ANNUAL REPORT 2016-17 Krishi Vigyan Kendra ,Reasi

1. GENERAL INFORMATION ABOUT THE KVK

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

Title thing the transfer of the priority in			
Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Reasi	01991-	01991-287802	kvkreasi@gmail.com
Vill. Tanda ,P/o Dera Baba Banda Bahadur	287802		
Teh. and Distt. Reasi Pin: 182311			

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

Address	Telephone		E mail
	Office	FAX	
Sher-e-Kashmir University of Agricultural	0191-	0191-2262028	vcskuastj@gmail.com
Sciences and Technology of Jammu. Main	2262133		
Campus, Chatha.	2262134		

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

Name	Telephone / Contact				
	Residence Mobile Email				
Dr .Banarsi Lal	01991-287802	9697625519	dr.banarsi2000@gmail.com		

1.4. Year of sanction:2005

1.5. Staff Position (as on 31st March 2017)

Sl. No.	Sanctioned post	Name of the incumbent	Age	Discipline with highest degree obt.	Pay Band & Grade Pay (Rs.)	Present basic (Rs.)	Date of joining in KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme	Dr.	40	Ph. D.	15600-	31980	21.06.07	Permanent	Gen
	Coordinator	Banarsi Lal		Agril Extension	39,100 (7000)				
2	Subject Matter Specialist	Mr. Lalit Upadhyay	40	M.Sc. Agroforestry	15600- 39,100 (6000)	27390	06.12.07	Permanent	Gen
3	Subject Matter Specialist	Dr. Mandeep Singh Azad	33	M.V. Sc. (Genetics & Breeding)	15600- 39,100 (5400)	22960	04.04.12	Permanent	Gen
4	Subject Matter Specialist	Dr.Sanjay Koushal	39	Ph.D. Agronomy	15600- 39,100 (5400)	21630	25.06.14	Permanent	Gen
5	Subject Matter Specialist	Dr. Suja Nabi Quereshi	40	Ph.D Fruit Sciences	15600- 39,100 (5400)	21630	19.06.15	Permanent	Gen
6	Subject Matter Specialist	Vacant				-	-	-	-
7	Programme Assistant	Mrs Shalini Kajuria	41	MSc	9300-34800 (4200)	15470	.2016	Permanent	Gen

8	Computer Programmer	Mr. Jagdish Kumar	43	M.Sc. IT	9300-34800 (4200)	16140	03.06.13	Permanent	SC
9	Farm Manager	Mr. Arvinder Kumar	39	M.Sc. Agril. Extension	9300-34800 (4200)	16140	11.08.08	Permanent	Gen
10	Accountant / Superintendent	Vacant							
11	Stenographer	Manhor Lal	30	B.Com.	5200-20200 (2400)	10770	19.01.12	Permanent	SC
12	Driver	Mohd Iqbal	43	10th	5200-20200 (1900)	10060	23.7.2010	Permanent	Gen
13	Driver	Manjeet Singh	46	8th	5200-20200 (1900)			Permanent	Gen
14	Supporting staff	Vacant					2016	Permanent	
15	Supporting staff	Sanjay Kumar	39	10th	5200- 20200(1300)	8600	1.06.2010	Permanent	Gen

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	0.118
2.	Under Demonstration Units	0.008
3.	Under Crops	5.00
4.	Orchard/Agro-forestry	0.36
5.	Others (specify)	Rest uncultivable. More than 5
		ha eroded in floods.

1.7. Infrastructural Development:

A) Buildings

		Source			Stag	e			
S.		of		Complete			Incomplete		
No.	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction	
1.	Administrative Building	ICAR	Feb,2009	500	62.49	-	-	-	
2.	Farmers Hostel	ICAR	Feb,2009	305	43.85	-	-	-	
3.	Staff Quarters	ICAR	Feb,2009	400	30.17	-	-	-	
4	Demonstration Units	ICAR							
5	Dairy	ICAR	Feb,2008	85 (1)	4.87	-	-	-	
6	Poultry	KVK	Jan, 2014		0.50				
7	Vermicompost	KVK	Feb, 2014		0.30				
8	Mushroom	KVK	Nov. 2013		0.05				
9	Fencing	ICAR	-	-	-	-	-	Incomplete / broken	

10	Rain Water	-	-	-	-		
	harvesting system						
11	Threshing floor	-	-	-	-		
12	Farm godown	-	-	-	-	-	

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
1.Tractor H.M.T.	2006	422650	55 hrs (app) (2016-	Working
			17)	
2.TATA Sumo Victa	2006	500000	7570 km (2016-17)	Working
3. Hero Honda	2011	50000	684 km(2016-17)	Working
motorcycle				

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Leveller	2006	7000	Good
Disc Harrow	2006	23100	Good
Disc plough	2006	20750	Good
Cultivator	2006	15600	Good
Trolley	2006	74000	Good
HP Computer (1 No)	2007	40000	Good
UPS 1Kv	2007	8336	Good
LCD Projector	2007	100387	Good
Printer (hp Laserjet)	2007	13520	Good
HP Computer (1 No) (old)	-	-	Unserviceable
HP Computer (01 no) & printer& UPS	2010	42457	Good
SLR Digital camera (Sony)	2010	24900	Good
Fax machine (Sharp)	2010	7000	Good
Xerox Machine	2011	-	Good
HP Computer	2012	410000	Good
Weighing balance (100 kg)	2012	8000	Good
Maharaja Whiteline heaters	2013	9870	Good
Compaq LED monitor	2013	11000	Good
HP colorjet printer	2013	15000	Good
Sony handycam camcorder	2013	19990	Good
HP Scanjet Scanner	2013	4200	Good
Wimax Wi fi internet	2013	1575	Good
Podium	2013	11000	Good
UPS Microtek (2 nos)	2014	3450	Good
Router (D-Link)wi-fi (1 no) 2no USB dongal	2014	5250	Good
Poly green house structure (1 no)	2015	29582	Good

1.8. A). Details SAC meeting* conducted in the year 2016-17

Sl.	Date	Name and Designation of Participants	No. of	Salient	Action
No.			absentees	Recommendations	taken
1.	8.03.2017	1. Dr. R.K Arora, Assoc Director Extension,	02	Annexure	Annexure
		2. Sh. Ajay Gupta Chief, HDO, Reasi		Minutes added	

	3. Sh. P.L.Bhat, Chief Agriculture Officer Reasi 4. Sh. Pharet Physher. Agett. Director		
	4. Sh. Bharat Bhushan, Asstt. Director		
	Fisheries		
	5.M.A.Malik ,VAS, Reasi		
	6.Ab.Rashid,Flock Supervisor, Reasi		
	7.Sh. A.P. Singh, Branch Manager, J&K Bank		
	Dera		
	8.Avtar Singh, JAEO, Reasi		
	9.Sh.R.C.Pandoh,AEO,Dangakote		
	8. Sh. Tilak Raj, Progressive farmer		
	9. S. Jatinder Pal Singh Sodhi, Progressive		
	Farmer		
	10. Smt. Neelam Devi, Progressive Farm		
	Women		
	11. Smt. Sunita Devi, Progressive farmer		
	12. Sh.Vikrant Sharma, Distt.Flor. Officer,		
	Reasi		
	13. Dr. Banarsi Lal, PC		
2.			

^{*} Attach a copy of SAC proceedings along with list of participants

2. DETAILS OF DISTRICT (2016-17)

The twin districts of Reasi and Udhampur falls in the mid hill zone of the state. Most part both the districts is rain fed with only 7 per cent irrigated area in Reasi and about twenty percent area is irrigated in Udhampur. Major crops of the districts are Maize, Wheat, Paddy, Mustard and Pulses like black gram (mash) and Green gram (moong). The other crops which have been making a significant impact on economy of the farmers are seasonal vegetables, potato, and fodder. There is ample scope for growing mushrooms, apiaries for honey and backyard poultry. Horticulture is another very important part of agriculture in these districts. Citrus and mango are important crops in Reasi and Pouni blocks while stone fruits and walnuts have great scope in higher elevations. The district has immense potential for growing spices namely Onion, garlic, ginger and turmeric in specific pockets. The major crop rotations followed are as follows.

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

S. No	Farming system/enterprise
1	Maize-Wheat
2	Paddy-Wheat
3	Mash-Wheat
4	Maize- Mustard
5	Horticulture crops
	a: (Vegetables like Tomato, Cole crops, cucurbits, Brinjal and chilies.
	b. Fruit crops like Mango, Citrus, Guava, Litchi, Peach, plum and apricot.
	c. Garlic, Ginger and Turmeric are potential spices of some pockets

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

S. No	Agro-climatic Zone	Characteristics
1	Subtropical zone	This includes areas between 380-800m amsl. The lower belt of Reasi where the KVK is located falls in this zone. This area experiences hot summers followed by cold winters and area also experiences autumn frost. The major chunk of

		precipitation is received during monsoons. The soils are mostly sandy loam and					
		clay loam with normal OM. Most of the area is rain fed with very little irrigation.					
		The annual rainfall of the district is 1000 to 1100 mm. major chunk of it is received					
		from may-September. The mean maximum and minimum temperature ranges					
		between 35- 40 °C and 10-12 °C respectively. Agriculture in this area is diverse and					
		is completely rain fed. The area has low productivity and low input usage.					
2	Intermediate Zone	Situated between 800-1500m, amsl, this area experiences definite winters and a hot					
		spell of summer. The major chunk of precipitation is received in July-Aug. Most					
		part of Udhampur and Reasi falls in this zone.					
		The annual rainfall of the district is about 1100 mm. The mean maximum and					
		minimum temperature ranges between 35- 40 °C and 10-12 °C respectively.					
		Agriculture in this area completely rain fed.					
3	Temperate zone	It includes few areas falling above 1500m amsl. This area experiences chilling					
		winters and major cropping season is Kharif, during which moisture is available for					
		growing crops. These areas also experiences snow in winter thus minimum					
		temperatures falls below zero degrees during these months.					

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha	
1	Sandy loam	Medium O. M. content, Low to medium N and Medium		
		phosphorus and High in K content. Illite is dominate clay		
		mineral. The soils are slightly acidic.		
2	Clay loam	Medium O. M. content, Low to medium N and Medium		
		phosphorus an d High in K content. Illite is dominating clay		
		mineral. The soils are slightly acidic.		

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

S. No	Crop	Area (ha)	Production (Qtls)	Productivity (Qtls /ha)
1	Maize	29000	531000	18.40
2	Wheat	26000	517000	16.20
2	Paddy	10000	230000	23.00
4	Pulses	2320	16200	7.10
5	Millets	12428	-	-
6	Oil seed	2415	15200	4.50
7	Vegetables	3237	536000	166

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)
		Maximum	Minimum	

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

Category	Population	Production	Productivity
Cattle			
Crossbred	79476 (Udh)		
	15889 (Reasi)		
Indigenous	316099 (Udh)		
	126575 (Reasi)		
Buffalo	136104 (Udh)		
	78780 (Reasi0		
Sheep			•
Crossbred	175337 (Udh)		

	210382 (Reasi)	
Indigenous	245268 (Udh)	
	300474 (Reasi)	
Goats	161432 (Udh)	
	174774 (Reasi)	
Pigs		
Crossbred		
Indigenous		
Rabbits		
Poultry		
Hens	117564 (Udh)	
	89767 (Reasi	
Desi		
Improved		
Ducks		
Turkey and others		

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

2.7 Details of Operational area / Villages (2016-17)

				1 mages (2010 17)	•	
Sl. No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Reasi	Reasi	Panasa, Gran More, Seela and Mari	Wheat, maize, Dhingri, black gram, green gram, Chickpea, fruits and vegetables.	1.Low production 2. Lack of awareness on improved varieties of pulses. 3. Insect-pest and disease attacks 4. No information on Weed management in cereals and pulses. 5. Low egg laying in local breeds of poultry.	1. Promotion of improved varieties of pulses. 2. Promotion of high yielding/improved varieties of cereals. 3. Integrated disease and insect-pest management. 4. Weed management in cereals and pulses. 5. Promotion of backyard poultry. 6. Management of loose smut and yellow rust of wheat. (7)Introduction of hybrid/improved varieties of vegetables

2	Reasi	Pouni	Later, Bharakh, Malad, Talwara, ,Pouni, Kanha,Kha ilad, Khairal, Kansi Patta, Kansi Brahmna	Wheat, maize, vegetables, Dhingri, spices, oilseeds, poultry farming.	1. Lack of knowledge of hybrid varieties of maize. 2. Use of conventional planting material for the spices. 3. Diseases in turmeric and ginger. 4. Occurrence of Paddy blast. 5. Loose smut and yellow rust diseases in wheat crop. 6. Lack of knowledge of scientific cultivation of vegetables. 7. Lack of knowledge of improved varieties of oilseeds and pulses. 8. Lack of knowledge on commercial organic vegetables growing 9. Senile orchards	1. Promotion of hybrid varieties of maize. 2. Promotion of backyard poultry. 3. Replacement of spices varieties. 4. Management of Rhizome rot in spices. 5. Promotion of improved varieties of oilseeds and pulses. 6. Management of loose smut and yellow rust of wheat. 7. Scientific mushroom cultivation 8. Promotion of commercial organic farming 9. Promotion of rejuvenation of orchards
3	Reasi	Reasi	Fadeha,Raj wal,Dera, Tanda, Seri, Chumbian Mansoo, Kanjali, Bhabbar, Kundra, Shafanoo.	Maize/wheat/ve getables/poultry production/ sericulture/ dhingri/floricult ure	1. Lack of availability of hybrid/high yielding varieties of creals. 2. Lack of knowledge of scientific breeding, feeding and management of animals. 3. Lack of diseases and insect-pests management in crops. 4. Lack of awareness for fruit and vegetables processing. 5. Sericulture related seasonal problems. 6. Lack of knowledge of hybrid varieties of marigold. 7. Lack of knowledge of weedicides in cereals. 8. Lack of knowledge of scientific marigold cultivation	1. Promotion of new single cross hybrids of maize and high yielding varieties of wheat. 2. Insect and disease management in cereals. 3. Promotion and formation of SHGs. 4. Fruit and vegetable processing techniques. 5. Promotion of improved sericulture. 6. Promotion of hybrid varieties/improved varieties of marigold. 7. Management of weeds in cereals. 8. Promotion of scientific marigold cultivation

4.	Udha mpur	Tikri	Majalta/ Chirai Muthal,Le hnu/Sundr ani	Maize/wheat/pu lses/oilseeds/Pu ltry	1. Low yield of cereals due to unscientific cultivation. 2. Lack of awareness on improved varieties of oilseeds and pulses. 3. Lack of awareness on seed treatment in cereals. 4. Lack of awareness on weed management in maize. 5. Lack of knowledge of egg laying varieties of poultry.	 Promotion of new varieties of cereals in the area. Promotion of improved varieties of oilseeds and pulses. Seed treatment in cereals. Weed management in maize. Promotion of egg laying varieties of poultry.
5	Udha mpur	Chena ni	Sudhmaha dev, Basht, Chenani, Gauri ,Beli	Vegetables Maize/mash	Poor yields Old varieties Poor soil management and indiscriminate plant protection. Lack of knowledge of fruit processing. Lack of single cross new hybrids of maize.	 Promotion of new hybrids of maize, integrated pest management. introduction of new variety of mash Promotion of olive cultivation. Promotion of fruit processing in the area. Introduction and evaluation of new vegetable hybrids.
6.	Udha mpur	Pancha ri	Panchari,S addal,Dubi Galli	Poultry/maize/ wheat/dairy	1. Low yield of cereals due to unscientific cultivation. 2. Lack of awareness on improved varieties of oilseeds and pulses. 3. Lack of awareness on seed treatment in cereals. 4. Lack of awareness on weed management in maize. 5. Lack of knowledge of egg laying varieties of poultry.	1. Awareness on new varieties of cereals in the area. 2. Awareness on new varieties of oilseeds and pulses. 3. Seed treatment in cereals. 4. Weed management in maize. 5. Awareness on egg laying varieties of poultry.

