Contents

S. No.	Particulars	Page No.
1	General Information about the KVK	2-5
2	Details of SAC.	6
3	Details of district (2011-12)	7-13
4	Technical achievements.	14-89
5	Impact of KVK activities.	89-90
6	Linkages	91-92
7	Performance of infra-structure in KVK.	92-95
8	Financial performance.	95-97
9.	Constraints	97
10.	Annexure - I-IV	98-107

ANNUAL REPORT 2011-12

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone	·	E mail
Krishi Vigyan	Office	FAX	kvkreasi@gmail.com
Kendra	01991-287802	01991-287802	-
Vill. Tanda			
P/o Dera Baba			
Banda Bahadur			
Teh. and Distt.			
Reasi			
Pin: 182311			

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

1.2 . Name and address of host organization with phone, hax and e mail				
Address	Telephone		E mail	
	Office	FAX		
Sher-E-Kashmir	0191-2473417	0191-2473961	vcskuastj@gmail.com	
University Of	2475035			
Agricultural				
Sciences And				
Technology,				
Jammu. Main				
Campus, Chatha.				

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence Mobile Email		
Dr. Vikas Tandon	-	09419155273	tandonvikas@rediffmail.com

1.4. Year of sanction: Nov, 2005

1.5. Staff Position (as on 31st March 2012)

SI. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Band & Grade Pay (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. Vikas Tandon	Programme Coordinator	Pomology	37400-67000 (9000)	37400	21.07.08	Temporary	Gen
2	Subject Matter Specialist	Dr. Sheetal Badyal	Subject Matter Specialist	Home science	15600- 39,100 (6000)	25820	18.06.07	Temporary	Gen
3	Subject Matter Specialist	Dr. Banarsi Lal	-do-	Ext. Edu.	15600- 39,100 (6000)	24520	21.06.07	Temporary	Gen
4	Subject Matter Specialist	Mr. Lalit Upadhyay	-do-	Agro- forestry	15600- 39,100 (6000)	24320	06.12.07	Temporary	Gen
5	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-
6	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-
8	Programme Assistant	S. Satbir Singh	Programme Assistant	Env. Sciences	9300-34800 (4200)	14760	04.08.08	Temporary	Gen
9	Farm Manager	Mr. Arvinder Kumar	Farm Manager	Ext. edu.	9300-34800 (4200)	14760	11.08.08	Temporary	Gen
10	Computer Programmer	Mr. Mohd Qasim	Computer Programmer	Computer Sciences	9300-34800 (4200)	-	12.01.12	Temporary	ST
11	Accountant / Superintendent	Sh. Balraj Khajuria	Head assistant	-	9300-34800 (4200)	19470	-	Temporary	Gen
12	Stenographer	Manhor Lal	Jr. Stenographer	-	5200-20200 (2400)	-	19-01- 12	Temporary	SC
13	Driver	Mohd Iqbal	Driver	-	5200-20200 (1900)	7970	-	Temporary	Gen
14	Driver	Tilak Raj	Driver	-	5200-20200 (1900)	12470	-	Temporary	Gen
15	Supporting staff	Ashok Kumar	Attendant	-	5200-20200 (1300)	7890	-	Temporary	Gen
16	Supporting staff	Sanjay Kumar	Attendant	-	5200- 20200(1300)	5920	-	Temporary	Gen

1.6. Total land with KVK (in ha) : 20 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	Stage					
S.		of		Complete	9		Incompl	ete
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	1	1	-
2.	Farmers Hostel	ICAR	Feb,2009	305	43.85	-	-	-
3.	Staff Quarters (6)	ICAR	Feb,2009	400	30.17	-	-	-
4.	Demonstration Units (2)	ICAR	Feb,2008	85 (1)	4.87	-	-	-
5	Fencing	ICAR	-	1	1	-	-	Incomplete / broken
6	Rain Water harvesting system	-	-		-	-	-	-
7	Threshing floor		-	-	-	-	-	-
8	Farm godown		-	-	-	-	-	

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
1.Tractor H.M.T.	2006	422650	-	Working
2.TATA Sumo Victa	2006	500000	78000	Working
3. Hero Honda motorcycle	2011	50000	2500	working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Leveler	2006	7000	Satisfactory
Disc Harrow	2006	23100	Satisfactory
Disc plough	2006	20750	Satisfactory
Cultivator	2006	15600	Satisfactory
Trolley	2006	74000	Satisfactory
HP Computer (1 No)	2007	40000	Satisfactory
UPS 1Kv	2007	8336	Satisfactory
LCD Projector	2007	100387	Satisfactory
Printer (hp Laserjet)	2007	13520	Satisfactory
HP Computer (1 No) (old)	-	-	Not working
HP Computer (01 no) & printer& UPS	2010	42457	Satisfactory
SLR Digital camera (Sony)	2010	24900	Satisfactory
Fax machine (Sharp)	2010	7000	Satisfactory
Xerox Machine	2011	-	good

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

SI. No.	Date	Name and Designation of	of Participants	Salient Recommendations	Action taken
1.	03-11-11	Dr. K. S. Risam Sh. R. K. Safaya S. Tarvinder singh Mr. S.K. Chatha Dr. K.K. verma Dr. M.I. Magrey Sh. Yog raj Sharma Sh devinder Thakur Mr. Ranjeev sawhney Dr. A. K. Mangota Mr. C.L. Sharma Mr. Anil Gorkha Mr. Manohar lal Smt. Bimla devi Sh, suresh Sharma Smt. Satya parmar Sh. Bodh raj Sh. Mohd. Sharief Smt. Kanta devi Smmt. Hamida Bibi Sh. M.L.Sharma S. sarabjit Singh Sh. Mohd. Shaffi Sh. Chaman lal Dr. Vikas Tandon	D.E.E. SKUAST Jammu Chief agriculture Officer Chief hort. Officer. Udh Chief hort. Officer, Reasi VAS Reasi C.A.H.O., Reasi Dy.Director, employ. Reasi Prasar bharati AEE, irrigation, Reasi C.A.H.O., Reasi SMS, CHO Udhampur SMS, CHO Udhampur DDM, NABARD, Udh Prog. Farmer (women) Prog. Farmer (Women) Prog. Farmer (Farmer Sarpanch, Prog. Farmer Progressive Farmer Progressive Farmer Progressive Farmer Sr. Asstt. Sericulture SMS, hort, Reasi Fisheries, Reasi Progressive Farmer Member Secretary *SAC proceedings along with list of participants attached as annexure IV.	 DE directed to persue the case of land demarcation with DDC Reasi. It was suggested to set up a poly house at KVK Director advised to lay out vegetable demonstrations at areas other than Bhabber. Director advised to increase the demonstrations on mushrooms and also to set up a mushroom demonstration at KVK. Director Extension also advised for having honey bee colonies at KVK. Director advised to make necessary arrangement for OFT and FLD's in advance. District sericulture officer requested for training programmes on raising of nursery of forest species and also trainings on medicinal plants and sericulture. 	 A fresh application vide letter no AUJ/PC/KVK/F-36/609-10 dated 24-01-12 has been sent to DDC. The proposal for a high tech green house has been kept in next EFC. KVK has laid out demonstrations at Agar, Tikri, Kanjali, mari and Gran villages of Reasi and Udhampur. KVK Reasi has laid out 70 no's demonstrations on dhingri and also 40 bags demonstrations was laid out at KVK campus. KVK Reasi has taken advise of line departments and also private growers who have advised that due to excessive heat and lack of flora near our campus it will be difficult to maintain these colonies and will have to be migrated. KVK had arranged all fertiliser and seed for rabi demonstrations and we also have laid out demonstrations on spices well in time. Varieties from H.P. have also been brought for laying FLD on ginger. A three day vocational programme on raising of nursery was conducted and regular trainings are being given on medicinal plants.

2. DETAILS OF DISTRICT (2011-12)

The twin districts of Udhampur and Reasi 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 twenty percent irrigated area 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 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 Reasi. 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)

۷.۱	inajor 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 chillies.
	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 in some pockets 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	Situated between 800-1500m, amsl, this area experiences definite winters
	Zone	and a hot spell of summer. The major chunk of precipitation is received in

		summer months. 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	Medium O. M. content, Low to medium N and	-
	loam	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 and 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 (Udhampur)

S. No	Crop	Area (ha)	Production (QtI)	Productivity (Qtl /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

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

S. No	Crop	Area (ha)	Production (MT)	Productivity (Qtl /ha)
1	Maize	19800	35640	18.0
2	Wheat	14600	33780	18.0
2	Paddy	2800	6320	22.5
4	Pulses	2050	2050	10.0
5	Oil seed	2100	1470	07.0
6	Vegetables	930	18600	200.0
7	Fodder	750	20625	275.0
8	Jowar/ bajra	600	900	15.0
	/barley etc.			
9	Floriculture	25	-	-

2.5. Weather data

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

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

Category	Population	Production	Productivity
Cattle	254955	72.8 (000) MT	
Crossbred			
Indigenous			
Buffalo	143877		
Sheep	58000	•	•
Crossbred			
Indigenous			
Goats	28000		
Pigs			
Crossbred			
Indigenous			
Rabbits			
Poultry			
Hens	163514		
Desi			
Improved			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

2.6 Details of Operational area / Villages (2011-12)

SI.No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Reasi	Reasi	Mari, agar balian, Gran More, Bidda	Wheat/ maize/ oilseed /pulses/ vegetables	 Low productivity of all crops. Lack of interest in oilseed cultivation. Lack of HYV's of vegetables. Single cropping in some areas. 	 Promotion of single cross maize hybrids. Use of hybrid seeds for vegetable cultivation. Integrated insect / pest and disease management. Promotion of backyard poultry as integration farming component. Seed replacement
2	Reasi	Pouni	Pouni, Malad, Mari, Latier, Dhanwa, ,Talwara	wheat, maize, vegetables and vegetable nursery, spices, citrus and mango.	 Use of conventional seeds and planting material. Lack of water management and conservation. Lack of training pruning in fruit crops. High wind areas. 	 Promotion of new high yielding varieties. Promotionof ginger/turmeric etc. Integrated Nutrient management. Promotion of oilseeds. Seed treatment in cereals and vegetables. Promotion of water conservation to enhance productivity.

			,	1	<u></u>	
3	Reasi	Reasi	Dera, Seri, chumbian Mansoo, kanjali, Bhabbar, Pai, kundra Panasa, shapanoo, Tanda	Maize/wheat/poultry /sericulture/vegetabl es/dhingri	 Lack of awareness and proper training on latest technologies Promotion of backyard poultry. Lack of knowledge of water conservation. 	 Promotion of self help groups. Increasing water productivity. Promotion of backyard poultry. Introduction of paddy hybrids in the area. Promotion of medicinal plants, sericulture and vegetables.
4	Udha mpur	Ramna gar	Ritti, lasal, patta,rown	Maize/pulses/floricul ture	 Lack of new varieties. Rain fed cropping. Use of conventional seeds. Shortage of fodder. 	 Promotion of high yielding new Hybrids/var. Water conservation and efficient use of irrigation water. promotion of self help groups Promotion of pulses.
5.	Udha mpur	Majalth a Tikri	Kishanpur/ manwal/majal ta/mand/tikri/ sundrani/char i muthal	Maize/wheat/mango /citrus	 Lower yields and use of old methods of cultivation. Lack of awareness on water harvesting. Poor response to oilseed/pulses. 	 Promotion of water harvesting and conservation. Promotion of new agriculture schemes in the area. Promotion of floriculture. Introduction of new varieties of oilseed in the area.
6	Udha mpur	Chena ni	Dhramthal, kud, keither, Ghordi	Anardana, peach/apricot/ maize/mash	 Poor yields Old varieties No fertilizer application poor plant protection. Lack of knowledge of fruit processing. 	 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.

7.	Reasi	Arnas,	Dharmari/ arnas/salal/ Thuru	Rajmash/maize/fruit crops/mash	 Low productivity of fruit crops. Single cropping. Poor yield of pulse crops 	 Promotion of training and pruning of fruit crops. Promotion of agricultural schemes in area. Seed treatment in cereals. Promotion of improved varieties of pulse crops in the area.
8	Reasi	Reasi	Pangal/sool/ painthal/kulia/ chak bhakta/ domail/numai /didimorh/ sherwar, Agharjitto, Dheerti	Maize/mash/vegeta bles/floriculture/dhin gri/wheat/Toria/vege tables	 Low productivity of flowers. Low production of cereals. Lack of hybrid varieties. Lack of awareness of dhingri cultivation Lack of scientific knowledge of hybrid vegetable growing 	 Promotion of marigold in the area. Introduction of single cross maize hybrids. Superior vegetable seeds. Introduction of hybrid varieties of vegetables Promotion of dhingri cultivation in the area.

