-01					1.0	01	07	08	-
В	Pulses							_						
1		Rain-ed	Rabi 2017-18	Chickpea	GNG-1581		Varietal	Improved	16.5	7.725	34	16	110	-
2				Chickpea	PG-186		evaluation	variety		0.45	01	07	08	
3			Kharif 2017	Mash	PU-31				10.65	10.65	19	52	71	
С	Cereals													
1					B-370				8.0	10.0	01	42	43	-
2					Pusa 1612		Varietal		-	4.0	04	23	27	-
3		Irrigated	Kharif 2017	Paddy	Pusa 1592		evaluation	Improved variety	-	0.8	01	02	03	-
4	-				Pusa B-1				-	2.5	03	06	09	-
	-				Pusa B-1 Double		Varietal				1			-
5		Rainfed	Kharif 2017	Maize		Dekalb	evaluation	Improved variety	08	10.5	21	40	61	-
6		Irrigated	Rabi 2017-18	Wheat	HD- 3086		Varietal evaluation	Improved variety	8.0	10.0 0.4	02	40 03	42 03	-
D	Millets													
E	Vegetables	Irrigated	Kharif 2017- 18	Okra	Siyali special		Varietal evaluation	Improved varity	0.1	0.1	-	02	02	
			Rabi 2017-18	Knoll khol	G-40		Varietal evaluation	Improved varity	0.1	0.1	-	02	02	
				Pea	PP42, PPM		Varietal evaluation	Improved variety	0.1	0.1	-	02	02	
				Palak	All green		Varietal evaluation	Improved Variety	0.1	0.1	02	-	02	
F	Flowers													
G	Fruit													
Н	Spices and condiments	-	-	-	-	-	-	-	-	-	-	-	-	-
Ι	Medicinal and aromatic	Raifed	Kharif 2017											
1		-	-	Harad Aonla	JH 1 Kanchan NA-7	-	Clonal demonstration	Superior clones	-	10.0	32	98	130	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
J	Fodder													-

SI.		Farming	Season					Technology	Ai	rea (ha)		o. of farm		39 Reasons for
No.	Category	Situation	and Year	Crop	Variety/ breed	Hybrid	Thematic area	Demonstrated	Proposed	Actual	SC/ST	emonstrat	on Total	shortfall in achievement
1		Irrigated	2017-18	Berseem	Mascavi	-	Varietal Evaluation	Improved Variety	-	4.0	27	19	46	-
2		Rainfed	2017-18	Oats	Sabzar	-	-	-		2.6	11	21	32	-
3					Kent	-	-	-	-	0.5	05	-	05	
	Dairy	-	-	-										-
		-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
	Poultry	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
	Piggery	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
	Sheep and goat	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
	Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
	Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
	IFS	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
	Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
	Implements	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-

4.A. 1. Soil fertility status of FLDs plots during 2017-18

			g	Crop	Variety/ breed	Hybrid			Status of soil (Kg/Ha)			Previous crop grown
Sl.	Catagory	Farming	Season and	Crop	breeu		Thematic area	Technology	Ν	Р	K	
No.	Category	Situation	Year				Thematic area	Demonstrated				
			1007									
A	Oilseeds											
1		Irrigated	Rabi 2017-	Mustard	RSPR-01		Varietal evaluation	Improved variety	135.05- 257.15	14-39	45-230	Paddy/Vegetables
2		Irrigated/	18		PR-20							

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Sl. No.	Category	Farming Situation	Season and	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Status of soil (Kg/Ha)			Previous crop grown
110.	-		Year		breeu			Demonstrateu	Ν	Р	K	
	-	Rainfed	_		DD 10							
3	-	T 1	_	C.I.	PR-19							
4	-	Irrigated	_	Gobi Sarson	DGS-1 RSPN-25							
5		Irrigated	_	Toria	RSPN-25 RSPT-01							
6		Irrigated/ Rainfed		1 011a	KSP1-01							
В	Pulses											
1		Rainfed	Rabi 2017-	Chickpea	GNG- 1581		Varietal evaluation	Improved variety	160-563	29.3-46.8	197-287	Maize/Paddy
2			18		PG-186				160-563	29.3-46.8	197-287	Maize/Paddy
3			Kharif 2017	Mash	PU-31				160-563	29.3-46.8	197-287	Maize/Paddy
С	Cereals											
1		Irrigated	Kharif 2017		B-370		Varietal		298.85-			Wheat/Vegetables
2				Paddy	Pusa 1612		evaluation	Improved variety	604.65	25-40	118-266	wheat/vegetables
3					Pusa 1592		-					
4			Kharif		Pusa B-1	Double	Varietal					
5		Rainfed	2017	Maize	UD 2007	Double Dekalb	evaluation	Improved variety	160-563	29.3-46.8	197-287	Wheat/Oilseed/Pulses
7		Irrigated	Rabi 2017-18	Wheat	HD- 3086		Varietal evaluation	Improved variety	298.85- 604.65	25-40	118-266	Paddy/Maize
D	Millets											-
E	Vegetables											
F	Flowers											-
G	Fruit											-
Н	Spices and condiments											
I	Medicinal and aromatic											
1		-	-	Harad Aonla	JH 1Kanchan NA-7	-	Clonal demonstration	Superior clones	145-570	13-38	75-223	
		-	-	-	-	-	-	-	-			-
J	Fodder		2017						200.05			D 11 (17 - 11
1		Irrigated	2017- 18	Berseem	Mascavi	-	Varietal Evaluation	Improved Variety	298.85- 604.65	25-40	118-266	Paddy/Vegetables
2		Rainfed	2017- 18	Oats	Sabzar	-	-	-	298.85- 604.65	25-40	118-266	Paddy/Vegetables
3	Apiculture	-	-		Kent		-					
	Apiculture	-	-	-	-	-	-	-	-		+	-
		-	-	-	-	-	-	-	1		1	-
	Implements	-	-	-	-	-	-	-				-
	Button mushroom	-	-	-	-	-	-	-	-	-	-	-

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B. Results of Frontline Demonstrations

4.B.1. Crops

4.D.I. U						1										r	_		-
	Name of the		Hybri	Eamina	No.	4 1105		Yield	(q/ha)		%	*Eco	nomics of (Rs./		ration	*	Economic (Rs./		ck
Crop	technology demonstrat ed	Variety	d d	Farming situation	of Dem o.	Area (ha)		Demo		Chec k	Increas e	Gros s Cost	Gross Retur n	Net Retur n	** BCR	Gros s Cost	Gross Retur n	Net Retur n	** BCR
Oilseed							Н	L	Α										
	Improved variety	RSPR- 01		Irrigated	13	1.0	16.5	14.0	14.8	8.6	72	1840	59200	4080	3.21:	1780	34400	1660	1.93:
Mustar d		PR-20		Irrigated/ Rainfed	13	0.8	14.0	5.6	9.86	8.6	14.7	0 1840 0	39440	0 2104 0	$ \begin{array}{c} 1 \\ 2.14: \\ 1 \end{array} $	0 1780 0	34400	0 1660 0	1 1.93: 1
		PR-19			39	3.2	13.9	11.8	11.9	8.8	35.2	1840 0	47600	2920 0	2.58: 1	1780 0	35200	1740 0	1.97: 1
Gobi Sarson		DGS-1		Irrigated	27	3.0	12.4	9.8	10.6	8.9	19	1840 0	42400	2400 0	2.30: 1	1760 0	35600	1800 0	2.02: 1
		RSPN-25		Irrigated	08	1.0	15.6	13.8	14.6	8.9	64	1840 0	58400	4000 0	2.17: 1	1760 0	35600	1800 0	2.02: 1
Toria		RSPT-01		Irrigated/ Rainfed	08	1.0	6.0	4.7	5.4	4.6	17.4	1490 0	21600	6700	1.45: 1	1450 0	18400	3900	1.27: 1
Pulses																			
Chick Pea	Improved variety	GNG- 1581		Irrigated/ Rainfed	110	7.72 5	8.0	3.9	5.9	3.9	51	2150 0	32450	1095 0	1.50: 1	1950 0	21450	1950	1.1:1
	IPM	PG- 186		Irrigated	08	0.45	8.2	7.0	6.7	5.5	21.8	2150 0	36850	1535 0	1.71: 1	1950 0	30250	1075 0	1.55: 1
Mash	Improved variety Bio inoculant	PU-31		Irrigated/ Rainfed	71	10.6 5	8.2	4.5	5.9	3.9	51.2	1720 0	41300	2410 0	2.40: 1	1650 0	27300	1080 0	1.66: 1
Cereals																			
Paddy	Improved variety, POP	B-370		Irrigated	43	1.0	38.0	30.0	35.6	30.0	18.5	3540 0	12460 0	8920 0	3.52: 1	3380 0	10500 0	7120 0	3.11: 1
		Pusa 1612			27	4.0	56.0	40.0	46.6 3	38.0	22.7	3580 0	11191 2	7611 2	3.13: 1	3580 0	95000	5920 0	2.65: 1
		Pusa 1592			3	0.8	50.8	47.0	48.6	38.0	27.9	3580 0	12636 0	9050 0	3.53: 1	3580 0	95000	5920 0	2.65: 1
		Pusa B-1			9	2.5	45.0	40.0	43.1	38.0	13.4	3580 0	10344 0	6764 0	2.89: 1	3580 0	95000	5920 0	2.65: 1
Maize	Improved variety Line sowing		DD		61	10.5	32.0	24.0	28.8 2	24.0	20.1	1990 0	46868	2696 8	2.36: 1	1810 0	39000	2090 0	2.16: 1

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																			ΤZ
	Name of the		Hybri	Farming	No.	Area		Yield	(q/ha)		%	*Eco	nomics of (Rs.)		ration	*	Economic (Rs.)		ck
Crop	technology demonstrat ed	Variety	d	situation	of Dem o.	(ha)		Demo		Chec k	Increas e	Gros s Cost	Gross Retur n	Net Retur n	** BCR	Gros s Cost	Gross Retur n	Net Retur n	** BCR
Wheat	Improved variety Line sowing	HD- 3086		Irrigated	42	10.0	42.0	32.0	37.4	32.0	16.9	2320 0	65450	4225 0	2.82: 1	2190 0	56000	3410 0	2.56: 1
Okra	Improved variety	Siyali special		Irrigated	4	0.1	65	52.0	58.5	52.0	12.5	3020 0	87750	5755 0	2.9:1	2500 0	52000	2700 0	1.8:1
Knol khol	Improved variety	G 40		Irrigated	4	0.1	350	275. 0	300. 0	250	16.66	4500 0	10000 0	5500 0	2.2:1	4000 0	80000	4000 0	2.0:1
Pea	Improved variety	PP42, PPM		Irrigated	4	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Palak	Improved variety	All green		Irrigated	4	0.1	60.0 0	50.0 0	55.0	45.0	22.0	4000 0	75000	3500 0	2.6:1	3500 0	60000	2500 0	2.1:1
Medicin al and aromatic	Superior clones			Rainfed	130	10.0					1	Under ph	ase of est	ablishme	ent				
Fodder																			
Berseem	-	Masca vi	-	Irrigated	46	4.0	710	601	668. 4	640	4.43	3850 0	80280	4170 8	2.08: 1	3850 0	76800	3830 0	1.99: 1
Oats	Improved variety	Sabzar	-	Rainfed/Irrigat	32	2.6	345	285	289. 5	240	20.6	1890 0	44231	2523 1	2.34: 1	1890 0	36668	1766 8	1.94: 1
		Kent		ed	5	0.5	295	285	289. 8	240	20.6	1890 0	44050	2515 0	2.33: 1	1890 0	36668	1766 8	1.94: 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 technol	ogy demonstrated	
Crop	Technology to be demonstrated	Variety/ Hybrid	Parameter with unit	Demo	Check
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

4.B.2. Livestock and related enterprises

Type of	Name of the	Bree	No. of	No. of		Yiel	ld (q/	ha)	%	*Ecor	nomics of Rs./1			*	Economic (Rs./i	s of check unit)	
livestoc k	technology demonstrate d	d d	Dem 0	Unit s		Demo	2	Chec k if any	Increas e	Gros s Cost	Gross Retur n	Net Retur n	** BC R	Gros s Cost	Gross Retur n	Net Retur n	** BC R
					Η	L	Α										
Dairy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rabbitry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pigerry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sheep and goat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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

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

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

4. B.3. Fisheries

Type of	Name of the	Breed	No.	Units/		Yie	ld (q/	ha)	%		nomics of Rs./unit) of		tion			rs of check r (Rs./m2)	
Breed	technology	Бгееа	of	Area (m^2)		Demo		Check	Increase	Gross	Gross	Net	**	Gross	Gross	Net	**
	demonstrated		Demo	(<i>m</i> -)				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 relation to technology demonstrated									
Parameter with unit	Demo	Check if any								

4.B.4. Other enterprises

Endomin	Name of the	Variety/	No.	Units/		Yield	d (q/ha	ı)	%			^e demonstr or (Rs./m2				s of check r (Rs./m2)	
Enterprise	technology demonstrated	species	of Demo	Area {m ² }		Demo		Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	А										
Button																	
mushroom																	1
Dhingri	Round the year mushroom cultivation	Oyster	17	20	0.3 75	0.2	0.3	-	-	700	2200	1500	3.14:1	-	-	-	-
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 demonstratedParameter with unitDemoLocal								
Parameter with unit	Demo	Local						
-	-	-						

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	8	401	
2	Farmers Training	15	362	
3	Media coverage	8		
4	Training for extension functionaries	-		
5	Others (Extension activities)	8	613	

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

A) ON Can										<u>.</u>	
Thematic area	No. of										
	courses		Others			SC/ST			Grand Tota	1	
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
(A) Farmers &											
Farm Women											
I Crop Production											
Weed Management											
Resource	1	19	0	19	5	0	5	24	0	24	
Conservation											
Technologies											
Cropping Systems	2	29	1	30	0	0	0	29	1	30	
Crop Diversification											
Integrated Farming											
Water management											
Seed production											
Nursery	1	11	0	11	3	0	3	14	0	14	
management											
Integrated Crop											
Management											
Fodder production											
Production of											
organic inputs											
II Horticulture											
a) Vegetable Crops											
Production of low											
volume and high											
value crops											
Off-season											
vegetables											
Nursery raising											
Exotic vegetables											
like Broccoli											
Export potential											
vegetables											
Grading and											
standardization											
Protective											
cultivation (Green											
Houses, Shade Net etc.)											
b) Fruits											
Training and											
Pruning											
Layout and											
Management of											
Orchards											
Cultivation of Fruit		1	1	1						İ	
Management of				1							
young											
plants/orchards											
Rejuvenation of old											
orchards											
Export potential											
fruits											