7.	Reasi	Katra	Sirah/Pang al/ Kulia/Cha mba, chak bhakta/ Moori/ Didimorh/ Agharjitto, Dheerti, Chamarya	Wheat, maize, vegetables, oilseeds,pulses,f loriculture, poultry	Low productivity of flowers. Low production of cereals. Lack of availability hybrid/improved varieties' of vegetables Lack of awareness of dhingri/mushroom cultivation Lack of knowledge of scientific cultivation of oilseeds and pulses. Lack of knowledge of high yielding/hybrid varieties of horticultural crops Lack of scientific knowledge diversified agriculture	Awareness on hybrid/improved varieties of marigold in the area. Introduction of single cross maize hybrids. Superior vegetable seeds. Introduction of hybrid varieties of vegetables Promotion of improved varieties of oilseeds and pulses. Promotion of egg laying varieties of poultry. Introduction of new fruit crops varieties. Promotion of scientific diversification in agriculture
8.	Reasi	Thuro o	Dharmari/ Thoru/Narl oo/Arnas/S alal/Sajoga /Thuroo	Maize/wheat/ve g./poultry/mush room cultivation/puls es	1. Low productivity of maize crop. 2. Lack of awareness of improved/hybrid varieties of vegetables. 3. Low production of pulses. 4. Lack of awareness of egg laying varieties of poultry 5. Lack of knowledge in scientific cultivation of dhingri/mushroom 6. Lack of technical knowledge of temperate fruits.	 Introduction of single cross hybrids of maize. Introduction of improved varieties of pulses. Introduction of hybrid var. of vegetables. Introduction of egg laying variety of poultry Scientific cultivation of dhingri. Promotion of scientific cultivation of temperate fruits

9.	Reasi	Mahor e	Sungdi/Ba ndi//Mahor e	Maize/veg./poul try/mushroom cultivation/puls es/fruits	1. Low productivity of maize crop. 2. Lack of awareness of improved/hybrid varieties of vegetables. 3. Low production of pulses. 4. Lack of awareness of egg laying varieties of poultry 5. Lack of knowledge in scientific cultivation of dhingri/mushroom 6. Lack of knowledge of training and pruning in temperate fruits.	 Introduction of single cross hybrids of maize. Introduction of improved varieties of wheat. Introduction of hybrid var. of vegetables. Introduction of egg laying variety of poultry Scientific cultivation of dhingri. Scientific cultivation of fruit plants Introduction of pruning and training of temperate fruits.
10.	Reasi	Arnas	Arnas/Sala l	Maize/veg./poul try/mushroom cultivation/puls es/fruits	1. Low productivity of maize crop. 2. Lack of awareness of improved/hybrid varieties of vegetables. 3. Low production of pulses. 4. Lack of awareness of egg laying varieties of poultry 5. Lack of knowledge in scientific cultivation of dhingri/mushroom (6) Lack of knowledge in scientific cultivation of temperate fruit plants	 Introduction of single cross hybrids of maize. Introduction of improved varieties of wheat. Introduction of hybrid var. of vegetables. Awareness on egg laying variety of poultry Scientific cultivation of dhingri. Scientific cultivation of fruit plants Scientific cultivation of fruit plants.

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Cereals-Maize	Introduction of single cross commercial maize hybrids, Integrated Nutrient Management,
	weed management, common insect / pests management
Wheat	Introduction of new high yielding varieties of wheat, seed treatment, weed management,
	disease and pest management including termite control and rodents control. Seed
	production of new varieties.
Fodder	Promotion of new varieties, Increasing area under fodder crops. Round the year fodder
	production.
Oilseed	Introduction of new improved varieties, Promotion of insect pest management, control of
	Alternaria blight, Use of balanced nutrition. INM in oilseeds.
Pulses	Promotion of improved varieties, Weed management, insect /pest and disease
	management.

Vegetables	Promotion of hybrids, introduction of new varieties. Diseases and pest management. Round the year vegetable cultivation, healthy nursery raising of vegetable crops, kitchen gardening.
Animal husbandry	To increase production potential of livestock by improved breeding, feeding and management practices. Promotion of backyard poultry
Mushroom cultivation	-Promotion of mushroom cultivation, growing of more species for year round cultivation.
Floriculture	Promotion of loose flower cultivation in the district, integrated nutrient management, introduction of new varieties. Disease management in marigold.
Agro-forestry	Fodder trees, Medicinal & Aromatic plants, Environment conservation.
SHGs/Farmers clubs	Formation, management and strengthening of SHGs/farmers clubs.
Fruits	Insect-pest and disease management in fruit plants.
Organic Farming	Promotion of organic farming, preparation of organic inputs

^{*} An example for guidance only

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2016-17

OFT (T	echnology Asses	ssment and	l Refinement)	FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)							
		1	,	2							
Numb	oer of OFTs	Numbe	r of Farmers	Numb	er of FLDs	Number of Farmers					
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement				
10	11	40	44	241	350	241	350				
Trainin	g (including spe	onsored, v	ocational and ot	her trainii	ngs	Extension	n Activities				

car	ried under	Rainwater Ha	nit)						
		3	4						
Nun	nber of Co	urses		ımber of rticipants	Number	of activities	Number of participants		
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievem ent	Targets	Achieve ment	
Farmers	54	54	1120	1194	20	21	400	420	
Rural youth	10	6	150	184					
Extn. Functionaries	10	07	150	136					

Seed P	roduction (Qtl.)	Planting material (Nos.)					
	5	6					
Target	Achievement	Target	Achievement				
	21.5 qt.		7500				

Livestock, poultry strai	ns and fingerlings (No.)	Bio-products (Kg)				
	7	8				
Target	Achievement	Target	Achievement			

3.B. Abstract of interventions undertaken

							I	nterventio	ns					
S. N	Thrust area	Crop/ Enterp rise	Identif ied Proble m	Title of OFT if any	Title of FLD if any	Traini ng	Number of Training (Youths)	(extensio	Exte nsio n activi ties (No.)	Supply of seeds (Qtl.)	Supp ly of plant ing mate rials (No.	Sup ply of live stoc k (No .)	of pro	pply bio duct s Kg
1.	Weed manage ment in cereals	Maize	Low yield in maize crop due to weed infestat ion	Weed manage ment in maize	Introdu ction of hyb. Var. of maize	03	-	-	02	5qt	-	-		1
2.	Integrat ed weed manage ment in pulses	Mash	Low yields due to weed infestat ion in mash	Integrate d weed manage ment in mash	Introdu ction of improv ed varieti es of mash	2	-	-	02	0.60 qt	-	-	1	-
3.	Manag ement og ginger rot	Ginger	Low yield in ginger due to manag ement of ginger rot	Manage ment of ginger rot		2	-		-1	-	1	-	1	-
4.	Evaluat ion of wheat varietie s	Wheat	Lack of awaren ess on high yieldin g varieti es in wheat	Varietal evaluativ e in wheat	Promot ion of improv ed HYV s of wheat	02	-		01	5 qt.	-	-	-	-

	Tu ana a -	Doultur	T	Effect of	II.a.a.f	02		1	1			172		
5.	Increas	Poultry	Low	Effect of	Use of	02	-	1	2	-	-	172	-	-
	e in	birds	growth	concentr	high							5(bi		
	growth		due to	ate	produc							rds)		
	and		use of	mixed	ing									
	product		low	feeding	varieti									
	ion in		produc	with	es									
	Poultry		ing	maize										
	birds		varieti	and										
			es and	standardi										
			use of	zed (Pre										
			maize	starter,										
			mixed	starter,										
			ration.	finisher)										
				feeding										
				on the										
				growth										
				of										
				poultry										
				birds										
6.	Parasiti	Shep	Poor	Effect	Introdu	2		_	1	_	_	100	_	_
0.	c	and	growth	and role	ction	2	-	-	1	-	-	(U	_	_
			of	of leaf	of leaf							M		
	control	goat												
	in		sheep	meals on	meal							MB		
	sheep		and	growth,	and)		
	and		goat	producti	comple									
	goat			on and	te feed									
				parasitic	block									
				control										
				in sheep										
				and goat										

3.1 Achievements on technologies assessed and refined

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

Thematic areas	Cereal	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal	1									1
Evaluation										
Seed / Plant										
production										
Weed			2							2
Management										
Integrated										
Crop										
Management										
Integrated										
Nutrient										
Management										
Integrated										
Farming										

System						
Mushroom						
cultivation						
Drudgery						
reduction						
Farm						
machineries						
Value						
addition						
Integrated						
Pest						
Management						
Integrated	2					2
Disease						
Management						
Resource						
conservation						
technology						
Small Scale						
income						
generating						
enterprises						
TOTAL	3	2				5

^{*} 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	Plantation crops	Tuber Crops	TOTAL
Varietal										
Evaluation										
Seed / Plant						2				2
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			2	·		2

^{*} 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		1						1
Management								
Value Addition								
Production and								
Management								
Feed and Fodder								
Small Scale income								
generating								
enterprises								
TOTAL								1

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	1							1
Management								
Disease of								
Management								
Value Addition								
Production and								
Management								
Feed and Fodder								
Small Scale income								
generating								
enterprises								

TOTAL				1

3.2. Achievements on technologies Assessed and Refined

3.2.1. Technologies Ass Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation Integrated Pest Management	Wheat	Varietal evaluation in wheat	4	4	0.20
Integrated Crop Management					
Integrated Disease Management	Ginger Chilli	Management of ginger rot Management of chilli wilt	4 4	4 4	0.10
Small Scale Income Generation Enterprises					
Weed Management	Maize Mash	Weed Management in maize Integrated weed management in mash	4	4	0.2
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition -					
Drudgery Reduction -					
Storage Technique					
Mushroom cultivation -					
Total			20	20	

3.2.2. Technologies Refined under various Crops

				Number of	Area in ha (Per trail
Thomatic areas	Crop	Name of the	No. of	farmers	covering all the
Thematic areas	Crop	technology assessed	trials		Technological
					Options)

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management	Mango	Effect of 2,4-D in mango	4	4	0.5
	Brinjal	Effect of spacing on yield of brinjal	4	4	0.5
Integrated Disease Management		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			8	8	

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	Livestock	Early detection of mastitis using California Mastitis Test and	4	4

	composition of different antibiotics		
Value addition			
Production and management			
Feed and fodder			
Small scale income generating enterprises			
Total	4	4	

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	Sheep and goat	Effect and role of leaf meal on the growth ,production and parasitic control in sheep and goat	4	4
Disease management				
Value addition			_	
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total			3	5

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

A. Technology Assessment

Trial 1

1) Title : Weed management in maize

2) Problem diagnose/defined : Low productivity due to weed in maize crop

3) Details of technologies selected for assessment /refinement

: T1 Farmer's Practice: Two Hand weeding and hoeing after 20 and 45 DAS

T2 Recommended: Pre-emergence Atrazine 1.5kg / ha T3: Laudis 42% SC (tembotrione) 120 g /ha 25 DAS

4) Source of technology : SKUAST-J 5) Production system : Wheat-maize

thematic area :

6) Thematic area : Weed management

7) Performance of the

Technology with performance indicators: T1:20.4q/ha

T2: 22.6 q/ha T3: 29.6 q/ha

8) Final recommendation for

micro level situation : T3 gave the better

results and farmers can use it for the eradication of weeds

9) Constraints identified and

feedback for research : Lack of knowledge of weedicides and lack of availability of weedicides

10) Process of farmers

participation and

their reaction : Framers were keenly interested to use the quality weedicides as they

were ready to adopt technology

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Maize	Rainfed	Low productivity due to weed in maize crop	Weed management in maize	4	T1 Farmer's Practice: Two Hand weeding and hoeing after 20 and 45 DAS T2 Recommended: Pre-emergence Atrazine 1.5kg / ha T3:Laudis 42% SC (tembotrione) 120 g /ha 25 DAS	Yield	T1:20.4q/ha T2: 22.6 q/ha T3: 29.6 q/ha	T3 gave the better results and farmers can use it for the eradication of weeds gave the better results and farmers can use it for the eradication of weeds	Farmers were satisfied with

^{*} No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1 Farmer's Practice: Two Hand weeding and hoeing after 20 and 45 DAS T2 Recommended: Pre-emergence Atrazine 1.5kg / ha T3 :Laudis 42% SC (tembotrione) 120 g /ha 25 DAS	T1:20.4q/ha T2: 22.6 q/ha T3: 29.6 q/ha	T1-26500 T2-29800 T3-33840	T1-1:2.28 T2-1:2.78 T3-1:3.02

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

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

Technology Assessment

Trial 2

1) Title Integrated weed management in mash Problem diagnose/defined Low productivity due to weed in pulses 2)

3) Details of technologies

selected for assessment

/refinement T1 Farmer's Practice One Hand weeding after 30DAS

T2 Recommended:Pendimethalin@30 EC 1ltr/ha +1 HW

30 DAS

Imazethapyr100g/ha 15 and 30 DAS (50 g each)

4) Source of technology SKUAST-J

Production system 5)

thematic area Rainfed

Integrated weed management 6) Thematic area

7) Performance of the 5.45 q/ha

> 7.2 q/ha 8.4 q/ha

8) Performance indicators:

Final recommendation for Technology with Imazethapyr100g/ha gave the better results as compared

to T2 and T3

9)

micro level situation

Constraints identified and Lack of knowledge of weedicides and lack of availability of

feedback for research :

weedicides

10) Process of farmers

participation and

their reaction Farmers were satisfied with the results and were ready to use

this technology on their fields

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Mash(Black gram)	Rainfed	Low productivity due to weed in pulses	Integrated weed management in mash	4	T1Farmer's Practice One Hand weeding after 30DAS T2 Recommended:Pendimethalin@30 EC 1ltr/ha +1 HW 30 DAS T3 :Imazethapyr100g/ha 15 and 30 DAS (50 g each)	yield	5.45 q/ha 7.2 q/ha 8.4 q/ha	Imazethapyr100g/ha gave the better results as compared to T2 and T3	Farmers were satisfied with the results and were ready to use this technology on their fields

^{*} No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1Farmer's Practice One Hand weeding after 30DAS	T1-5.45 q/ha		
T2 Recommended:Pendimethalin@30 EC 1ltr/ha +1 HW 30 DAS		T1-25500	T1-1:2.21
T3:Imazethapyr100g/ha 15 and 30 DAS (50 g each)	T2-7.2 q/ha	T2-34500	T2-1:2.72
		T3-39700	T3-1:3.12
	T3-8.4 q/ha		

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

^{**} Give details of the technology assessed or refined and farmer's practice

1) Title : Early Detection of mastitis using California Mastitis Test and

comparison of different antibiotics

2) Problem diagnose/defined : Low growth and milk productivity due to mastitis

3). Details of technologies selected for

assessment/refinement: T1: Enrofloxacin

T2:Gentamycin

T3: intrammamry Cephalosporins
4. Source of technology :

5. Production system thematic area: Poor milk yield due to mastitis

6. Thematic area : Feed and nutrient management in poultry

7. Performance of the Technology

with performance indicators : Initial results were satisfactory and the whole year results

awaited

8. Final recommendation for

micro level situation : In progress

9. Constraints identified and

feedback for research : Lack of awareness on use of antibiotic for mastitis control

10. Process of farmers participation

and their reaction : Initial results were effective with good monitorial returns

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology refined	Parameters	Data on the parameter	Results of refinement	Feedback from the farmer	Justifi cation for refinement
1	2	3	4	5	6	7	8	9	10	11
Livestock		Low growth and milk production	Early Detection of mastitis using California Mastitis Test and comparison of different antibiotics	5	: T1: Enrofloxacin T2:Gentamycin T3: intrammamry Cephalosporins	Weight gain,growth,disease incidence,milk yield	In progress	In progress	Initial results were effective	In progress

^{*} No. of farmers

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
In progress	In progress	In progress	In progress

^{*}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

A. Technology Assessment

Trial 5

1) Title : Evaluation of different wheat varieties.

2) Problem diagnose/defined : Low yield of wheat due to use of local wheat varieties

3) Details of technologies

selected for assessment

/refinement : T0-farmer practice

T1-JAUW-598 T2-Raj.3765 T3-PBW-175

:

4) Source of Technology : SKUAST-J

5) Production system

thematic area : Rainfed cereal based system

6) Thematic area : Varietal evaluation

7) Performance of the

Technology with

performance indicators : Results of PBW-175 were better than the other wheat varieties.