2.7 Priority/thrust areas

Maize	Introduction of single cross commercial maize hybrids, Integrated Nutrient Management, weed management, common insect / pests.
Wheat	Promotion of seed replacement and introduction of new varieties, seed treatment, weed management, disease and pest management including termite control. Seed production of new varieties.
Paddy	Integrated disease and pest management.
Fodder	Promotion of new varieties, Increasing area under fodder crops. Round the fodder production.
Oilseed	Introduction of new varieties, Promotion of insect pest management., control of Alternaria blight, Use of balanced nutrition. Seed production at KVK farm.
Pulses	Use of improved varieties, Weed management, insect /pest and disease management.
Fruit crops	Information on new varieties, checking of anar butterfly, mango malformation, disease and pest management in major fruit crops training and pruning of temperate fruits.
Vegetables	Promotion of hybrids, introduction of new varieties. Disease and pest management. round the year cultivation, nursery raising of vegetable crops.
Animal husbandry	Promotion of dairy farming, problems related to cattle rearing, balanced nutrition.
Mushroom cultivation	Promotion of mushroom cultivation, growing of more species for year round cultivation.
Bee Keeping	Promotion of bee keeping, trainings on bee keeping/ management of apiaries.
Spices	Promotion of spices in the district, introduction of new varieties, standardization of planting dates, common diseases in spices, nutrient management
Floriculture	Promotion of loose flower cultivation in the district, integrated nutrient management, introduction of new varieties.
Water conservation	Promotion of water conservation and increasing water productivity.

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2011-12

	OFT (Technology As	sessment and l	Refinement)	FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises) 2				
		1						
Number of OFTs Number of Farmers				Numbe	Number of FLDs		nber of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
8	8	40	60	Oilseed pulses (24 ha)	22 ha	95	169	
				Other than oilseed pulses (15 ha)	14.7 ha	110	169	
				Mushrooms	70	70	70	
				Marigold (2 ha)	1 ha	10	17	
				Vegetable (2 ha)	2 ha	50	50	

Training (inclu		I, vocational and ot vater Harvesting Un		carried under	Extension Activities					
		3			4					
	Number of a	ctivities	Number	of participants						
Clientele Targets Achie		Achievement	Targets	Achieveme	Targets	Achievem	Targets	Achievement		
				nt		ent				
Farmers	42	42	840	952	Field days (5)	5	250	264		
Rural youth	6	5	90	113	Kisan goshthies (2)	2	50	50		
Extn. Functionaries	10	5	150	65	Awareness camps (2)	1	100	350		
					Kisan mela (2)	2	-	200		
					Important days (2)	2	100	300		
					campiagns	2	100	100		

See	d Production (Qtl.)	Plan	ting material (Nos.)
	5		6
Target	Achievement	Target	Achievement
Wheat	28		
Black gram	2.75		
Lentil	0.35		
Toria	0.40		
Til	0.20		

3.B. Abstract of interventions undertaken

						Interve	entions		
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Promotion of high yielding var's in cereals oilseeds and pulses.	Maize	Poor yields in conventional seeds.	-	Integrated nutrient management in maize.	Scientific cultivation of maize	Farmers school.	Field day Farmer school	Seed and fertilizer was given for FLD.
2	-do-	Wheat	Use of seed for more than three years resulting in poor yields.	Performance of late sown wheat varieties in Reasi.	Integrated nutrient management in wheat.	Scientific cultivation of wheat.	Field day	Field day Kisan ghoshthi	Seed and fertilizer
3	-do-	Lentil and chickpea	Non availability of seed.	-	Introduction of lentil (L-4147) and chick pea ().			Field day visits Trainings Diagnostic visits.	Seed of lentil and chick pea and fertilizer with chick pea was supplied.
4	-do-	Toria/ Mustard/ G.sarson	Lower yields Aphid attack	-	Integrated nutrient management of oilseeds.		Field day	Field day Diagnostic visits	Seed and fertilizer were given for FLD.
5	Integrated nutrient and pest management in major crops of the district.	Wheat	Lack of knowledge of nutrient management.	Integrated nutrient management in wheat				diagnostic visits	Trial was laid out with applicationof Bio Chaar and vermicompost.
6	-do-	Wheat	Poor yields due to lack of weed management	Study on weed management in wheat	-	-	-	Diagnostic visits	Chemicals were given for laying out the trials.

7	Promotion of spices, floriculture and medicinal plants.	Turmeric	Lack of knowhow Lack of good var's	Impact of planting dates and harvesting dates on yield and quality of turmeric	Introduction of local selection in Reasi	Spice cultivation for higher incomes.	Field day	Field day Diagnostic visits	Seed material was supplied to farmers for OFT and FLD's.
8	-do-	Onion	Lack of weed management	Weed management in onion.	-		-	Diagnostic visits	Chemicals were supplied for OFT
9	-do-	Marigold	Lack of good variety, poor crop management practices.	Integrated nutrient management in marigold.	Introduction of new variety of marigold.	Cultivation of flowers for increasing rural economy.	-	Diagnostic visits. Kisan ghoshthies	S
10	Medicinal plants	Medicinal plants	Lack of knowledge.	-	-	important medicinal plants of reasi. And mportant medicinal tree species	-	Trainings Field visits	
11.	Crop diversification	Mushrooms	Lack of knowhow, and non availability of spawn	-	Introduction of Dhingri in Reasi.	Vocational training on white button mushroom. Farmer trainings on round the year mushroom cultivation.		Field visits.	Spawn of Dhingri alongwith poly bags were supplied for laying out FLD's.
12.	Promotion of vegetable culture.	Vegetables/ potato/ tuber crops.	Lack of new varieties, Poor INM and no check on insect/pest.	-	Introduction of HYV of Okra, bottle guard	Nursery Raising of vegetable crops. Use of micro irrigations in vegetable crops.		Kisan ghoshthies.	Seeds of vegetable crops were distributed to benefeciaries of FLD's

13.	Promotion of fruit crops.	Mango/ citrus/ stone fruits, walnut, apple, pomegranate.	Old varieties, Poor upkeep, Lack of insect pest management.	Control of anar butterfly.	-	Role of micronutrients in fruit culture. Training and pruning of fruit crops Lay out and planting of orchards Propagation techniques in	In service training programmes Kisan melas	Awareness camps Campaigns Kisan ghoshthies.	Inputs for oft were supplied to 10 farmers.
14.	Preservation and value addition of commercial crops.	Mango/ citrus, apple, milk, mushrooms, chaat masala etc.	Lack of knowledge of processing Wastage of excess produce	-	-	fruit crops. Post harvest care and management of crops. Processing of fruits and vegetables Milk processing	Trainings for aganwadi workers.	Kisan ghoshthies.	-

3.1 Achievements on technologies assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	10	4	4	1	3		1			23
Seed / Plant production	1	1	3				1			6
Weed Management	1			1						2
Integrated Crop Management										
Integrated Nutrient Management	1			1			1			3
Integrated Farming System										
Mushroom cultivation				1						1
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management						1				1
Integrated Disease Management	1									1
Resource conservation										
technology										
Small Scale income generating enterprises										
TOTAL	14	5	7	4	3	1	3			37

^{*} 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	4	4	1	-						9
Seed / Plant	1	1	1							3
production										
Weed Management										
Integrated Crop										
Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management						1				1
Integrated Disease Management	1									1
Resource										
conservation										
technology										
Small Scale income										
generating enterprises										
TOTAL	6	5	2			1				14

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

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

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

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

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

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

A. Technology Assessment

Trial 1

1) Title: Impact of different dates of planting and date of harvesting on growth and yield of

Turmeric in district Reasi.

- 2) Problem diagnose/defined: Low yield and poor quality due un timely sowing and harvesting.
- 3) Details of technologies

selected for assessment

/refinement : T0- (20 April 2011)

T1 (1may 2011)

T2 (20 May 2011) (farmer's practice)

4) Source of technology :KVK, Reasi

5) Production system

thematic area : Wheat- Turmeric

6) Thematic area : Suitable time for planting

7) Performance of the

Technology with

Performance indicators : Early planting on 20 April have resulted in higher no of rhizomes as well as higher rhizome weight as compared to late planted turmeric. Early planting resulted in yields upto 130q/ha as compared to only 96q/ha in late plantings.

8) Final recommendation

For micro level situation : Early planting (20april to 1 may) have resulted in higher yields and quality as compared to late plantings

9) Constraints identified and

feedback for research : Moisture availability is bottleneck for early plantings and also good panting material is not

available.

10) Process of farmer's participation and their reaction : farmers of Mari area have shown encouraging participation for early sowing of crop.



Planting Date: - 20 April 2011



Planting Date: - 20 May 2011

11).Results of On Farm TrialsNo. of farmers

Crop/ enterprise	Farming situation	Problem Diagnose d	Title of OFT	No. of trials*	Technology Assessed	Parameter s of assessme nt	Data on the parameter	Results of assessment	Feedbac k from the farmer	Justifi cation for nement
1	2	3	4	5	6	7	8	9	10	11
Turmeri c	RF	Low yield and poor quality due not timely sowing and harvest ing	Effect of different dates of planting and date of harvesting on growth and yield of Turmeric in Kandi Belt of District Reasi.	3	T0 (20 april) T1 - (1 may)	Yield, growth parameter s	130q/ha 124q/ha	Early planting on 20 April have resulted in higher no of rhizomes and also yields of rhizomes.	Farmer s have shown interest in this trial.	Late plantings often results in lower yields thus a trial was framed to improve the yields.
					T2- (20 May)	do	96q/ha			

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
T0- 20 april	130q/ha	90,000	1:2.16
T1- (1 may)	124q/ha	84000	1:2.06.
T2- 20 th may	96q/ha	75000	1:1.95

1. Title : Management of Annar butterfly in Pomegranate in

district Reasi

2. Problem diagnose/defined : Low yield and poor Quality due to insect-pests

infestation.

3. Details of technologies selected

for assessment/refinement : T0 -(Farmers practice)

T1 – Cypermethrin (1ml/litre)

T2- Imidachlorpid (0.75ml/L)

4. Source of technology : KVK, Reasi

5. Production system thematic area: Pomegranate

6. Thematic area : Management of Anar butterfly

7. Performance of the Technology

with performance indicators : 3 sprays of Imidachlorpid (0.75ml/L) at fortnight

resulted in complete checking of anar

interval butter fly.

8. Final recommendation for

Micro level situation : farmers may be advised to use imidachlorpid

(0.75ml/L) 3-4 sprays for controlling Anar butterfly.

9. Constraints identified and

Feedback for research : Unavailability of Insecticides

10. Process of farmers participation

and their reaction : Farmers of Dharmari were satisfied with the

control measures applied in Anar.

Results of On Farm Trials

Crop/ enterpri se	Farmin g situatio n	Problem Diagnose d	Title of OFT	No. of trials*	Technology refined	Parameters	Data on the paramete r	Results of refineme nt	Feedback from the farmer	Justifi cation for refinement
1	2	3	4	5	6	7	8	9	10	11
Pome grana te	Rain fed	Low yield due to insect -pests infest ation.	Manageme nt of Annar butterfly in Pomegrana te in district Reasi	5	T0 -(Check) No use of insecticides) T1 - (Cyperme thrine@1 ml/litre) T2- imidachlo rpid	No of infected fruits per plant and yield -do-	90-100 % damaged fruits 40 % damag ed fruit, (25kg/ tree) 34% damag ed fruits (28	Treate d trees showe d increas ed yields and lesser inciden ce of damag ed fruits.	Farmers were convince d but have difficulty in spraying pomegra nate.	No treatment have been given in these areas thus a trial was formulated to control anar butterfly.
							kg/tree)			

No. of farmers

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
T0 -(Check) No use of insecticides)	5 kg/tree	350	1:1.85
T1 -(Cypermethrine@1ml/litre)	25 kg/tree	1750	1:2.16
T2 – imidachlorpid (0.75ml/L)	28 kg/tree	2090	1:2.34

1. Title : Integrated Nutrient Management in Marigold.

2. Problem diagnose/defined : low yield due to poor nutrition.

3. Details of technologies selected for assessment/refinement:

T0- Farmers Practice(100 % NPK)

T1- Soil application rhizobium + 75 % NPK

T2- Seedling Treated with rhizobium + 75 %

NPK

4. Source of technology : KVK Reasi

5. Production system thematic area: INM

6. Thematic area : Integrated nutrient Managaement.

7. Performance of the Technology

With performance indicators : Application of biofertilisers gave better

yields and quality as compared to

standard NPK.

8. Final recommendation for

Micro level situation : Soil application and seedling treatment with

Rhizobium resulted in increasing lengh of flowering and improved the flower quality while 100 % NPK resulted in reducing the

survival of seedlings

9. Constraints identified and

feedback for research : Unavailability of biofertilisers..

10. Process of farmers participation

and their reaction : farmers themselves approached for reducing

the dosage of fertilizer especially urea and with application

of biofertiliser they were satisfied with its performance.