Migroirrigation	
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 Provide and the second sec	
Processing and	
value addition	
e) Tuber crops	
Production and	
Management	
technology	
Processing and	
value addition	
f) Spices	
Production and	
Management	
technology	
Processing and	
value addition	
g) Medicinal and	
Aromatic Plants	
Nursery	
management	
Production and	
management	
technology	
Post harvest	
technology and	
value addition	
III Soil Health and	
Fertility	
Management	
Soil fertility	
management	
Soil and Water	
Conservation	
Integrated Nutrient	
Management	
Production and use	
of organic inputs	
Management of	
Problematic soils	
Micro nutrient	
deficiency in crops	
	1

Efficiency	1			1						
Efficiency			_							
Soil and Water										
Testing										
IV Livestock										
Production and										
Management										
Dairy Management										
Poultry	1	33	0	33	8	0	8	41	0	41
Management										
Piggery										
Management										
Rabbit Management										
Disease										
Management										
Feed management										
Production of										
quality animal										
products										
V Home Science/										
Women										
empowerment										
Household food		0	0	0	2	26	28	2	26	28
security by kitchen	_									
gardening and	1									
nutrition gardening										
Design and										
development of										
low/minimum cost										
diet										
Designing and		0	0	0	0	17	17	0	17	17
development for		Ŭ	0	Ū	0	17	1,	Ū	17	17
high nutrient	1									
efficiency diet										
Minimization of										
nutrient loss in										
processing										
Gender										
mainstreaming										
through SHGs										
Storage loss					<u> </u>					
minimization										
techniques										
Value addition										
Income generation										
activities for										
empowerment of										
rural Women										
Location specific										
drudgery reduction										
technologies										
Rural Crafts										
Women and child	<u> </u>				+					
care VI Agril.										
v i Agrii.										
Engineering										
Installation and										
maintenance of										
micro irrigation										

				1		-	1	
systems								
Use of Plastics in								
farming practices								
Production of small								
tools and								
implements								
Repair and								
maintenance of farm								
machinery and								
implements								
Small scale								
processing and								
value addition								
Post Harvest								
Technology								
VII Plant								
Protection								
Integrated Pest								
Management								
Integrated Disease								
Management								
Bio-control of pests								
and diseases								
Production of bio								
control agents and								
bio pesticides								
VIII Fisheries								
Integrated fish								
farming								
Carp breeding and								
hatchery								
management								
Carp fry and								
fingerling rearing								
Composite fish								
culture								
Hatchery								
management and culture of								
freshwater prawn								
Breeding and								
culture of								
ornamental fishes								
Portable plastic carp								
hatchery								
Pen culture of fish								
and prawn								
Shrimp farming								
Edible oyster								
farming								
Pearl culture								
Fish processing and								
value addition								
IX Production of								
Inputs at site								
Seed Production								
	 				-			

	r							1		
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		19	0	19	2	0	2	21	0	21
Management of	1		-			-			-	
SHGs										
	1									
Mobilization of										
Mobilization of social capital										
Mobilization of social capital Entrepreneurial										
Mobilization of social capital Entrepreneurial development of										
Mobilization of social capital Entrepreneurial development of farmers/youths										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems	8			112	20		63	131		175
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL	8	111		112	20	43	63	131	44	175
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL	8			112	20	43	63	131	44	175
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL YOUTH	8									
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL YOUTH Mushroom	8	1111		112	20	43	63	131	44	175
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL YOUTH Mushroom Production										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs										
Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Farming Systems TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of										

						- I			1 -	
Planting material	2	17	1	18	6	1	7	23	2	25
production										
Vermi-culture										
Sericulture										
Protected										
cultivation of										
vegetable crops										
Commercial fruit										
production										
Repair and										
maintenance of farm										
machinery and										
implements										
Nursery										
Management of										
Horticulture crops										
Training and										
pruning of orchards										
Value addition										
Production of										
quality animal										
products										
Dairying										
Sheep and goat										
rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental										
fisheries										
Para vets										
Para extension										
workers										
Composite fish										
culture										
Freshwater prawn										
culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and										
processing										
technology										
Fry and fingerling										
rearing										
Small scale	1	0	0	0	0	22	22	0	22	22
processing	1									
Post Harvest										
Technology										
Tailoring and	1	0	0	0	2	22	24	2	22	24
Stitching	1									
Rural Crafts	1	0	0	0	0	26	26	0	26	26
TOTAL	6	17	5	22	8	84	92	25	89	114
(C) Extension										
Personnel										
Productivity										
enhancement in										

50

field crops										
Integrated Pest										
Management										
Integrated Nutrient										
management										
Rejuvenation of old										
orchards										
Protected		35	0	35	0	0	0	35	0	35
cultivation	2		-			-	Ĩ		-	
technology										
Formation and										
Management of										
SHGs										
Group Dynamics										
and farmers										
organization										
Information										
networking among										
farmers										
Capacity building		21	0	21	0	0	0	21	0	21
for ICT application	1	21	Ŭ	21	Ū	Ū	0	21	Ŭ	21
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		0	22	22	0	0	0	0	22	22
	1	U	22	22	0	0	U	U	22	22
care Low cost and		0	23	23	0	0	0	0	23	23
nutrient efficient	1	U	23	23	U	U	0	0	25	23
diet designing	1									
Production and use		0	0	0	25	5	30	25	5	30
of organic inputs	1	0	U	0	23	5	30	23	5	50
Gender										
mainstreaming										
through SHGs	5	50	15	101	0	0	0	50	15	101
TOTAL	3	56	45	101	0	0	0	56	45	101

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										
Weed Management										
Resource										
Conservation										
Technologies										
Cropping Systems	3	69	1	70	10	0	10	79	1	80
Crop Diversification										

T 1 T	1								0.1	
Integrated Farming	1	2	0	2	0	24	24	2	24	26
Water management		_								
Seed production										
Nursery	1	10	7	17	1	8	9	11	15	26
management										
Integrated Crop										
Management										
Fodder production										
Production of										
organic inputs										
II Horticulture										
a) Vegetable Crops										
Production of low	2	20	0	20	24	6	30	44	6	50
volume and high	2	20	Ū	20	21	0	50		Ũ	50
volume and mgn value crops										
Off-season										
vegetables										
				+	+					
Nursery raising										
Exotic vegetables		1								
like Broccoli		+		-	+		}			
Export potential										
vegetables										
Grading and										
standardization										
Protective										
cultivation (Green										
Houses, Shade Net										
etc.)										
b) Fruits			_							
Training and										
Pruning										
Layout and										
Management of										
Orchards										
Cultivation of Fruit										
Management of										
young										
plants/orchards										
Rejuvenation of old										
orchards										
Export potential										
fruits										
Micro irrigation										
systems of orchards		1								
Plant propagation										
techniques		1								
c) Ornamental										
Plants										
Nursery	2	29	5	34	4	0	4	34	4	38
Management		1								
Management of					1	1		1		
potted plants		1								
Export potential of					1					
ornamental plants										
Propagation										
techniques of		1								
Ornamental Plants		1								
d) Plantation crops					1					
u) i fantation crops	l	1	1	1	1	1	1	L	1	L

		1	I	1	1	I	1		I	
Production and										
Management										
technology										
Processing and										
value addition										
e) Tuber crops										
Production and										
Management										
technology										
Processing and										
value addition										
f) Spices										
Production and										
Management										
technology										
Processing and										
value addition										
g) Medicinal and										
Aromatic Plants										
Nursery										
management										
Production and										
management										
technology										
Post harvest										
technology and value addition										
III Soil Health and										
Fertility										
Management										
Soil fertility										
management										
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										
Dairy Management										
Poultry										
Management										
Piggery Management										
Rabbit Management		15	0	15	12	0	12	20	0	29
Disease	1	15	0	15	13	0	13	28	0	28
Management				l					l	

Feed management										
Production of										
quality animal										
products										
V Home		10	34	44	18	125	143	28	159	187
Science/Women	7									
empowerment										
Household food		0	0	0	0	22	22	0	22	22
security by kitchen	1									
gardening and	1									
nutrition gardening	ļ	_								
Design and		5	2	7	13	2	15	18	4	22
development of low/minimum cost	1									
diet										
Designing and										
development for										
high nutrient										
efficiency diet										
Minimization of		5	32	37	2	17	19	7	49	56
nutrient loss in	2									
processing	ļ									
Gender										
mainstreaming										
through SHGs		-						_		
Storage loss minimization										
techniques										
Value addition	1	0	0	0	1	20	21	1	20	21
Income generation	-	0	0	0	0	38	38	0	38	38
activities for		Ũ	Ũ	Ŭ	Ũ	20	20	0	20	00
empowerment of	1									
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	<u> </u>									
processing and										
value addition										
	·				1					1

						-		-		
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		23	0	23	7	0	7	30	0	30
Management of	1									
SHGs										
Mobilization of		82	6	84	19	2	21	101	8	109
social capital	6									
Entrepreneurial		13	0	13	9	0	9	22	0	22
development of	1									
farmers/youths										
WTO and IPR										
issues										
XI Agro-forestry										
Production		106	0	106	80	13	93	186	13	199
	9	100	0	100	80	15	95	180	15	199
technologies										
Nursery										
management		25	0	25	11	0	11	26	0	26
Integrated Farming	1	25	0	25	11	0	11	36	0	36
Systems	25	200	52	4.4.1	224	100	250	(12	100	793
TOTAL	35	389	52	441	224	128	352	613	180	/93
(B) RURAL YOUTH										
Mushroom										
Production			_		-				_	
Bee-keeping					_					
Integrated farming										
Seed production								_		
Production of										
organic inputs										
Integrated Farming										
Planting material										
production										
Vermi-culture										
Sericulture										
Protected										
cultivation of										
vegetable crops										
Commercial fruit										
production										
Repair and										
maintenance of farm										
machinery and										
implements										
1		1		1	1	1		1	1	1

Nursery										
Management of										
Horticulture crops										
Training and										
pruning of orchards										
Value addition										
Production of										
quality animal										
products										
Dairying										
Sheep and goat										
rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental							İ			
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		1		1	1			1		
rearing										
Small scale										
processing										
Post Harvest										
Technology										
Tailoring and										
Stitching										
Rural Crafts										
TOTAL										
(C) Extension										
Personnel										
Productivity										
enhancement in										
field crops										
Integrated Pest		40	10	50	0	0	0	40	10	50
Management	1		10		, s		Ŭ		10	~~
Integrated Nutrient										
management										
Rejuvenation of old										
orchards										
Protected										
cultivation										
technology										
Formation and										
Management of										
SHGs										

Group Dynamics										
and farmers										
organization										
Information										
networking among										
farmers										
Capacity building										
for ICT application										
Care and										
maintenance of farm										
machinery and										
implements										
WTO and IPR										
issues										
Management in										
farm animals										
Livestock feed and										
fodder production										
Household food										
security										
Women and Child										
care										
Low cost and										
nutrient efficient										
diet designing										
Production and use										
of organic inputs										
Gender										
mainstreaming										
through SHGs										
TOTAL	1	40	10	50	0	0	0	40	10	50

C) Consolidated table (ON and OFF Campus)

Thematic area	No. of	Participants								
	courses		Others			SC/ST			Grand Tota	.1
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers &										
Farm Women										
I Crop Production										
Weed Management										
Resource	1	19	0	19	5	0	5	24	0	24
Conservation										
Technologies										
Cropping Systems	5	98	2	100	10	0	10	108	2	110
Crop Diversification										
Integrated Farming	1	2	0	2	0	24	24	2	24	26
Water management										
Seed production										
Nursery	2	21	7	28	12	11	23	33	18	51
management										
Integrated Crop										
Management										
Fodder production										
Production of										
organic inputs										
II Horticulture										
a) Vegetable Crops										

		T		1		I		1	I	
Production of low	2	20	0	20	24	6	30	44	6	50
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										
Layout and										
Management of										
Orchards										
Cultivation of Fruit										
Management of		İ								
young										
plants/orchards										
Rejuvenation of old										
orchards										
Export potential										
fruits										
Micro irrigation										
systems of orchards										
Plant propagation										
techniques										
c) Ornamental										
Plants										
Nursery	2	29	5	34	4	0	4	34	4	38
Management										
Management of										
potted plants										
Export potential of										
ornamental plants										
Propagation										
techniques of										
Ornamental Plants										
d) Plantation crops		1	1							
Production and										
Management										
technology										
Drocossing and			1	+	-					
Processing and										
value addition		ł	ł							
e) Tuber crops										
Production and										
Management										
technology										
Processing and										
value addition										
f) Spices										
Production and										
·						•			•	

	-	-			-			-	-	
Management										
technology										
Processing and										
value addition										
g) Medicinal and										
Aromatic Plants										
Nursery										
management Production and										
management										
technology										
Post harvest										
technology and										
value addition										
III Soil Health and										
Fertility										
Management										
Soil fertility										
management			1							
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										
Dairy Management										
	1	22	0	22	0	0	0	4.1	0	4.1
Poultry	1	33	0	33	8	0	8	41	0	41
Management										
Piggery			1							
Management										
Rabbit Management			1	<u> </u>						
Disease	1	15	0	15	13	0	13	28	0	28
Management										
Feed management										
Production of										
quality animal			1							
products										
V Home										
Science/Women										
empowerment										
Household food		0	0	0	2	48	50	2	48	50
security by kitchen		0	U	0	2	+0	50	2	40	50
	2		1							
gardening and			1							
nutrition gardening	1	5	2	7	12	2	15	10	4	22
Design and	1	5	2	7	13	2	15	18	4	22

		-								
development of										
low/minimum cost										
diet										
Designing and		0	0	0	0	17	17	0	17	17
development for										
high nutrient	1									
efficiency diet										
Minimization of		5	32	37	2	17	19	7	49	56
nutrient loss in	2	5	52	57	2	17	17	/	T 2	50
	2									
processing										
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques										
Value addition	1	0	0	0	1	20	21	1	20	21
Income generation		0	0	0	0	38	38	0	38	38
activities for	1								1	
empowerment of	1								1	
rural Women										
Location specific		1						1		
drudgery reduction		1						1		
technologies									1	
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									1	
maintenance of farm		1						1		
machinery and									1	
implements										
Small scale		1						1		
processing and									1	
value addition										
Post Harvest									1	
Technology										
VII Plant										
Protection										
Integrated Pest									+	
Management									1	
Integrated Disease										
Management									1	
Bio-control of pests										
and diseases									1	
Production of bio						+			1	1
control agents and		1						1		
control agents and		1						1	1	1

1.1	, 			[[
bio pesticides			 		-			
VIII Fisheries								
Integrated fish								
farming								
Carp breeding and								
hatchery								
management								
Carp fry and								
fingerling rearing								
Composite fish								
culture								
Hatchery								
management and								
culture of								
freshwater prawn								
Breeding and								
culture of								
ornamental fishes								
Portable plastic carp								
hatchery								
Pen culture of fish								
and prawn								
Shrimp farming								
Edible oyster								
farming								
Pearl culture								
Fish processing and								
value addition								
IX Production of								
Inputs at site								
Seed Production								
Planting material								
production								
Bio-agents								
production								
Bio-pesticides								
production								
Bio-fertilizer								
production								
Vermi-compost								
production								
Organic manures								
production								
Production of fry								
and fingerlings								
Production of Bee-								
colonies and wax								
sheets								
Small tools and								
implements								
Production of	1							
livestock feed and								
fodder								
Production of Fish	+							
feed								
X Capacity								
Building and								
Dunung anu	L	l						