8) Final recommendation for

micro level situation : PBW-175 gave better results.

9) Constraints identified and

feedback for research : Lack of availability of quality wheat seeds in Reasi distt.

10) Process of farmers

participation and

their reaction Farmers were satisfied after observing the demonstrated fields

of OFTs

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Wheat	Rainfed	Low productivity of local varieties	Evaluation of different wheat varieties	4	T0-farmer practice T1-JAUW-598 T2-Raj.3765 T3-PBW-175	Yield	T0-18.3 T1- 24 q/ha T2- 26.0 q/ha T3- 30.0 q/ha	Results of PBW-175 were better than the other wheat varieties.	Farmers were satisfied after observing the demonstrated fields of OFTs and were eager to adopt the technology

^{*} No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio	
11	12	13	14	
T0-farmer practice T1-JAUW-598 T2-Raj.3765 T3-PBW-175	T0-18.3 T1- 24 q/ha T2- 26.0 q/ha T3- 30.0 q/ha	T0-21215 qt/ha T1-23450qt/ha T2-25100qt/ha T3-27300qt/ha	1:2.10 1:2.23 1:2.78 1:3.12	

^{*}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

A. Technology Assessment

1) Title : Management of Ginger Rot.

2) Problem diagnose/defined : Low productivity due to weed in pulses

3) Details of technologies

selected for assessment/refinement : T1-Farmers' practice

T2-Recommended practice

(Seed treatment with Mancozeb + bavistin or Ridomil) T3-Recommended practice + Drenching bavistin or ridomil

4) Source of technology : SKUAST-J

5) Production system

thematic area : Rainfed

6) Thematic area : Spices production

7) Performance of the

Technology with

performance indicators: T1 - 90 q/ha

T2 - 125 q/ha T3 - 140 q/a:

8) Final recommendation for

micro level situation : T3-Recommended practice + Drenching bavistin or ridomil gave the

better results

9) Constraints identified and

feedback for research : Lack of availability of quality fungicides

10) Process of farmers

participation and

their reaction : Farmers were satisfied after observing the results of OFTs.

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Ginger	Rainfed	Low productivity of ginger due to rhizome rot of ginger	Management of Rhizome rot in Ginger.	3	T1-Farmers' practice T2-Recommended practice (Seed treatment with Mancozeb + bavistin or Ridomil) T3-Recommended practice + Drenching bavistin or ridomil	Yield	T1- 90 q/ha T2- 125 q/ha T3-140 q/a	T3- Recommended practice + Drenching bavistin or ridomil gave the beter results	F armers were satisfied after observing the results of OFTs.

* No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1-Farmers' practice T2-Recommended practice (Seed treatment with Mancozeb + bavistin or Ridomil) T3-Recommended practice + Drenching bavistin or ridomil	T1- 90 q/ha T2- 125 q/ha T3-140 q/a :	3,00,000 3,60,000 4,1,0000	1:2.48 1: 3.01 1: 3.35

A. Technology Assessment

Title : Chilli wilt disease management.
 Problem diagnose/defined : Low yield of chilli due to chilli wilt

3) Details of technologies selected for assessment

/refinement : T1-Farmers' practice (without Seed treatment).

T2-Recommended practice(Seed treatment with

Carbendazim+Thiram 1:1 ratio).

T3- T2 + Drenching with Carbendazim)

4) Source of Technology: SKUAST-J

5) Production system

thematic area : Rainfed

6) Thematic area : Spices production

7) Performance of the Technology with

performance indicators : Farmers were satisfied after observing the results of T3 i.e.130qt/ha

8) Final recommendation for micro level situation : T3- T2 + Drenching with Carbendazim gives the better

results

9) Constraints identified and

feedback for research : Lack of knowledge of seed treatment in chilli

10) Farmer participation and

their reaction : Farmers were satisfied after observing the results of OFTs.

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Chilli	Rainfed	Low productivity of chilli due to chilli wilt	Chilli wilt disease management.	3	T1-Farmers' practice (without Seed treatment). T2-Recommended practice(Seed treatment with Carbendazim+Thiram 1:1 ratio) .T3- T2 + Drenching with Carbendazim)	Yield	75.0 q/ha 105. q/ha 150.0 q/ha	T3 gave the better results	Farmers were satisfied after observing the results of OFTs.

^{*} No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1-Farmers' practice (without Seed treatment).	75.0 q/ha	3,05,000	1:2.65
T2-Recommended practice(Seed treatment with Carbendazim+Thiram 1:1 ratio).	105. q/ha	3,65,000	1: 3.50
T3- T2 + Drenching with Carbendazim)	150.0 q/ha	4,20,000	1:3.85

^{*}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

6)

A. Technology Refinement

1) Title : Effect of spacing on the yield of brinjal.

2) Problem diagnose/defined : Low productivity due to lack of knowledge of spacing in brinjal

crop

3) Details of technologies

selected for assessment

/refinement : T1 - Farmer practice

T2 - 60x45cm T3 - 90x60cm

4) Source of technology : SKUAST-J

5) Production system

thematic area : Rainfed
Thematic area : ICM

7) Performance of the : T3 gave the best result (155qtl/ha) as compared to T2(140qtl/ha)

Technology with and T1(110qtl/ha)

Performance indicators

8) Final recommendation for T3 gave the better results as compared to T2 and T3

micro level situation :

9) Constraints identified and

feedback for research : Lack of knowledge of spacing in brinjal crop

10) Process of farmers

participation and their

reaction to use this technology : Farmers were satisfied with the results and were on their fields

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Brinjal	Rainfed	Low productivity due to lack of knowledge of spacing in brinjal crop	Effect of spacing on the yield of brinjal.	4	T1-Farmer practice T2-60x45cm T3-90x60cm	yield	T1- 110qtl/ha T2- 140qtl/ha T3 - 155qtl/ha	T3 gave the best result (155qtl/ha) as compared to T2(140qtl/ha) and T1(110qtl/ha)	Farmers were satisfied with the results and were ready to use this technology on their fields

^{*} No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1-Farmer practice	T1-110qtl/ha T2-140qtl/ha	T1-24500	1:2.02
T2-60x45cm	T3 -155qtl/ha	T2-33700	1:3.10
T3-90x60cm		T3-39900	1:3.60

^{*}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

A. Technology Refinement

1) Title: Effect & Role of leaf meals on growth, production and parasitic control in sheep and goat

2) Problem diagnose/defined: Low growth and productivity due to nutrient and mineral deficiency

3) Details of technologies selected for assessment/refinement: T1-Farmer practice

T2-Leaf meal

T3-Complete Feed block

4). Source of technology : SKUAST-Jammu

5) Production system thematic area: Malnourished animals due to nutrient and mineral deficiency in

feed and fodders

6). Thematic area : Feed and nutrient management in sheep and goat

7) Performance of the Technology

with performance indicators : T2 gave the better result and helped in small control of parasitic load

in sheep and goats. Decrease load of Eggs in feaces and overall improvement in health status and weight gain in comparison to other

animals

8) Final recommendation for

micro level situation : T2 gave the better result and helped in small control of

parasitic load in sheep and goats.

9) Constraints identified and

feedback for research : Lack of awareness on use of balanced ration and quality feed

and fodders.

10) Process of farmers participation

and their reaction : Farmers were satisfied with the results and were ready to use

this technology on their fields

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology refined	Parameters	Data on the parameter	Results of refinement	Feedback from the farmer	Justifi cation for refinement
1	2	3	4	5	6	7	8	9	10	11
Sheep and goat		Low growth and production	Effect & Role of leaf meals on growth, production and parasitic control in sheep and goat	5	T1-Farmer practice T2-Leaf meal T3-Complete Feed block	Improved overall health status, increase feeding, drinking, increase milk yield,	In progress		Initial results were satisfactory and farmers were ready to adopt technology	

^{*} No. of farmers

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15

^{*}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.

nd farmer's practice

^{**} Give details of the technology assessed or refined a

A. Technology Refinment

1) Title : Effect of 2, 4-D on fruit drop in mango.

1) Problem diagnose/defined: Low mango production due to heavy fruit drop

2) Details of technologies selected for assessment

/refinement

T0-Control T1-10ppm T2-20ppm T3-30ppm

3) Production system

thematic area : Rainfed

4) Thematic area : Fruit Production

5) Performance of the

Technology with

performance indicators: T3 gave the best result with 14% increase in yield

Final recommendation for

micro level situation : T3-30 ppm ppm gives the best results and farmers can use it at their

farms to reduce the mango fruit drop.

Constraints identified and

feedback for research : Lack of availability of quality growth regulators in Reasi distt.

6) Process of farmers

participation and

their reaction : Farmers were satisfied after observing the demonstrated fields of OFTs.

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Mango	Rainfed	Low productivity of mango due to fruit drop	Effect of 2, 4-D on fruit drop in mango.	4	T0-Control T1-10ppm T2-20ppm T3-30ppm	Fruit drop and Yield	T0-8.37% T1-9.11% T2-12.01% T3-14.00%	T3 gave the best results as it reduces 14 % of fruit drop	Initial Fruit set results were effective

^{*} No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T0-Control T1-10ppm T2-20ppm T3-30ppm	T0-3.2 tones/ha T2-4.3 tones/ha T3-4.6 tones/ha T3-4.9 tones/ha	T0-63000/ha T1-71000/ha T2-79500/ha T3-82300/ha	1:2.26 1:2.89 1:3.14

^{*}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









PART 4 - FRONTLINE DEMONSTRATIONS

4. A. Summary of FLDs implemented during 2016-17

Sl.		Farming	Season		Variety/	Halani d	Thematic area	Technology	Area	(ha)		of farmer ionstratio		Reasons for
No.	Category	Situation	and Year	Crop	breed	Hybrid	Thematic area	Demonstrated	Propo sed	Actual	SC/ST	Others	Tota l	shortfall in achievement
1	Oilseeds	Rainfed	Kharif 2016											
		Rainfed	Rbi 2016	Gobi Sarson	RSPN-25	-	Improved varieties	Improved variety	6	6	20	27	47	
2	Pulses	Rainfed	Kharif 2016	Black Gram	PU-31	-	Improved varieties of Pulses	Improved var. of black gram	4	4	12	39	51	
		Rainfed	Kharif 2016	Green Gram	SML-668	-	Improved varieties of Pulses	Improved var. of green gram	2	2	8	10	18	
		Rainfed	Rabi 2016	Chickpe a	GNG-1581	-	Improved varieties of pulses	Improved var. of chickpea	6	6	17	64	81	
		Rainfed	Kharif 2016	Maize	PG – 2320, PG-2475	Hybrid	Hybrid var.	Hybrid var	5	5	16	28	44	
3	Cereals	Rainfed	Rabi 2016	wheat	PBW-175	-	High yielding varieties of wheat	Improved varieties	5	5	6	36	42	
4	Vegetables	Rainfed	2016-17	Okra, bottle gourd, bitter gourd	Paravani Kranti, King of Market, Pride of India, Purple Vienna,		Hybrid var. of vegetables	Hybrid var	2.0	2.0	21	24	45	

Sl.	Category	Farming	Season and	Crop	Variety/	Hybrid	Thematic area	Technology	Area	(ha)		of farmer ionstratio		Reasons for shortfall in
No.	Calegory	Situation	Year	Crop	breed	Пуона	Themaic area	Demonstrated	Propo sed	Actual	SC/ST	Others	Tota l	achievement
					Purple Top,Varsha Uphaar etc. etc									
5	Millets													
6	Fodder	Rainfe d	Rabi 2016-17	Oats	Kent	Impro ved variety	Improved varieties	Improved varieties	2	4	5	29	34	
		Rainfe d	Kharif 2016-17	Sorghu m	SSG-1	Hyb.	Improved varieties	Improved varieties	2	2	2	21	23	
7	Flowers	Rainfe d	Kharif 2016-17	Marigol d	Pusa Narangi and Pusa Basanti		Improved varieties	Improved varieties	2	2	12	22	34	
8	Fruit	Rainfe d	2016-17											
	Spices and condimen ts													
9	Commerc ial													
10	Medicinal and aromatic													
`11	Mushroo m													
	Dhingri	Rainfe d	2016-17	Dhing ri	Pleoratus sp.		Scientific mushroom cultivation	Pleoratus sp.	-	32 bag s	3	5	8	

Sl.	Catagory	Farming	Season and	Cwan	Variety/	Hybrid	Thematic area	Technology	Area	(ha)		of farmer ionstratio		Reasons for shortfall in
No.	Category	Situation	ana Year	Crop	breed	Пудпа	тпетинс агеа	Demonstrated	Propo sed	Actual	SC/ST	Others	Tota l	achievement
12	Fodder													
13	Dairy													
14	Poultry		2016- 17	Back yard Poultry birds	Kadaknath		Backyard Poultry framing	Kadaknath birds	2000	1725			159	Poultry birds
15	Piggery													
16	Sheep and goat													
17	Button mushroo m													
18	Vermico mpost													
19	IFS													
20	Apicultur e													
21	Implemen ts													
22	Others (specify)													

Soil fertility status of FLDs during 2016-2017

Sl.	Category	Farmi ng	Season and	Сгор	Variety/	Hybrid	Thematic area	Technology		tatus of s (Kg/Acre		Previous crop
No.	Calegory	Situati on	Year	Стор	breed	Пудпа	тпетинс итеи	Demonstrated	N	P	K	grown
1.	Oilseeds											
2.	Pulses											
3.	Cereals											
4.	Millets											
5.	Vegetables											
6.	Flowers											
7.	Fruit											
8.	Spices and condiments											
9.	Commercia 1											
10.	Medicinal and aromatic											
11.	Fodder											
12.	Plantation											
13.	Dairy											
14.	Poultry											
15.	Piggery											
16.	Sheep and goat											
17.	Button mushroom											
18.	Vermicom post											
19.	Apiculture											
20.	Implement											
21.	Others (specify)											

B. Results of Frontline Demonstrations

4.B.1. Crops

- * 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

	Name of the		U ₁ , l ₂ ;	Farm	No.	Are		Yield	(q/ha)		%	*Eco	nomics of (Rs.	demonsi /ha)	tration	*Econor (Rs./ha)	mics of c	heck	
Crop	technology demonstrate d	Variety	Hybri d	ing situat ion	of De mo.	(h a)		Demo)	Ch eck	Incr ease	Gross Cost	Gross Retur n	Net Retur n	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							Н	L	A										
Oilseeds	Improved varieties																		
	Improved varieties	RSPN-25	-	Rainf ed	47	6	8.6	5.8	6.8	4.7	44. 68	11600	44300	3270 0	1:3.81	10900	29010	18110	1:2.66
Pulses	Improved var. of Black Gram	PU-31	-	Rainf ed	51	4	6.8	5.7	6.7	4.4	52. 00	12200	42500	3030 0	01:3.5	11800	32200	20400	01:2.7
	Improved var. of Chickpea	GNG-1581	-	Rainf ed	81	6	10.5	5.7	8.2	5.3	54. 71	9320	41700	3238 0	01:04.5	8730	29300	20570	01:03. 3
	Improved var. of Greengram	SML-668	-	Rainf ed	18	2	5.9	3.4	4.5	3.1	45. 16	6900	17900	1100 0	1:2.59	5280	25100	16250	1.2.92
Cereals	Scientific maize cultivation	PG – 2320, PG-2475	Hybri d	Rainf ed	43	5	36	20	26	14	57. 14	12500	37,10 0	2460 0	1:2.96	9980	21200	11220	1:2.12
	High yielding variety wheat	PBW-175		Rainf ed	40	5	38	19	28.30	17.4	62. 64	12080	34900	2282 0	1:288	8500	19400	10900	1:2.28
Millets																			
Vegetab les	High Yielding/Hy b. Varieties of vegetables	ParavaniKranti , King of Market, Pride of India, Purple Vienna, Purple Top ,Varsha Uphaar etc	Hyb.	Rainf ed	45	2													