Seedling treated with Biofertilizer +NPK

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Marigold	Rainfed	low yield due to poor nutrition.	Integrated Nutrient Managemen t in Marigold.	4	T0- Farmers Practice 100% NPK	Yield and economic return.	5.5 q/ha	Application of 75% NPK alonwith Biofertiliser gave highest yield as compared to others also the flowering period was prolonged.	Farmers were convinced with
					T1- Soil application of azotobactor + K'solublising bacteria + 75% NPK		5.75q/ha		application of biofertilisers alongwith NPK.
					T2- Soil application of azotobactor + K'solublising bacteria + 50% NPK		4.5q/ha		

^{*} No. of farmers

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
T0 -(Check) 100% NPK	5.5q/ha	110000/ha	1:350
T1 -(soil application of bio fertiliser +75% NPK)	5.75q/ha	120000/ha	1:3.75
T1 -(soil application of bio fertiliser +50% NPK)	4.5q/ha	95000/ha	1:3.25

6) Title : Performance of late sown wheat varieties in Reasi

7) Problem diagnose/defined: Low Performance of Local varieties

Details of technologies selected for assessment

/refinement :

T0- Farmers Practice

T1- PBW 373 T2- Raj 3765 T3- Raj 3077 T4- VL 892

9) Source of technology : SKUAST Jammu

10) Production system

thematic area : Rainfed cereal based system

6) Thematic area : Varietal evaluation

7) Performance of the

Technology with

performance indicators : Late sown varieties perform better as compared to

normal sown vareieties if sown late.

8) Final recommendation for

micro level situation : Raj 3077 was found to be the best late sown variety with

average yields of 21q/hafollowed by raj 3765 with

20q/ha, VL 892 with 18.5q/ha and least in PBW-373

(17q/ha).

9) Constraints identified and

feedback for research : Un availability of high yielding varieties of wheat and

delayed sown causes declined in yield

10) Process of farmers

participation and

their reaction : The farmers appreciated the demonstrated late sown

varieties of wheat and they were satisfied with the

performance of late wheat varieties.

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Wheat	Rainfed	Low performance of local varieties	Varietal evaluation of late sown wheat	3	i. Farmer practice ii.PBW 373 iii.Raj 3765 iv.Raj 3077 v. VL892	Yield	T1- 14q/ha T2- 17q/ha T3- 20q/ha T4- 21q/ha T5- 18.5q/ha	Raj 3077 with average yields of 21q/ha was found to be the best late sown variety in the district.	The farmers appreciated the demonstrated late sown varieties of wheat and they were satisfied with the performance of wheat

* No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
1. Farmer Practice	14	9650	1:2.04
2.PBW 373	17	13700	1:2.38
3. Raj 3765	20	17500	1:2.81
4. Raj 3077	21	18900	1:2.93
5. VL892	18.5	15400	1:2.65

^{*}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 : Management of yellow rust in wheat

2)Problem diagnose/defined : Reduction in wheat grain yield and wheat straw due

to yellow rust in wheat

3)Details of technologies

selected for assessment

/refinement :

i. 2 sprays of Propiconazole (0.1%)ii. 2 Sprays of tebuconazole (0.2%)iii. 2 Sprays of hexaconazoles (0.2%)

4)Source of technology : SKUAST Jammu KVK Reasi

5)Production system

thematic area : Rainfed cereal based system

6)Thematic area : Integrated disease management

7)Performance of the

Technology with

performance indicators : 2 sprays of tebuconazole was found more effective

as compared to hexaconazole and propiconazole.

8) Final recommendation for

micro level situation: Application of Tebuconazole (2 sprays) was found effective

in controlling in yellow rust of wheat.

9)Constraints identified and

feedback for research : Lack of awareness of fungicides and there

unavailability.

10)Process of farmers

participation and

their reaction : Farmers showed the keen interest after seeing the

demonstrated fields and they asked KVK for the fungicides

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Wheat	Rainfed	Low Yield of wheat and wheat straw due to yellow rust in wheat	Management of yellow rust in wheat	5	i. Farmer Practice propiconazole (0.1%) ii. 2 Sprays of tebuconazole (0.2%) iii.2 Sprays of Hexaconazole (0.2%)	Yield	Yield T1- 18q/ha T2-20q/ha T3-18.5q/ha Disease incidance T1- 25 T2-8.5 T3-2.5	It was found that spray of Tebuconazole was found more effective as compared to other two chemicals tried	Farmers showed the keen interest after seeing the demonstrated fields and they asked KVK for the fungicides

^{*} No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
1. Farmer Practice propiconazole (0.1%)	18q/ha	16375	1:2.23
2. 2 Sprays of Tebuconazole (0.1%)	20q/ha	18575	1.:2.50
3. 2 Sprays of Hexaconazole (0.1%)	18.5q/ha	16875	1:2.28

^{*}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 :Performance of different varieties of fodder crops under

round the year fodder production

2)Problem diagnose/defined : lack of green fodder in lean period

3) Details of technologies

selected for assessment/refinement: Introduction and Testing of different fodder varieties under round the year fodder production.

4)Source of technology :KVK Reasi

5) Production system thematic area: Production technology

6)Thematic area : Integrated crop management

7)Performance of the Technology with

performance indicators : in different season, different crop improved varieties shown

a very high growth in comparison to local varieties.

8) Final recommendation for

micro level situation : Tree plantations on the farm bunds can provide a large

amount of green fodder for the animals in the lean period, with cultivation of high yielding varieties Oats, Barseem

and sorghum in Rabi & Kharif season respectively.

9) Constraints identified and

feedback for research : Lack of awareness about improved fodder varieties & use

of wheat straw and locally available grasses for feeding of cattle's.

10) Process of farmers participation and

their reaction

: Farmers showed keen interest in the demonstrations and shown interest in plantation of trees under agro forestry system on their farms.







Fig: Sorghum, Grewia tree and Oats on field.

11). Results of On Farm Trials

Crop/ enterpri se	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Para meters of assess ment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
fodde r	Rain fed	lack of fodder in lean period	Performan ce of different varieties of fodder crops under round the year fodder production	2	T0-Local varieties of Sorghum, Barseem, and Oats T1- Sorghum SSG114 Barseem Vardaan Oats Kent	Yield Q/ha	Sorghum 310 00/ha Barseem 50000/h a Oats 52000/h a <i>Grewia</i> optiva 46kg/tre e	In different seasons the HYV of fodder crops showed better performance in comparison to local check in which farmers used wheat straw and local grasses.	Farmers showed interest in the demonstration and shown interest in plantation of trees under agro forestry system on their farms.

^{*} No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
T1- Sorghum (SSG114)	31000	22200	1:2.52
Barseem (Vardaan)	50000	40800	1:4.43
Oats (Kent)	52000	44000	1:5.5
T0- Sorghum Local	16875	9875	1:2.41
Barseem Local	30000	23000	1:4.28
Oats Local	26250	19050	1:3.64

1) Title : Effect of different doses of nutrients on the growth of Bauhinia

variegata

2) Problem diagnose/defined : Slow growth of Bauhinia variegata on border plantation.

3) Details of technologies

selected for assessment

/refinement : Effect of different organic & chemical fertilizers on the growth of

B. variegata.

4) Source of technology : KVK Reasi

5) Production system

thematic area : Integrated farming system

6)Thematic area : fodder based agro-forestry system

7) Performance of the Technology with

performance indicators: Different organic & chemical fertilizers are being tested on

the growth of B. variegata

8) Final recommendation for

micro level situation : Trees of *B. variegata* can be planted on the farm boundary

to fulfill the fodder needs of cattle.

9) Constraints identified and

feedback for research : Heavy lopping, less plantation & Slow growth of Bauhinia

variegata.

10) Process of farmers

participation and

their reaction : Farmers showed keen interest in the trial for their need of

fodder.

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
fodder	Rainfed	Slow growth of Bauhinia variegata on border plantation.	Effect of different doses of nutrients on the growth of Bauhinia variegata	1	T1- control T2- Organic manure T3- NPK	Survival & growth (Height & Diameter)	Survival percent 60%	After one year 60% plants are surviving. Height and diameter will be recorded to get the growth in a year.	Farmers showed keen interest in the trial for their need of fodder.

^{*} No. of farmers

Trial 8

1. Title : Weed management in wheat.

2. Problem diagnose/defined : Low productivity in wheat yield due to weeds.

3. Details of technologies selected for assessment/refinement:

T0-Farmer Practice (manuall)

T1- Atlantis (400g\ha) T2- Metribuzin(250g/ha)

T3- Sulphosulphrone (33g/ha)

4. Source of technology : SKUAST-Jammu KVK Reasi

5. Production system thematic area: Rainfed Cereal based system

6. Thematic area : Integrated Weed management

7. Performance of the Technology

with performance indicators: The application of pre emergence weedicides within

40 days after sowing resulted in reducing the weed

population drastically. Application of Atlantis @ 400g/ha gave maximum control of weeds and

increased the yields of wheat.

8. Final recommendation

for micro level situation :Application of Atlantis (400g/ha)

resulted in maximum weed control followed by

Sulphosulphuron (33g/ha) and Metribuzine (250g/ha) respectively can be recommended for controlling the

weeds in the wheat fields.

9. Constraints identified and Unavailability of the high quality weedicides

feedback for research :

10. Process of farmers participation

and their reaction : The farmers were satisfied with the result of

weedicides

11). Results of On Farm Trials

Crop/ enterpris e	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology refined	Param eters	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
Wheat	Rainfed	low productivi ty in wheat crop due to weed competiti on.	Weed manageme nt in wheat	3	T1- farmer practice T2- Atlantis (400g/ha) T3- Metribuzi ne (250g/ha) T4- Sulphosul phrone (33g/ha)	Wee d coun t Yield	Weed count T1- 89 (No/m²) T2- 7 (No/m²) T3- 25 (No/m²) T4- 11 (No/m²) Yield T1- 14q/ha T2- 20q/ha T3 –17q/ha T4- 19q/ha	Atlantis showed the best control of weeds and increased the grain yields as compared to others	The farmer appreciate d the demonstrat ed technologie s on integrated weed manageme nt practices in wheat	Weed managem ent is not followed in the Reasi and its promotion is required for better yields.

^{*} No. of farmers

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
T1 - farmer practice	14q/ha	9600	1:2.07
T2 - Atlantis (400g/ha)	20q/ha	17300	1:2.78
T3 -Metribuzine (250g/ha)	17q/ha	13800	1:2.42
T4 Sulphosulphrone (33g/ha)	19q/ha	15800	1:2.62

Trial 9

1. Title : Weed management in Onion.

2. Problem diagnose/defined : High labour cost and Low productivity in

Onion yield due to weeds.

3. Details of technologies selected for assessment/refinement:

T0-Farmer Practice (Manuall)

T1- stomp (2.5l\ha) (Pre- plant application)

T2- Basaline (1.0L/ha) (Pre- emergence application)

T3- Terga super (1.0L/ha) (Post emergent

application)

4. Source of technology : SKUAST-Jammu KVK Reasi

5. Production system thematic area: maize-onion – vegetables.

6. Thematic area : Integrated Weed management

7. Performance of the Technology

with performance indicators: The application of pre emergence weedicides before

transplanting have resulted in reducing the weed

population drastically. Application of Stomp @

2.5L/ha gave maximum control of weeds .

8. Final recommendation

for micro level situation: Application of Stomp (2.5L/ha) resulted

in maximum weed control followed by

basaline (1.0L/ha) and Least effective was post

emergent weedicide respectively can be recommended for

controlling the weeds in the wheat fields.

11. Constraints identified and Unavailability of the high quality weedicides

feedback for research :

12. Process of farmers participation

and their reaction : The farmers were satisfied with the result of

weedicides

11). Results of On Farm Trials

Crop/ enterprise	Farming	Problem	Title of OFT	No. of	Technology	Parameters	Data on the	Results of	Feedback from	Justifi cation for
21.10. 21.130	situation	Diagnosed		trials*	refined	3.5	parameter	refinement	the farmer	refinement
1	2	3	4	5	6	7	8	9	10	11
Onion	Rainfed	Labour intensive operation and low yields due to weeds.	Weed management in Onion	3	T1- farmer practice (manual) T2- Pre plant application of stomp(2.5L/ha) T3-Pre-emergence applicationof basaline (1.0L/ha) T4- post emergence application (1.0/ha)	i. Weed count ii- yield	T1- 110 (No/m ²⁾ T2- 15 (No/m ²⁾ T3- 47 (No/m ²⁾ T4- 85 (No/m ²) Yield awaited	Pre plant application with stomp has given the best weed control. as compared to pre emergence with very less control by post emergence application	The farmer appreciated the demonstrated technologies on integrated weed management practices in onion	Weed management is not followed in the Reasi and its promotion is required for better yields.