Group Dynamics			1							
Leadership										
development										
Group dynamics		_							-	
Formation and		42	0	42	9	0	9	51	0	51
	2	42	0	42	9	0	9	51	0	51
Management of SHGs	2									
Mobilization of		82	(88	19	2	21	101	8	109
social capital	6	82	6	88	19	Z	21	101	8	109
Entrepreneurial		13	0	13	9	0	9	22	0	22
development of	1	15	0	15	9	0	9	ZZ	0	22
	1									
farmers/youths WTO and IPR										
issues										
XI Agro-forestry										
Production	9	106	0	106	80	13	93	186	13	199
technologies)									
Nursery										
management										
Integrated Farming	1	25	0	25	11	0	11	36	0	36
Systems	1									
TOTAL	41	500	53	553	244	171	415	744	224	968
(B) RURAL										
YOUTH										
Mushroom	1	0	4	4	0	13	13	0	17	17
Production	1									
Bee-keeping										
Integrated farming										
Seed production										
Production of										
organic inputs										
Integrated Farming										
Planting material	2	17	1	18	6	1	7	23	2	25
production	Z									
Vermi-culture										
Sericulture										
Protected										
cultivation of										
vegetable crops										
Commercial fruit										
production										
Repair and										
maintenance of farm										
machinery and										
implements										
Nursery										
Management of										
Horticulture crops										
Training and										
pruning of orchards										
Value addition					1	1			1	
Production of		1			1			1	1	
quality animal										
products										
Dairying					1	1			1	
Sheep and goat					1	1			1	
rearing										
Quail farming		1			1			1	1	
				t	1t	1	I	1	1	

Di		-		1		- T	-			
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		1								
Fry and fingerling										
rearing										
Small scale		0	0	0	0	22	22	0	22	22
	1	U	0	U	U	22	22	U	22	
processing										
Post Harvest										
Technology										
Tailoring and	1	0	0	0	2	22	24	2	22	24
Stitching	1									
Rural Crafts	1	0	0	0	0	26	26	0	26	26
TOTAL	6	17	5	22	8	84	92	25	89	114
(C) Extension										
Personnel										
Productivity										
Productivity enhancement in										
enhancement in										
enhancement in field crops		40	10	50	0	0	0	40	10	50
enhancement in field crops Integrated Pest	1	40	10	50	0	0	0	40	10	50
enhancement in field crops Integrated Pest Management	1	40	10	50	0	0	0	40	10	50
enhancement in field crops Integrated Pest Management Integrated Nutrient	1	40	10	50	0	0	0	40	10	50
enhancement in field crops Integrated Pest Management Integrated Nutrient management	1	40	10	50	0	0	0	40	10	50
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old	1	40	10	50	0	0	0	40	10	50
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old orchards	1									
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old orchards Protected		40	10 10 0	50	0	0	0	40	10 10 0	50
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old orchards Protected cultivation	1									
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old orchards Protected cultivation										
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology										
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and										
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of										
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs										
enhancement in field crops Integrated Pest Management Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics										
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										
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										
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										
enhancement in field cropsIntegrated PestManagementIntegrated Nutrient managementRejuvenation of old orchardsProtected cultivation technologyFormation and Management of SHGsGroup Dynamics and farmers organizationInformation networking among										
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		35	0	35	0	0	0	35	0	35
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	2									
enhancement in field cropsIntegrated PestManagementIntegrated Nutrient managementRejuvenation of old orchardsProtected cultivation technologyFormation and Management of SHGsGroup Dynamics and farmers organizationInformation networking among farmersCapacity building for ICT application		35	0	35	0	0	0	35	0	35
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	2	35	0	35	0	0	0	35	0	35
enhancement in field cropsIntegrated PestManagementIntegrated Nutrient managementRejuvenation of old orchardsProtected cultivation technologyFormation and Management of SHGsGroup Dynamics and farmers organizationInformation networking among farmersCapacity building for ICT application	2	35	0	35	0	0	0	35	0	35
enhancement in field cropsIntegrated PestManagementIntegrated Nutrient managementRejuvenation of old orchardsProtected cultivation technologyFormation and Management of SHGsGroup Dynamics and farmers organizationInformation networking among farmersCapacity building for ICT applicationCare and maintenance of farm	2	35	0	35	0	0	0	35	0	35
enhancement in field cropsIntegrated PestManagementIntegrated Nutrient managementRejuvenation of old orchardsProtected cultivation technologyFormation and Management of SHGsGroup Dynamics and farmers organizationInformation networking among farmersCapacity building for ICT applicationCare and maintenance of farm machinery and	2	35	0	35	0	0	0	35	0	35
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	2	35	0	35	0	0	0	35	0	35

issues										
Management in										
farm animals										
Livestock feed and										
fodder production										
Household food										
security										
Women and Child	1	0	22	22	0	0	0	0	22	22
care	1									
Low cost and		0	23	23	0	0	0	0	23	23
nutrient efficient	1									
diet designing										
Production and use	1	0	0	0	25	5	30	25	5	30
of organic inputs	1									
Gender										
mainstreaming										
through SHGs										
TOTAL	7	96	55	151	25	5	30	121	60	181

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duratio n	No. (of Partici _I	oants		oyed after	training	Number of persons employe d else where
Enterprise				(days)	Mal e	Femal e	Tot al	Type of units	Numb er of units	Number of persons employe d	
			Round	3				Commerci al	10	20	
			the year					ai			
			Mushroo								
	07-	Cultivation of	m								
Mushroo	Feb-	Oyster	cultivatio								
m	18	, Mushroom	n		0	17	17				
		Improved	Quality	2				Personnel	12	12	
		propagation	planting								
	16-	technique of	materials								
Medicinal	Mar	medicinal									
Trees	-18	trees			11	1	12	commerci	10	10	
		Value addition	Processin	3				al	10	10	
		to household articles	g								
		through									
	08-	handicraft (Tie									
Handicraft	May	& Dye									
s	-17	techniques)			2	22	24				
		Skill	Income					Commerci al	15	15	
		Upgradation in	generatin					dI			
		Cushion	g								
		making activity	activities								
Handicraft	01-	for									
	May	entrepreneurs			_	20	20				
S	-17	hip			0	26	26				

		development for farm women and adolescent								
		girls								
Medicinal	03- Apr-	Nursery raising and propagation techniques (Grafting & budding) of medicinal	Income generatin g activities	12		42	Personnel	10	10	
trees	17	plants	Income	12	1	13	Personnel	5	5	
	08-	Processing and Preservation of	generatin							
Processin	Jun-	seasonal fruits	g							
g	17	and vegetables	activities	0	22	22				
Horticultu	20- Aug	Improved propagation techniques cum nursery raising of forestry and horticulture	Income generatin g activities				Personnel	5	5	
re	-17	trees		51	0	51				

*training title should specify the major technology /skill transferred

(E)	Shor	isoreu	1 Faill	ng r ru	gramm	es condu			n		N	lo. of	Partici	ants			Spon	
SI.			Disci pline	The mati	Durati	Client	No. of		Oth	ners		SC/			Total		sorin g Agen cy	Amount of fund received (Rs.)
No	Date	Title		niati c area	on (days)	(PF/R Y/EF)	cours es	M a l e	F e m a 1 e	Tota 1	M a l e	F e m a 1 e	Tota 1	Male	Fem ale	Tot al		
1	19/05/ 17	Awa rene ss cam p on DO BTL in fertil izers	Soil Scie nce	Mob ilizat ion of capit al	1	Dealers	5	2 5 0	0	250	0	0	0	250	0	250	IFFC O	-
2	19/01/ 18	Scop e & impo rtanc e of MA P for enha ncin g farm ers inco me	Agro fores try	Prod uctio n tech nolo gy	1	Farmer s	4	3 5	4	39	15	9	40	51	13	64	HFR I, Shim Ia	80,000
3	22/01/ 18	Com merc ial Flou ricul ture	Hrtic ultur e	Entr epre nuer ship deve lopm et	1	farmers	4	1 3 0	6	136	5 5	9	64	185	15	200	Dept of Flour icult ure	-
Tot al	3				3		13	4 1 5	1 0	425	7 0	1 8	104	486	28	514		80,000

(E) Sponsored Training Programmes conducted by KVK

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

SI.		([Thematic	Duration	Client	No. of	í			No.	of Particip	ants			
No	Date	Title	1 '			(PF/RY/EF)		Ĺ	Others	!	1	SC/ST		Í .	Total	
INU	<u> </u>	<u> </u>	Discipline	area	(days)	(FF/K1/EF)	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
	\Box	'	<u> </u>	'			'	\square'		'	<u> </u>	·'			<u> </u>	
												1				
		1	('	· · · · · · · · · · · · · · · · · · ·			,	1	1	1	1	1			1	
Total												1				

6. Extension Activities (including activities of FLD programmes)

0.	Extension A	cuvilles (meiu	ung activi	1105 01 I	LD pro	ugi allilli	105)								
Sl. No.	Nature of	Topic / crop							Partici	pants					
	Extension		No. of	Farn	ners (Ot	hers)	SC/S	ST (Farr	ners)	Exter	ision Of	ficials	-	Frand T	
	Activity		activities		(I)			(II)			(III)			(I+II+I)	U)
	11001,10J			Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Field Day	Chick Pea 6/4/17	1	36	0	36	14	0	14	3	0	3	53	0	53
2.	Field Day	Wheat 18/4/17	1	28	0	28	12	2	14	3	0	3	43	2	45
1.	Field day	Maize 7/9/17	1	7	2	9	32	2	34	3	1	4	42	5	47
	Field day	Urd Bean 13/9/17	1	26	1	27	20	6	26	2	0	2	48	7	55
		Paddy 5/10/17	1	8	0	8	32	0	32	2	0	2	42	0	42

		Chickpea	1	91	15	106	5	0	5	3	1	4	99	16	115
		24/1/18	1	91	15	100	5	U	5	3	1	4	99	10	115
		Mustard 5/2/18	1	0	0	0	31	0	31	3	0	3	34	0	34
	Total		7	196	18	214	146	10	156	19	2	21	361	30	39
1.															
				10					10						
2.	Kisan Mela Participated	PMFBY 28/8/17	1	68	22	90	34	26	60	9	6	15	111	54	165
3.	Tarticipated	CSS	1	-	-	-	-	-	-	-	-	-	-	-	300
		27/11/17													
		Basmati rice producers 13/12/17	1	-	-	-	-	-	-	-	-	-	-	-	400
		Organic	1	-	-	-	-	-	-	-	-	-	-	-	250
		Basmati													
		Mela 15/2/18													
		Water	1	-	-	-	-	-	-	-	-	-	-	-	300
		conservation													
		Mela 21/2/18													
	Kisan Mela organized	Sankalp Se sidhi	1	93	13	106	86	43	129	25	4	29	204	60	264
	organized	Sium	6	161	35	196	120	69	189	34	10	44	315	114	1679
4	Total		0	1100	<i>c</i> 0	1050	004	0.2	207	114	60	100	154	221	170
<u>4.</u> 5.	Kisan Ghosthi Exhibition		8 11	1199	60	1259	234	93	327	114	68	182	154	221	176 2245
<u> </u>	Film Show		22												2245
7.	Method		21												
	Demonstrations														
8.	Farmers		3	562	65	627	76	31	107	-	-	-	640	57	697
9.	Seminar Workshop	State Level	1												24
	·······	action Plan													
10		26/4/17										-	• •		•
10.		BEDF 30/05/17	1	11	0	11	9	0	9	0	0	0	20	0	20
11.		PPVFRA	1	39	3	42	0	0	0	0	0	0	39	3	42
		26/03/18													
12.	Group meetings	Ex Trainee Samelan	1	93	13	106	86	43	129	20	6	26	199	62	261
	6	25/4/17													
13.	Lectures		18												
	delivered as resource														
	persons														
14.	Newspaper		24												
15.	coverage Radio talks		6												
15. 16.	TV talks		0												
17.	Popular articles		28	1	1	1				1				1	
18.	Extension		12					Ī		ſ					
19.	Literature Advisory		46												
19.	Services		40												
20.	Scientific visit		48	1		1									
	to farmers field														
21.	Farmers visit to KVK		332												
22.	Diagnostic		122												
	visits														
23.	Exposure visits		4												
24.	Ex-trainees														

		1		1	1	1									
	Sammelan														
25.	Soil health Camp		2												
26.	Animal Health Camp	17/10/17	1	32	0	32	9	0	9	7	3	10	48	3	51
27.	Agri mobile clinic														
28.	Soil test campaigns														
29.	Farm Science														
	Club Conveners meet														
30.	Self Help														ł – –
	Group Conveners meetings														
31.	Mahila														
	Mandals Conveners														
32.	meetings Celebration of	World soil l	-1	156	13	-169	99	Ħ	-				255	24	279
52.	important days (specify)	worth 504 tay 5/12/17	71	শহত	শহ	409	777	मम	<u>म</u> म्छ				-1999) -	포마	포기카
1.		Wentel Rabies day 20/9/17	-11 17	25	5	30	۲	Ð	Ð	0	Ð	0	2 5	5	30
1.		International Breast	5	32	84	116	14	116	120	40	۲	0	***	200	246
2.		feeding week 10-16/08/17	- T	24	-1	20 1	24	_16	34	+4	2	1G	<u>a</u> t-	4	60
2.		World Honey Bee Day 19/08/17	7	26	7		25	-1	26	14	2	₩	65		-69
1.		100011 10000000 Week 1-7/09/17	الله												146
1.		Women farmers Day 15/10/ 17	- 1												49)
1.		Self Help Grps	(N))												@
1.		Swatchta Pakhwara	5	48	-A	3 1							48 8	3	5 1
1.	Awareness Prog	15-30/05/17 Organie Basmati 7/4/17	- allar	*	Ð	₿		0	<u>1</u> 2	3		5	23	2	25
1.	Awareness Proz	10/2/17 DOBTL on fortilizer 19/5/17	- Aller	176	18	191	新	*	39)	2	÷.	4	219	35	254
1.	Awareness Prog	Use of Seed treatment in	-it	€	Ð	9)	Ð	۲	29	4	ŧ	4	4 1	ŧ	42
1.	Awareness Prog	Paddy Awareness prog on	€												121
		Parthenium, cteanliness drive, campaingns, etc													
1.	Awareness Prog	ere Breast feeding week 10-16/08/17	±	3 2	84	+++6	14	++6	120	۲	۲	0	***	200	246
1.	Awareness														66

	tice	Health education 4947							
1.	Awareness Preg								
2.	Awareness Prez								
2.									
	Grand Total								