Mushroo	m																		
Dhingri	Improved var. of Dhingri	Pleoratus	-	Rainf ed	8	32 ba gs	-	-				-	-	-		-	-	-	-
Flower s	Improved varieties of marigold	Pusa Narangi and Pusa Basanti	-	Rainf ed	35	2	140	90	121	80	5	23753	14035 0	1165 97	1:4.9	186 36	55560		
Fodder	High Yielding varieties	SSG	-	Rainf ed		2	460	350	410	31 5	4 3. 8	34500	61500	2700 0	1:1.78	305 00	47250		
	High Yielding varieties	Kent	-	Rainf ed	2	4	360	265	325	24 0	5 4	34000	48750	1500 0	1:1.44	300 00	36000		
Fruit																			
Spices and condim ents																			
Comme rcial																			
Medici nal and aromati c																			
Fodder	Improved varieties	Kent	-	Rain fed	20	2	500	420	465	35 0	3 0. 0 0	15000	46500	3150 0	1:2.1	140 00	35000	21000	1:1.5
	Improved varieties	SSG	-	Rain fed	20	2	300	230	262	22 0	2 0. 0 4	10000	26500	1650 0	1:1.65	880 0	19000	10200	1:1.30

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

		Data	on other parameters in relation to technol	logy 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	Bund	No.	No.		Yield	d (q/ha	!)	%	*Econ	omics of Rs./u		ation	*1	Economic (Rs./i		k
livestock	technology demonstrated	Breed	of Demo	of Units		Demo	1	Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	Α										
Dairy																	
			1.70	1505											7.50	720	
Poultry	Backyard Poultry	Kadaknath	159	1725 birds	180	150	165	80	72.5	40	1165	1115	27.8	40	560	520	13.0
Rabbitry																	
Pigerry																	

	I		1	1			1	ı			ı	
Sheep and goat												
goat												
Duckery												
Others (pl.specify)												
(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	on to technology demonstrated											
Parameter with unit	Parameter with unit Demo Check if any												

4. B.3. Fisheries

Type of	Name of the	Dunad	No.	Units/		Yie	ld (q	/ha)	%			demonstr r (Rs./m2 ₎				s of chec r (Rs./m2 ₎	
Breed	technology demonstrated	Breed	of Demo	Area (m ²)	,)		Check	Increase	Gross	Gross	Net	**	Gross	Gross	Net	**
	aemonstratea		Demo	(m^2))em	0	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 relatio	n to technology demonstrated											
Parameter with unit	Parameter with unit Demo Check if any												

4.B.4. Other enterprises

E	Name of the technology Variety/		No.	Units/	Yield (q/ha)			/ha)	%	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)			
Enterprise	demonstrated	species	of Demo	Area {m²}	I	Dem	0	Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	Α										
Button mushroom																	
Vermicompost																	
Apiculture																	
Others (pl.specify)																	

H-High L-Low, A-Average

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

	Data on other parameters in relation to technology demonstrated											
Parameter with unit	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	6	167	
2	Farmers Training	54	1194	
3	Media coverage	60		
4	Training for extension functionaries	7	126	
5	Others (Please specify)			

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

A) ON Campus

Thematic area	No. of		Participants										
	courses		Others			SC/ST		Grand Total					
		Male	Female	Total	Male	Female	Total	Male	Female	Total			
(A) Farmers & Farm													
Women													
I Crop Production													
Weed Management													
Resource Conservation													
Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming									_				

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

^{**} BCR= GROSS RETURN/GROSS COST

	1
Water management	
Seed production	
Nursery management	
Integrated Crop	
Management	
Fodder production	
Production of organic	
inputs	
II Horticulture	
a) Vegetable Crops	
Production of low volume	
and high value crops	
Off-season vegetables	
Nursery raising 1 7 0 7 10 4 14 17 4	21
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 young	
plants/orchards	
Rejuvenation of old	
orchards	
Export potential fruits	
Micro irrigation systems	
of orchards	

TN.	I			1	1	I				
Plant propagation										
techniques										
c) Ornamental Plants										
Nursery Management										
Management of potted										
plants										
Export potential of										
ornamental plants										
Propagation techniques of										
Ornamental Plants										
d) Plantation crops										
Production and										
Management technology										
Processing and value										
addition										
e) Tuber crops										
Production and										
Management technology										
Processing and value										
addition										
f) Spices										
Production and										
Management technology										
Processing and value										
addition										
g) Medicinal and										
Aromatic Plants										
Nursery management	1	17	0	17	5	0	5	22	0	22
Production and										
management technology										
Post harvest technology										
and value addition										
III Soil Health and										
Fertility Management										
Soil fertility management										

	, ,	1	_	1	1	1	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								
Poultry Management								
Piggery Management								
Rabbit Management								
Disease Management								
Feed management								
Production of quality								
animal products								
V Home Science/Women								
empowerment								
Household food security								
by kitchen gardening and								
nutrition gardening								
Design and development								
of low/minimum cost diet								
Designing and								
development for high								
nutrient efficiency diet								
Minimization of nutrient								
loss in processing								
Gender mainstreaming								

		I	1				
through SHGs							
Storage loss minimization							
techniques							
Value addition							
Income generation							
activities for							
empowerment of rural							
Women							
Location specific drudgery							
reduction technologies							
Rural Crafts							
Women and child care							
VI Agril. Engineering							
Installation and							
maintenance of micro							
irrigation systems							
Use of Plastics in farming							
practices							
Production of small tools							
and implements							
Repair and maintenance of							
farm machinery and							
implements							
Small scale processing							
and value addition							
Post Harvest Technology							
VII Plant Protection							
Integrated Pest							
Management							
Integrated Disease					_		
Management							
Bio-control of pests and					_		
diseases	 						
Production of bio control				 		 	
agents and bio pesticides							

VIII Fisheries	<u> </u>					1				
Integrated fish farming	<u> </u>									
Carp breeding and	<u> </u>									
hatchery management	1									
Carp fry and fingerling	<u> </u>									
rearing	1									
Composite fish culture										
Hatchery management and										
culture of freshwater	I									
prawn	I									
Breeding and culture of	 									
ornamental fishes	I									
Portable plastic carp										
hatchery	I									
Pen culture of fish and										
prawn	I									
Shrimp farming	 									
Edible oyster farming	 									
Pearl culture										
Fish processing and value										
addition	I									
IX Production of Inputs										
at site	I									
Seed Production	 									
Planting material	 									
production	1									
Bio-agents production										
Bio-pesticides production	<u> </u>									
Bio-fertilizer production	<u> </u>									
Vermi-compost	1	7	0	7	5	0	5	12	0	12
production	1									
Organic manures	I									
production	<u></u> -									
Production of fry and	I									
fingerlings	L									

Production of Bee-																	
colonies and wax sheets																	
Small tools and																	
implements																	
Production of livestock																	
feed and fodder																	
Production of Fish feed																	
X Capacity Building and																	
Group Dynamics																	
Leadership development																	
Group dynamics																	
Formation and																	
Management of SHGs																	
Mobilization of social	1	76	2		78		9		0		9		85	2		87	
capital	1																
Entrepreneurial		17	0		17		5		0		5		22	0		22	
development of	1																
farmers/youths																	
WTO and IPR issues																	
XI Agro-forestry																	
Production technologies																	
Nursery management																	
Integrated Farming																	
Systems																	
TOTAL		5 11	4	2		196		34		4	3	8	175		6		164
(B) RURAL YOUTH																	
Mushroom Production																	
Bee-keeping																	
Integrated farming	1	10	4		14		3		0		3		13	4		17	
Seed production																	
Production of organic																	
inputs																	
Integrated Farming																	
Planting material						·									·		
production																	

Vermi-culture										
Sericulture										
Protected cultivation of	1	14	6	20	9	14	23	23	20	43
vegetable crops	1									
Commercial fruit	1	23	0	23	5	0	5	28	0	28
production	1									
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	1	0	0	0	19	5	24	19	5	24
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and										
processing technology										
Fry and fingerling rearing										
Small scale processing										
Post Harvest Technology										

Tailoring and Stitching							<u> </u>			
Rural Crafts										
TOTAL	4	47	10	57	36	19	55	83	29	112
IUIAL	4	4/	10	31	30	19	33	83	29	112
(C) Extension Personnel										
Productivity enhancement										
in field crops										
Integrated Pest										
Management										
Integrated Nutrient										
management										
Rejuvenation of old	1	12	0	12	0	0	0	12	0	12
orchards	1									
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										
			l		l l			l	l .	l

Production and use of	2	45	0	45	0	0	0	45	0	45
organic inputs	2									
Gender mainstreaming										
through SHGs										
TOTAL	3	57	0	57	0	0	0	57	0	57

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	3	43	9	52	33	0	33	76	9	85
Resource Conservation	2	28	0	28	19	2	21	47	2	49
Technologies										
Cropping Systems										
Crop Diversification	1	28	0	28	0	0	0	28	0	28
Integrated Farming	1	15	4	19	2	9	11	17	13	30
Water management										
Seed production										
Nursery management										
Integrated Crop	1	21	0	21	2	0	2	23	0	23
Management										
Fodder production										
Production of organic	1	10	13	23	0	0	0	10	13	23
inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume	1	6	12	18	0	0	0	6	12	18
and high value crops										
Off-season vegetables	1	19	5	24	0	0	0	19	5	24
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	1	0	0	0	3	16	19	3	16	19
Cultivation of Fruit	1	15	0	15	5	0	5	20	0	20
Management of young plants/orchards	1	0	0	0	10	8	18	10	8	18
Rejuvenation of old orchards	1	0	0	0	5	11	16	5	11	16
Export potential fruits										
Micro irrigation systems of orchards	1	0	0	0	0	7	7	0	7	7
Plant propagation techniques	1	22	0	22	4	0	4	26	0	26
c) Ornamental Plants										
Nursery Management										
Management of potted										
plants										
Export potential of										
ornamental plants										
Propagation techniques of										
Ornamental Plants										
d) Plantation crops										
Production and										
Management technology										
Processing and value addition	1	15	11	26	2	0	2	17	11	28
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	1	17	0	17	5	0	5	22	0	22
Production and	1	13	1	14	6	3	9	19	4	33
management technology	1	13	1	14	U	3	9	19	4	33
Post harvest technology										
and value addition										
III Soil Health and										
Fertility Management										
Soil fertility management	1	2	0	2	7	3	10	10	0	10
Soil and Water										
Conservation										
Integrated Nutrient										
Management										
Production and use of	1	0	0	0	5	11	16	5	11	16
organic inputs	1	U	U	U	3	11	10	3	11	10
Management of										
Problematic soils										
Micro nutrient deficiency										
in crops										
Nutrient Use Efficiency										
Soil and Water Testing	4	61	11	77	9	3	12	70	14	84
IV Livestock Production										
and Management										
Dairy Management	1	0	0	0	10	5	15	15	0	15
Poultry Management	3	0	0	0	42	32	74	42	32	74

D' M		1	1	1		1	1	1		
Piggery Management										
Rabbit Management		22		22		0	4	2.5	0	2.5
Disease Management	<u>l</u>	32	0	32	4	0	4	36	0	36
Feed management	1	13	0	13	3	0	3	16	0	16
Production of quality	2	10	01	11	26	05	31	36	6	42
animal products		10	0.1	1			0.1		Ü	
V Home Science/Women										
empowerment										
Household food security										
by kitchen gardening and										
nutrition gardening										
Design and development										
of low/minimum cost diet										
Designing and										
development for high										
nutrient efficiency diet										
Minimization of nutrient										
loss in processing										
Gender mainstreaming										
through SHGs										
Storage loss minimization										
techniques										
Value addition										
Income generation										
activities for										
empowerment of rural										
Women										
Location specific drudgery										
reduction technologies										
Rural Crafts										
Women and child care										
VI Agril. Engineering										
Installation and										
maintenance of micro										
irrigation systems										

			T		
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										
Planting material										
production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost	1	14	0	14	0	0	0	14	0	14
production	1	14	U	14	U	U	U	14	U	14
Organic manures	1	0	0	0	6	11	17	6	11	17
production	1	U	U	U	U	11	1 /	U	11	1 /
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	1	9	0	9	5	0	5	14	0	14
Formation and	3	25	33	58	0	0	0	25	33	58
Management of SHGs	3	23	33	30	U	Ü	· ·	25	33	50
Mobilization of social	2	4	0	5	28	10	38	32	10	42
capital					20					
Entrepreneurial	4	81	20	101	1	08	9	82	28	110

development of										
farmers/youths										
WTO and IPR issues	1	0	0	0	16	0	16	16	0	16
XI Agro-forestry	_									
Production technologies										
Nursery management										
Integrated Farming										
Systems										
TOTAL	49	535	108	563	263	134	397	771	242	1030
(B) RURAL YOUTH										
Mushroom Production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic	1	35	0	35	14	1	15	49	1	50
inputs	1	33	U	33	14	1	13	49	1	30
Integrated Farming										
Planting material										
production										
Vermi-culture										
Sericulture										
Protected cultivation of										
vegetable crops										
Commercial fruit										
production										
Repair and maintenance of										
farm machinery and										
implements										
Nursery Management of	1	16	0	16	6	0	6	22	0	22
Horticulture crops	*	10		10		Ŭ			Ŭ	
Training and pruning of										
orchards										
Value addition										
Production of quality										
animal products										

Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming Pearl culture										
Cold water fisheries										
Fish harvest and										
processing technology										
Fry and fingerling rearing										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts					20					
TOTAL	2	51	0	51	20	1	21	71	1	72
(C) Extension Personnel										
Productivity enhancement										
in field crops										
Integrated Pest										
Management										
Integrated Nutrient										
management										
Rejuvenation of old	1	25	0	25	0	0	0	25	0	25
orchards		_==	Ů		Ŭ	Ŭ			Ŭ	
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	2	19	0	19	0	0	0	19	0	19
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	1	25	0	25	0	0	0	25	0	25
TOTAL	4	69	0	69	0	0	0	69	0	69

C) Consolidated table (ON and OFF Campus)

	(0 - 1 000	0 00000								
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	3	43	9	52	33	0	33	76	9	85
Resource Conservation Technologies	2	28	0	28	19	2	21	47	2	49

Cropping Systems										
Crop Diversification	1	28	0	28	0	0	0	28	0	28
Integrated Farming	1	15	4	19	2	9	11	11	13	30
Water management	1	13	7	17	2	,	11	11	13	30
Seed production										
Nursery management										
Integrated Crop										
Management	1	21	0	21	2	0	2	23	0	23
Fodder production										
Production of organic										
inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume	4		10	10	0		0	-	10	10
and high value crops	1	6	12	18	0	0	0	6	12	18
Off-season vegetables	1	19	5	24	0	0	0	19	5	24
Nursery raising	1	7	0	7	10	4	14	17	4	21
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	1	0	0	0	3	16	19	3	16	19
of Orchards										
Cultivation of Fruit	1	15	0	15	5	0	5	20	0	20
Management of young plants/orchards	1	0	0	0	10	8	18	10	8	18
Rejuvenation of old orchards	1	0	0	0	5	11	16	5	11	16

Export potential fruits										
Micro irrigation systems										
of orchards	1	0	0	0	0	7	7	0	7	7
Plant propagation	1	22	0	22	4	0	4	26	0	26
techniques	1	22	U	22	4	U	4	20	U	20
c) Ornamental Plants										
Nursery Management										
Management of potted										
plants										
Export potential of										
ornamental plants										
Propagation techniques of										
Ornamental Plants										
d) Plantation crops										
Production and										
Management technology										
Processing and value	1	1.5	1.1	26	2	0	2	17	1.1	20
addition	1	15	11	26	2	0	2	17	11	28
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	1	17	0	17	5	0	5	22	0	22
Production and	1	12	1	1.4		2	0	10	4	22
management technology	1	13	1	14	6	3	9	19	4	33
Post harvest technology										
and value addition										