* No. of farmers

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
T1 - farmer practice (manual)	R.A	RA	
T2 – pre plant application (2.5L/ha)			
T3 -Pre emergence (1.0L/ha)			
T4 post emergence (1.0L/ha)			

Trial 10

1. Title : Integrated nutrient management in wheat

2. Problem diagnose/defined : Poor soil health due to continous cropping years

after years.

3. Details of technologies selected for assessment/refinement:

T0-Farmer Practice (full NPK) T1-75% NPK + Vermicompost T2-75% NPK + Bio Chaar

4. Source of technology : SKUAST-Jammu

5. Production system thematic area: rainfed cereal based system.

6. Thematic area : Integrated nutrient management management

7. Performance of the Technology

with performance indicators: The application of vermicompost and Bio Chaar will

improve soil health and its effect on yield will

be studied.

8. Final recommendation for micro level situation : results awaited

13. Constraints identified and Unavailability of the organic manures in

sufficient quantities.

feedback for research :

14. Process of farmers participation

and their reaction : Results awaited

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology refined	Parameters	Data on the parameter	Results of refinement	Feedback from the farmer	Justifi cation for refinement
1	2	3	4	5	6	7	8	9	10	11
Wheat	Rainfed	Poor soil health	Integrated nutrient management in wheat.	1	T1- full NPK (farmer Practice T2- 75% NPK with vermicompost T3- 75% NPK with Bio Chaar.	i. crop stand ii- yield	R.A.	Application of vermicompost and biochaar had little affect on crop stand the results are awaited.	Results are awaited	Due to continous cropping soil health is deteriorating and efforts are to be made for its restoration.

* No. of farmers

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
T1 - farmer practice (100% NPK)	R.A	RA	
T2 – 75% NPK + vermicompost (6t/ha)			
T3 -75% NPK with Bio Chaar. (6t/ha)			

3.2 Achievements of Frontline Demonstrations

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2011-12 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology				
					No. of villages	No. of farmers	Area in ha		
1	MAIZE	ICM	Improved technologies and cultural practices	Awareness camps Kisaan ghoshthies Field visits Trainings	3	12	2		
2	Til	ICM	Improved technologies and cultural practices	-do-	5	20			
3.	Black Gram	ICM	Improved varieties	-do-		7	39		
4.	Vegetables	ICM	Improved varieties / hybrids	-do-	5	50	1.5		
5.	Wheat	ICM	New variety	-do-	5	40	5.0		
6.	Chick pea	ICM	New variety Pest control	-do-	6	15	3.0		
7	Fodder	ICM	New variety	-do-	5	25	4.0		
8.	Oilseed (Rabi)	ICM	Improved technologies and cultural practices	-do-	10	50	10.0		
9.	Backyard poultry	ICM	Diversification	-do-	2	20	200		
•				-do-					

^{*} Thematic areas as given in Table 3.1 (A1 and A2)

b. Details of FLDs implemented during 2011-12 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

SI. Crop	Thematic area	Technolo gy	Season	Area	(ha)		No. of farm demonstra		Reasons for shortfall in achievement	
No.	Crop	Thematic area	Demonstr ated	and year	Propose d	Actual	SC/ST	Others	Total	-
1.	Maize	Integrated crop management	Hybrid Varieties	Kharif 2011	5.0	5.0	18	21	39	-
2.	Sorghum	Integrated crop management	Hybrid Varieties	Kharif 2011	2.0	2.0	13	11	24	-
3.	Black gram	Integrated crop management	Improved varieties	Kharif 2011	5.0	5.0	17	20	37	-
4.	Green gram	Integrated crop management	Improved varieties	Kharif 2011	2.0	2.0	9	15	24	-
5.	Marigold	Integrated crop management	Improved varieties	Kharif 2011	1.00	1.00	4	13	17	-
6.	Til	Integrated crop management	Improved varieties	Kharif 2011	5.00	5.00	9	11	20	-
7.	Turmeric	Integrated crop management	Improved varieties	Rabi 2011	0.2	0.2	17	20	37	-
8.	Wheat	Integrated crop management	Improved varieties	Rabi 2011	5	5	22	29	51	-
9.	Oats	Integrated crop management	Improved varieties	Rabi 2011	1.5	1.5	14	6	20	-
10.	Chickpe a	Integrated crop management	Improved varieties	Rabi 2011	2.5	2.5	15	18	33	-

11.	Lentil	Integrated crop management	Improved varieties	Rabi 2011	.65	.65	5	8	13	-
12.	Dhingri	Integrated crop management	Improved varieties	Rabi 2011	-	-	30	40	70	-
13.	Toria	Integrated crop management	Improved varieties	Rabi 2011	4	4	14	33	47	-
14.	Mustard	Integrated crop management	Improved varieties	Rabi 2011	4	4	12	14	26	-
15.	Gobi sarson	Integrated crop management	Improved varieties	Rabi 2011	2	2	20	13	33	-
16.	Okra	Integrated crop management	Improved varieties	Kharif 2011	2	2	13	30	43	-

Details of farming situation

Crop	Season	arming tuation Irrigated)	ta ici la ta		f soil	ious crop	wing date	/est date	easonal nfall (mm)	of rainy days	
Стор	Se	Far situ (RF/II	Soil	N	Р	К	Prev	Sow	Han	Sea	No.

Performance of FLD

Crop	Technology Demonstrated	Variety	No. of Farmers		Demo. Yield Qtl/ha			Yield of local Check	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
					Н	L	Α			Demo	Local
2		4			-	_			11	12	13
Maize	Scientific cultivation of hybrid maize	Plant gene	10	1.5	26	16	21	14	50	Yield	Yield
		bio seed	11	1.5	25	15	20	14	42.85	Yield	Yield
		Polo	10	1		16	20.5	14	46.42	Yield	Yield
			8	-				14	32.14	Yield	Yield
Sorghum	Promotion of hybrid varieties of sorghum	SSG-114	24	2.0	320	240	280	225	38.48	Yield	Yield
Black gram	Improved varieties of black gram	Uttara	37	5.0	6.8	3.8	5.3	3.5	51.14	Yield	Yield
Green gram	Improved varieties of green gram	SML-668	24	2.0	5.2	3.2	4.2	3.0	40.00	Yield	Yield
Marigold	Promotion of Improved	Pusa Narangi	17	1.0	6.0	4.5	5.25	-	-	Yield	Yield
Til	Improved varieties and balanced use of fertilizers	Pb til 1	20	5.0	6.2	5.0	5.6	3.2	43.75	Yield	Yield
Turmeric	Scientific cultivation of turmeric	Local	37	0.2	110	80	95	75	26.66	Yield	Yield
	Maize Sorghum Black gram Green gram Marigold Til	Maize Scientific cultivation of hybrid maize Sorghum Promotion of hybrid varieties of sorghum Black gram Improved varieties of black gram Green gram Marigold Promotion of Improved varieties of green gram Marigold Promotion of Improved varieties Til Improved varieties Til Scientific cultivation of	Plant gene Scientific cultivation of hybrid maize Black gram Black gram Green gram Marigold Marigold Demonstrated Scientific cultivation of hybrid maize bio seed Polo KH-612 SSG-114 SSG-114 Uttara Uttara Uttara SML-668 Varieties of black gram Marigold Promotion of green gram Marigold Promotion of Improved varieties of green gram Marigold Promotion of Improved varieties Til Improved varieties Til Scientific cultivation of Cultivation of Local	Policy and the second strated below the second strated below to seed the second strate of the	Demonstrated Variety Farmers (ha.)	Crop Demonstrated Variety Farmers (ha.) H	Crop Demonstrated Parmers Cha.	Naize Demonstrated Variety Farmers (ha.) H	Crop Technology Demonstrated Variety No. of Farmers Area (ha.) Demo. Yield QtI/ha Of local Check QtI/ha 2 3 4 5 6 7 8 9 10 Maize Scientific cultivation of hybrid maize Plant gene 10 1.5 26 16 21 14 Polo 10 1.5 25 15 20 14 Polo 10 1 25 16 20.5 14 Sorghum Promotion of hybrid varieties of sorghum SSG-114 24 2.0 320 240 280 Black gram Improved varieties of green gram Uttara 37 5.0 6.8 3.8 5.3 3.5 Green gram Improved varieties of green gram SML-668 24 2.0 5.2 3.2 4.2 3.0 Marigold Promotion of Improved varieties and balanced use of fertilizers Pb til 1 20 5.0 6.2 5.0 5.6 Turmeric Scientific cu	Crop Technology Demonstrated Variety No. of Farmers Area (ha.) Demo. Yield Qtl/ha (ha.) Increase in yield (%) 2 3 4 5 6 7 8 9 10 11 Maize Scientific cultivation of hybrid maize Plant gene 10 1.5 26 16 21 14 50 Maize bio seed 11 1.5 25 15 20 14 42.85 Polo 10 1 25 16 20.5 14 46.42 Sorghum Promotion of hybrid varieties of sorghum SSG-114 24 2.0 320 240 280 225 38.48 Black gram Improved varieties of black gram Uttara 37 5.0 6.8 3.8 5.3 3.5 51.14 Green gram Promotion of Improved varieties of green gram Pusa Narangi 17 1.0 6.0 4.5 5.25 - - - - - Till	Crop Technology Demonstrated Variety De

8	Wheat	Varietal evaluation of	PBW175, ,	24	2.0	22	16	19	12	58.33	Yield	Yield
		wheat	PBW-550	15	1.50	20	15	17.5	12	45.83	Yield	Yield
			Raj.3765	10	1.50	20	16	18	12	50.00	Yield	Yield
			RAJ.3077	2	0.50	21	16	18.5	12	54.16	Yield	Yield
9	Oats	Promotion of Improved varieties	Kent	20	1.5	540	350	445	350	21.42	Yield	Yield
10	Chickpea	Improved varieties & control of podborer	GPF-2	33	2.5	6.5	4.2	5.35	4.20	27.38	Yield	Yield
11	Lentil	Improved varieties	L-4147	13	.65	5.5	3.2	4.3	2.5	72.0	Yield	Yield
12	Dhingri	Scientific cultivation of dhingri	Pleurotus Caju	70	-	-	-	-	-	-	Yield	Yield
13	Toria	Scientific cultivation of Toria	RSPT01	12	4	7.7	5.3	6.50	4.80	35.41	Yield	Yield
14	Mustard	Scientific cultivation of Mustard	RSPR-1	26	4	7.5	6	6.75	5.00	35.00	Yield	Yield
15	Gobisarson	Scientific cultivation of Gobisarson	DGS-1	33	2	7.6	6.2	6.9	5.25	31.42	Yield	Yield
16.	Okra	Improved varieties	Syali special Varsha upahaar	43	2	70	52	61	44	38.63	Yield	yield

NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

Average Cost of (Rs./ha)	cultivation	Average Gross Ret	urn (Rs./ha)	Average Net Retu (Rs./ha)	•	Benefit- Cost Ratio
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	(Gross Return / Gross Cost)
14	15	16	17	18	19	20
9500	8800	26000	18000	6900	9200	1:2.73
9200	8800	24100	18000	14900	9200	1:2.61
9500	8800	25000	18000	15500	9200	1:2.63
9200	8800	22100	18000	12900	9200	1:2.40
8800	8000	28000	22500	19200	14500	1.3.18
12300	10600	35100	21000	22800	10400	1:2.85
12500	10900	26500	19500	14000	8600	1:2.12
50000	-	200000	-	150000	-	1:4.00
13700	11800	31600	17900	17900	6100	1:2.30
120000	100000	260000	200000	140000	100000	1:2.16
9700	8900	36100	18200	26400	9300	1:3.72
9700	8900	33900	18200	24200	9300	1:3.49
9700	8900	34200	18200	24500	9300	1:3.52
9700	8900	24900	18200	25200	9300	1:3.59
9200	7400	33375	26250	24175	18850	1:3.62
8250	7400	33000	25000	24750	17600	1:4.00
12500	10500	33000	20000	20500	9500	1:2.64
-	-	-	-	-	-	-
8000	7200	22900	18100	14900	10900	1:2.86
8100	7200	23400	18700	15300	11500	1:2.88
8215	7810	24000	21000	15785	13190	1:2.92
20000	15000	60000	40000	40000	25000	1: 3.00

Analytical Review of component demonstrations (details of each component for rainfed / irrigated situations to be given separately for each season).