6. B. Kisan Mobile Advisory Services

			K	isan Mobile	Advisory				
Name of	No. of	No. of				Type of mes	sages		
the KVK	farmers	Advisories	Crop	Livestock	Weather	Marketing	Awareness	Other	Any
	Covered	Sent	_			_		enterprise	other
Jammu	1000	60			yes				

6.C. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS during 2017-18

No. of Technology week celebrated	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
2	Gosthies	4		
	Lectures organized	10		
	Exhibition	2		
	Film show	4		
	Fair	0		
	Farm Visit	4		
	Diagnostic Practicals	4		
	Distribution of Literature (No.)	500		
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)	500		
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week			

7. Production and supply of Technological products

A) SEED MATERIALS

Major group/class	Сгор	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
	Rice	Basmati 370	77	-	500
	Rice	Mixture	5	10000	2
	Wheat	WH1080	180	-	300
OILSEEDS					
PULSES					
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)					

*An example for guidance only

B) PLANTING MATERIALS

FRUITS I <th>Major group/class</th> <th>Crop</th> <th>Variety</th> <th>Quantity (Nos.)</th> <th>Value (Rs.)</th> <th>Provided to No. of Farmers</th>	Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
VEGETABLES VEGETABLES	FRUITS					
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Kachnar, Gulmohar, Cassia, Bamboo500500050Image: Cassia and the second secon	ORNAMENTAL CROPS					
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Cassia, Bamboo						
Bamboo Entry Constraints and the second seco						
PLANTATION CROPS						
PLANTATION CROPS						
	PLANTATION CROPS					
					1	

Others (specify)			

C) BIO PRODUCTS

Major group/class	Product Name	Species	Qu	uantity	Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
1	Vermicompost			6000	48000	30
2	Azolla			2q	-	10
3						
4						
BIOFERTILIZERS						
1						
2						
3						
4						
BIO PESTICIDES						
1						
2						
3						
4						

D) LIVESTOCK

Sl. No.	Type Breed		Qua	ntity	Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle						
SHEEP AND GOAT						
POULTRY						
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	•	Evaluation of Front line demonstrations on maize in hilly regions of J&K state	Rakesh Sharma Vikas Tandon Sanjay Khar Punit Choudhary and Bharat Bushan	Ind j of soc research pp283- 88.
	•	Role of floriculture sector in livelihood security of small scale family farming in intermediate regon of jammu.	Rakesh Sharma Sanjay Khar Punit Choudhary Vikas Tandon Prem kumar and Anil bhat	Agro economist : an international journal pp7-10
	•	Marigold cultivation : A potential enterprise for transforming lives of farmers of Jammu region.	Dr. Vikas Tandon, Dr. Rakesh Sharma, Dr.punit Choudhary	MSAE, 23-24 oct,2017
	•	Impact of vocational training programmes on income of rural youth / farmers of hilly areas of jammu and Kashmir	Dr. Banarsi Lal Dr. Vikas Tandon Dr. Shahid ahmad	MSAE, 23-24 oct,2017
	•	Information and communication technologies (ICTs) in transfer of animal husbandry technologies.	Rakesh Sharma Vikas Tandon Punit Choudhary	SAVE national conference 10- 12 april 2017.
	•	Impact of KVK activities on introduction and spread of high yielding and disease resistant variety.	Rakesh Sharma Vikas Tandon Punit Choudhary R K arora	MSAE national conference.
	•	Impact of KVK intervention in Augmenting wheat production in irrigated plains of Jammu Districts through introduction and spread of HD2967 wheat variety.	Rakesh Sharma Vikas Tandon Punit Choudhary R K arora	National conference of Journal of Krishi Vigyan .
		Annual Progress report		
reports	• • •	MPR's Quarterly progress reports Annual reports for University Report on Cluster FLD's NEP Reports		
	•	NET Reports NABARD Sponsored Project Reports		

Item	Title	Authors name	Number of copies	
Technical bulletins	 Pradhan Mantra FasalBimaYojna (English) 	VikasTandon, Puneet Choudhary, Rakesh Sharma, Sheetal Badyal, Raju Gupta, Poonam Abrol	200	
	 Pradhan Mantra FasalBimaYojna (Hindi) 	VikasTandon, Puneet Choudhary, Rakesh Sharma, Sheetal Badyal, Raju Gupta, Poonam Abrol	200	
	Sarson Ki Unnat Kheti	Rakesh Sharma, VikasTandon, Puneet Choudhary, Raju Gupta	300	
	• Gehu Ki Unnat Kheti	Rakesh Sharma, PuneetChoudhary, VikasTandon, Raju Gupta	300	
	Chane Ki UnnatKheti	VikasTandon, Rakesh Sharma, PuneetChoudhary, Raju Gupta	300	
	• Harad medicinal tree propagation and value addition	PuneetChoudhary, PoonalAbrol, SheetalBadyal, VikasTandon, Rakesh Sharma, Raju Gupta	300	
	 Podh kismo aur krishik adhikar sarankshan Adiniyam 	VikasTandon, Rakesh Sharma, PuneetChoudhary, Raju Gupta	200	
Popular articles	Twenty articles	Dr. Banarsi lal Dr. Vikas Tandon	Daily news papers	
Extension literature	• Government schemes in Agriculture: A handbook for farmers	Contributors VikasTandon, PuneetChoudhary Rakesh Sharma	200	
	Common Pest management practices for Jammu region	Rakesh Sharma Punitchoudhary VikasTandon	300	
Folders /leaflets	Kisan credit card	Rakesh Sharma Punitchoudhary VikasTandon	100	
	MSP of different crops	VikasTandon, Rakesh Sharma, Punit	100	
	Fertilizer recommendation for cereals and vegetable for Jammu district	Punitchoudhary, VikasTandon, Rakesh Sharma	100	
TOTAL	45		2550	

(C) Details of Electronic Media Produced

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

(D) Mobile App developed by KVK

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

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

IMPACT OF KVK INTERVENTIONS ON YIELD AND INCOME OF FARMERS OF KVK OPERATIONAL VILLAGE SAGOON, JAMMU

Sagoon Panchayat under Nagrota Block of District Jammu has been selected as operational village by Krishi Vigyan Kendra (KVK) Jammu during the year 2016-17. It is situated 35 kms towards east of Jammu district on Jammu-Mansar road having 555 farm families and 8 villages. Majority (91%) of the farmers of the panchayat possess less than one ha of cultivable land. The major chunk of the cultivable land is rain-fed and only few hectares of land being irrigated with perennial nullahs and bowlis. Maize-Wheat, Maize-Oilseeds, Pulses-Wheat, Maize-Pulses are the major farming systems/enterprises adopted by the farmers. Majze being prominent crop cultivated 75% of area, followed by fodder crops namely oats/sorghum (10.6%), pulses (8.6%), oilseeds (4.2%) and vegetables (1.6%) during kharif season and whereas *rabi* season, wheat is the prominent crop being cultivated on 78.6 percent of the area, followed by fodder (10%), oilseeds (7.1%) and pulses and vegetables on 1.6 percent of the area, respectively. The total geographical area of the Panchayat is 3293.4 ha, out of which nearly 10% area (337.3 ha) is cultivable. In 2015, the average productivity of maize was less than 20q/ha, wheat productivity was 10-12q/ha, gram less than 6q/ha, oilseeds less than 4q/ha and paddy being cultivated in less area having productivity of 26q/ha in 2015. The reasons for lower productivity were non adoption of modern agricultural practices, lack of knowledge about newly released high yielding varieties (HYVs) and their availability, using seeds of third and fourth progeny onward by the farmers of the village.

1. Farmers Practice

The farmers were not adopting scientific production technologies namely line sowing, balanced use of fertilizers, herbicide application and other management practices. In wheat, farmers were using grains of the preceding year crop as a seed. The farmers are using high seed rate per hectare which results in loss of precious seed and also increased cultivation cost. Moreover, they were not treating the seed with fungicide which invites various diseases resulting in low yield. Due to these faulty practices farmers are getting 30-40 percent lesser yield/ha. The scientists devised a compressive strategy to convince the farmers of the village to promote new technologies in the district.

2. Strategy adopted by KVK in transfer of technology

The team of scientist of KVK collected the baseline information about the village through participatory rural appraisal (PRA) to get the first hand information about the village. On the basis of PRA, KVK Jammu chalked out the strategy to start the activities with capacity building programmes for the farmers and farm women, on farm testing (OFTs) of the technologies followed by the laying out of frontline demonstrations (FLDS) and. For that, KVK adopted the cluster approach and trained farmers were selected for demonstration of recommended technologies. Seed treatment campaigns were conducted to educate farmers about the importance of healthy seed, impact of seed borne diseases and their management. Farmers' field days were conducted on maize and chickpea for horizontal spread of

technology. The strategies adopted by KVK Jammu to transfer the proven technology among the farming community were: organizing capacity building programmes for the farmers/farm women to create awareness-knowledge, demonstrate newest technologies by laying front line demonstrations (FLDs) and conduct on farm trials (OFTs) on the farmer's field. Moreover farmers' field days, kissan gosthis and extension literature were extensively distributed for the benefit of the farming community.

3. KVK Interventions for Dissemination of Technologies

KVK worked on crop diversification to help the farmers to realize more returns from the same piece of land. Introduction of toria as third crop, cultivation of pulses crops namely mash (urd) and chickpea, perennial fodder grasses on waste and fragile lands, planting of multipurpose medicinal trees on the bunds and boundaries of their main field and cultivation of short duration high yielding varieties of paddy and mustard were the other areas on which KVK is working. In the year 2016-17, KVK organized seven (07) capacity building programs in which 289 farmers/farm women were trained, conducted OFTs on Wheat, Maize and Perennial grasses and laid out FLDS on Maize, Paddy, Wheat, Oilseeds and Pulses on different aspects of crop production and protection that resulted into increase in farmers' knowledge and adoption of scientific agricultural practices by the trained farmers.



KVK ACTIVITIES AT FARMERS FIELD AT SAGOON VILLAGE



Other than this, KVK Jammu conducted on farm trials on farmers field namely, assessment of improved perennial grasses for herbage production under subtropical conditions and Assessment of paddy varieties for yield potential. 107 frontline demonstrations were laid on 107 farmers' field covering an area of more than 11 hectares. The results of the study revealed that farmers used to sow grains of the previous crops as seed in the ensuing season that resulted in fewer yields per unit area.

4. QUANTIFIABLE BENEFITS

Wheat farmers were applying seed of variety namely HD 2967 that is recommended for irrigated areas of Jammu district. Some farmers were applying previous years grain as seed and getting lower yield. In *rabi* 2016-17, KVK demonstrated wheat varieties namely VL 907 and VL 892 and found that the results of wheat variety VL 907 was encouraging although it is recommended for midhills. There was significant increase in the yield of wheat as results indicate that demonstration plots have 53.6 percent more yield compared to farmers practice. The average yield of VL 907 wheat variety was 21.5q/ha compared to 14 q/ha in check plot. Thus, the per hectare net profit from demonstration plot was Rs. 21, 638. If we extrapolate this with wheat area of the panchayat (265 ha), it comes to around Rs 57,36,619. Therefore, it is concluded that replacing of farmers wheat seed with VL 907 variety will help them to earn better income from same piece of land. The farmers of the operational villages distributed seed of VL 907 variety among other farmers during rabi 2017-18 season. Thus, farmers got a new variety suitable for rain-fed conditions.

During rabi 2016-17, KVK demonstrated oilseed toria on farmers field to incorporate this short duration variety in the farmers cropping sequence. The results of toria variety RSPT-02 showed that farmers got an additional income of Rs 1600 per hectare without compromising the next crop. There is tremendous scope of this crop in the panchayat as the fields have sufficient moisture after harvesting of maize crop.

Chickpea crop was being cultivated in the past by the farmers of Sagoon Panchayat. But due to the non-availability of good quality seed, shortage of labour to do intercultural operations, lack of knowledge about chemical weed management and attack of gram pod borer and its subsequent effect on crop yield forced the farmers to discontinue sowing of this precious crop during rabi season. In rabi 2016-17, KVK laid demonstrations of chickpea on 52 farmers field and the results were encouraging. The average productivity of the chickpea crop was 5.9 g/ha. The impact of this intervention was very encouraging and majority of the farmers who have kept the seed of GNG 1581 cultivated chickpea in the rabi season 2017-18. On an average, each farmer obtained 40 kg chickpea from one kanal of area. The farmers revealed that compared to wheat, the cultivation of chickpea is more profitable and will help farmers to double their income from same piece of land. Thus, the Government of India's initiative to double the farmers' income by 2022 can be easily achieved if the farmers plan cropping scheme for whole year and include crops like chickpea that will fetch higher returns than the traditional crops. The results further suggests that if the farmers out of his average farm size 0.4 ha, replace chickpea with wheat on 0.15 ha area, he will be able to earn income same to 0.25 ha of area on which he will cultivate wheat. Moreover, farmers are also suggested to sow toria after the harvesting of maize crop to get an addition income @ Rs 6000-7000/ha. Thus, addition of oilseed and pulse crops in the existing cropping sequence out only helps the farmers to increase their farm income but it will be helpful to the farmers for sustainability as pulse crops will enrich the soil. Also the incorporation of oilseed and pulses will be helpful for livelihood security of the farmers as he can produce necessary household items on his own farm and will generate more employment as the farmers remained without work after sowing of maize and wheat crops. It was evident that KVK playing vital role in raising the socio-economic status of the farmers. Farming community welcomed new technologies of agriculture and allied sciences which improved their production. Farmers trusted the KVK activities and maintained the regular relationship for upgrading their knowledge. The activities of KVK namely FLDs on chickpea helped farmers to regain confidence in sowing of chickpea that they have lost due to non-availability of quality seed and pest management practices to save crop from the attack of gram pod borer.

1. HYBRID MAIZE FOR LIVELIHOOD SECURITY OF A KANDI VILLAGE

INTRODUCTION:

Sagoon is situated towards east of Jammu district on Jammu-Mansar road. It is about 35 kms from district headquarter with 555 farm families and 8 villages. Majority (91%) of the farmers of the panchayat possess less than one ha of cultivable land andmost of the cultivable land is rain-fed and only few hectares of land being irrigated by local nullahs and bowlis. Maize-Wheat, Maize-Oilseeds, Pulses-Wheat, Maize-Pulses are the major farming systems/enterprises adopted by the farmers. Maize being prominent crop occupies 75% of area, followed by fodder crops namely oats/sorghum (10.6%), pulses (8.6%), oilseeds (4.2 %) and vegetables (1.6%) during *kharif* season and whereas *rabi* season, wheat is the prominent crop being cultivated on 78.6 percent of the area, followed by fodder (10%), oilseeds (7.1%) and pulses and vegetables on 1.6 percent of the area, respectively. The total geographical area of the Panchayat is 3293.4 ha, out of which nearly 10% area (337.3 ha) is cultivable. In 2015, the average productivity of maize was less than 20q/ha, wheat productivity was 10-12q/ha, gram less than 6q/ha, oilseeds less than 4q/ha and paddy being cultivated in less area having productivity of 26q/ha in 2015.