III Soil Health and										
Fertility Management										
Soil fertility management	1	2	0	2	7	3	10	10	0	10
Soil and Water										
Conservation										
Integrated Nutrient										
Management										
Production and use of	1	0	0	0	5	11	16	5	11	16
organic inputs	1	U	U	U	3	11	10	3	11	10
Management of										
Problematic soils										
Micro nutrient deficiency										
in crops										
Nutrient Use Efficiency										
Soil and Water Testing	4	61	11	77	9	3	12	70	14	84
IV Livestock Production										
and Management										
Dairy Management	1	0	0	0	10	5	15	15	0	15
Poultry Management	3	0	0	0	42	32	74	42	32	74
Piggery Management										
Rabbit Management										
Disease Management	1	32	0	32	4	0	4	36	0	36
Feed management	1	13	0	13	3	0	3	16	0	16
Production of quality animal products	2	10	01	11	26	5	31	36	6	42
V Home Science/Women										
empowerment										
Household food security										
by kitchen gardening and										
nutrition gardening										
Design and development										
of low/minimum cost diet										
Designing and										
development for high										
nutrient efficiency diet										

	 1		I	1		
Minimization of nutrient						
loss in processing						
Gender mainstreaming						
through SHGs						
Storage loss minimization						
techniques						
Value addition						
Income generation						
activities for						
empowerment of rural						
Women						
Location specific drudgery						
reduction technologies						
Rural Crafts						
Women and child care						
VI Agril. Engineering						
Installation and						
maintenance of micro						
irrigation systems						
Use of Plastics in farming						
practices						
Production of small tools						
and implements						
Repair and maintenance of						
farm machinery and						
implements						
Small scale processing						
and value addition						
Post Harvest Technology						
VII Plant Protection						
Integrated Pest						
Management						
Integrated Disease						
Management						
Bio-control of pests and						
diseases						

		1			1	1	1	T	1	1
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										
Planting material										
production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost	1	14	0	14	0	0	0	14	0	14
production	1	14	U	14	U	U	U	14	U	14
Organic manures	1	0	0	0	6	11	17	6	11	17
production	1	U	U	U	U	1.1	1 /	U	11	1 /

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	1	9	0	9	5	0	5	14	0	14
Formation and	3	25	33	58	0	0	0	25	33	58
Management of SHGs	3	23	33	38	0	0	0	23	33	38
Mobilization of social	2	4	0	5	28	10	38	32	10	42
capital	2	4	U	3	28	10	36	32	10	42
Entrepreneurial										
development of	4	81	20	101	1	8	9	82	28	110
farmers/youths										
WTO and IPR issues	1	0	0	0	16	0	16	16	0	16
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming										
Systems										
TOTAL	54	649	110	759	297	138	435	946	248	1194
(B) RURAL YOUTH										
Mushroom Production										
Bee-keeping										
Integrated farming	1	10	4	14	3	0	3	13	4	17
Seed production										
Production of organic	1	35	0	35	14	1	15	49	1	50
inputs	1	33	U	33	14	1	13	42	1	30
Integrated Farming										

Dlanting material				1	<u> </u>		1			
Planting material										
production										
Vermi-culture										
Sericulture										
Protected cultivation of	1	14	6	20	9	14	23	23	20	43
vegetable crops										
Commercial fruit	1	23	0	23	5	0	5	28	0	28
production		23			5	Ŭ	J		Ŭ.	20
Repair and maintenance of										
farm machinery and										
implements										
Nursery Management of	1	16	0	16	6	0	6	22	0	22
Horticulture crops		10	0	10	0	· ·	O .	22	· ·	22
Training and pruning of										
orchards										
Value addition										
Production of quality										
animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	0	0	0	19	5	24	19	5	24
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										
117 and importing rearing				1	I		i	l		[

Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
TOTAL	6	98	10	108	56	20	76	154	30	184
(C) Extension Personnel										
Productivity enhancement										
in field crops										
Integrated Pest										
Management										
Integrated Nutrient										
management										
Rejuvenation of old	2	37	0	37	0	0	0	37	0	37
orchards		37	U	37	U	U	U	31	U	31
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 Livestock feed and fodder	2	19	0	19	0	0	0	19	0	19
Household food security										
Women and Child care										
		ı	1	1	I	1	1	1	l	1

Low cost and nutrient efficient diet designing										
Production and use of organic inputs	2	45	0	45	0	0	0	45	0	45
Gender mainstreaming through SHGs	1	25	0	25	0	0	0	25	0	25
TOTAL	7	126	0	126	0	0	0	126	0	126





















Note: Please furnish the details of above training programmes as $\underline{\text{Annexure}}$ in the proforma given below

Date	Clien tele	Title of the training	Disciplin e	Thematic area	Durat ion in	Venue (Off /	Numb partici	er of othe	er	Numb	oer of SC	S/ST		number o	of
		programme			days	On Campu	Male	Female	Total	Male	Female	Total	Male	Female	Total
						s)									
20.04.2016	Farm	Planting of	Horticult	Propagatio	1day	Off	7	0	7	10	4	14	17	4	21
	ers	quality	ure	n		campus									
		planting		techniques											
		material and													
		its aftercare													
25.4.2016	Farm	Disease	A.H.	Disease	1	Off	19	0	19	0	0	0	19	0	19
	ers	management		manageme		Campus									
		in large		nt in											
		ruminants		Livestock.											
26.4.2016	Farm	Training	Extensio	Agril/	1	Off	1	0	1	12	10	22	13	10	23
	ers	programme	n	Schemes/		Campus									
		on various	Educatio	Programm											
		agricultural	n	es											
		schemes and													
		programmes.													
20.5.2016	Farm	Disease	A.H.	Disease	1	Off	13	0	13	4	0	4	17	0	17

	ers	management in large ruminants		manageme nt in Livestock.		campus									
26.5.2016	Farm ers	Harvesting of mango and its precautions.	Hort.	Fruit Productio n	1	Off campus	15	0	15	5	0	5	20	0	20
27.5.2016	Farm ers	INM in Kharif crops	Agronom	INM	1day	Off Campus	21	0	21	2	0	2	21	2	23
31.5.2016	Farm ers	Agricultural information sources for rural development	Extensio n Educatio n	ITC	1day	Off Campus	0	0	0	16	0	16	16	0	16
2.6.2016	Farm ers	Formation and management of SHGs	Extensio n Educatio n	Formation and manageme nt of SHGs	1day	Off campus	10	0	10	0	0	0	10	0	10
2.6.2016	Farm ers	Organic farming for sustainable agriculture	Extensio n Educatio n	Organic farming	1day	Off campus	0	0	0	5	11	16	5	11	16
8.6.2016	Farm ers	INM in Kharif crops	Agronom y	INM	1day	Off Campus	22	0	22	13	0	13	35	0	35
9.6.2016	Farm ers	Sheep and goat management	AH	Disease manageme nt in sheep	1day	Off Campus	10	1	11	13	2	15	23	3	26
13.6.2016	Farm ers	Layout of orchards	Hort.	and goat Layout of orchards	1day	Off Campus	0	0	0	3	16	19	3	16	19
4.7.2016	Farm ers	Formation and management of SHGs	Extensio n Educatio n	Formation and manageme nt of SHGs	1day	Off campus	0	17	17	0	0	0	0	17	17

15.7.2016	Farm	Integrated	Agronom	Weed	1day	Off	6	0	6	20	0	20	26	0	26
	ers	weed	y	Managem		campus									
		management in Kharif		ent											
		crops													
26.7.2016	Farm	Propagation	Hort.	Propagatio	1day	Off	22	0	22	4	0	4	26	0	26
	ers	of planting		n		Campus									
		material and its		techniuqu											
		techniques		es											
29.7.2016	Farm	Balanced	AH	Nutrition	1day	Off	13	0	13	0	3	3	16	0	16
	ers	feeding		manageme		Campus									
		through		nt											
		UMMB and fodder													
		management													
2.8.2016	Farm	Entrepreneur	Extensio	Entrepren	1day	Off	13	0	13	1	0	1	14	0	14
	ers	ship	n	eurship		Campus									
		development	Educatio	developm											
		in agriculture	n	ent in agriculture											
4.8.2016	Farm	Commercial	Extensio	Entrepren	1day	Off	0	0	0	6	11	17	6	11	17
2010	ers	organic	n	eurship	Tuuy	campus						1,			1,
		farming for	Educatio	developm		1									
		rural	n	ent in											
20.0.2016	Г	development	A	agriculture	1.1	Off	1.0	0	1.6	22		20	40	0	40
20.8.2016	Farm ers	Soil sampling	Agronom	Soil Health	1day	Off campus	16	0	16	32	0	32	48	0	48
	CIS	technique	У	Managem		campus									
		and its		ent											
		management													
1.9.2016	Farm	Physiologica	Hort.	Scientific	1day	Off	0	0	0	5	11	16	5	11	16
	ers	1 disorders in		fruit		campus									
		mango and their		production											
		management													

7.9.2016	Farm ers	Entrepreneur ship development in organic vegetables	Extensio n Educatio n	Entrepren eurship developm ent in agriculture	1day	Off Campus	12	4	16	0	0	0	12	4	16
23.9.2016	Farm ers	Conservation agricultural based management in maize /wheat	Agro.	Conservati on agriculture	1day	Off Campus	17	0	17	2	0	2	19	0	19
30.9.2016	Farm ers	Dairy meant and milking	A.H.	Dairy Managem ent	1day	Off campus	0	0	0	10	5	15	0	15	15
26.10.2016	Farm ers	Zero and min. tillage as resource conservation	Agronom y	Conservati on agriculture	1day	Off campus	11	0	11	17	2	19	28	2	30
31.100.201	Farm ers	Postharvest management in horticulture produce	Hort.	Postharves t manageme nt in horticultur e	1day	Off Campus	15	11	26	2	0	2	17	11	28
2.11.2016	Farm ers	Disease management in poultry	АН	Disease manageme nt in poultry	1day	Off Campus	14	4	18	0	0	0	14	4	18
2.11.2016	Farm ers	Streghthenin g and management of SHGs	Ext. Edu	Formation and manageme nt of SHGs	1day	Off campus	1	15	16	0	0	0	1	15	16
4.11.2016	Farm ers	Cultivation of cole crops nad its	Hort.	Vegetable s production	1day	Off campus	6	12	18	0	0	0	6	12	18

		aftercare													
8.11.2016	Farm ers	Training programme on commercial organic farming	Ext. Edu	Organic farming	1day	Off Campus	14	0	14	0	0	0	14	0	14
9.11.2016	Farm ers	IWM in weed management in Rabi crops	Agronom y	IWM in weed manageme nt	1day	Off Campus	15	9	24	0	0	0	15	9	24
11.11.2016	Farm ers	Soil sampling techniques	Agronom y	Soil Testing	1day	Off Campus	15	10	25	0	0	0	15	10	25
15.11.2016	Farm ers	Entrepreneur ship development in vegetable growing	Ext. Edu.	Entrepren eurial developm ent of farmers	1day	Off campus	19	5	24	0	0	0	19	5	24
22.11.2016	Farm ers	Training programme on commercila scientific agriculture	Ext. Edu.	Entrepren eurial developm ent of farmers	1day	Off Campus	11	5	16	0	0	0	11	5	16
24.11.2016	Farm ers	Training programme on walnut cultivation	Hort.	Scientific fruit production	1day	Off Campus	0	0	0	10	8	18	10	8	18
20.122016	Farm ers	Training programme on commercila scientific agriculture	Ext. Edu.	Entrepren eurial developm ent of farmers	1day	Off Campus	45	10	55	0	8	8	45	18	63
28.122016	Farm	INM on	Agronom	INM	1day	Off	15	4	19	2	9	11	17	13	30

	ers	Rabi crops	у			campus									
30.122016	Farm ers	Integrated poultry farming and sustainable means	AH	Backyard poultry farming	1day	Off Campus	0	0	0	22	0	22	22	0	22
4.12017	Farm ers	Poultry farming as an enterprise	AH	Poultry farming as an enterprise	1day	Off Campus	0	0	0	8	28	36	8	28	36
12.12017	Farm ers	Entrepreneur ship development in medicinal and aromatic plants	Ext.Edu.	Entrepren eurship developm ent in agrii.	1day	Off Campus	13	1	14	6	3	9	19	4	23
19.12017	Farm ers	Fertility management in large ruminanats	АН	Fertility manageme nt in LS	1day	Off campus	0	0	0	13	3	16	13	3	16
31.12017	Farm ers	Organic farming and its advantages	Agronom y	Organic farming and its advantage s	1day	Off campus	10	13	23	0	0	0	10	13	23
8.2.2017	Farm ers	Role of KVK in rural development	Ext. Edu.	Social capital mobilizati on	1day	Off campus	4	0	4	16	0	16	20	0	20
20.2.2017	Farm ers	Training programme on entrepreneur ship development in	Ext. Edu.	Entrepren eurship developm ent in agricultuu re	1day	On campus	17	0	17	5	0	5	22	0	22

		horticulture													
22.2.2017	Farm ers	Diversificati on in agriculture in hilly areas	Agronom y	Diversifie d agriculture	1day	On campus	28	0	28	0	0	0	28	0	28
28.2.2017	Farm ers	Scientific cultivation of marigold	Agrofore stry	Forestry for hill areas	1day	On campus	17	0	17	5	0	5	22	0	22
8.3.2017	Farm ers	Backyard poultry farming as an enterprise	АН	Backyard poultry farming as an enterprise	1day	On campus	8	1	9	0	3	3	8	4	12
20.3.2017	Farm ers	Soil sampling techniques	Agronom y	Soil Testing	1day	Off campus	16	0	16	6	0	6	22	0	22
24.3.2017	Farm ers	Backyard poultry farming as an enterprise	Horticult ure	Backyard poultry farming as an enterprise	1day	Off campus	0	0	0	12	4	16	12	4	16
27.9.2017	Exten sion Perso nnel	Urban Agriculture: Need of the Hour	Extensio n Edu.	Urban agriculture	1day	On campus	11	0	11	0	0	0	11	0	11
28.9.2017	Exten sion Perso nnel	Sustainabilit y of low chilly varieties of fruit crops in Reasi district	Fruit science	Scientific fruit production	1day	On campus	12	0	12	0	0	0	12	0	12
29.9.2017	Exten sion Perso nnel	Role of organic farming for the upliftment of	Agronom y	Organic farming	1day	On campus	34	0	34	0	0	0	34	0	34

		the unprivilleged agri. In hilly areas													
7-2-2017	Exten sion Perso nnel	Feeding management in LS	AH	Feeding Managem ent in LS	1day	Off campus	10	0	10	0	0	0	10	0	10
13-2-2017	Exten sion Perso nnel	Infertlity management and breed improvement in LS	LS	Infertlity manageme nt	1day	Off campus	9	0	9	0	0	0	9	0	9
18-3-2017	Exten sion Perso nnel	Gender mainstreami ng in extension	Ext. Edu.	Gender mainstrea ming	1day	Off campus	25	0	25	0	0	0	25	0	25
19-3-2017	Exten sion Perso nnel	Challenges in fruit production under Reasi conditions	Hort.	Fruit prod.	1day	Off campus	25	0	25	0	0	0	25	0	25

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No.	of Particip	oants	Se	elf employe trainin		Number of persons employed else where
_				-	Male	Female	Total	Type of units	Number of units	Number of persons employed	

Floriculture	26-6- 2016 to 23-6- 2016	Floriculture as an enterprise	Commercial floriculture	04 days	13	4	17	3	3	
Vegetables	29-8- 2016 to 1-9-2016	Entrepreneurship development in vegetables growing	Entrepreneurship development in vegetables growing	04 days	23	20	43	8	10	
Fruits Crops	2-3-12- 2016	Training programme on advance hort.	Scientific fruits production	02 days	21	0	21	6	10	
Fruits Crops	6-9-2017	Nursery raising techniques for horticultural plants	Nursery raising techniques for horticultural plants	04 days	22	0	22	2	5	
Poultry farming	13-12- 2016 to 16-12- 2016	Poultry farming as an entreprise	Entrepreneurship development in Poultry farming	04 days	19	5	24	12	12	
Vermicomposting as an entreprise	17-1- 2017 to 20-1- 2017	Vermicomposting as an enterprise for small farmers	Vermicomposting as an entreprise	04 days	49	1	50	5	5	
Organic farming	19 to 22/1/2016	Training on Organic farming for rural development	Commercial organic farming	04 day	31	17	48	12	22	2