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Maize (Plant gene, Bioseed, polo, KH 612)	Kharif 2011		Rain fed	21, 20, 20.5, 18.5	14.0	50, 42.85, 46.42, 32.14
Sorghum	-do-		Rain fed	280	225	38.48
Black gram	-do-		Rain fed	5.30	3.50	51.14
Green gram	-do-	-	Rain fed	4.20	3.0	40.0
Marigold	-do-	1	Rain fed	5.25	-	-
Til	-do-	Seed/Variety/	Rain fed	5.60	3.20	42.75
Turmeric	-do-	Fertilizer	Rain fed	95	75	26.6
Wheat (PBW-175, PBW550, Raj 3765, Raj 3077)	Rabi 2011	management	Rain fed	19, 17.5, 18, 18.50	12	58.33, 45.83, 50.00, 54.16
Oats	-do-		Rain fed	445	350	21.42
Chickpea	-do-		Rain fed	5.35	4.20	27.38
Lentil	-do-		Rain fed	4.30	2.50	72.00
Dhingri	-do-		Rain fed			
Toria	-do-	-	Rain fed	6.50	4.80	35.41
Mustard	-do-	-	Rain fed	6.75	5.00	35.00
Gobisarson	-do-	-	Rain fed	6.90	5.25	31.42
Okra	-do-	1	Rain fed	61	44	38.63

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Maize variety Plant gene performed better than all other hybrids in current year.
2	PB-til 1 performed exceptionally well in Reasi with yielfds upto 6.20q/ha.
3	PBW-175 performed much better and was resistant to yellow rust as compared to other varieties especiall PBW 550 which was effected by rust.
4.	Toria RSPT-1 showed excellent results and compensated farmers for late sowing of wheat

Farmers' reactions on specific technologies

S. No	Feed Back
1	Farmers were enthusaiastic about new maize hybrids in the districts and were willing to pay for these

	var's.
2	Til also attracted farmers fancy due to good results this year.
3	Raj 3077 performed best as late variety whereas PBW 175 is best normal sown rainfed variety of the district.
4	Lentil var. L4147 is suited to our conditions.
5	Mash var. uttara and moong SML 668 are now proven var. in Reasi and Udhampur.

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	5	28-04-11	55	Good gathering
			06-09- 2011	56	-do-
			07-09-11	44	-do-
			22-09-11	73	-do-
			26-11-11	36	-do-
2	Farmers Training	-	03-06-11 08-08-11 08-09-11	18 50 13	-do-
3	Media coverage	2			
4	Training for extension functionaries	-			

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	```			Economics (Rs./ha)			
				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra										
Maize	Plant gene	10	1.5	21	14	50	9500	26500	6900	1:2.73
	Bio seed	11	1.5	20	14	42.85	9200	24100	14900	1:2.61
	Polo	10	1.0	20.5	14	46.42	9500	25000	15500	1:2.63
	KH-612	8	1.0	18.5	14	32.14	9200	22100	12900	1:2.40
Paddy										
Sorghum										
Wheat										
Others (pl.specify)										
Total		39	5.0							
Oilseeds										
Castor										