CONSTRAINTS:

Non adoption of modern agricultural practices, lack of knowledge about newly released high yielding varieties (HYVs) and their availability, using seeds of third and fourth generation onward by the farmers of the village. The farmers were not adopting scientific production technologies namely line sowing, balanced use of fertilizers, herbicide application and other management practices.

KVK INTERVENTIONS:

KVK collected the baseline information about the village through participatory rural appraisal (PRA) and worked out the strategy to start the activities with capacity building programmes for the farmers and farm women on scientific cultivation of Hybrid maize, on farm testing (OFTs) of composite and Hybrids followed by the laying out of frontline demonstrations (FLDS) covering an area of more than 8.0 ha especially for Hybrid Maize. For that KVK adopted the cluster approach and trained farmers were selected for demonstration of recommended technologies.

Crop	Name of the technology	Characters			
	demonstrated				
Maize	Hybrid Seed (Var. Double	Less water requirement, fast growth, better			
	DekalbDKC 7074)	disease tolerance, attractive grain colour, higher			
		yield			
	Hybrid Seed (Var. Bioseed 9220)	Greatest stability, Highest yielding capability			
		across environments, found promising for rainfed			
		areas and for cultivation in stress-prone			
		agroecologies			

Farmers' field days were conducted on Maize for horizontal spread of technology. The crop wise descriptions of frontline demonstrations are given in below.

S.no	Year	Area (ha)	Beneficiaries'
1	2016-17	5.0	20
2	2017-18	8.5	51

Year wise description of FLDs laid by KVK

OUTPUT:

Increased production of maize was recorded from the same piece of land with similar efforts only with adoption of hybrid seeds and recommended dosages of chemical fertilizers. With concentrated efforts by KVK in promotion of line sowing technology more than 70 per cent of the total village farmers adopted the said technology. KVK demonstrated two varieties namely Double Dekalb 7074and Bioseed9220 and both outperformed on the farmers practice. The moreyield helped the farmers to fetch an additional income of Rs. 6446 per hectare. If this income is extrapolated with the area under maize (253 ha), it comes to around 16,30,424 per season.

Comparative Economics' of KVK interventions with farmers practice

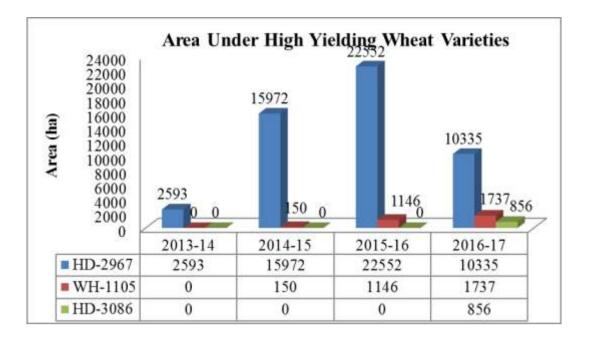
Year	Name of the technology	Yield (q/ha)	Yield (q/ha)	%	Econom	nics of dem	onstration	(Rs./ha)	Eco	nomics of j (Rs.	farmer pra /ha)	ctice
Teur	demonstrated	Demo	Check	Increase	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
2016-	Hybrid Seed Double Deklb	29.44	23.8	23.7	19500	44216	24716	2.26	18400	36320	17920	1.97:1
17	Hybrid Seed Bioseed	28.94	23.8	21.6	19500	43516	24016	2.23	18400	36320	17920	1.97:1
2017- 18	Hybrid Seed Double Deklb	28.82	24.0	20.1	19900	46868	26968	2.36:1	18100	39000	20900	2.16:1





a) 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

KVK Jammu with vision to test new wheat varieties for their suitability in Jammu Laid out On Farm Trials on Three wheat Varieties Namely HD2967(farmer practice), HD 3086 and WH 1105 for two successive Rabi seasons in 2015-16 and 2016-17 and then FLD's on these varieties in 2017-18. The results of the OFT depicts that HD 3086 and WH 1105 are outperforming HD2967 in terms of Yields. The impact of OFT's is visible by the fact that 1737 and 856 ha area has been put under these new varieties during the current Rabi season which is self-explanatory that the ON Farm trials of KVK have been accepted by the farmers of Jammu district.



HD 3086 and WH 1105 wheat varieties from 2013-14 to 2016-17

- 9.B. Give details of innovative methodology/technology developed and used for Transfer of Technology during the year
 - KVK Jammu is following cluster approach in carrying out all activities.
 - KVK has selected a commodity village at Border and complete package on Basmati production is being followed.
 - KVK is also using Post office linkage system to spread newly released varieties.
 - KVK has also good rapport with the ex-servicemen of the area and is utilizing their services for dissemination of KVK technologies / information in their respective villages for better adoption.
 - KVK Jammu has also social media for spreading their message among the contact farmers for easy and timely spread of message for the benefit of farming community.
 - KVK Jammu has a crop cafeteria where visiting farmers can themselves see the performance of new technologies and can pick the technologies suited to their requirements.

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

	S. Crop /		ITK Practiced	Purpose of ITK
I	No.	Enterprise		
	1	Cucurbits	Dusting with ash for control of beetles	Plant Protection to save vegetable crops

2	Maize	Beating of drum and firing of crackers	To divert wild animals from crop
			damage
3	3 Cereal crops Use of drek leaves as bedding		Safe storage of food grains

- 9.D. Indicate the specific training need analysis tools/methodology followed for
- **Identification of courses for farmers/farm women**: An interview schedule of training need assessment is developed and group interviews of farmers are conducted at the village level. In this, assessment of village existing situation, assessment of their agricultural needs, trainings they have already participated, trainings they wish to participate, requirement of farmers, etc. These are recorded in the village and later analyzed in the office. Later on action programmes are formulated for successive years.
- **<u>Rural Youth</u>**: Similar interview schedule is designed for identification of training needs of rural youth. In the group interview village situation is assessed. Then priorities of the village youth are identified, looking into their resources, their trainings are finalized
- <u>In-service personnel</u>: During in-service training KVK provides them Performa to identify the training needs of extension personnel. Similarly we write a letter to concerned development departments to provide us the feed back and topics they wish to part trainings to their extension workers

9.E. Field activities

- i. Number of villages adopted -12
- ii. No. of farm families selected -400
- iii. No. of survey/PRA conducted- 4

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

Status of establishment of Lab

: functional

:2006

:

1. Year of establishment

1.	i car of establishment
2.	List of equipments purchased with amount

Sl. No	Name of the Equipment	Qty.	Cost
1	Water distillation unit	1	31667
2	Willy Grinding Mill	1	19406
3	P.H. meter	1	16706
4	Precisa analytical balance	1	52594
5	Kahn Shaking Machine	2	29358
6	Oven	1	12900
7	Spectrophotometer	1	151340

8	Flamephotometer	1	31149
9	EC meter	1	15729
10	Hot plate	1	1153
11	Kjeldhal Distillation and digestion unit	2	37695
	Total	13	399397

3. Details of samples analyzed / Soil Health Cards issued during 2017-18

Details	No.	No. of Farmers	No. of Villages	Amount realized
Soil Samples	250	250	25	-
Water Samples				
Plant Samples				
Soil Health Cards Issued				

•

- 4. Status of mini soil testing labs/kit
- 5. Year of procurement of lab/kit : 2016-17

6. No. of mini labs with the KVK

:-

7. Type of mini labs (Name of lab/Kkt) : mridaparikshak

8. Details of samples analyzed through mini soil kit / Soil Health Cards issued during 2017-18 :

:2

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	250	250	25	-
Water Samples				
Soil Health Cards Issued				

10. <u>IMPACT</u>

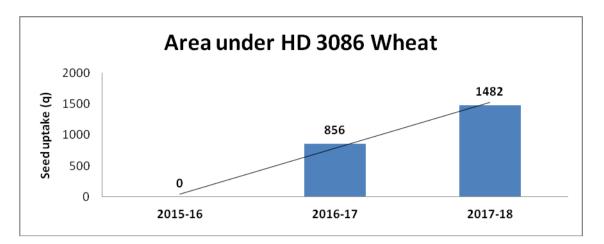
Name of specific No. of % of adoption Change in income (Rs.) technology/skill transferred participants Before After (Rs./Unit) (Rs./Unit) Spread of HD 2967 50 80% 16300 29893 1 wheat Variety. 2. Marigold as an 50 80% 28000 60000 enterprise

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

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

a) Introduction and spread of HD 3086 variety of wheat in the district.

In the year 2015-16 and 2016-17 KVK Jammu laid OFTs on HD 3086 wheat variety to demonstrate new technologies under farmer's condition for replacements against rust susceptible varieties viz., PBW 550, PBW 621 and HD 2967. The efforts of the KVK helped in increasing the area under HD 3086 from856 ha in 2016-17 to 1482 in 2017-18. There was 71 % increase under HD 3086 Variety of wheat with the efforts of KVK Jammu and Department of Agriculture Jammu.



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

- KVK focused on agricultural enterprises other that crops such as floriculture and mushroom cultivation. Farmers have been guided to cultivate marigold round the year. The farmers could get an extra income of Rs 1.00 Lakh per hectare by adopting marigold cultivation within a period of three months.
- The mushroom growers have been trained and have adopted this enterprise during the reporting period and reaped good remunerations out of it.
- Large scale adoption of wheat varieties namely HD 2967, HD 3086 and WH 1105 by the farmers of Jammu district under timely sown irrigated areas.
- Pusa varieties namely Pusa 1612 and PB 1509 have been introduced and have been appreciated by the farmers in non basmati areas due to their early maturity and higher yields.
- The area under pulses have increased during the reporting time. KVK has given special impetus for promotion of Chickpea in rabi and summer pulses in the district.
- KVK jammu is accredited centre for two skill development programme for unemployed youth on vermin composting and mushroom cultivation and more number of rural youth are visiting KVK for enrolment for such programmes.

11.0 LINKAGES

11.1 Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture Department	Conducting training programme in collaboration with Deptt.
Animal Husbandry	Conducting training programme in collaboration with Deptt.
Department	

Horticulture Department	Demonstrations especially of fruits and vegetables
Forest Deptt.	Participation in meetings, Resource persons
Fisheries Department	Participation in meetings, demonstration
Directorate of	Participating in meeting and sponsored laying of FLDs on
fodder development	fodder
Nehru Yuva Kendra Jammu	Training for rural youth jointly
Directorate of Maize	FLDs of maize
IFFCO	These institutes are being contacted for getting financial assistance for establishing unit for different beneficiaries and their participation in meetings
KRIBHCO	These institutes are being contacted for getting financial assistance for establishing unit for different beneficiaries and their participation in meetings
Central Co-op. Bank Jammu	Banks and other financial agencies are contacted for further
NABARD	financial assistance for starting new units, under KVK.
National Horticulture Board	For establishment of orchids
State Bank of India	For financing and formation of SHGs
National Fertilizer Ltd.	Conducted training Programme in collaboration with NFL.
Indian Institute of Integrative	Association with Jammu arogya project and for training of
medicine, Jammu	farmers in Medicinal plants.
HFRI Shimla	Training programme for spread of commercially important
	medicinal plants suited to Jammu Plains.

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Soil health day	5-12-2017	Department of agriculture	-
Cluster FLD's on pulses	July and Oct,2017	DAC	71250
Cluster FLD's on oilseed	Oct,2017	DAC	57250
Enterprenurship development through floriculture	Feb,2018	Department of floriculture	-

11.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage	Remarks

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)	
01	Meetings	Annual plan meeting. Farmer scientist interactions	1			
02	Research projects					
03	Training programmes					
04	Demonstrations					
05 Extension Programmes		World soil health day. Pradhan Mantri fasal bima yojna	1	1		
	KisanMela	KVK kisan mela Kisan welfare board kisanmela.	1			
	Technology Week	-	-	-	-	
	Exposure visit	-	-	-	-	
	Exhibition	-	-	-	-	
	Soil health camps	Soil day	1			
	Animal Health Campaigns	-	-	-	-	
	FFS	-	-	-	-	
06	Publications	-	-	-	-	
	Video Films	-	-	-	-	
	Books	-	-	-	-	
	Extension Literature	-	-	-	-	
	Pamphlets	-	-	-	-	
	Others News coverage	-	-	-	-	
07	Other Activities	-	-	-	-	

Coordination activities between KVK and ATMA during 2017-18

11.4 Give details of programmes implemented under National Horticultural Mission NA

S. No.	Programme	Nature of linkage	Constraints if any

11.5 Nature of linkage with National Fisheries Development Board NA

11.5 1.41	11.5 Nature of mixage with National Fisheries Development Doard 141								
S. No.	Programme	Nature of linkage	Remarks						

11.6. Details of linkage with RKVY

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

12. PERFORMANCE OF INFRASTRUCTURE IN KVK

12.1 Performance of demonstration units (other than instructional farm)

S1.	Demo Unit			Details of production			Amount (Rs.)		
No ·	(Mention the name of Demo Unit)	Year of est.	Area	Vari ety	Produ ce	Qty.	Cost of inputs	Gross income	Remarks
1	Vermicompost	200	0.02	-	-	60q	10000	48000	Functional
	unit	8							unit
2	Fish pond	201	0.02	Com	-	-	-	-	Demonstra
		2		mon					tion
				carp					purpose.

12.2 Performance of instructional farm (Crops) including seed production

Name	Date of sowing	Date of sowing Date of		Detail	s of produc		Amount (Rs.)		Remarks
Of the crop		harvest	Area (ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Kemarks
Cereals									
Paddy	31/07/17	25/11/17	14	B-370	F-1	77.2	85428	-	Under process
Wheat	15/12/17	5/5/18	19	WH- 1080	F-1 & C-1	65 105	1,15,000	-	Amount to be realized from Mega seed (SKUAST- J)
Pulses									
Grams									
Oilseeds									
Fibers									
Floriculture									
Fruits									
Vegetables									
Others (specify)								
(•F)	,								

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

S1.	Name of the		Amou		
No.	Product	Qty	Cost of inputs	Gross income	Remarks
1	Vermin compost	60	10000	48000	Sold to vegetable growers and for demonstrations.