^{*}training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

	(L) Spoi	isored Training Frogr								1	No. of	f Partic	cipant	S				Amount
Sl.N o	Date	Title	Disci pline	Thematic area	on	Client (PF/R Y/EF)	No. of cou	•	Othe	rs		SC/ST	Γ		Total		Sponsoring Agency	of fund received (Rs.)
					(days)	1/EF)	rses	Male	Fema le	Total	Male	Female	Total	Male	Femal e	l Total		
1	30-1- 2017 to 3-2-2017	Training programme on Organic Farming	Ext.E du.	Organic Farming	6	Farme rs	5	12	17	29	1	0	30	13	17	30	ICAR,New Delhi & SKUAST-J	1 lac
2.	13-18-2- 2017	Training programme on Organic Farming	Ext.E du.	Organic Farming	6	Farme rs	5	20	8	28	2	0	2	22	8	30	ICAR,New Delhi & SKUAST-J	1 lac
3.	6-10-3- 2017	Training programme on Organic Farming	Ext.E du.	Organic Farming	5	Farme rs	5	17	3	20	8	2	10	25	5	30	ICAR,New Delhi & SKUAST-J	1 lac
4.	20-24-3- 2017	Training programme on Organic Farming	Ext.E du.	Organic Farming	5	Farme rs	5	11	4	15	9	6	15	20	10	30	ICAR,New Delhi & SKUAST-J	1 lac
5.	25-29-3- 2017	Training programme on Organic Farming	Ext.E du.	Organic Farming	5	Farme rs	5	4	8	12	10	8	18	14	16	30	ICAR,New Delhi & SKUAST-J	1 lac
6.	March,20 17	Training programme on Organic Horticulture	Hort.	Organic Hort.	2	Farme rs	5	25	0	25	10	0	10	35	8	35	Deptt. of Hort.,Udham pur	
7.	March,20 17	Training programme on Organic Horticulture	Hort.	Organic Hort.	2	Farme rs	5	27	0	27	13	0	13	40	8	40	Deptt. of Hort.Samba	
8	March,20 17	Commercial floriculture	Flori cultu re	floricultu re	1	Farme rs	3	25	0	25	15	0	15	40	0	40	Deptt of floriculture	









6. Extension Activities (including activities of FLD programmes)

Sl.	NI-4	Purpose/							Partic	ipants					
No.	Nature of Extension	topic and Date	No. of activities	Far	mers (Oth (I)	ners)	SC/	ST (Farm (II)	ers)	Exte	nsion Off (III)	icials		Frand Tot (I+II+III)	
	Activity			Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Field Day	Field Day on wheat on23/4/2016 and 26/4/2016	2	26	5	31	10	2	12	0	0	0	36	7	43
2.	Field Day	Field Day on oat on27/4/2016	1	27	0	27	14	0	14	0	0	0	41	0	41
3.	Field day	Field Day on maize on3/10/2016	1	21	0	21	4	0	4	0	0	0	25	8	25
4	Field day	Field Day on sorghum on31/8/2016	1	19	3	22	12	1	13	0	0	0	31	4	35
5	Field day	Field Day on blackgram on28/10/2016	1	0	0	0	0	22	22	0	0	0	0	22	22
	Total		6	93	8	101	40	25	65	0	0	0	133	41	166
4.	Kisan Mela(organised)	15/4/2016	1												550
5.	Kisan Mela(attended)														2550
	Total														3100
6.	Kisan Gosthi		3												334
7.	Exhibition		9												3770
8.	Film Show		8												256
9.	Method Demonstrations														
10.	Farmers														

	Seminar							
11.	Workshop	1						
12.	Group meetings	3						30
13.	Lectures							
	delivered as	22						350
	resource	22						330
	persons							
14.	Newspaper	55						
	coverage	33						
15.	Radio talks							
16.	TV talks	3						
17.	Popular articles	60						40
18.	Extension	12						3500
	Literature	12						3300
19.	Advisory	10						
	Services	10						
20.	Scientific visit							70
	to farmers field							, 0
21.	Farmers visit to							1050
	KVK							
22.	Diagnostic							70
22	visits	2						100
23.	Exposure visits	2						100
24.	Ex-trainees							
25	Sammelan							
25.	Soil health							
26.	Camp Animal Health							
20.	Camp	1						35
27.	Agri mobile							
21.	clinic							
28.	Soil test							
20.	campaigns							
29.	Farm Science							
2).	Club Conveners							
	Club Conveners			l				

	meet								
30.	Self Help								
	Group	5							55
	Conveners	3							33
	meetings								
31.	Mahila Mandals								
	Conveners								
	meetings								
32.	Celebration of	Parthenium							
	important days	Days days ,soil							
	(specify)	day,Swachh							
		Bharat							440
		Abhiyan,Jai							440
		Kisan Jai							
		Vigyan Week							
		etc.							
	Grand Total								

^{*} Example for guidance only

6. B. Kisan Mobile Advisory Services

	Kisan Mobile Advisory									
Name of the	me of the No. of farmers No. of Messages Type of messages									
KVK	Covered	(Text)	Crop	Livestock	Weather	Marketing	Awareness	Other	Any	
								enterprise	other	

6.C. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS during 2016-17

No. of Technology week celebrated	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies			
	Lectures organised			
	Exhibition			
	Film show			
	Fair			
	Farm Visit			
	Diagnostic Practical's			

Distribution of Literature (No.)		
Distribution of Seed (q)		
Distribution of Planting materials (No.)		
Bio Product distribution (Kg)		
Bio Fertilizers (q)		
Distribution of fingerlings		
Distribution of Livestock specimen (No.)		
Total number of farmers visited the technology		
week		

























7. Production and supply of Technological products

A) SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
	Wheat	PBW-509	17qt	30600	-
	Maize	Plant Gene	20qt.	23100	
OILSEEDS					
	Mustard	RSPR-01	0.39	3900	
PULSES					
	Blackgram	Shekher-3	0.1qt		
	Chickpea	GNG-1581	1.50 qt.		
VEGETABLES					
FLOWER CROPS					
	Marigold	Pusa Narangi	2,50 Kg		
OTHERS (Specify)					

^{*}An example for guidance only

B) PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
SPICES					
VEGETABLES					
	Tomato, brinjal, chilli etc.	Hyb. tomato	10,000	-	150

FOREST SPECIES					
ORNAMENTAL CROPS					
	Marigold	Pusa Narangi	5000	-	100
PLANTATION CROPS					
Others (specify)					

^{*}An example for guidance only

C) BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No.
			No	(kg)		of Farmers
BIOAGENTS						
1						
2						
3						
4						
BIOFERTILIZERS						
1						
2						
3						
4						
BIO PESTICIDES						
1						
2						
3						
4						

D) LIVESTOCK

Sl. No.	Type	Breed	Qu	antity	Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle						
Feed Blocks	UMMB		500	3 kg/brick		
SHEEP AND GOAT						
POULTRY						
FISHERIES						
Others (Specify)						

^{*} An example for guidance only

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) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers	1. Constraints identified in rearing of the live stock in hilly areas. Research in Environment and life science.pp.561-562(May, 2016 issue)	Dr.Banarsi Lal ,Dr.Vikas Tandon and Dr.Shahid Ahmed	
	2. Impact of vocational training programmes on income of the rural youths. Journal of Communication studies. pp 69-72.	Dr.Banarsi Lal ,Dr.Vikas Tandon and Dr.Shahid Ahmed	
	3. Impact of plant protection activities on production and productivity of crops in Jammu Region (J&K), India. Vegetos- An International Journal of Plant Research.pp.2-4	Dr.Shahid Ahmed, Dr.B.Lal,Dr.Sinah and Dr.JP Sharma	
Technical reports			
Technical bulletins		12	
Popular articles			
	(1)Commercialization of agriculture in J&K (Daily Excelsior)	Dr.Banarsi Lal and Dr.Pawan Sharma	
	(2)Preservation of heritage and monuments (Daily Excelsior)	do	
	(3)Role of farmers fairs for rural development.	Dr.Banarsi Lal	

Item	Title	Authors name	Number of copies
	(State Times)	Do Donosoi Lot	-
	(4)Technology transfer for rural development. (Dr.Banarsi Lal	
	State Times)	Dr.Banarsi Lal	
	(5)Krishi Vigyan Kendras for Rural Development. (State Times).		
	(6)TV —An Effective Medium of Mass Communication (State Times).	Dr.Banarsi Lal,	
	(7)Social Media for Rural Development.(State Times)	Dr.Banarsi Lal,	
	(8)Urban Pollution Management Excelsior,2015)	Dr.Banarsi Lal	
	(9) KVKs for Rural Development(Early Times Times)	Do	
	(10)SHGs for Rural Development(Early Times)	Do	
	(11)Women Empowerment for Poverty Eradication(Daily Excelsior)		
	(12)Suicide among the farmers (State Times)	Do	
	(13)Potential of floriculture in J&K.(State Times)	Do	
Training Manual			
Extension literature			
Folders /leaflets	Folders and leaflets		
	(1)KVKs for Rural Prosperity	Dr.Banarsi Lal	100
	(2)Microenterpreneurship development in agriculture.	Dr.Banarsi Lal	100
	(3)Entrepreneurship development in organic farming.	Dr.Banarsi Lal	100

Item	Title	Authors name	Number of copies
TOTAL			

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number

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

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

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

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

SUCCESS STORY

Dr. Jatinder Singh in the farmers fair organised by Krishi Vigyan Kendra (KVK), Reasi. He was also appreciated by the Vice Chancellor of SKUAST-Jammu Dr. P.K. Sharma for his efforts for diversified agriculture in the PPV&FRA programme organised by KVK, Reasi. Sh. Shail Singh another farmer from this village was awarded in the farmers fair organised by KVLAST-J in 2015-16 for promoting the spota (Chicku) farming in Reasi district. Efforts of the Krishi Vigyan Kendra (KVK), Reasi scientists and progressive farmers of Sirah village have given new shape to the diversification in agriculture and requested. By observing the results of scientific diversified agriculture in Sirah village the other farmers of the 'adjoining villages arealso attracted towards scientific diversification in agriculture. With the increase in the income of the farmers their respect and reconsistation have also been increased in the society. They have build their pucca houses and their children deducation status is improving year after year. They shibit their organic farm produce in different farmers' fairs organised by SKUAST-J. & allied departments and recognised by the different organisations. Their efforts or diversified farming were highly appreciated by Horn Die e. Opic, ICAR, Dr. S. Ayapapan, Horn'ble Union Minister Dr. Jatinder Singh, Hon'ble Governor of J&K Sh. N. N. Vora, Horn ble Vice Chancellor of SKUAST-J. RVK, Reasi is making strenuous efforts for the farmers' welfare through scientific diversified agriculture in the blik district Reasi of Jamma and Kashmir.



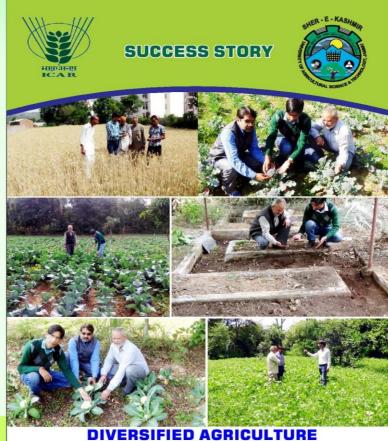
The writers are

- . Dr. Banarsi Lal, I/C, Sr. Scientist-cum-Head, Krishi Vigyan Kendra, Reasi -182301
- Dr.R.K.Arora, Associate Director Extension & In-charge of KVKs of SKUAST-J
 Dr.Shahid Ahamad, Deputy Director Research, Directorate of Research, SKUAST-J
- Sh. Jagdish Kumar, Programme Assistant (Computer), Krishi Vigyan Kendra, Reasi, (SKUAST-J)



Agrésearch with a Buman touch

Published by : Krishi Vigyan Kendra, Reasi



DIVERSIFIED AGRICULTURE
IN SIRAH VILLAGE OF REASI DISTRICT
(Adopted by KVK, Reasi)

Krishi Vigyan Kendra, Reasi
DIRECTORATE OF EXTENSION

Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu

1. Situation Analysis/Problem Statement

Agriculture is the major occupation of the people in Jammu & Kashmir where more than 75 per cent of the population is directly associated with agriculture. Thus, agricultural development harbingers the overall growth and development of the State. Jammu and Kashmir is a mountainous state in which about 30 per cent of the area is under cultivation. Agriculture is the mainstay of the people as it provides employment to about 75 per cent of the workforce.

There is dire need to increase the income and employment in agriculture and allied sectors for the farmers of the hilly state. There is possibility to increase the production and productivity of the crops and to enable the farmers to diversify their crop production by adopting the modern technologies in agriculture and establishing the infrastructure for the farm production of hilly areas of J&K. There is need to promote the diversification in agriculture and move towards high value crops like vegetables, aromatic and medicinal plants, saffron, mushroom, beekeeping, silkworms, pulses etc.lt is matter of grave concern that the interest of younger generation in the state is dwindling towards agriculture.

Reasi is the hilly district of Jammu and Kashmir. Most of the farmers of this district are small and marginal and rorps are mostly cultivated under rain fed (about 94%) conditions. Major crops grown in this area are maize, wheat, paddy, mash and potato. Farmers of this district are having very limited resources and mostly they adopt the traditional system of agriculture. The yield of all the crops is low as compared to the national and state average yields. The adoption percentage of modern a gricultural technologies is low resulting in the low socio-economic status of the farmers. There are various insect-pests and disease problems in the district. Boars and monkeys too damage the crops to a large extent in this particular district.



Sirah village is about 13 km away from world famous religious place Katra in Reasi district of Jammu and Kashmir. This village

is situated near the Shri Mata Vaishno Devi (SMVD) University and Super Speciality Narayani hospital. There are around 150 families in the village. The major occupation of the people is agriculture but there is no source of irrigation and the village is totally ratined. The village is having vermicompost units, tractors, reaper-cum-binder, disc harrows, ferti-seed drills, rotaveter etc. There are many progressive farmers in the village Sirah. The village is having around 100 hectares of land. Initially the villagers were growing maize, wheat and few local varieties of vegetables as their forefathers were doing. They were using the traditional technologies in their fields and monkeys and boars were the great threats in their fields. All the agricultural produce was consumed by their families with very little surplus to sell. Their farming system was deteriorating and they were unable to mitigate the basic needs of their families.

2. Plan, Implementation and Support of KVK

Before the KVK interventions the farmers of Sirah village were doing the unscientific agriculture on a small scale. They were endouvering for scientific diversified agriculture to increase their income. They were using the local resources and were growing of maize, wheat, fruits, vegetables, marigold etc. with the traditional methods. Initially they got mediocre results and also got some failures especially in fruits and vegetables. They were lacking the scientific knowledge of diversified agriculture. Then they came in contact with the KVK, Reasi scientists. KVK scientists started regularly visiting their farms and a benchmark study was conducted in the village. The farmers were guided and motivated to use new agricultural technologies at their farms so as to increase their crops production. They were motivated for diversified agriculture in a scientific way. KVK Reasi organised the trainings I awareness programmes I kisan plosties I field days/lexposure visits/farmers fairs etc. on diversified agriculture in Sirah village of Reasi distt. KVK, Reasi scientists laid Front Line Demonstrations (FLDs) and On Farm Trials (DFTs) in the village. The technical guidelines on different crops were provided to the farmers. The farmers were ascinated by observing the results of FLDs and OFTs and they showed keen interest in the adoption of the technologies. The technical literature on diversified agriculture was provided to the farmers of the village. The KVK work was synergised by the Department of Agriculture and other allied departments. Scientific cultivation of cereals, pulses, oil seeds, fruits, organic vegetable, poultry etc. changed their life. KVK, Reasi has also introduced the new varieties of aromatic and medicinal plants and have promoted lemon grass farming and balas farming in around 100 Kanals of land of the village in collaboration with the Indian Institute of Integrative Medicines (IIM)-Jamnu and Central Institute of Medicinal and Aromatic Plants (CIMAP)-Lucknow to overcome the problem of monkey menace in

3. Output

Before KVK interventions farmers of Sirah village were using their traditional technologies for diversified agriculture and they were lacking the technical skills and knowledge on diversified agriculture. There was heavy infestation of diseases and insects-pests and farmers were earning only Rs. 81,000/ha as their crops productivity was low but with the new scientific technologies of diversified agriculture their crops productivity increased and they raised their annual income up to Rs. 2, 67,000/ha in 2014-15to Rs. 3, 56,000/ha in 2015-16. By growing the different crops, the farmers are fetching more prices.