		1	1					1	 	1
Mustard										
Safflower									<u> </u>	
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
	Varsha		2.0	61.0	44.0	38.63				
	Upahhar									
Okra	Sayali special	43					20000	60000	40000	1:3.00
Onion	Special	43					20000	00000	40000	1.3.00
Potato										
Field bean										
Others (pl.specify)										
Others (pr.specify)										
Total		43	2.0	61.0	44.0	38.63				1:3.00
Commercial crops		43	2.0	01.0	11.0	00.00				1.3.00
Cotton										
Coconut			1							
Others (pl.specify)			+			1				
Cariors (prispectify)			†			1	1			
Total			†							
Fodder crops			<u> </u>							
Napier (Fodder)			†						+	
Maize (Fodder)			†			1			+	
iviaize (i oddei)	SSG-		2.0	280	225	38.48	1			
Sorghum (Fodder)	114	24					8800	28000	19200	1:3.18
Others (pl.specify)										
```'	t	<b>-</b>	1	1		<b>†</b>	1	İ	1	
Total		24	2.0							

#### (i) Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data parame relation techno demons Demon.	ter in n to logy	% change in the parameter	Remarks

# (ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	* Data parame relatio techno demons Demon.	ter in n to logy	% change in the parameter	Remarks

# (iii) Other Enterprises

Enterprise	Variety/ breed/Species/oth ers	No. of farmers No. of Units		Performanc e parameters	Data parame relatio techno demons	eter in on to ology	% change in the parameter	Remarks	
				indicators	Demon.	Local check			
Mushroom	Pleurotus spp.	70	1	Yield	2.o kg/bag	-	-	Farmers got good results from the demonstrati ons	
Apiary									
Sericulture									
Vermi compost									

# 3.3 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) Formers 9		1		1	I	-				
(A) Farmers & Farm Women										
I Crop										
Production										
Weed										
Management										
Resource										
Conservation										
Technologies										
Cropping Systems										
Crop										
Diversification										
Integrated										
Farming										
Water										
management										
Seed production										
Nursery										
management										
Integrated Crop		1		1			1			
Management							1			
Fodder production	1	4	0	4	6	5	11	10	5	15
Production of		7	-	-	0	3	- ' '	10	3	10
organic inputs										
Il Horticulture										
a) Vegetable										
Crops										
Production of low	1	8	0	8	6	0	6	14	0	14
volume and high										
value crops										
Off-season										
vegetables										
Nursery raising										
Exotic vegetables										
like Broccoli										
Export potential										
vegetables										
Grading and										
standardization										
Protective										
cultivation (Green							1			
Houses, Shade							1			
Net etc.)										
b) Fruits										
Training and										
Pruning				<u> </u>						
Layout and										
Management of										
Orchards				<u> </u>						
Cultivation of Fruit										
Management of										
young										
plants/orchards										
Rejuvenation of				1	İ					
old orchards										
Export potential				1						
fruits										
	1	1	1	1	1	1	1	l .	1	1

	Ι.	T _	T _						1 _	
Micro irrigation	1	8	2	10	9	4	13	17	6	23
systems of										
orchards										
Plant propagation										
techniques										
c) Ornamental										
Plants										
Nursery										
Management										
Management of										
potted plants										
Export potential of	1	19	0	19	17	0	17	36	0	36
ornamental plants										
Propagation										
techniques of										
Ornamental Plants										
d) Plantation										
crops										
Production and										
Management										
technology										
Processing and										
value addition										
e) Tuber crops										
Production and										
Management										
technology										
Processing and										
value addition										
f) Spices										
Production and										
Management										
technology										
Processing and										
value addition										
g) Medicinal and										
Aromatic Plants										
Nursery										
management										
Production and										
management										
technology										
Post harvest										
technology and										
value addition							1			
III Soil Health										
and Fertility							1			
Management										
Soil fertility										
management										
Soil and Water										
Conservation										
Integrated Nutrient										
Management							1			
Production and	1	13	0	13	11	0	11	24	0	24
use of organic			_	-		-			_	- '
inputs										
Management of										
Problematic soils										
	l .	1	1	l	1	I	1	l	<u>I</u>	

		1	•	ı		1	ı		T	
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										
Science/wonlen										
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		1	12	13	0	0	0	1	12	13
mainstreaming	1	'	12	13		"		'	12	13
	ı									
through SHGs					1					
Storage loss										
minimization										
techniques										
Value addition										
Income generation										
activities for										
empowerment of										
rural Women										
Location specific										
drudgery										
reduction										
		1	L	i	1	l .	1		l	

toobpologica						1
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						
VII Plant						
Protection						
Integrated Doot						
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			<u> </u>			
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						
r en culture or iish		<u> </u>				

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-pesticides production Permi-compost production Vermi-compost production Production of fish feed X Capacity Building and Group Dynamics Leadership development Group dynamics 1 8 0 8 5 0 5 13 0 13 Formation and Management of SHGS Mobilization of social capital Entrepreneurial development of tamers youths WTO and IPR issues WTO and IPR issues WTO and IPR issues	Γ		,				_			T	1
Edible oyster faming Pearl culture Fish processing and value addition IX Production of Imputs at site Seed Production Planting material production Bio-agents production Bio-agents production Bro-fetilizer production Vermi-compost production Production Organic manures production Production Organic manures production Production of If year and ingerlings Production Production Production of Fish feed X Capacity Building and Group Dynamics Leadership 1 6 1 7 10 1 111 10 8 18 Formation and Management of SHOs Michael SHOs No. 13 13 13 13 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	and prawn										
faming Pearl culture											
Pearl culture Fish processing and value addition IX Production of Inputs at site  Seed Production Planting material production Bio-agents production Bio-production Bio-production Bio-production Bio-production Bio-terilizer production Production Production Production Vermi-compost production Vermi-compost production Production of Iry and fingerlings Production of Beccolonies and wax sheets Small tools and implements Production of Fish feed X Capacity Building and Group Dynamics Leadership 1 6 1 7 10 1 11 10 8 18 Event of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SHGs How Institute of SH	Edible oyster										
Fish processing and value addition IX Production of Inputs at site  Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-pesticides production Porticides production Organic manures production Organic manures production Production of fry and fingerings Production of Beccolonies and wax sheets Small tools and implements Production of Fish feed X Capacity Building and Group Dynamics Leadership development Group dynamics 1 8 0 8 5 0 5 13 0 13 Formation and Management of SHGS Mobilization of social capital Entrepreneurial development of tamers/youths WTO and IPR issues VIX Agro-forestry Production technologies VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-	farming										
Fish processing and value addition IX Production of Inputs at site  Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-pesticides production Porticides production Organic manures production Organic manures production Production of fry and fingerings Production of Beccolonies and wax sheets Small tools and implements Production of Fish feed X Capacity Building and Group Dynamics Leadership development Group dynamics 1 8 0 8 5 0 5 13 0 13 Formation and Management of SHGS Mobilization of social capital Entrepreneurial development of tamers/youths WTO and IPR issues VIX Agro-forestry Production technologies VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-forestry VIX Agro-	Pearl culture										
and value addition IX Production of Inputs at site  Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-pesticides production Bio-pesticides production Organic marures production Organic marures production Organic marures production of fry and fingerlings Production of flee colonies and wax sheets Small tools and implements Production of Fish feed  X Capacity Building and Group Dynamics Leadership development Group dynamics 1 8 0 8 5 0 5 13 0 13 Formation and Management of SHGs How Tools and Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Incompanies Inco											
IX Production of Inputs at site  Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-pesticides production Corganic manures production Production of fry and fingerings Production of fish feed Small tools and implements Production of Fish feed Sw Capacity Building and Group Dynamics Leadership development of SrCos Mobilization of Social capital Entrepreneurial development of same sissues IX A gor-forestry Production of IPR issues Susses XI A gor-forestry Production of second and management integrated											
Inputs at site  Seed Production Planting material production Bio-agents production Bio-production  IX Production of											
Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-pesticides production Bio-pesticides production Production Bio-pesticides production Production Organic manures production Production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of Fish feed X Capacity Building and Group Dynamics Leadership development Group dynamics Scale (application of Sheet) Group dynamics Scale (application of Sheet) Group dynamics Scale (application of Sheet) Sheds Mobilization of Social capital Entrepreneural development of farmers/youths WTO and IPR issues WTO and IPR issues Sissues Nursery Management Integrated											
Planting material production Bio-agents production Bio-agents production Bio-agents production Bio-besticides production Bio-intitizer production Production Production Production Organic manures production Production of fry and fingerlings Production of fry and fingerlings Production of Flant feed A Capacity Building and Group Dynamics Production of Fish feed A Capacity Building and Group Dynamics 1 8 0 8 5 0 5 13 0 13 Flormation and Management of SHGs Mobilization of social capital Entrepreneural development of farmers/youths WTO and IPR issues Nursery management Integrated Integrated	Inputs at site										
Planting material production Bio-agents production Bio-agents production Bio-agents production Bio-besticides production Bio-intitizer production Production Production Production Organic manures production Production of fry and fingerlings Production of fry and fingerlings Production of Flant feed A Capacity Building and Group Dynamics Production of Fish feed A Capacity Building and Group Dynamics 1 8 0 8 5 0 5 13 0 13 Flormation and Management of SHGs Mobilization of social capital Entrepreneural development of farmers/youths WTO and IPR issues Nursery management Integrated Integrated	Seed Production										
production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost production Vermi-compost Production of Fiva Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indication Indi											
Bio-agents production Bio-pesticides production Bio-pesticides production Bio-pesticides production Production Organic manures production Production of fiva and fingerlings Production of Becolonies and wax sheets Small tools and implements Production of livestock feed and fodder Production of Fish feed X X Capacity Building and Group Dynamics Leadership development 1 8 0 8 5 0 5 13 0 13 Formation and Management of SHGs Mobilization of 1 7 0 7 9 0 9 16 0 16 SHGs Mobilization of 1 1 7 0 7 9 0 9 16 0 16 SHGs Mobilization of 1 1 7 0 1 1 11 10 8 18 Entrepreneurial development of famers/youths WTO and IPR issues XI Agro-forestry Production tetchnologies Nursery management integrated											
production Bio-pesticides production Bio-fertilizer production Organic manures production Organic manures production of fry and fingerlings Production of Bee- colonies and wax sheets Small tools and implements Production of Fish feed X Capacity Building and Group Dynamics Leadership development 1 6 1 7 10 1 11 10 8 18 Tormation and Management of SHGs Mobilization of 1 Entrepreneurial development Entrepreneurial development SWTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated											
Bio-pesticides production Bio-fertilizer production Vermi-compost production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Beccolonies 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 of SHGs Mobilization of SHGs Mobilization of SHGs Mobilization of SHGs Mobilization of ShGs Mobilization of SHGs SKI SKI SKI SKI SKI SKI SKI SKI SKI SKI											
Droduction   Droduction   Droduction   Droduction   Droduction   Droduction   Droduction   Droduction   Droduction   Droduction   Droduction   Droduction   Droduction   Droduction of fry and fingerlings   Droduction of fry and fingerlings   Droduction of Bee-colonies and wax sheets   Droduction of Bee-colonies and wax sheets   Droduction of Indicate   Droduction of I											
Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and fodder Production of Fish feed X Capacity Building and Group Dynamics Leadership development 1 6 1 7 10 1 111 10 8 18 Group Dynamics 1 8 0 8 5 0 5 13 0 13 Formation and Management of ShGs Mobilization of social capital 1 7 0 7 9 0 9 16 0 16 Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production tetchnologies Nursery management lintegrated											
production Vermi-compost production Organic manures production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and fodder Production of Fish feed X Capacity Building and Group Dynamics  Leadership development 1 8 0 8 5 0 5 13 0 13 Formation and Management of SHGs  Hobilization of social capital 1 7 0 7 9 0 9 16 0 16 social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry  Production technologies Nursery management linetgrated			†								
Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and foodder Production of Fish feed X Capacity Building and Group Dynamics Leadership development 1 6 1 7 10 1 11 10 8 18 Group dynamics 1 8 0 8 5 0 5 13 0 13 Formation and Management of ShGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management											
production Organic manures production Production Production of five and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and fooder Production of Fish feed X Capacity Building and Group Dynamics Leadership development of Group dynamics 1 8 0 8 5 0 5 13 0 13 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated			+					-			
Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and fodder Production of Fish feed X Capacity Building and Group Dynamics											
production of fry and fingerlings Production of Bee-colonies and was sheets Small tools and implements Production of livestock feed and fodder Production of Fish feed X Capacity Building and Group Dynamics Leadership Group dynamics 1 8 0 8 5 0 5 13 0 13 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated			+								
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 1 8 0 8 5 0 5 13 0 13 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated Integrated											
and fingerlings Production of Beecolonies 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 8 0 8 5 0 5 13 0 13 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated		<del> </del>									
Production of Beecolonies 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  1 8 0 8 5 0 5 13 0 13  Formation and Management of SHGs  Mobilization of social capital  Entrepreneurial development of farmers/youths  WTO and IPR issues  XI Agro-forestry  Production technologies  Nursery management Integrated	end finantings										
colonies and wax sheets         Small tools and implements           Production of livestock feed and fodder         Froduction of livestock feed and fodder           Production of Fish feed         Froduction of Fish feed           X Capacity         Building and Group Dynamics           Leadership development         1           Group dynamics         1           Formation and Management of SHGs         9           Mobilization of social capital         1           Entrepreneurial development of farmers/youths         1           WTO and IPR issues         XI Agro-forestry           Production technologies         Nursery management Integrated           Nursery management Integrated         Image: Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr		<b> </b>									
Sheets         Small tools and implements           Production of livestock feed and fodder         Implements           Production of livestock feed and fodder         Implements           Production of Fish feed         Implements           X Capacity         Building and           Group Dynamics         Implements           Leadership         Implements           Group dynamics         Implements           Formation and Management of SHGs         Implements           Mobilization of social capital         Implements           Entrepreneurial development of farmers/youths         Implements/youths           WTO and IPR issues         Implements/youths           XI Agro-forestry         Implements/youths           Production technologies         Implements/youths           Nursery management Integrated         Implements/youths											
Small tools and implements											
Implements											
Production of livestock feed and foodder											
Investock feed and fodder											
Fodder											
Production of Fish feed											
State											
X Capacity   Building and   Group Dynamics   1											
Building and Group Dynamics											
Caroup Dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dynamics   Caroup dyn											
Leadership development	_										
Description   Compared   Compar											
Group dynamics		1	6	1	7	10	1	11	10	8	18
Formation and Management of SHGs  Mobilization of social capital  Entrepreneurial development of farmers/youths  WTO and IPR issues  XI Agro-forestry  Production technologies  Nursery management Integrated											
Management of SHGs  Mobilization of social capital  Entrepreneurial development of farmers/youths  WTO and IPR issues  XI Agro-forestry  Production technologies  Nursery management Integrated		1	8	0	8	5	0	5	13	0	13
SHGs  Mobilization of social capital  Entrepreneurial development of farmers/youths  WTO and IPR issues  XI Agro-forestry  Production technologies Nursery management Integrated											
Mobilization of social capital  Integrated  Amount of social capital  Integrated  Integrat											
social capital  Entrepreneurial development of farmers/youths  WTO and IPR issues  XI Agro-forestry  Production technologies  Nursery management Integrated	SHGs										
Entrepreneurial development of farmers/youths  WTO and IPR issues  XI Agro-forestry  Production technologies  Nursery management Integrated		1	7	0	7	9	0	9	16	0	16
Entrepreneurial development of farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated			<u> </u>					<u> </u>	<u></u>		<u> </u>
farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated											
farmers/youths WTO and IPR issues XI Agro-forestry Production technologies Nursery management Integrated	development of										
WTO and IPR issues  XI Agro-forestry  Production technologies Nursery management Integrated	farmers/youths										
issues  XI Agro-forestry  Production technologies  Nursery management Integrated	WTO and IPR										
XI Agro-forestry  Production technologies  Nursery management Integrated	issues										
Production technologies  Nursery management Integrated	XI Agro-forestry										
technologies  Nursery management Integrated			1								
Nursery management Integrated											
management Integrated			+					-			
Integrated											
			1								
Farming Systems											
	Farming Systems										

TOTAL	9	74	15	89	73	10	83	147	25	172