	Name	Deta	Details of production		Amount (Rs.)			
Sl. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks	
1	Fishery unit	Common carp	-	-	-	-	Demonstration purpose	

12.4 Performance of instructional farm (livestock and fisheries production)

12.5 Utilization of hostel facilities:

Accommodation available (No. of beds) = 20

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			

12.6. Database management

S. No	Database target	Database created by the KVK
1	1000	1000

12.7 Rainwater Harvesting

Training programmes conducted using Rainwater Harvesting Demonstration Unit

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

Demonstrations conducted using Rainwater Harvesting Demonstration Unit

Data	Title of the	Client (PF/RY/EF)	No. of Demos.	No. of Participants including SC/ST			No. of SC/ST Participants		
Date	Demonstration			Male	Femal e	Total	Male	Female	Total

Seed produced using Rainwater Harvesting Demonstration Unit

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

Plant materials produced using Rainwater Harvesting Demonstration Unit

Name of the crop	Number of plant materials produced

Other activities organized using Rainwater Harvesting Demonstration Unit

Activity	No. of visitors
Visit of farmers	
Visit of officials	

13. FINANCIAL PERFORMANCE

13.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	J&K Bank, R.S.pura	R.S.pura	0025040100040224
With KVK	J&K Bank	R.S.pura	0025040100026430

13.2 Utilization of KVK funds during the year 2017-18 (up to March 2018)

S. D. C. C. C. D. D. L. D. L. D. L. D. L. D. L. D. L. D. L. L. D. D. L. L. D. D. L. L. D. D. L. L. D. D. L. L. D. D. L. L. D. D. L. L. D. D. L. L. D. D. L. D. D. L. D. D. L. D. D. L. D. D. D. D. D. D. D. D. D. D. D. D. D.								
5. No.	Particulars	Sanctioned	Released	Expenditure				
	A. Recurring Contingencies							
1	Pay & Allowances	104.35	104.35	104.35				
2	Traveling allowances	0.75	0.72	0.72				
3	Contingencies							
Α	Stationery, telephone, postage and other expenditure on							
	office running, publication of Newsletter and library							
-	maintenance (Purchase of News Paper & Magazines)	4.80	4.73	4.73				
B	POL, repair of vehicles, tractor and equipments							
С	Meals/refreshment for trainees (ceiling upto	0.00	7.00	7.02				
n	Rs.40/day/trainee be maintained) Training material (posters, charts, demonstration material	9.00	7.23	7.23				
D	including chemicals etc. required for conducting the training)							
Ε	Frontline demonstration except oilseeds and pulses							
L	(minimum of 30 demonstration in a year)							
F	On farm testing (on need based, location specific and newly							
	generated information in the major production systems of the							
	area)							
G	Training of extension functionaries							
Н	Maintenance of buildings							
Ι	Establishment of Soil, Plant & Water Testing Laboratory							
J	Library							
	TOTAL (A)	118.70	118.70	118.70				
B. Nor	n-Recurring Contingencies		-					
1	Works							
2	Equipments including SWTL & Furniture	0.0	0.0	0.0				
3	Vehicle (Four wheeler/Two wheeler, please specify)	0.0	0.0	0.0				
4	Library (Purchase of assets like books & journals)							
	TOTAL (B)	0.00	0.10	0.00				
C. RE	VOLVING FUND		0.10	0.00				
	GRAND TOTAL (A+B+C)	118.70	118.80	118.70				

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2013 to March 2014	4133994.26	842027.00	496470.00	4479551.26
April 2014 to March 2015	4479551.26	531402.00	252399.00	4758554.26
April 2015 to March 2016	4751741.26	4,89583.00	311774.00	4929549.44
April 2016 to March 2017	4929549.44	454578.00	99774.00	5284353.44
April 2017 to March 2018	5284353.44	725000.00	588000	5303000.00

Name of the staff	Designation	Title of the training programme	Date	
Dr. Vikas Tandon	Sr. scientist & head	National conference on KVK;s	IARI, new Delhi	16-18 mar, 2018
Dr.Sheetal Badyal	SMS	Advances in preservation and processing.	PAU Ludhiana	Oct,2017
DrVikasTandon Dr Punitchoudhary	Head Sr. scientist	National conference of society of Krishi vigyan.	CIFA, bhubhneswar	5-7, Jan,- 2018
Dr VikasTandon Dr Rakeshsharma Dr Punitchoudhary Dr SheetalBadyal	Head Sr. scientist Sr. scientist SMS	National conference of Maharashtra society of Agricutural statistics.	SKUAST-J	Nov,2017
Dr VikasTandon Dr Rakeshsharma Dr Punitchoudhary Dr SheetalBadyal	Head Sr. scientist Sr. scientist SMS	National conference of society for integrated development of agriculture, veterinary and ecology.	SKUAST-j	Feb,2018

14. Details of HRD activities attended by KVK staff during 2017-18

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

KVK Jammu was conferred with Pandit Deen Dayal Upadhayay Krishi vigyan puruskaar, (zonal) 2017 recognizing its services towards the farming community.

Awards and recognitions:

S.	Name of	Name of KVK	Name of Award/	Awarding
No.	Teacher/Scientist		distinction/Recognition	Institution/Organization
1	Dr Punit	KVK Jammu	Young scientist award	Society of Krishi
	Choudhary.			Vigyan.
2	Dr. Vikas Tandon	-do-	Best poster presentation	Maharashtra society of
			award	agricultural statistics
3	-	KVK jammu	Best stall	University Kisan mela
				2018

External funded Projects

Title	Funding Agency	Year of Start	Duration of Project	Total approved budget of the Project (Lacs)	PI of the Project
Production an	nd NABARD	2016	3 years	6.32 lakhs	Dr Punit
demonstration of quali	ty				Choudhary

planting material of			
commercially important			
medicinal trees for			
livelihood security			

Annexure-1 List of Farmer Training programs (2017-18)

						ing pro									
Date	Clien tele	Title of the training		Them atic	Dura tion in	Venue (Off / On Campus)	othe	nber o r icipar		Nun SC/S	nber o ST	of		al num articip	
		programme		area	m days	Campus)	M part	Fe	ns To	Μ	Fe	То	Μ	Fe	То
							ale	m ale	tal	ale	m ale	tal	ale	ma le	tal
21- Apr- 17		Scientific Cultivation of Marigold	Hort icult ure		1	Kattal Batal	17	1	18	4	0	4	21	1	22
24- Apr- 17		Ensuring nutritional security of farm families through kitchen gardening	Hom e Scie nce		1	On Campus	0	0	0	2	26	28	2	26	28
09- May -17		Orientation of Centrally Sponsored Schemes (CSS)	Extn Edu.		1	Kattal Batal	12	0	12	6	0	6	18	0	18
15- May -17		Empowerin g farm women through livelihood security	Hom e Scie nce		1	Bala Chak	0	0	0	0	38	38	0	38	38
17- May -17		Establishing Poultry farming as an enterprise	Ani mal Scie nce		1	On Campus	33	0	33	8	0	8	41	0	41
24- May -17		Scientific cultivation of Paddy (B-370) - Under FLD	Crop Prod uctio n		1	On Campus	21	1	22	0	0	0	21	1	22
25- May -17		Scientific cultivation of Paddy (B-370) - Under FLD	Crop prod uctio n		1	On Campus	11	0	11	3	0	3	14	0	14
29- May -17		Production Technology of economicall y important	Agr o Fore stry		1	Lalyana , Bishnah	2	0	2	7	11	18	9	11	20

	Multipurpos e trees												
07- Jun- 17	Scientific cultivation of Paddy	Extn Edu.	1	Kattal Batal	15	1	16	6	0	6	21	1	22
08- Jun- 17	Scientific cultivation of Maize Hybrid (Under FLD)	Extn Edu.	1	Sagoon	38	0	38	3	0	3	41	0	41
13- Jun- 17	Leaf colour Chart	Soil Scie nce	1	Garhi	27	0	27	35	0	35	62	0	62
15- Jun- 17	Balanced diet for adolescent girls & children	Hom e Scie nce	1	On Campus	0	0	0	0	17	17	0	17	17
20- Jun- 17	Entrepreneu rship Developme nt through farmer clubs	Extn Edu.	1	Chak Chimna	13	0	13	9	0	9	22	0	22
03- Jul- 17	Cultivation of Medicinal trees for higher income	Agr o Fore stry	1	Gorota	0	0	0	23	0	23	23	0	23
04- Jul- 17	Scientific cultivation of Mash for better livelihood and food security	Crop Prod uctio n	1	Sagoon	14	0	14	1	0	1	15	0	15
12- Jul- 17	Orientation Program on Pradhan Mantri Fasal Bima Yojna	Extn Edu.	1	Chalyar	11	1	12	0	0	0	11	1	12
26- Jul- 17	Multi purpose trees- Role & importance	Agr o Fore stry	1	Garota Patta	12	0	12	8	0	8	20	0	20
28-	Cultivation	Agr	1	Kishanp	22	0	22	4	0	4	26	0	26

T1	of			[1						
Jul-	-	0 F		ur									
17	medicinal &	Fore		Manwal									
	Aromatic	stry											
	plants for												
	higher												
10	income Sensitizatio	Et	1	0	10	0	10	2	0	2	01	0	21
10-	n of farmers	Extn	1	On Commus	19	0	19	2	0	2	21	0	21
Aug -17		Edu.		Campus									
-1/	groups	Eau.											
	(SHG) about KVK												
	activities												
14-	Orientation	Extn	1	Kattal	11	1	12	6	0	6	17	1	18
	of Centrally	EXUI	1	Batal	11	1	12	0	U	0	1/	1	10
Aug -17	-	Edu.		Datai									
-1/	sponsored schemes	Euu.											
17-	Agroforestr	Agr	1	Bagwan	0	0	0	18	2	20	18	2	20
Aug	y for	Agr o	1	a Chak	0	0		10	2	20	10	2	20
-17	sustainable	Fore		a Chak									
-1/	production	stry											
22-	Enhancing	Hom	1	Kattal	0	20	20	0	0	0	0	20	20
Aug	nutritive	e	1	Batal	U	20	20	U	U	U	U	20	20
-17	value of	Scie		Datai									
17	cereals &	nce											
	pulses	nee											
30-	Orientation	Extn	1	Dabbar,	15	0	15	5	0	5	20	0	20
Aug	on Centrally	Linui	-	Bishnah	10	Ŭ	10	č	Ŭ	U	20	Ŭ	
-17	sponsored	Edu.		2101111									
- /	schemes	244											
07-	National	Hom	1	Kattal	5	2	7	13	2	15	18	4	22
Sep-	Nutrition	e		Batal							_		
17	Week -	Scie											
	Role of	nce											
	Millets in												
	improving												
	nutritional												
	status of												
	farm												
	families												
19-	Entrepreneu	Extn	1	Sagoon,	23	0	23	7	0	7	30	0	30
Sep-	rship			Sruinsar									
17	developmen	Edu.											
	t through												
	Farmer												
	Club												
	Program												
09-	Scientific	Crop	1	Salehar	2	0	2	24	0	24	26	0	26
Oct-	cultivation	Prod											
17	of Oil Seed	uctio											
	crops	n											

15- Oct-	Importance of	Hom e	1	Bala Chak	0	0	0	0	22	22	0	22	22
17	Nutritional Gardens	Scie nce		Chak									
16-	Production	Agr	1	Sagoon	19	0	19	0	0	0	19	0	19
Oct-	Technology	0	-	Sugoon		Ũ		Ũ	Ű	Ŭ		Ũ	
17	of	Fore											
	Economical	stry											
	ly Important	-											
	MPTs												
	(Kikar,												
	Mulbery)												
27-	Orientation	Extn	1	Chogga	21	1	22	1	0	1	22	1	23
Oct-	of Kisan												
17	Credit card	Edu.											
-	& PMFBY			D1				4.5		10	4.5		
30-	Scientific	Agr	1	Bhota	0	0	0	19	0	19	19	0	19
Oct-	Cultivation	0		Gorota									
17	of Rabi	Fore											
	Fodder	stry											
02-	crops (Oats) Scientific	Acr	1	Suchata	1	0	1	18	0	18	19	0	19
02- Nov	cultivation	Agr	1	Suchetg arh	1	0	1	10	0	10	19	0	19
-17	of Fodder	o Fore		am									
-17	Crops	stry											
03-	Scientific	Extn	1	Bhagwa	10	7	17	1	8	9	11	15	26
Nov	cultivation	LAU	1	na Chak	10	'	17	1			11	15	20
-17	of Chick	Edu.		nu onun									
- /	Pea	2001											
16-	Propagation	Agr	1	Mathwa	25	0	25	11	0	11	36	0	36
Nov	methods/tec	0		r									
-17	hniques for	Fore											
	medicinal	stry											
	trees												
18-	Seasonal	Hort	1	Dhanga	19	0	19	17	2	19	36	2	38
Nov	Vegetable	icult		r									
-17	cultivation	ure		Kaleeth						_			
21-	Scientific	Crop	1	On	19	0	19	5	0	5	24	0	24
Nov	cultivation	Prod		Campus									
-17	of wheat	uctio											
30-	crop	n Hom	1	Math	5	12	17	2	17	19	7	29	36
30- Nov	Processing &	Hom		Mathwa	3	12	1/	2	1/	19	/	29	30
Nov -17	& Preservation	e Scie		r									
-1/	of Harad &	nce											
	Aonla	nce											
30-	Post harvest	Agr	1	Mathwa	2	12	14	6	15	21	8	27	35
Nov	handling,	0	1	r		14	14	0	15	<u>~1</u>		21	55
				1									
- '													
-17	value addition &	Fore stry											

	care of												
	fruits of												
	Harad,												
	Bhera &												
	Amla for												
	higher												
	market												
	value												
15-	Orientation	Extn	1	Chak	12	3	15	1	2	3	13	5	18
Dec	Prog on			Chimna									
-17	Pradhan	Edu.											
	Mantri												
	Fasal Bima												
	Yojna												
19-	Weed	Crop	1	On	8	0	8	0	0	0	8	0	8
Dec	Managemen	Prod		Campus									
-17	t practices	uctio											
	in wheat	n											
22-	Managemen	Agr	1	Raipur	30	0	30	2	0	2	32	0	32
Dec	t of locally	0		Sajdan									
-17	available	Fore		~									
17	Agroforestr	stry											
	y trees for	Sury											
	sustaining												
	fodder and												
	food												
	security												
09-		Hom	1	Bala	0	0	0	1	20	21	1	20	21
Jan-	Processing &		1	Chak	U	U	U	1	20	<i>∠</i> 1		20	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
Jan- 18		e Scie		CIIAK									
10	preservation of Fruits &												
		nce											
17	vegetables	TT	1	Veret	10	4	10	0	0	0	10	Λ	16
17-	Scientific	Hort	1	Korotan	12	4	16	0	0	0	12	4	16
Jan-	cultivation	icult		a Kalan									
18	of Marigold	ure										6	
23-	Improveme	Ani	1	Katal	15	0	15	13	0	13	28	0	28
Jan-	nt of	mal		Batal									
18	Nutritive	Scie											
	Value of	nce											
	low quality												
	roughages												
02-	Multipurpos	Agr	 1	Badyal	20	0	20	0	0	0	20	0	20
Feb-	e trees &	0		Brahmn									
18	their	Fore		a									
	managemen	stry											
	t under												
	agroforetry												
20-	Dhingri	Hort	1	Kaloe	1	0	1	7	4	11	8	4	12
Feb-	Cultivation	icult	1	ixuite	-		-	,	'	11		'	14
18	Cultivation	ure											
10		uit	L	1			1		L	1	L	L	

Annexure-11

MINUTES OF 16th SCIENTIFIC ADVISORY COMMITTEE MEETING OF KRISHI VIGYAN KENDRA, JAMMU

The sixteenthScientific Advisory Committee (SAC)meeting of KrishiVigyan Kendra (KVK) Jammu, R.S.Pura was held under the Chairmanship of **Dr R K Arora**, Associate Director Extension and I/C KVK's, SKUAST-J in the Conference hall of F.V.Sc& A.H., R. S. Pura on 26thMarch,2018.