Before KVK intervention:

S. No.	Enterprise taken	Operational Expenses(Rs./ha)	Total Output(Rs./ha)	Net Profit(Rs./ha)
1.	Traditional methods of diversified agriculture	80,000	1,61,000	81,000

After KVK intervention:

S. No.	Year	Enterprise taken	Operational Expenses(Rs./ha)	Total Output(Rs./ha)	Net Profit(Rs./ha)
1.	2014-15	Scientific methods of diversified agriculture	1,23,000	3,90,000	2,67,000
2.	2015-16	Scientific methods of diversified agriculture	1,27,000	4,83,000	3,56,000

4. Outcome

By observing the successful results of different crops in Sirah village, the other farmers of the adjoining villages such as Sool, Dheerti, Bhakta, Painthal etc. are also showing keen interest for diversified agriculture. With the introduction of scientific technologies of different crops the farmers are able to generate extra income and employment. With the introduction of vermicompost units the farmers are able to fulfil the need of the required soil nutrients in the organic vegetables growing. With the generation of extra income the farmers developed confidence to mitigate their basic problems. A self-reliance and entrepreneurial spirit has been developed among the farmers. Their new attitude towards scientific diversified adjoculture has been developed. Sirah farmers' success in diversification in agriculture is inspiring the other farmers of the area in shifting the villagers towards diversification in agriculture in a scientific way for better economic returns. The other farmers of the area take opinion from them about the scientific agricultural practices used in diversified agriculture. With the scientific diversified approculture the science shave been innoroved.

5. Impact

KVK in the form of farmer's trainings, vocational trainings, front line demonstrations, farmers-scientists interaction, farmers' exposure visit, field days, Kisan Bhosties, campaigns, dissemination of production technologies through radio, TV, extension literature etc. have led to increase in agricultural diversification in the village. Gradually many farmers of the area are becoming interested in scientific diversification in agriculture. They have developed a good rapport with the KVK scientists and always participate in the agricultural extension activities conducted by the Krishi Vigyan Kendra, Reasi. Year- by- year they started to generate more income and employment. Lot of farmers including Sh. Tilak Raj, a progressive farmer in the village was highly impressed with the technical guidelines given by the KVK scientists and presently he is having one reaper-cum-binder, rotaveter, disc harrow, ferti-seed drill, maize sheller, two thrashers, two tractors etc. He

possesses 160 mango plants, 80 guava plants, 6 litchi plants, 60 banana plants, 35 citrus plants, 10 papaya plants, 15 aonla plants, 7 pear plants and 164 agro forestry trees. He is also having one gobar gas plants and one vermicompost unit which were established by the Department of Agriculture. There are many other farmers in the village who have become agri-enterpreneurs like 6h. Tilak Raj. They used to sale wheat, maize, fruits, pulses, oilseeds, organic vegetables, marigold, poultry etc. produced. Now the village farmers have developed confidence in themselves and they are having lot of credibility on KVK scientists. The village farmers have become an example of success and motivating factor for other farmers in adjoining areas. KVK scientists too motivated other farmers also for the diversification in agriculture as it can change their socioeconomic status.Farmers were facilitated to develop the marketing channels to sale their farm produce in local markets, Katra and even in Jammu. Katra has an immense potential for the marketing of their farm produce especially first and vegetables.

Sh.Tilak Raj, a progressive farmer of this village was felicitated by the Governor of J&K State Sh. N.N. Vohra in a farmer fair organised by the Sher-e-Kashmir University of Agricultural Sciences and Technology, Jammu (SKUAST-J) as a progressive diversified farmer in 2013-14.In 2016-17 he was again honoured by Hon'ble Union Minister



Recognition

Sh.Gulzar Ahmed has gained recognition by winning many exhibition awards in many farmers' fairs held at district and state level in Reasi district. He has exhibited some outstanding materials in different exhibitions conducted by the Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu and also state department of agriculture. In 2016 his efforts on Integrated Farming System (IFS) were appreciated by Dr.S. Ayappan, the then by Director General of Indian Council of Agricultural Research (ICAR), New Delhi at KVK, Reasi. He was also awarded as a progressive farmer in the farmer fair organised by SKUAST-Jammu in 2016. He has emerged as a progressive farmer of his area.



Sh. Gulzar Ahmed receiving the award in the farmer fair organised by SKUAST-J at Chatha, Jammu



Sh. Gulzar Ahmed at his Barseem field

Success Story of a Tribal Farmer



Inspired by :
Dr. P.K.Sharma, Vice Chancellor
Guided by :
Dr. R.K.Arora, Assoc. Director Extension

Prepared and Compiled by: Dr. Banarsi Lal, I/C Sr. Scientist & Head Sh. Jagdish Kumar, Computer Programmer





Published by :

Krishi Vigyan Kendra, Reasi
Directorate of Extension

Directorate of Extension Ph.:: 01991-287802; email: kvkreasi@gmail.com



Krishi Vigyan Kendra, Reasi

DICECTORATE OF EXTENSION

Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu



Integrated Farming System in Hilly Areas for the Prosperity of Tribal Farmers

Sh. Gulzar Ahmed is a progressive farmer of village Tanda which is about 30 km away from Katra in Reasi district of Jammu and Kashmir. He is educated up to 8th class. His family comprises his wife, two sons and one daughter. He is having 4 acres of land. Before KVK interventions he was growing maize, wheat and few local varieties of vegetables. All this agricultural produce was almost consumed by the family with very small surplus. Thus, he was unable to mitigate the basic needs of his family with the traditional farming.

Krishi Vigyan Kendra Intervention

A base line survey of village Tanda was done by the KVK team of scientists and it was observed that majority of varieties of different cops including vegetables were traditional which the forefathers of the farmers were using from many years ago. There were no proper scientific agricultural technologies utilized by the farmers of this village and crops production was very low. The Krishi Vigyan Kendra, Reasi scientists along with the allied departments introduced the improved and hybrid seeds of maize, wheat, pulses, oilseeds and vegetables in the village so that the farmers can be encouraged for the commercial farming. Scientific guidelines on dairy farming, backyard poultry farming, sericulture and horticulture were also provided to the farmers. It was intensively done to improve the crops production so that the farmers can earn their livelihood and improve their socio-economic status and can also mitigate their own nutritional problems. The Krishi Vigyan Kendra Scientists were constantly assessing and refining the technologies suitable for the farmers of that particular area.



Ex-DG, ICAR, Dr. S.Ayappan appreciating Sh.Gulzar Ahmed for his efforts for Integrated Farming System at KVK, Reasi

20 interested farmers (including Sh. Gulzar Ahmed) were identified and hybrid/improved crops seeds were provided by the KVK scientists with technical guidelines. The horticultural plants were also provided by the department of horticulture and technical guidelines on advance horticulture were given by the KVK experts. They were also guided how to save their different crops from insect-pests and diseases. They were also guided for the scientific dairy farming and backyard poultry by the KVK experts. They were constantly motivated how they can raise their socio-economic status by the Integrated Farming System.





Horticultural Plants at Sh. Gulzar Ahmed fie

Sh. Gulzar Ahmed at his vegetables field

INCOME DIFFERENCE BETWEEN THE TRADITIONAL METHOD OF FARMING AND INTEGRATED FARMING SYSTEM PROVIDED BY THE KVK

Component	Area	Intervention	Gross cost	Gross return	Net profits	B:C Ratio
Traditional Method of Farming	4 acres	Use of local varieties, unscientific methods for farming	17380	37100	19720	1:2.13
Integrated Farming System	4 acres	Use of hybrid seeds. Scientific Production technology	43200	157000	113800	1:3.63

Sh. Gulzar Ahmed was having very fertile 4 acres of land which was suitable for the different crops. His methods for different crops production, dairy farming, backyard poultry farming and sericulture production were traditional. Before KVK interventions he was using the traditional technologies at his farm. The result was that the crops yield was very poor. As is evident from the above table that by using the local varieties he was able to earn only Rs. 19720 annually from 32 Kanals of land. But when he followed the scientific guidelines from KVK scientists for the integrated farming system and he used the improved /hybrid varieties of different crops, scientific dairy farming, scientific backyard poultry farming, scientific horticultural crops production and sericulture production he was able to earn Rs. 113800 annually from the same piece of land. Now Sh. Gulzar Ahmed was confident as his income has increased and he was feeling more secure by establishing an Integrated Farming System under the guidance of KVK. He has established a dug well at his farm by which he irrigates his farm land. Now Sh. Gulzar Ahmed is inspiring the other farmers of his area and they are following the same technologies as used by Sh.Gulzar Ahmed.

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

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

1. Hybrid maize adoption

KVK Reasi is laying out the demonstrations of maize hybrids from the last seven years in both the districts Udhampur and Reasi. Every year more than 5 hectares of hybrid maize is laid out at the farmers' fields as FLDs. These are followed by the trainings imparted to the farmers and awareness camps and field days organized to promote hybrid maize culture in the district. Data collection and regular monitoring of crop has resulted in establishing of the facts that these hybrids have the potential to change the maize culture in hilly districts of J&K. people of the district were very less aware of the yield potentials of the hybrid maize and less than 10 percent farmers were sowing the hybrid maize. But now with the strenuous efforts of the KVK more than eighty per cent of the farmers are sowing these hybrids. The farmer is so impressed with the hybrids that they are ready to pay the high prices for single cross hybrids maize seeds. The yellow seeded maize hybrids have found special have found special preference from the poultry industry in the district. The buyers are satisfied with the grain size and offer good price to growers at their farm itself. People have preference to white maize for their own consumptions and white hybrids are also gaining popularity. KVK's efforts were synergized by the activities of the state department of Agriculture. Seeing the need the government also offered subsidy on these seeds. This year huge quantity of maize hybrid seeds were lifted from the government stores in district Reasi alone and similar was the position in district Udhampur as well. The productivity which used to hover around 10-12q/ha is now raised to 20-25 q/ha and in some demonstrations we have harvested up to 40q/ha of maize grain. Cultivation of these new hybrids has also increased the fodder availability in the district. These hybrids are tall and sturdy and along with higher yield also offer higher biomass and thus solve the fodder problems in these hilly districts. We may say that hybrid maize culture is the

2. Organic Vegetables Growing: KVK has developed certain pockets for organic vegetables where the farmers are producing the organic vegetables and fetching more prices. .KVK scientists imparted specific trainings on organic vegetables growing. They were trained for the preparation of organic inputs such as Panchgavaya, Jeevamrit, Beejamrit, Cow Urine, Neem oil, Vermicompost etc. Now the farmers are growing commercial vegetables and selling in local market and also in Jammu. An organic training centre established at Talwara village is also co-ordinated by the KVK where the farmers from every nook and corners are coming for the training purpose on organic farming.

3. Development of floriculture in the district:

Another case of large scale adoption is cultivation of marigold in the district Reasi especially in Katra area. KVK Reasi actively took up promotion of floriculture since 2009. Through continuous awareness and trainings camps people of the area were motivated to cultivate marigold on commercial scale. Since the area is famous for holy shrine of Vaishno Devi there is immense demand of flowers which are often imported from other states. Thus efforts were made to encourage farmers to this enterprise. A village Chamyara in Reasi was particularly chosen for laying out demonstrations and

also for creating awareness about benefits of flower cultivation. Improved seeds of new varieties were brought from IARI, New Delhi and were distributed among growers who were till then growing local marigold breeds. Farmers were convinced about the yield potential and the quality of the bloom. An average farmer gets around Rs 8to10 thousand from one Kanal flower cultivation and this income increases to about 10,000 per kanal in diwali season. No other enterprise is giving this return to farmers of this area. Many families are now cultivating marigold and they earn anything between 50,000 to 75,000 within three months during the festival season. KVK is also introducing new cultivars so that the season of cultivation may further be increased.

Seed treatment in Wheat: The farmers of hilly district Reasi were unaware about the seed treatment in wheat . .KVK Scientist conducted campaign, awareness, Trainings, diagnostic field visit etc for seed treatment in wheat as the district is infested with the loose smut of wheat and other seed borne diseases. Though demonstration, it was shown the excellent result of seed treatment fungicides viz. vitavax @ 0.2% per kg seed. Now many farmers have adopted this technology.

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

11.0 LINKAGES

11.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1.Department of Agriculture	Trainings/FLDs/OFTs/Kissan Melas /ATMA/
	RKVY etc.
2.Department of Horticulture	Trainings/FLDs/OFTs/ Kissan Melas/
	ATMA/RKVY etc.
3.Department of Animal Husbandry	Vet. Camps/backyard poultry
4.Department of Fisheries	Participation in meetings/technology
	week/ATMA/RKVY etc.
5.Department of forests	Participation in SAC meetings/supply of planting
	material
6.NABARD	Formation of farmers clubs/SAC meeting
7.District cooperative societies	Participation in meetings/Supply of inputs
8.SKUAST-Jammu	Collaborative programmes/supply of important
	inputs etc.
9.Marketing development board	Participation in meetings
10.Lead banks	Participation in meetings
11.Rural sef-employment training institute	Trainings to the farmers
12.Department of floriculture	Camps/supply of planting materials

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

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

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

11.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage	Remarks
1	Kisan Mela	Deptt. of agriculture	KVK experts gave the technical advice to the
1.		Deptt. of agriculture	farmers
2	FFS	Deptt. of agriculture	Provided technical guidelines to the
2.		Deptt. of agriculture	farmers
2	Farmers-Scientist Interaction	Dontt of agriculture	Interacted with the farmers on scientific
3.		Deptt. of agriculture	agriculture in the district

Coordination activities between KVK and ATMA during 2016-17

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	3	3		
02	Research projects				
03	Training programmes	5	5		
04	Demonstrations	2	2		
05	Extension				
	Programmes				
	Kisan Mela	1	1		
	Technology Week				
	Exposure visit	2	2		
	Exhibition	1	1		

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
	Soil health camps				
	Animal Health				
	Campaigns				
	FFS	2	2		
06	Publications				
	Video Films	2			
	Books				
	Extension Literature	300			
	Pamphlets	100			
	Others News coverage	5			
07	Other Activities				

11.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1.	Awareness/training programmes on organic horticulture	Provided technical guidelines on organic horticulture	

11.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
1	SAC	Participated as a member of SAC	-

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
1	Awareness programmes	Provided technical guidelines			

12. PERFORMANCE OF INFRASTRUCTURE IN KVK

12.1 Performance of demonstration units (other than instructional farm)

G1 37				Details of production			Amoun		
Sl. No.	Demo Unit	Year of Estt.	Area	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks
1.	Vermicompost unit	2015				15 qt.			
2.	Dhingri unit	2016				40 bags			
3	Poultry	2014				1000 chicks			

12.2 Performance of instructional farm (Crops) including seed production

Name	Date of sowing	Date of harvest Date of harvest Variety Type April,25 Details of Variety Type April,25 Details	etails of production		Amou	nt (Rs.)	D 1		
Of the crop		harvest	Area	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Wheat	Nov.26	April,25	2ha	PBW-509	Seed and straw	25qt	30400	42000	
Maize	June 10	Sept.28	2ha	Plant Gene	Grain and straw	18qt.	12,000	23100	
Pulses									
Black gram	June 17	Oct.8		Shekhar-3	Seed	0.39	2000	3900	-
Chickpea	Nov.10	April 16		GNG-1581	Seed	1.50 qt.			
Oilseeds									
Mustard	Nov.28	April,17	0.5	RSPN-25	Grain	1qt.			

			ha						
Fibers									
Sorghum	June,6	June 6	0.5 ha	SSG-1	Fodder	-	3500	9000	
Spices & Plan	tation crops								
Floriculture									
Fruits									
Vegetables	June 8	Sept.10	0.1 ha	Varsha Uphaar	Vegetables	92 Kg	3000	9200	
Others (specif	y)								

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

S1. Name of the Prod			Amou		
	Name of the Product Its		Cost of inputs	Gross income	Remarks

12.4 Performance of instructional farm (livestock and fisheries production)

Sl.	Name	De	tails of production		Amou	nt (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks

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 2016			
May 2016			
June 2016			
July 2016			
August 2016			
September 2016			
October 2016			
November 2016			
December 2016			
January 2017			
February 2017			
March 2017	40	2days	KVK is located in the far-flung area of the district.