(B) RURAL										
YOUTH										
Mushroom Production	1	0	6	6	0	14	14	14	6	20
Bee-keeping										
Integrated farming										
Seed production										
Production of										
organic inputs										
Integrated										
Farming										
Planting material	4	6	0	6	9	0	9	15	0	15
production	1									
Vermi-culture										
Sericulture										
Protected										
cultivation of										
vegetable crops										
Commercial fruit	1	17	0	17	4	0	4	21	0	21
production									+	
Repair and maintenance of										
farm machinery										
and implements										
Nursery		11	0	11	8	0	8	19	0	19
Management of	1	1		' '				10		
Horticulture crops	-									
Training and										
pruning of										
orchards										
Value addition										
Production of										
quality animal										
products										
Dairying									+	
Sheep and goat										
rearing Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental										
fisheries										
Para vets										
Para extension										
workers										
Composite fish	· <u> </u>									
culture										
Freshwater prawn										
culture		1							1	
Shrimp farming		1								
Pearl culture										
Cold water										
fisheries									1	
Fish harvest and										
processing technology										
Fry and fingerling							+		+	
i ry and imgening				<u> </u>					ı	

rearing										
Small scale		0	16	16	0	22	22	0	38	38
processing	1									
Post Harvest										
Technology										
Tailoring and										
Stitching										
Rural Crafts										
TOTAL	5	34	22	56	21	36	57	69	44	113
(C) Extension	<u> </u>	34		30	21	30	31	09	44	113
Personnel										
Productivity		10	0	10	0	0	0	10	0	10
enhancement in	1	10	U	10	0	١٠	U	10	U	10
field crops	'									
Integrated Pest										
Management										
Integrated Nutrient		9	0	9	0	0	0	9	0	9
	1	9	U	٩	0	١٠	U	9	U	9
management Rejuvenation of										
old orchards										
Protected									+	
cultivation										
technology										
Formation and			+						+	
Management of SHGs										
Group Dynamics		10	0	10	0	0	0	10	0	10
and farmers	1	10	U	10	U	0	U	10	U	10
organization	'									
Information										
networking among										
farmers										
Capacity building										
for ICT application										
Care and										
maintenance of										
farm machinery										
and implements										
WTO and IPR										
issues										
Management in										
farm animals										
Livestock feed										
and fodder										
production										
Household food										
security										
Women and Child										
care										
Low cost and										
nutrient efficient										
diet designing										
Production and										
use of organic										
inputs										
Gender										
mainstreaming										
through SHGs										
TOTAL	3	29	0	29	0	0	0	29	0	29

## B) OFF Campus

Thematic area	No. of				F	Participants	<u> </u>			
THOMAIC area	courses		Others			SC/ST	,		Grand Tota	ıl
	0001303	Male	Female	Total	Male	Female	Total		Female	Total
		iviale	remale	Total	iviale	remale	Total	Male	remale	Total
(A) Farmers & Farm Women										
I Crop										
Production										
Weed										
Management										
Resource										
Conservation										
Technologies										
Cropping	1	16	0	16	0	0	0	16	0	16
Systems		-	1	_	-	-	1		-	=
Crop			1							
Diversification										
Integrated										
Farming							1			
Water										
management										
Seed production			1							
Nursery										
management										
Integrated Crop	1	10	12	22	14	14	28	24	26	50
Management	'	10	12		17	1-7	20	24	20	30
Fodder										
production										
Production of										
organic inputs										
Il Horticulture										
a) Vegetable										
Crops										
Production of low	1	13	2	15	4	8	12	17	10	27
volume and high										
value crops										
Off-season										
vegetables										
Nursery raising	1	16	0	16	0	0	0	16	0	16
Exotic vegetables										
like Broccoli										
Export potential							1			
vegetables			1							
Grading and							1			
standardization										
Protective										
cultivation (Green							1			
Houses, Shade							1			
Net etc.)			1							
b) Fruits			1							
Training and	1	8	4	12	8	5	13	16	9	25
Pruning			1							
Layout and	1	7	0	7	14	0	14	21	0	21
Management of										

Cultivation of Fruit Management of young plants/orchards Papers of Old orchards Export potential fruits Micro imjation systems of orchards Plants Nursery Management of Plants Propagation techniques Colomane and Management of Production and Management techniques of Ormamental Plants Old Plantation crops Production and Management techniques of Ormamental Plants Propagation techniques of Ormamental Plants Propagation techniques of Ormamental Plants Propagation techniques of Ormamental Plants Propagation techniques of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation to the Colomane of Ormamental Plants Propagation Propagation of Ormamental Plants Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Propagation Prop	0	I	1	1	1	1	1	1		ı	1
Fruit	Orchards										
Management of young plants/orchards											
young plants/orchards Rejuvenation of old orchards Export potential fruits Micro Irrigation systems of orchards Plant propagation techniques C; Ornamental Plants Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Ornamental Plants Propagation 1 19 0 19 17 0 17 36 0 36 techniques of Ornamental Plants Ornamental Plants Propagation techniques of Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Ornamental Plants Orn											
plants/orchards   Rejuvenation of old orchards   Fixed protection of old orchards   Fixed protection of old orchards   Fixed protection of orchards   Fixed protection of orchards   Fixed protection of orchards   Fixed protection of orchards   Fixed protection of orchards   Fixed protection or orchards   Fixed protection or orchards   Fixed protection or orchards   Fixed protection or orchards   Fixed protection or orchards   Fixed protection or orchards   Fixed protection or orchards   Fixed protection or orchards   Fixed protection or orchards   Fixed protection or orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixed protection orchards   Fixe	Management of										
Rejuvenation of old orchards  Export potential fruits  Micro irrigation systems of orchards  Plant propagation techniques  c) Ornamental Plants  Plants Plants  Nursery  Management do potted plants  Export potential of ornamental plants  Propagation techniques of Ornamental Plants  Propagation techniques of Ornamental Plants  Ornamental Plants  Propagation of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c	young										
Rejuvenation of old orchards  Export potential fruits  Micro irrigation systems of orchards  Plant propagation techniques  c) Ornamental Plants  Plants Plants  Nursery  Management do potted plants  Export potential of ornamental plants  Propagation techniques of Ornamental Plants  Propagation techniques of Ornamental Plants  Ornamental Plants  Propagation of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c	plants/orchards										
September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   Sept											
Export potential fruits											
Intritis											
Micro irrigation   1											
systems of orchards Plant propagation techniques c) Ornamental Plants Nursery Management Management of potted plants Export potential of or ormamental plants Propagation techniques of Organical organical plants Propagation techniques of Organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical organical		1	27	1	28	2	0	2	29	1	30
orchards		'		'	20	_		_	25	'	00
Plant propagation techniques c) Ornamental Plants Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental plants Plants A) Propagation 1 19 0 19 17 0 17 36 0 36 techniques of Ornamental plants Production and Management technology Processing and value addition e) Type or or or or or or or or or or or or or											
Itechniques											
Commental   Plants											
Plants											
Nursery   Management   Management of potted plants   Export potential of ornamental plants											
Management Management of potted plants         1         17         2         19         3         0         3         22         0         22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of 22 of											
Management of potted plants   Export potential of ornamental plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation techniques of Ornamental Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   Propagation Plants   P											
Export potential of ornamental plants					ļ	ļ					
Export potential of ornamental plants											
of ornamental plants Propagation Propagation 1 19 0 19 17 0 17 36 0 36  Commental Plants  d) Plantation Crops Production and Management technology Processing and value addition  9) Tuber crops Production and Management technology Processing and value addition  1 12 4 16 4 1 5 16 5 21  Management technology Processing and value addition  9) Medicinal and Aromatic Plants Nursery management Production and danagement technology Processing and value addition  2 33 5 38 16 2 18 49 7 56  management technology Prost harvest technology Prost harvest technology Post harvest technology and value addition III Soil Health	potted plants										
of ornamental plants Propagation Propagation 1 19 0 19 17 0 17 36 0 36  Commental Plants  d) Plantation Crops Production and Management technology Processing and value addition  9) Tuber crops Production and Management technology Processing and value addition  1 12 4 16 4 1 5 16 5 21  Management technology Processing and value addition  9) Medicinal and Aromatic Plants Nursery management Production and danagement technology Processing and value addition  2 33 5 38 16 2 18 49 7 56  management technology Prost harvest technology Prost harvest technology Post harvest technology and value addition III Soil Health	Export potential	1	17	2	19	3	0	3	22	0	22
Propagation techniques of Ornamental Plants   19   19   17   0   17   36   0   36											
Propagation techniques of Ornamental Plants   19   19   17   0   17   36   0   36	plants										
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 f) Spices Production and Management technology Processing and value addition g) Medicinal and Aromatic Plants Nursery management Production and management technology Post harvest technology and value addition III Soil Health		1	19	0	19	17	0	17	36	0	36
Ornamental Plants d) Plantation crops Production and Management technology Processing and value addition e) Production and Management technology Processing and value addition f) Spices Production and Management technology Processing and value addition f) Spices Processing and value addition f) Spices Processing and value addition f) Spices Processing and value addition f) Spices Processing and value addition f) Spices Processing and value addition f) Spices Processing and value addition f) Spices Processing and value addition f) Spices Processing and value addition f) Spices Processing and value addition f) Spices Processing and value addition f) Spices Froduction and formatic Plants Froduction and forma											
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 f) Spices Production and Management technology Processing and value addition f) Spices Production and Management technology Processing and value addition f) Spices Production and Management technology Processing and value addition f) Spices Production and for the first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first											
d) Plantation crops Production and Management technology Processing and value addition Production and Management technology Processing and value addition Production and Management technology Processing and value addition Production and Management technology Processing and value addition Production and Management technology Processing and value addition Production and Management technology Processing and value addition Production and Aromatic Plants Nursery management Production and 2 33 5 38 16 2 18 49 7 56 Protable in a series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series											
crops Production and Management technology Processing and value addition Production and Management technology   Processing and value addition Production and Management technology Processing and value addition Processing and value addition   1 Spices Production and Management technology 1 12 4 16 4 1 5 16 5 21   Processing and value addition Processing and value addition Processing and value addition   9) Medicinal and Aromatic Plants Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and Production and P											
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 f) Spices Production and Management technology Processing and value addition g) Medicinal and Aromatic Plants Nursery management Production and 2 33 5 38 16 2 18 49 7 56 management technology Post harvest technology and value addition III Soil Health											
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 f) Spices Production and Management technology Processing and value addition g) Medicinal and Aromatic Plants Nursery management Production and Management technology Processing and value addition g) Medicinal and Aromatic Plants Nursery management Production and management technology Post harvest technology and value addition III Soil Health											
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 f) Spices Production and Management technology Processing and value addition g) Medicinal and Aromatic Plants Nursery management Production and 2 33 5 38 16 2 18 49 7 56 management technology Post harvest technology and value addition III Soil Health											
Processing and value addition e) Tuber crops Production and Management technology Processing and value addition f) Spices Production and 1 12 4 16 4 1 5 16 5 21 Management technology Processing and value addition g) Medicinal and Aromatic Plants Nursery management Production and 2 33 5 38 16 2 18 49 7 56 management technology Post harvest technology and value addition III Soil Health											
value addition     e) Tuber crops       Production and Management technology	December										
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 technology Production and 2 33 5 38 16 2 18 49 7 56 management technology Post harvest technology and value addition III Soil Health											
Production and Management technology Processing and value addition f) Spices Production and Management technology Processing and value addition f) Spices Production and Management technology Processing and value addition g) Medicinal and Aromatic Plants Nursery management Production and management technology Post harvest technology and value addition III Soil Health											
Management technology Processing and value addition  f) Spices Production and Management technology Processing and value addition  g) Medicinal and Aromatic Plants Nursery management Production and 2 33 5 38 16 2 18 49 7 56 management technology Post harvest technology and value addition  III Soil Health											
technology Processing and value addition f) Spices Production and Management technology Processing and value addition g) Medicinal and Aromatic Plants Nursery management Technology Production and 2 33 5 38 16 2 18 49 7 56  management technology Post harvest technology and value addition III Soil Health											
Processing and value addition  f) Spices  Production and Management technology  Processing and value addition  g) Medicinal and Aromatic Plants  Nursery management  Production and and anagement technology  Processing and value addition  g) Medicinal and Aromatic Plants  Nursery management  Production and and anagement technology  Post harvest technology and value addition  III Soil Health											
value addition f) Spices  Production and Management technology Processing and value addition g) Medicinal and Aromatic Plants  Nursery management Production and management technology  Post harvest technology and value addition III Soil Health											
Froduction and Production and 1 12 4 16 4 1 5 16 5 21 Management technology  Processing and value addition  g) Medicinal and Aromatic Plants  Nursery management  Production and 2 33 5 38 16 2 18 49 7 56 management technology  Post harvest technology and value addition  III Soil Health	Processing and										
Production and Management technology  Processing and value addition  g) Medicinal and Aromatic Plants  Nursery management  Production and management technology  Post harvest technology and value addition  III Soil Health											
Management technology Processing and value addition  g) Medicinal and Aromatic Plants  Nursery management Production and and management technology Post harvest technology and value addition  III Soil Health	f) Spices			<u></u>					<u> </u>		
Management technology Processing and value addition  g) Medicinal and Aromatic Plants  Nursery management Production and and management technology Post harvest technology and value addition  III Soil Health		1	12	4	16	4	1	5	16	5	21
technology Processing and value addition  g) Medicinal and Aromatic Plants  Nursery management  Production and and technology Post harvest technology and value addition  III Soil Health	Management										
Processing and value addition  g) Medicinal and Aromatic Plants  Nursery management  Production and 2 33 5 38 16 2 18 49 7 56 management technology  Post harvest technology and value addition  III Soil Health											
yalue addition g) Medicinal and Aromatic Plants  Nursery management  Production and 2 33 5 38 16 2 18 49 7 56 management technology  Post harvest technology and value addition  III Soil Health	Processing and		1	1	İ	1					
g) Medicinal and Aromatic Plants  Nursery management  Production and 2 33 5 38 16 2 18 49 7 56 management technology  Post harvest technology and value addition  III Soil Health											
Aromatic Plants  Nursery management  Production and 2 33 5 38 16 2 18 49 7 56 management technology  Post harvest technology and value addition  III Soil Health											
Nursery management  Production and 2 33 5 38 16 2 18 49 7 56 management technology  Post harvest technology and value addition  III Soil Health											
management											
Production and 2 33 5 38 16 2 18 49 7 56 management technology  Post harvest technology and value addition  III Soil Health											
management technology Post harvest technology and value addition III Soil Health		2	22	5	20	16	2	10	40	7	56
technology Post harvest technology and value addition III Soil Health		\ ²	33	3	30	10	4	10	49	'	30
Post harvest technology and value addition III Soil Health											
technology and value addition III Soil Health									-		
value addition III Soil Health											
III Soil Health											
	value addition		1	1	<u> </u>	<u> </u>					
and Fortility											
and rotality	and Fertility										

Soil fartility management Soil and Water Conservation Integrated Nutrient Management Production and use of organic injusts Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use Efficiency Soil and Water Testing IV Livestock Production and Management Dairy Management Dairy Management Dairy Management Poduction and Management Poduction and Management Dairy Management Posigning Management Posigning Management Production of quality animal products V Home Science/Women empowerment Household food security by V Home Science/Women empowerment Household food security by Science/Women empowerment of the posigning and development of low/minimizant of 1 1 2 17 19 0 4 4 2 2 11 23 24 25 26 27 28 28 29 20 45 45 45 45	Management	1								1	
Management											
Soil and Water Conservation Integrated Nutrient Management Production and use of organic injusts Management of Problematic soils Micro nutrient deficiency in crops Soil and Water 1 10 0 10 8 0 8 18 0 18 Testing Vi Livestock Production and Management Dairy Management Dairy Management Polity Management Dairy Management Dairy Management Polity 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 of low/minimum cost diet Designing and development of low/minimum cost diet Designing and development of low/minimum cost diet Integration Integrated National State Science Acceptance Science/Women The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st											
Conservation   Integrated											
Integrated   2											