Dr. R. K. Arora, Associate Director Extension (KVKs), SKUAST-J, **District Heads**from different line departments, nominated members fromFaculty of Veterinary Sciences and Animal Husbandry and Faculty of Agriculture of SKUAST-J, Chief Scientist and HeadKVK, Jammu,Senior Scientists, SMS and Programme Assistants of KVK Jammu, progressive farmers/ farm women member participated in the meeting. (**List enclosed as Annexure-I**).

At the outset, DrVikasTandon, Chief Scientist and Head KVK Jammu presented a formal welcome address and appraised the house about the active participation of KVK Jammu in various activities related to the welfare of the farming community. Dr. Tandonstressed that under the vice Chancellorship of Dr. P. K. Sharma, the KVKs are working well.

In his presidential address, **Dr. R K Arora**, Associate Director Extension (KVKs), SKUAST-Jappreciated the working of KVK Jammu during the year 2017-18. He congratulated the staff of KVK for the prestigious PanditDeenDayalUpadhayaProtsahanPuraskar award 2017. He further stressed all technologies developed by SKUAST-J to be routed through OFTs by KVKs. He also suggested that timing of the training should be given impetus. Moreover he stressed on feedback of the training programmes conducted by KVKs and documentation of success stories along with maximum enrollment of the new farmers at portal.

The technical session commenced with the presentation by**Dr. VikasTandon**, Chief. Scientist and Head, KVKJammu as per the agenda items.

Agenda No. 1: Confirmation of the Proceedings of 15th SAC meeting

The proceedings of the 15th SAC meeting were circulated among all the members of SAC vide letter **No. AUJ/KVK/F-33/2017-18/195-222 dated 04-07-2017**. Since no queries were received from any of the members on the proceedings, it was resolved unanimously by the house to confirm the proceedings of 15th SAC meeting.

No. 2: Action Taken Report of 15thSAC meeting

Chief Scientist and Head, KVK-Jammu presented the action taken report on the issues raised in 15th SAC meeting. The suggestions received from the members are given below:

Regarding action taken on standardization of maize composites and hybrids for Jammu regionChief Scientist and Head KVK Jammu informed the house KVK Jammu conducted on farm trial on Maize Composite **VIJAY** at village Sagun in collaboration with Division of Plant Breeding and Genetics. Moreover, during *kharif* 2017 **Maize Hybrid Double Dekalb** was laid under FLD programme in Jammu covering an area of **10.5 ha**.

In this regards **Chairman** directed to promote **University Maize Composite** through FLD's by the KVK.

Regarding establishment of fodder unit for round the year fodder availability at Maralianursery for DrVikasTandon replied that the land at Maralia nursery was not available due to planting of new orchard. However for demonstration to the farmer's a fodder bank has been laid out in collaboration with division of **ILFc**, **FVSc& AH R S Pura**.

Chairman directed to incorporate multicutBazra developed by IGFRI Palampur under FLD programme.

(Action: KVK Jammu)

Regarding **Chief Agricultural Officer**Jammu request to conduct awareness programme for farmers about drip and sprinkler irrigation it was informed that a live demonstration of sprinkler system was laid at KVK Jammu in collaboration with division of **Agricultural Engineering FOA SKUAST-J**. However, specialized training programme of micro irrigation techniques was also conducted for the officials of line department by the division at SAMETI.

Chief Agricultural Officer Jammu again requested for training programmes on micro irrigation both on as well as off farm.

In this regards **Chairman** directed to conduct the said training programme for officers of the line department at KVK as well as for farmers (off campus) with the coordination of Division of Agricultural Engineering.

(Action: KVK Jammu, Division of Agricultural Engg.)

Agenda No. 3: Presentation of progress report (2017 - 2018)

The progress report of KVK Jammu for2017-18was presented before the house.

Agenda No.4: Fund utilization for the year 2017-18

The budget allocation and utilization of funds for the year 2017-18was presented before the house and resolved as approved.

Agenda No. 5: Proposed Action Plan for the year2018-19

Sr. Scientist and Head, KVK-Jammupresented the Annual Action plan of KVK-Jammu for the year 2018-19 and following suggestions were proposed by the house:

In this context the **Chairman** directed to incorporate more no of training programmes under Veterinary sciences and Animal Husbandry and resource persons for the said trainings will be made available for the FVSc& AH R S Pura.KVK should also incorporate UMMB technology and area specific mineral mixture as OFT or FLD's

(Action: KVK Jammu; FVSc& AH R S Pura)

Chairmansuggested to sensitize the farmers about Farmer Producer organization (FPO's) during the training programme entitled Mobilization of Social capital.

(Action: KVK Jammu)

Chairman suggested to incorporate training programme on "Rejuvenation of senile and old orchards" and a training programme on "Grafting and budding of Horticulture fruit trees".

(Action: KVK Jammu)

Chief Animal Husbandryofficer Jammu department requested to conduct training programme on backyard Poultry.

In tsis regards Chairman directed to select a village for conduct of said training and provides chicks for demonstrations in the village in collaboration with Animal Husbandry department Jammu

(Action: KVK Jammu, Animal Husbandry Department Jammu)

Chairmanas directed to World Women's day should be celebrated regularlyevery year with proper reporting to the directorate.

Dr. Punit Choudhary, Sr Scientist Agroforestryconducted the proceedings of the meeting and the meeting ended with the vote of thanks by Dr. Rakesh Sharma Sr Scientist, Agril. Extension KVK Jammu.S.No.	Name	Designation	Remarks
1.	Dr. R.K. Arora	Associate Director Extension(KVK)	
2.	Dr. Vikas Tandon	Sr. Scientist & Head, KVK Jammu	
3.	Sh. N.K. Dubey	Chief Agriculture Officer, Jammu	
4.	Dr. S.K. Gupta	Prof. & Head, Division of Agro	
		forestry	
5.	Dr. Mohd. Asmail	Chief Animal Husbandry Officer, Jammu	
6.	Dr. Shilani Suri	Prof. & Head, Division of Anatomy	
7.	Dr. Anil Sharma	Associate Professor(Agronomy)	
8.	Ravinder Kachroo	Dy. Project Director , ATMA, Jammu	
9.	Sh. B. B. Sidha	Dy. Project Director , ATMA, Jammu	
10.	Dr. Mohammed Raza	District Sheep Husbandry Officer, Jammu	
11.	Dr. Rakesh Sharma	Sr. Scientist(Extension)KVK- Jammu	

(Action: KVK Jammu)

12.	Dr. Punit Choudhary,	SMS(Agroforestry) KVK-Jammu
13.	Dr. Sheetal Badyal	SMS(Home Science) KVK-Jammu.
14.	Sh. Ragubhir Singh,	Fateypur Sikeri
	farmer	
15.	Sh. Vinod Kumar ,	Kaloen, R.S.Pura
	farmer	
16.	Smt. Sunita devi,	Kaloen R.S.Pura
	Farmwomen	

<u>ANNEXURE "D"</u> District Profile – I

Jammu District is called as the city of temples and is also the winter capital of state. The city was Founded by Raja JambuLochan who lived in 14th Century B.C. Jammu is situated around river Tawi and is bound by Udhampur district in the north and north east, Samba district in the east and south east, Pakistan (Sialkote) in the west and Rajouri district in the northwest. It is located 74⁰ 24' and 75⁰ 18' east longitude and 32⁰ 50' and 33⁰ 30' north latitude. The district falls under submountainous region. The Shivalik ranges rise gradually from behind the Jammu town and merge the Indo Gangetic Plains in the South spreading over an area of 2336 sq.kms (2011 census). Jammu also serves as base camp for the holy shrine of Mata Vaishno Devi. The temperature varies from cold in winter with minimum temperature touching even 0.9°C to heat wave in summers when the temperature shoots upto 46°C. Jammu district has population of 15.29 lakhs, out of which rural population is 7.65 lakhs and urban population is 7.64 lakhs. The male and female population in rural area is 4.02 lakhs and 3.63 lakhs and in urban area 4.12 and 3.52 lakhs, respectively (2011 census). The literary rate of the district is 77%. The district comprises four tehsils i.e. Jammu, R.S.Pura, Akhnoor and Bishnah. The entire district can be divided into two distinct portions. The area forming north of Jammu-Chhamb road and Jammu-Pathankot road which is known as Kandi area is comparatively under-developed and is mostly minted. The area south of these roads is largely fed by canal and tube wells for irrigation purposes and is relatively more prosperous. As per the census of 2011 Jammu District consists of 780 inhabited villages.

Population Density

As per the census of 2011, the district has a population of 15.29 lakh. The average density of population in the district as per census of 2011 is 653 persons per sq km. Schedule caste population in the district is 3.78 lakh which works out to be 24.71% of total population. (census 2011)

Occupation Pattern

According to census of 2001 the occupation pattern of the District is such that the number or Cultivators is 112480.

District at a Glance

I.	Geographical Area (Sq.km)	:	2336
a.	No of sub divisions	:	04
b.	No. of community development blocks	:	08
c.	No. of villages	:	780
II.	Agro climatic Zone	:	Subtropical
III.	Agro climatic characteristics		
a.	Temperature °C		

Min	imum :		4°C
Max	simum :		47°C
b.	Rainfall (average in mm)	:	1135 mm
c.	Humidity (highest in monsoon mon	th) :	90%

1. Agricultural and allied census

The total area of Jammu district is 2342 square kilometers (census 2011). In 2011-12, the net area sown

was 0.91 lakh hectare. Adding to it, the area sown more than once which was of the order of 0.951 lakh hectare. The

gross cultivated area works out to be 1.857 lakh hectare.

Land use statistics

us 2011)
T

Size of holdings

	Size/class (ha)	Nos (%)	Area (%)
a)	Below 0.5	61532	48.68
b)	0.5-1.0	34903	27.62
c)	1.0-2.0	19925	15.76
d)	2.0-3.0	6621	5.24
e)	3.0-4.0	2403	1.90
f)	4.0-5.0	597	0.47
g)	5.0-7.5	308	0.24
h)	7.5-10.0	58	0.05
i)	10.0-20.0	22	0.02
j)	20.0 and above	20	0.02
	All size classes	126389	100.0

Irrigation facilities from different sources (ha)

S.No	Source	Area (ha)
1.	By Canal	49886
2.	By Well/Tubewell/others	2405
3.	Springs/Tanks	1627
4.	Others	2161
	Total irrigated area	56079

2. Agro-climatic zones

Jammu District has a sub tropical climate with hot and dry climate in summer and cold climate in winter. Being in the foothills of the mountains, nights are generally cooler that what they are in the neighbouring areas of Punjab. Minimum and Maximum temperature is around 4°C respectively. Rainy season usually starts from the end of June or the beginning of July. Average rainfall in the district is about 1246 mm.

Irrigated Sub-Tropical Zone

Akhnoor, Dansal and Khour blocks.

3. Agro-ecosystems

Existing Farming systems in different blocks

S. No.	Agro Ecological Situation	Blocks	Farming System
1	(AES-I)	R.S. Pura and Bishnah	Agri + Animal Husbandry
2	(AES-II)	Marh and Satwari	Agri + Vegetable +AH Horti
3	(AES-III)	Khour and Akhnoor	Agri + Animal Husbandry
4	(AES-IV)	Bhalwal and Dansal	Agri+AH+Horti+ Poultry

4. Major and micro-farming systems

Season	Crop	AES-I	AES-II	AES-III	AES-IV
		Cropping	Cropping	Cropping System	Cropping System
		System	System		
Kharif& Rabi	Paddy-	Paddy-Oilseed-	Paddy-Oilseed-	Maize-Oilseed-wheat	Maize-Oilseed-wheat
	Maize	wheat	wheat	Maize-Patato-wheat	Maize-Mustard

5. Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc.

- Paddy-Maize
- Paddy-Oilseed-wheat
- Paddy-Oilseed-wheat
- Maize-Oilseed-wheat
- Maize-Patato-wheat
- Maize-Mustard

6. Major agriculture and allied enterprises: Crop wise area sown under different crops in

Jammu district

S.No	Сгор	Season	Unit	Marh	R.S.Pura	Akhnoor	Dansal	Total
1	Wheat	Rabi	На	18450	21500	20350	10700	71000
2	Maize	Kharif	На	4550	-	3300	4150	12000
3	Paddy	Kharif	На	12000	25000	7800	200	45000
4	Bajra	Kharif	На	500	-	2000	1000	3500
5	Pulses	Kharif	На	1000	2350	1400	2000	6750
		Rabi	Ha	1000	100	2200	1200	4500
6	Oilseed	Kharif	Ha	800	-	600	600	2000
		Rabi	На	1100	1400	1500	700	4700
7	Fodder	Kharif	На	800	600	600	500	2500
		Rabi	На	2550	2500	2200	800	8050
8	Vegetables	Kharif	На	1700	380	990	240	3310
		Rabi	На	3320	1650	1480	240	6690
	Sub Total:	Kharif	Ha	21300	28330	16690	8690	75,010
		Rabi	Ha	26470	27150	27730	13640	94,990
	Total		Ha	47770	55480	44420	22330	170000

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

Details of PRA

S.No	Name of the cluster	Major crops and enterprises	Major problems identified	Intervention needed
1	R.S.Pura	Paddy, wheat, fodder, dairy, Fish Production	Problem of yellow rust in wheat, lack of knowledge of vaccination in cattle, low milk yield, traditional fish farming system, low fish production, unavailability of fish seeds, poor management, lack of knowledge of use of fish feed, unavailability of fish feed, poor post harvest Management. Low productivity and poor quality of fodder	 Scientific Fish farming Feed management Pond management Value addition
2	Akhnoor	Gobhisarson, Mustard, Gram, Mash, Wheat, Maize, Mango, Ber, Anola&Grasses	Low productivity of oilseeds, pulses and cereals, Poor germination and problem of cutworm damage in maize, Unscientific practices in ber, post harvest management in Mango and Anola, low productivity and poor quality of fodder	 Increasing productivity of rain-fed crops INM and IDM Promotion of PHT on Mango and Anola Promotion of perennial grasses
3	Bishnah	Paddy, wheat, mash, moong, potato, grasses, dairy, Fish Production	Low productivity of cereals and pulses, proper package of practices not followed, problem of yellow rust in wheat, lack of knowledge of Vaccination in cattle, low Milk Yield	 Increasing production of cereals and pulses by replacing variety and INM. Dairy development Potato seed promotion Ornamental fish culture Promotion of perennial grasses
4	Dansal	Paddy , wheat, vegetables, Mushroom, Marigold, Oats	Lack of quality seed in vegetables and marigold, Low productivity of cereals, Insect Pest and Disease, Post Harvest Management in vegetables and Diseases in mushroom and its management. low productivity and poor quality of fodder	 Replacement of seed. INM and IDM Promotion of PHT Increasing productivity of cereals Promotion of vegetables Promotion of high yielding Oats varieties

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

Include

- 1. Names of villages, focus area, target area etc.
- 2. Survey methods used (survey by questionnaire, PRA, RRA, etc.)
- 3. Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc.
- 4. Analysis and conclusions
- 5. List of location specific problems and brief description of frequency and extent/ intensity/severity of each problem
- 6. Matrix ranking of problems
- 7. List of location specific thrust areas
- 8. List of location specific technology needs for OFT and FLD
- 9. Matrix ranking of technologies
- 10. List of location specific training needs

SWOT ANALYSIS OF THE DISTRICT

SWOT analysis is a strategic planning method used to evaluate the Strengths, Weaknesses, Opportunities and Threats involved in any venture. SWOT also encompasses a comprehensive analysis of the development parameters linked with economic performance of the State thereby enabling the policy makers and researchers to reorient themselves to the prevailing conditions. Thus while discussing the problems of the district it is important to look also at its strengths first. In this endeavor an in-depth analysis of SWOT was undertaken in a participatory manner to place the extension and technology dissemination efforts in perspective so that success can be achieved in pursuit of serving farming community.