12.6. Database management

S. No	Database target	Database created by the KVK

12.7 Rainwater Harvesting

Training programmes conducted using Rainwater Harvesting Demonstration Unit

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

Demonstrations conducted using Rainwater Harvesting Demonstration Unit

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

			<u> </u>					1		7
Seed produce	ed using Rainwater Harvest	ting Demonstration	on Unit							
Name of the o	crop			Quan	tity of seed	produced (q))			
Plant materia	als produced using Rainwa	ter Harvesting De	emonstration U	J nit						
Name of the o	crop			Numb	er of plant	materials pr	oduced			
Other activiti	ies organized using Rainwa	ter Harvesting D	emonstration	U nit						
Activity		_		No. of	visitors	_		_	_	
Visit of farme	ers									

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	Chatha	SB 003
With KVK	J&K Bank	Reasi	0029040500018557
			IFSC- JAKA0REASSI
	J&K Bank	Dera baba	0707040500000036
			JAKA0DERABAB

13.2 Utilization of KVK funds during the year 2016-17 (up to March 2017)(in lakhs)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	curring Contingencies	•	I	•
1	Pay & Allowances	106	101	95
2	Traveling allowances	1.31	1.23	1.30
3	Contingencies			
\boldsymbol{A}	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter			
	and library maintenance (Purchase of News Paper & Magazines)	4.50	3.48	4.49
В	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees	16.50	11.50	14.17
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
\boldsymbol{E}	Frontline demonstration except oilseeds and pulses (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			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)		· · · · · · · · · · · · · · · · · · ·	
B. No	n-Recurring Contingencies			

1	Works	8.50	8.41	8.50
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)	0.1	0.1	0.08
	TOTAL (B)			
C. R	EVOLVING FUND	7.68		
	GRAND TOTAL (A+B+C)			

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

Year	Opening balance as on 1 April	Income during the year	Expenditure during the year	Net balance in hand as on 1 April of each year
April 2013 to March 2014	4,68156.00	2,07781.00	27,559,00	6,48378.00
April 2014 to March 2015	6,48378.00	1,93250.00	323413 + (1 lac paid to ICAR)=423413.00	4,16,092.00
April 2015 to March 2016	4,16,092.00	213855.00	50799.00	6,22,829.00
April 2016 to March 2017	6,22,829.00	130256.00	5880.00	768531.00

14. Details of HRD activities attended by KVK staff during 2016-17

Name of the staff	Designation	Title of the training programme	Institute where attended	Date
Dr .Banarsi Lal	I/CSr.Scientist- cum-Head	2 days training programme and one day KVK, workshop at SKUAST-J	SKUAST -Jammu	Mar 29-31,2017
		Himachal Krishi Vishabvidhyala, Palampur	12-14 Dec.,2016	Workshop
		PAU,Ludhiana	23-24 Jan.2017	Workshop

Dr.MSAzad	Animal Science	2 days training programme and one day KVK, workshop at SKUAST-J	SKUAST -Jammu	Mar 29-31,2017
Dr.SajayKoushal	Agronomy	2 days training programme on agril.schemes March,2016 and kvk workshop	SKUAST -Jammu	Mar 28-30,2016

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

District Profile - I

Include the details of

1. General census

District udhampur extending over an area of 4550 sq. Kms comprises of 645 villages which includes both udhampur and Reasi as a new district Reasi has been carved out of the combined district, for development purpose. The district has a population of 7.43509 lakhs as per 2001 census. The district has recorded population growth rate of 27.73% during the decade 19991-2001. population is mostly rural and only 15.68% of it resides in the towns. The combined district had 5 tehsils out of which 3 falls in udhampur and rest two falls in Reasi. The tehsils are namely Udhampur, ramnagar, chenani, Reasi and goolgulabgarh.

- 2. Agricultural and allied census
- 3. Agriculture is the main source of livelihood in the district as in the rest of the state. The agriculture however, is not very developed and hence productivity of major crops is below the national average. The net area sown in both the districts is 116323 hectares, with 10513 hectare of fallow land. Out of the net sown area 11596 hectare is under food crops and 494 hectare is under fruits and vegetables, 3066 hectares is under oilseeds and 842 hectares is under fodder crops. Most of the kand holding is marginal to small while there are only 133 large land holdings.
- 4. The area signifies only low input usage i.e. fertiliser usage is low, new high yielding seeds are lesser taken, plant protection is followed only in specific pockets etc. Thus the yield of major crops is less. The district Udhampur and Reasi falls in the mid hill zone. Most part of the district is rain fed and major crops grown here are Maize, Wheat, Paddy, Mustard and Pulses like black gram (mash) and Green gram (moong). The crops of irrigated area are paddy, *barseem*, and Seasonal vegetables besides horticulture. There is ample scope for growing mushrooms, apiaries for honey and backyard poultry.

5. Agro-climatic zones

Sl.	Agro-climatic	Characteristics
No	Zone	Characteristics

1	Subtropical zone	This includes areas between 380-800m, amsl. The lower belt of Reasi where the KVK is located falls in this zone. This area experiences hot summers followed by cold winters and area also experiences autumn frost. The major chunk of precipitation is received during monsoons. The soils are mostly sandy loam and clay loam with normal OM. Most of the area is rain fed with very little irrigation. The annual rainfall of the district is 1000 to 1100 mm. major chunk of it is received from may-September. The mean maximum and minimum temperature ranges between 35-40 °C and 10-12 °C respectively. Agriculture in this area is diverse and is completely rain fed. The area has low productivity and low input usage.
2	Intermediate Zone	Situated between 800-1500m, amsl, this area experiences definite winters and a hot spell of summer. The major chunk of precipitation is received in July-Aug. Most part of Udhampur and Reasi falls in this zone. The annual rainfall of the district is about 1100 mm. The mean maximum and minimum temperature ranges between 35- 40 °C and 10-12 °C respectively. Agriculture in this area completely rain fed.
3	Temperate zone	It includes few areas falling above 1500m amsl. This area experiences chilling winters and major cropping season is kharif, during which moisture is available for growing crops. These areas also experiences snow in winter thus minimum temperatures falls below zero degrees during these months.

- 6.
- Agro-ecosystems
 The major crop rotations followed are as follows:
 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Maize-Wheat
2	Rice-Wheat
3	Mash-Wheat
4	Maize- Mustard
5	Horticulture crops
	a: (vegetables like Tomato, Cole crops, cucurbits, Brinjal and chillies.
	b. Fruit crops like Mango, Citrus, Guava, Litchi, Peach, plum and
	apricot.
	c. Garlic, Ginger and Turmeric are potential crops of some pockets

Major and micro-farming systems
 ude backyard poultry, and fishery in some pockets of the district.
 Some enterprises like seasonal floriculture, dairy farming, sericulture and vegetable cultivation has been adopted as

Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc. includes wheat based and maize based farming systems. However, in very few pockets rice based system is also followed.

10. Major agriculture and allied enterprises district Udhampur and Reasi people have adopted vegetable cultivation as an enterprise, in some areas olive cultivation is being practised commercially. In certain pockets seasonal flowers (marigold) is being cultivated for religious purposes. Pickles, Tiki masala and chutney preparation has also been taken up as enterprise in the district.

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

Include

- 1. Names of villages, focus area, target area etc.-Talwara, Bharakh, Gran More, Tanda, Sirah, Bhakta, Kansi Patta
- 2. Survey methods used (survey by questionnaire, PRA, RRA, etc.)-PRA, base line survey
- 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

Technology Inventory and Activity Chart - III

Include

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. a. Sher e Kashmir University of agricultural sciences and technology of Jammu.

3.

4. b. Regional research laboratory Jammu.

5.

6. c. Central institute of temperate horticulture, (CITH) Srinagar.

7.

8. d. Pulses research station samba.

9.

10. e. regional research station and KVK gurdaspur.

11.

12. f. CSK, HPKVV, Palampur.

13.

14. g. PAU, Ludhiana.

15. Inventory of latest technology available *

Sl.	Technology	Crop/enterprise	Year of release	Source of	Reference/citation	
No			or	technology		
			recommendation			
			of technology			
1	Seed treatment	Cereals/pulses/	-	SKUAST-J		
	in various crops	vegetables				
2	Introduction of	Wheat, Paddy,		SKUAST-J,		
	high yielding	pulses, oilseed		PAU,		
	varieties in			CSKHPKVV		
	different crops					
3	Introduction of	Maize	-	PAU		
	hybrids in maize					
4	Introduction of	Cucurbits,	-	-		

	high yielding vegetable varieties.	okra, tomato, capsicum, brinjal etc.			
5	Management of rhizome rot in Ginger.	Ginger	-	-	
6	Introduction of new varieties of ginger.	Ginger			
7	Promotion of round the year mushroom cultivation.	Mushroom	-	SKUAST-J, NRC mushroom	
8	Promotion of backyard poultry in Reasi	Poultry		SKUAST-J	
9	Fodder management for round the year availability.	Fodder spp.	-	SKUAST-J	
10.	Introduction of high yielder marigold in the district.	Merigold		IARI, New Delhi	

PS * an example for guidance only

16. Activity Chart

Crop/Animal/ Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Cotton	Low productivity of cotton under rainfed medium black soils of Northern Amaravati	1) Imbalance fertilizer application 2) Pest and disease occurance 3) Flower and fruit drop due to micro- nutrient deficiency	1. Application of recommend dose of Nutrients 2. Integrated Pest control 3. Micro-nutrient i.e boron application to control flower and fruit drop	 Single component FLD to demonstrate effect of recommended dose of nutrients Training and FLD programme on integrated pest management of cotton pest OFT on management boron deficiency to control flower and fruit drop 	1. Sl. No. 6 of Technology Inventory 2. Sl. No. 45 of technology Inventory 3. Sl. No. 99 of Technology inventory
Soybean					
Mulberry					
Jersy Cow					

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

Include

- a. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD and OFT
- b. Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc., for technologies selected under FLD and OFTs
- Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for FLD and OFT
- 1. 1.8. A). Details SAC meeting* conducted in the year 2016-17

Proceeding of VIIIth SAC meeting held at K.V.K., Reasi on 8.3.2017

The IXth scientific advisory committee (SAC) meeting of Krishi Vigyan Kendra, Reasi was held in the meeting hall of KVK, Reasi on 18-3-2017 under chairmanship of Dr. R.K.Arora, Associate Director Extension, SKUAST-Jammu. District heads and Officers from various line departments of Agriculture, Horticulture, Animal husbandry, Forestry, Soil conservation, Social forestry, Social welfare, Lead bank, Fisheries, Small scale industries etc. and progressive farmers attended the meeting (List of participants enclosed).

Dr.Banarsi Lal, I/C,Sr.Scientist cum Head, K.V.K.,Reasi and the member secretary welcomed the chairman and worthy members of scientific advisory committee and appraised the house about the importance of this meeting and asked for their valuable suggestions in reforming the action plan for the year 2016-17.

Agenda 1. Confirmation of the Proceedings

The proceedings of VIIIth scientific advisory committee (SAC) of KVK, Reasi held on 18-1-2016 at KVK, Reasi have already been circulated to all the SAC members. Since no comments were received from the members, The proceedings were unanimously confirmed by the house.

Agenda 2. Action Taken Report and Presentation of Annual Progress Report.

Dr.Banarsi Lal,I/C Sr.Scientist cum Head, K.V.K., Reasi presented the action taken report on the issues raised in the VIIIth SAC meeting. He appraised the house about the various activities undertaken by the KVK in two districts of Reasi and Udhampur. During this period, KVK imparted trainings of district Reasi and Udhampur in various disciplines of agriculture. He also presented the achievements in vocational training programmes of KVK Reasi, other activities undertaken by the KVK including diagnostic visits and on spot guidance to the farmers by visiting their fields and many farmers visited the KVK during the year in order to have solution of their problems. KVK also took part in the monthly training and visit programme of the University where it interacted with the field functionaries of the line departments regarding monthly operations to be undertaken in the fields. The KVK also associated in various awareness programmes and field days celebrated by the line departments. Sr. Scientist & Head also presented the action plan of KVK for the year 2017-18. After the presentation, Director Extension invited the suggestions/queries from the house and following suggestions were made:

- 2. ADE said for translation of books/broachers/pamphlets in to local language and prepare bulletin in Urdu for the tribal farmers (Action KVK, Reasi)
- 3. ADE suggested to prepare impact analysis of clusters and advised to prepare impact analysis of the technologies already disseminated among the farmers' communities.

(Action KVK, Reasi)

- 4. ADE guided to write the course content of the training programme with topic and concerned scientist. (Action KVK, Reasi)
- 5. ADE suggested preparing the training programme related to watershed management.

(Action KVK, Reasi) (Action KVK, Reasi)

6. ADE suggested to conduct training programme on home science especially on Papad making.

- 7. ADE recommended for Flex/ poster installation on FLD's and OFT's in the concerned village and farmer's field with full details of the scientific interventions. (Action KVK, Reasi)
- 8. ADE said to arrange Audio/video CD's of Ms. Krishana Yadav successful entrepreneur and assured to help in bringing the CD's.

(Action KVK, Reasi)

9. ADE said to bring the successful entrepreneur in the KVK to encourage the budding entrepreneurs.

(Action KVK, Reasi)

- 10. ADE said to upload the activities of KVK on KVK portal with quality photographs and also upload the photographs with practical field training at organic village on Pandit Deen Dayal Upadhaya website. (Action KVK, Reasi)
- 11. CAO, Reasi advised to replace the Wheat var. PBW 175 with HD2967 and HD 3043.

(Action KVK, Reasi)

12. ADE said to procure the Dogri dubbed videos (30 DVD's) from KVK- Jammu showing different agriculture technologies.

(Action KVK, Reasi)

13. ADE instructed to send the report of PPVFRA.

(Action KVK, Reasi)

14. CAHO suggested establishing animal unit with two cows in the KVK.

(Action KVK, Reasi)

- 15. ADE said to celebrate October 15 as National Women Day every year in the KVK and make assure that only women should participate in the National Women Day.

 (Action KVK, Reasi)
- 16. ADE suggested to get books on establishment of Vermicompost unit (Kenchua Khad) from DEE office SKUAST-J and distributed among the progressive farmers.

 (Action KVK, Reasi)
- 17. ADE suggested to introduce composite variety of maize in the district especially released varieties of SKUAST-J. (Action KVK, Reasi)
- 18. ADE suggested introducing the aromatic and medicinal plants in the district especially in the areas affected by monkeys.(Action KVK, Reasi)
- 19. ADE suggested to make groups of Haldi (Turmeric) growers in the districts with technology consultation of Successful entrepreneur Dunda Singh of Kathua

 (Action KVK, Reasi)

20. List of participants of 9th SAC meeting held on 8-3-2017

Sl. No.	Date	Name and Designation of Participants
1.	8.03.2017	1. Dr. R.K Arora, Assoc Director Extension,
		2. Sh. Ajay Gupta Chief, HDO, Reasi
		3. Sh. P.L.Bhat, Chief Agriculture Officer Reasi
		4. Sh. Bharat Bhushan, Asstt. Director Fisheries
		5.M.A.Malik ,VAS, Reasi
		6.Ab.Rashid,Flock Supervisor, Reasi
		7.Sh. A.P. Singh, Branch Manager, J&K Bank Dera
		8.Avtar Singh, JAEO, Reasi
		9.Sh.R.C.Pandoh,AEO,Dangakote
		8. Sh. Tilak Raj, Progressive farmer
		9. S. Jatinder Pal Singh Sodhi , Progressive Farmer
		10. Smt. Neelam Devi, Progressive Farm Women
		11. Smt. Sunita Devi, Progressive farmer
		12. Sh.Vikrant Sharma, Distt.Flor. Officer, Reasi
		13. Dr. Banarsi Lal, PC