SWOT Analysis of Agriculture and Allied Sector

Strengths

- 1. The factors required for successful cultivation of paddy (Basmati) are available in the district.
- 2. Productive and fertile soils with 62% irrigated area.
- 3. The soils are fit for intensive cultivation.
- 4. Good scope for diversification in agriculture, which will generate employment especially rural employment.
- 5. Farmers are respective and willing to adopt improved farm technologies.
- 6. Agriculture has forward and backward linkages with other activities particularly the agro based activities. As per the latest census, out of 100 main workers 27.5% exclusively dependent upon agriculture.
- 7. Large number of skilled and semi skilled agricultural labour.

Weaknesses

- As against the national average of 382 persons per sq.km, density of population of the district Jammu is 653 persons per sq. km (as per 2011 census).
- 2. Area under commercial crops is very less.
- 3. Average farm size vey less and more than 90% farmers are marginal and small category.

- 4. The small and fragmented holdings make the adoption of farm mechanization very difficult that influences adversely the farmer's income.
- 5. Inadequate soils health management practices.
- 6. Inefficient and improper water management especially in paddy crop.
- 7. Critical technological gaps in specific areas of crop production viz, seed treatment, balance fertilization, weeds control and disease management.
- 8. Basic infrastructure like roads and communication are miserably poor.
- 9. Marketing facilities are inadequate.
- 10. Poor adoption level of FYM, green-manuring, vermi-composting and crop/farm residues
- 11. Inadequate availability of quality seeds for various crops.
- 12. Non exploitation of potential man power, especially youths.
- 13. Lack of proper knowledge and indifferent attitude towards crucial farm/crop management practices/operations.
- 14. The dependency of farmers on monsoons due to inadequate irrigation facilities.
- 15. Access of small and marginal farmers to agricultural credit is limited.
- 16. Wastage of agricultural produce due to lack of processing units.

Opportunities

- 1. Concentrating issues confronting agriculture like seed replacement ratio, irrigation facilities, marketing etc.
- 2. Quality seed can increase yield by 25-30 %.
- 3. Immense scope for increasing the cropping intensity.
- 4. Wide scope of co-operative farming system.
- 5. There is an opportunity in the diversification of land.
- 6. High demand for basmati rice in the international market because of taste and flavour.
- 7. HYV seeds of different crops are suitable for the situation.

8. There is scope for opening more outlets, establishing new units of vermi-compost.

Threats

- 1. Agriculture is already over-laboured, warrants check and controls.
- **2.** Alarming depletion of ground water in the middle reaches and rising alkalinity and salinity problem in the lower belts of district.
- **3.** Degradation of soil fertility with declining status of potash and micro nutrients (imbalance use of fertilizers)
- 4. Excessive soil erosion which results into loss in soil fertility.
- 5. Imbalance fertilizer application deteriorates soil health and effects productivity.
- 6. Declining factor productivity and rising cost of cultivation.
- **7.** Increasing farmers inability to invest in agriculture production system as majority of the farmers are marginal or small and moreover resource poor.

Horticulture Sector

Strengths

- 1. Abundant potential and infrastructure for horticulture development in the district.
- 2. District is abounding in fruit crops like Mango, Ber, Jamun and Citrus which have high commercial value

Weaknesses

- **1.** Insufficient availability of quality planting material
- 2. Lack of assured irrigation in more than 60 % area of district.
- 3. Inadequate popularization of advance mechanization
- 4. Poor soil status in the district
- 5. Poor economic status of farming community
- 6. Lack of integrated pest management (IPM) technology for horticulture crops
- 7. Inadequate post-harvest infrastructure results in wastage of the produce.

8. Inadequacy of agro-processing facility

Opportunities

- 1. Soil and agro-climatically there exists immense scope for increasing the area under horticulture.
- **2.** Establishment of Cold Storage facilities to improve price stabilization, manipulation of supply to the advantage of the seller and for better sorting, grading and packaging facilities.

Threats

- 1. Changing climatic scenario may adversely affect horticulture crops and disinterest farming community
- 2. Poor market infrastructure for marketing the fruit crops
- 3. Inadequate post harvest/ value addition units

Animal Husbandry Sector

Strength

- **1.** Traditional expertise in cattle rearing with almost every farm household possessing milch animals in variable numbers
- 2. Ample marketing avenues of animal based products and by products in and around the district
- **3.** Poultry expansion has potential as main feed ingredient "Yellow maize" is available in abundance.
- 4. Livestock sector engages a sizeable number of workforce in processing, transportation and sale of animal products

Weakness

- 1. Absence of organized viable milk marketing network.
- 2. High mortality and poor growth in calves
- **3.** Infertility and delayed calving
- 4. Repeated breeding and long calving interval
- 5. Poor disease management and breed up-gradation services

- 6. Low milk yield of buffalos and cows
- 7. Lack of proper management and feeding practices
- 8. Low availability of good quality feed & green fodder.
- 9. High cost of feed, medicines/vaccines and chicks
- **10.** Small and scattered herds
- 11. Unscientific practices

Opportunity

- 1. High demand for milk and other animal based products offers higher returns.
- 2. Tremendous scope for self employment and income generation.
- 3. Increased availability of organic manure fir vermin-compost units
- 4. Bridging yield gaps

Threats

- 1. Non descript poor graded bulls used for Breeding of cattle
- 2. Economic loss due to threat of out breaks of Poultry Diseases
- 3. Poultry feed expensive on account of import of other feed stuffs from other parts of country.

Fisheries Sector

Strengths

- 1. Fish production, productivity and acreage increasing steadily over years
- 2. Vast unfulfilled demand for fish with easy market accessibility
- **3.** Greater people participation and generation of employment opportunities especially for landless and marginal farmers

Weakness

1. Weak infrastructure for fish seed production and genetic up-gradation

- **2.** Lack of farmer oriented activities e.g. trainings, demonstrations, exposure visits, awareness camps etc. to update farmer's practices of fish production and management
- 3. Inadequate quality seed availability of high yielding fresh water fish

Opportunity

- 1. Immense scope for fish seed (fingerling) production to cater the needs of fish farmers
- 2. Ample scope for mobilizing untapped water resources such as water logged area and soil for aquaculture
- **3.** Integrated fish farming

Threats

- **1.** High mortality in juvenile and adult fish
- 2. Absence of any reputed centre/ source of fish feed, fisheries management institute
- 3. Lack of post harvest management practices by farmers
- **4.** Poor facilities for soil and water sample testing, disease diagnosis and post harvest infrastructures

Technology Inventory and Activity Chart - III

Include

Technology Inventory and Activity Chart – III

1. Names of research institutes, research stations, regional centres of NARS (SAU and ICAR) and other public and private bodies having relevance to location specific Technology needs

2. Inventory of latest technology available

S. No	Technology	Crop/enterprise	Year of release	Source of	Reference/citation
			or	technology	
			recommendatio		
			n of technology		
1.	H D 2967	Wheat	2011	IARI, New Delhi	
2.	HD 3086	wheat	2013	IARI, New Delhi	
3.	Pusa Mustard-28	Mustard	2012	IARI, New Delhi	
4.	B-370		2013	SKUAST-J	
5.	B-103	5.11	2013	SKUAST-J	
6.	B-104	Paddy	2008	SKUAST-J	
7.	B-118		2005	SKUAST-J	
8.	B-123	Paddy		SKUAST-J	
9.	Palampur -1	Oats		CSKHPKVV,	
	-			Palampur	
10.	Napier Hybrid	Perennial Grasses	2000	IGFRI	
11.	PMSY-3 PMS-4	Composite Maize	Under AVT	SKUAST-J	
12	GNG-1581	Chick Pea	2001	RAU	
13	PG 186	Chickpea	2011	GBPUAT pantanagar	
14	PKG 1	Chickpea	2011	GBPUAT pantanagar	
15	PR 19	Mustard	2016	GBPUAT pantanagar	
16	PR 20	Mustard	2016	GBPUAT pantanagar	

3. Activity Chart

Crop/Animal/ Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
	Low productivity of Maize	1) Non adoption/ Poo adoption of hybrids/ HYVs	1) Popularization of Hybrids / HYVs of Maize	Single component FLD to demonstrate HYV's	

	under rainfedareas	2) Imbalanced fertilizer application	Convincing farmer to use balanced fertilizer	Training and FLD programme	
Maize	of distt. Jammu	3) Improper Weed management 4) Insect pest infestation	doses Adoption of proper weed management Practices. Disease and pest management through IPM.	programme	
Wheat	Low productivity of and incidence of yellow rust in Wheat	 Mismatching of varieties for sowing time. Rain fed farming Poor soil moisture conservation. Imbalanced nutrient management. Poor weed management . Seed borne diseases 	 -Recommendation of varieties according to sowing time. -Introduction and use of drought resistant varieties - Integrated nutrient management strategy -use of basal NPK and N through broadcasting at proper time and in proper proportion. -Proper and timely weed management - Seed treatment with chemicals. 	-On farm trails - Demonstrations - Trainings - Diagnostic visits Field days	S. no 1& 2 of the Inventory of latest technology available
Paddy	Low yield of traditional Basmati rice	Low seed replacement rate Imbalance fertilizer application Poor Weed management Poor pest management	 Enhancement in seed replacement rate Introduction high yielding Basmati varieties Proper and timely weed management Seed treatment with chemicals. 	On farm trails - Demonstrations - Trainings - Diagnostic visits Field days	S. no 4, 5,6,7 & 8 of the Inventory of latest technology available
Pulses	Low productivity of Pulses under rainfedcond itions	Low productivity due to cultivation of local varieties. Improper fertilizer application Growing pulses on Unsuitable land. 4. Occurrence of insects/ diseases.	 Use of recommended Verities. Growing pulses on suitable land. Timely and proper use of plant protection material for control of pod borer in gram. Balanced fertilizer Application 	-Demonstration - Trainings - Field days	S. no 12 & 13 of the Inventory of latest technology available
Oilseeds	Low productivity of Oilseeds	1. Use of local germplasam for sowing 2. Unscientific Sowing.	-Use of HYV Varieties. - Balanced fertilizer Application. - Timely and proper use	-Demonstration - Trainings - Field days	S. no 3 of the Inventory of latest technology

Vegetables	Low productivity of vegetables	 3. Improper fertilizer use 4. Crop infestation with insects. 1. Lack of proper knowledge about scientific vegetable cultivation practices 2. Improper and un- timely use of plant protection measure. 3. Non- availability of organized marketing system. 	Insecticides -Cultivation of recommended and tested and tested Hybrids/ Varieties. - Proper and timely use of plant protection Measures.	-OFTs - Trainings Demonstrations (method) - Exposure visits - Formation of vegetables growers self-help groups	available
Fodder crops	Low Productivity	Lack of Knowledge No availability of high yielding fodder grasses/ crops	Introduction high yielding perennial fodder grasses Introduction of HYV of forage crops	-Trainings -Demonstrations	S. no 9 and 10 of the Inventory of latest technology available

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

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

- 1) HD-3086: Released in 20132 for timely sown under irrigated conditions. Av seed yield is 50.4 q/ha and matures in 143days. Possesses resistance against leaf rust and yellow rust diseases.
- HD-2967: Released in 2011 for timely sown under irrigated conditions. Av seed yield is 50.4 q/ha and matures in 143-150 days. Possesses resistance against leaf rust and yellow rust diseases.
- 3) VL-907 semi dwarf Grain Amber, Plant height- 80-85cms (rainfed) 95-100 cms (irrigated), Maturity duration: 175-180 days (rainfed) 165-170 days (irrigated), Others: Highly resistant to yellow and brown rust. Possess high iron (43.5-45.2 ppm), Zinc (35.4-36.3 ppm), Copper (5.29-5.12 ppm) and Manganese (42.5-41.8ppm). Very good chapatti quality.
- 4) basmati-370: Traditional timely sown under irrigated conditions. Av seed yield is 35 q/ha and matures in 150 days.
- 5) B-103: Released in 2017 for timely sown under irrigated conditions. Av seed yield is 40.4 q/ha and matures in 135-140 days
- 6) B-104 : Released in 2017 for timely sown under irrigated conditions. Av seed yield is 40.4 q/ha and matures in 135-140 days
- 7) B- 118: Released in 2017 for timely sown under irrigated conditions. Av seed yield is 40.4 q/ha and matures in 135-140 days

- Pusa basmati 1121: released during 2005 for irrigated conditions having av. seed yield of 40 q/ha. It matures in 140-145 days requires low input and produces high yield with better quality rice for export.
- 9) Pusa Mustard-28: Released in 2011 for early sown conditions. Av seed yield is 19.93 q/ha. Seed contains 41.5 % oil. AV maturity of this variety is 107 days and is a good substitute of Toria.
- 10) Palampur-1: High yielding Oats variety with production potential of 450-550 q/ha.
- 11) GNG-1581: Released in 2008 with production potential of 23.0 q/ha
- 12) PG-186: Released in 2014 with production potential of 18.0 q/ha
- 13) PKG-1: Released in 2014 with production potential of 15.0 q/ha
- 14) PR-19- Released from Pantnagar production potential of 15.0 q/ha
- 15) PR-20 Released from Pantnagar with production potential of 15.0 q/ha
- 16) Double dekalb maize hybrid from monsanto