Nutrient Management Production and use of organic injusts Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use Efficiency Soll and Water 1 10 0 10 8 0 8 18 0 18 Testing IV Livestock Production and Management Dairy Management Dairy Management Production and Management Rabbit Management Programment Rabbit Management Production of 1 development of low/minimum cost diet Designing and nutrition gardening Design and development of low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 1 low/minimum cost diet Designing and development of 2 0 0 22 22 0 0 23 0 0 45 45 45							_			_	
Management Production and use of organic inputs Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use Efficiency Soil and Water 1 1 10 0 10 8 0 8 18 0 18 Testing IV Livestock Production and Management Dairy Management Poultry Management I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a country I a		2	31	3	34	30	0	30	61	3	64
Production and use of organic inputs Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use Efficiency Soil and Water 1 10 0 10 8 0 8 18 0 18 Efficiency Soil and Water 1 10 0 10 8 0 8 18 0 18  Production and Management Dairy Management Poultry Management Management Management Piggery Management Piggery Management Piggery Management Production of Userses Management Production of Userses Management Production of Userses Management Production of Userses Management Production of Userses Management Production of Userses W Home Science/Women empowerment Household food security by Kitchen gardening and nutrition gardening Design and development of low/minimum cost diet Designing and development of low/minimum cost diet Minimization of 2 0 22 22 0 23 23 0 45 45											
use of organic injunts  Management of Problematic soils  Micro nutrient deficiency in crops  Nutrient Use Efficiency  Soil and Water 1 10 0 10 8 0 8 18 0 18 Testing  Wit Livestock  Production and  Management  Dairy  Management  Poultry  Management  Piggery  Management  Piggery  Management  Pissase  Management  Preduction of use and use a security by kitchen gardening and nutrition gardening and nutrition gardening and nutrition gardening and nutrition gardening Design and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and development of low/minimum cost diet  Designing and low/minimum cost diet low/minimum cost diet low/minimum cost											
Imputs											
Management of   Problematic soils											
Problematic soils Micro nutrient deficiency in errops Nutrient Use Efficiency Soil and Water 1 1 10 0 110 8 0 8 18 0 18 Testing IV Livestock Production and Management Dairy Management Piggery Management Piggery Management Rabbit Management Disease Management Feed management Freduction of quality animal products V Home ScienceWomen 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 3 20 22 22 0 23 23 0 45 45											
Micro nutrient defeciency in crops Nutrient Use Efficiency Soil and Water 1 1 10 0 10 8 0 8 18 0 18 Testing IV Livestock Production and Management Dairy Management Poultry Management Poultry Management Piggery Management Disease Management Production of quality animal products V Home Science/Women empowerment Household food security by kitchen gardening pardening pardening and nutrition gardening and development for low/minimum cost diet Design and development for high nutrient efficiency diet Minimization of 2 0 22 22 0 23 23 0 45 45											
deficiency in crops											
Crops											
Nutrient Use   Efficiency   Soil and Water   1	deficiency in										
Efficiency	crops										
Soil and Water Testing IV Livestock Production and Management Dairy Management Poultry Management Pliggery Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Testing Management Disease Management Disease Management Disease Management Testing Management Disease Management Disease Management Disease Management Testing Management Disease Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Testing Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease Management Disease M	Nutrient Use										
Testing IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Disease 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 gerian 1 1 2 17 19 0 4 4 2 2 12 23 24 25 26 27 28 28 29 20 21 21 23 24 25 26 26 27 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Efficiency										
IV Livestock   Production and   Management   Dairy   Management   Poultry   Management   M	Soil and Water	1	10	0	10	8	0	8	18	0	18
IV Livestock   Production and   Management   Dairy   Management   Poultry   Management   M	Testing										
Management  Dairy Management Poultry Management Piggery Management Rabbit Management Disease Management Feed management Freduction 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 2 0 22 22 0 23 23 0 45 45	IV Livestock										
Management  Dairy Management Poultry Management Piggery Management Rabbit Management Disease Management Feed management Freduction 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 2 0 22 22 0 23 23 0 45 45	Production and										
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 2 0 22 22 0 23 23 0 45 45											
Management   Poultry   Management   Poultry   Management   Piggery   Management   Rabbit   Management   Piggery											
Poultry Management Management Piggery Management Rabbit Management Disease Management Production of quality animal products V Home Science/Women empowerment Household food security by kitchen gardening and nutrition gardening and nutrition gardening and nutrition gardening and development of low/minimum cost diet Designing and development for high nutrient efficiency diet Minimization of 2 0 22 22 0 23 23 0 45 45	Dairy										
Management Piggery         Management           Rabbit Management Disease Management Production of quality animal products V Home         Management Production of quality animal products           Science/Women empowerment         Movernment Production of quality animal products V Home           Science/Women empowerment         Movernment Production of quality animal products V Home           Design and development of low/minimum cost diet         0         0         0         0         22         22         0         22         22           Designing and development for high nutrient efficiency diet         1         1         1         2         17         19         0         4         4         2         21         23           Minimization of         2         0         22         22         0         45         45											
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 2 0 22 22 0 23 23 0 45 45											
Management Rabbit Management Disease Management Preduction 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 2 0 22 22 0 23 23 0 45 45	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 2 0 22 22 0 23 23 0 45 45	Piggery										
Management Disease Management Freed 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 2 0 22 22 0 23 23 0 45 45	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 2 0 22 22 0 23 23 0 45 45	Rabbit										
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 2 0 22 22 0 23 0 24 55	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 2 0 22 22 0 23 23 0 45 45	Disease										
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 2 0 22 22 0 23 23 0 45 45	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 2 0 22 22 0 23 0 45 45	Feed										
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 2 0 22 22 0 23 0 45 45	management										
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 2 0 22 22 0 23 23 0 45 45	Production of										
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 2 0 22 22 0 23 23 0 45 45	quality animal										
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  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  A Book Security by kitchen gardening and security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening a	V Home										
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  A Book Security by kitchen gardening and security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening and a security by kitchen gardening a	Science/Women										
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  2 0 22 22 0 23 23 0 45 45											
security by         kitchen gardening and nutrition gardening         0         0         0         0         22         22         0         22         22           Design and development of low/minimum cost diet         1         1         1         1         1         1         2         17         19         0         4         4         2         21         23           Designing and development for high nutrient efficiency diet         1         1         1         1         2         1         2         2         2         0         23         23         0         45         45	-										
kitchen gardening and nutrition gardening       0       0       0       0       22       22       0       22       22       22       22       22       22       22       22       22       22       22       22       22       22       22       22       22       22       22       22       22       22       22       23       23       23       23       23       23       23       23       23       23       23       23       24       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       25       2											
and nutrition gardening  Design and development of low/minimum cost diet  Designing and development for high nutrient efficiency diet  Minimization of  2 0 0 0 0 0 22 22 00 22 22 00 22 22 00 22 22											
gardening         Design and development of low/minimum cost diet         0         0         0         0         22         22         0         22         22         22           Designing and development for high nutrient efficiency diet         1         1         1         1         1         2         17         19         0         4         4         2         21         23           Minimization of         2         0         22         22         0         23         23         0         45         45											
Design and development of low/minimum cost diet  Designing and development for high nutrient efficiency diet  0 0 0 0 22 22 0 22 0 22 22 0 22 22 0 22 22											
development of low/minimum cost diet         1			1_	1_							
Iow/minimum cost diet			0	0	0	0	22	22	0	22	22
Designing and development for high nutrient efficiency diet   Designing and   2   17   19   0   4   4   2   21   23   23   23   0   45   45   45		1									
Designing and development for high nutrient efficiency diet    Designing and development for high nutrient efficiency diet   Designing and development for high nutrient efficiency diet   Designing and development for high nutrient   Designing and development   Designing and development   Designing and development   Designing and development											
development for high nutrient efficiency diet 1 0 22 22 0 23 0 45 45											
high nutrient         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         <			2	17	19	0	4	4	2	21	23
high nutrient         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         <	development for	1									
efficiency diet	high nutrient										
Minimization of 2 2 22 0 23 23 0 45 45	efficiency diet										
	Minimization of	2	0	22	22	0	23	23	0	45	45
	nutrient loss in										

				1	1	ı	1			
processing										
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques					4.0	_	4.0	10	_	
Value addition	1	0	0	0	13	5	18	13	5	18
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				1						
Protection										
Integrated Pest										
Management										
Integrated										
Disease										
Management										
Bio-control of										
pests and										
diseases										
Production of bio										
control agents										
and bio				1						
pesticides				1						
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					1					
fish and prawn							-	-		
Shrimp farming										
Edible oyster					1					
farming										
Pearl culture		1								
Fish processing		1			1					
and value					1					
addition										
IX Production of										
Inpute et cite										
Inputs at site										
Seed Production										
Planting material										
production										
Bio-agents										
production										
Bio-pesticides										
production										
Bio-fertilizer						+				
production										
Vermi-compost		13	0	13	11	0	11	24	0	24
production	1	10	١٠	'3	' '		' '	24		24
Organic manures		14	0	14	10	0	10	24	0	24
production	1	'-		' -	'0		'0	27		4
Production of fry		+			+		+	1		
					1					
and fingerlings Production of		+			+					
Bee-colonies and					1					
					1					
wax sheets		+			+		1	1		
Small tools and										
implements		+								
Production of					1					
livestock feed										
and fodder										
Production of					1					
Fish feed		1								
X Capacity					1					
Building and										
Group					1					
Dynamics										
Leadership										
development	<u> </u>						<u> </u>			
•		•		•	•	•				

Croup dynamics									1	
Group dynamics		17	26	F2	16	0	24	22	4.4	77
Formation and	_	17	36	53	16	8	24	33	44	77
Management of	3									
SHGs										
Mobilization of										
social capital										
Entrepreneurial		11	21	32	26	10	36	37	31	68
development of	3	1	- '	02		'	00	0,		
farmers/youths	3									
M/TO LIDD		4.5		45	_			40		40
WTO and IPR	1	15	0	15	3	0	3	18	0	18
issues	<u> </u>									
XI Agro-forestry										
Production		30	0	30	16	1	17	46	1	47
	1	30	١٠	30	10	'	17	40	'	7'
technologies					+				_	
Nursery	1	21	0	21	14	0	14	35	0	35
management	·									
Integrated	2	15	2	17	13	0	13	28	2	30
Farming Systems	2									
TOTAL	33	341	146	487	200	93	193	541	239	780
(B) RURAL										
YOUTH										
Mushroom										
Production										
Bee-keeping										
Integrated										
farming										
Seed production										
Production of										
organic inputs										
				+						
Integrated										
Farming										
Planting material										
production										
Vermi-culture										
Sericulture										
Protected										
cultivation of										
vegetable crops										
Commercial fruit										
production										
Repair and									1	
maintenance of									1	
farm machinery										
and implements										
Nursery					1				1	
Management of										
Horticulture crops									1	
					+		+		+	
Training and									1	
pruning of									1	
orchards									1	
Value addition									1	
Production of		1					1			
quality animal									1	
products									1	
Dairying					+				1	
		+			+	+		-	+	
Sheep and goat									1	
rearing									1	
Quail farming							1		1	

Diggony	Π	T	T	1			1			
Piggery  Pabbit forming		<u> </u>	<del> </del>							
Rabbit farming		<u> </u>	<u> </u>							
Poultry										
production		<u> </u>								
Ornamental										
fisheries		<u> </u>	<u> </u>							
Para vets										
Para extension										
workers										
Composite fish										
culture										
Freshwater										
prawn culture										
Shrimp farming										
Pearl culture										
Cold water										
fisheries										
Fish harvest and										
processing										
technology										
Fry and fingerling										
rearing										
Small scale			1							
processing										
Post Harvest		<u> </u>		1						
Technology										
Tailoring and										
Stitching										
Rural Crafts		<del> </del>								
			<del> </del>							
TOTAL		<u> </u>	<u> </u>							
(0) = .		<del> </del>	_							
(C) Extension										
Personnel			<u> </u>							
Productivity										
enhancement in										
field crops		<u> </u>								
Integrated Pest										
Management	1	100								
Integrated		15	0	15	0	0	0	15	0	15
Integrated Nutrient	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers organization	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers organization Information	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers organization Information networking	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers organization Information networking among farmers	1									
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building		21	0	21	0	0	0	21	0	21
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building for ICT	1									
Integrated Nutrient management Rejuvenation of old orchards Protected cultivation technology Formation and Management of SHGs Group Dynamics and farmers organization Information networking among farmers Capacity building										

TOTAL	2	36	0	36	0	0	0	36	0	36
through SHGs										
Gender mainstreaming										
inputs										
use of organic										
Production and										
diet designing										
nutrient efficient										
Low cost and										
care										
Women and Child										
security										
Household food										
production										
Livestock feed and fodder										
farm animals										
Management in										
issues										
WTO and IPR										
and implements										
farm machinery										
maintenance of										

# C) Consolidated table (ON and OFF Campus)

Thematic area	No. of				F	Participants	<u> </u>			
	courses		Others			SC/ST	•		Grand Tota	ıl
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers &										
Farm Women										
I Crop										
Production										
Weed										
Management										
Resource Conservation Technologies										
Cropping Systems	1	16	0	16	0	0	0	16	0	16
Crop										
Diversification			1	-				-		
Integrated Farming										
Water			1							
management										
Seed production										
Nursery										
management										
Integrated Crop Management	1	10	12	22	14	14	28	24	26	50
Fodder	1	4	0	4	6	5	11	10	5	15
production										
Production of										
organic inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	2	21	2	23	10	8	18	31	10	41
Off-season			1					<u> </u>		
vegetables										
Nursery raising	1	16	0	16	0	0	0	16	0	16
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and			1							
standardization										
Protective			1							
cultivation (Green Houses, Shade										
Net etc.)			1	ļ				1		
b) Fruits				10		_	40	40		05
Training and Pruning	1	8	4	12	8	5	13	16	9	25

							1	1	1	
Layout and	1	7	0	7	14	0	14	21	0	21
Management of										
Orchards										
Cultivation of	1	24	3	27	21	0	21	45	3	48
Fruit	ļ ·	- '			- '			.0		
Management of										
young										
plants/orchards										
Rejuvenation of										
old orchards										
Export potential										
fruits										
Micro irrigation	1	27	1	28	2	0	2	29	1	30
systems of			-		-				•	
orchards										
Plant propagation										
techniques										
c) Ornamental	1									
Plants	ļ					ļ				
Nursery	1									
Management	1									
Management of										
potted plants										
Export potential	2	36	2	38	20	0	20	56	2	58
of ornamental		30	~	30	20	0	20	30		30
plants		40		40	4-		4-	00		00
Propagation	1	19	0	19	17	0	17	36	0	36
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	1									
f) Spices			1	1	1	<u> </u>				
Production and	1	12	4	16	4	1	5	16	5	21
	'	12	4	10	4	'	5	10	3	41
Management	1									
technology	-									
Processing and	1									
value addition				1	1					
g) Medicinal and										
<b>Aromatic Plants</b>	1									
Nursery				1	1			İ		
management	1									
Production and	2	33	5	38	16	2	18	49	7	56
	~	33	3	30	10	~	10	43	<b>'</b>	30
management	1									
technology	1		1	-	-	1		<b> </b>	-	
Post harvest	1									
technology and	1									
value addition	<u> </u>			<u> </u>		<u> </u>	<u> </u>	<u>L</u>	1	

III 0 - 11 1 141	1	1	1		I		1		1	
III Soil Health										
and Fertility										
Management Soil fertility										
management Soil and Water										
Conservation										
	2	31	3	34	30	0	30	61	3	64
Integrated Nutrient		31	3	34	30	U	30	01	3	04
Management										
Production and	1	13	0	13	11	0	11	24	0	24
use of organic	1	13	0	13	11		11	24		24
inputs										
Management of										
Problematic soils										
Micro nutrient										
deficiency in										
crops										
Nutrient Use										
Efficiency										
Soil and Water	1	10	0	10	8	0	8	18	0	18
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		0	0	0	0	22	22	0	22	22
development of	1									
low/minimum cost	-									
diet			4-	4.5					0.4	00
Designing and		2	17	19	0	4	4	2	21	23
development for	1									
high nutrient										
efficiency diet										

Minimization of		0	22	22	0	23	23	0	45	45
nutrient loss in	2									
processing										
Gender		1	12	13	0	0	0	1	12	13
mainstreaming	1									
through SHGs										
Storage loss										
minimization										
techniques					4.0		4.0	10	+_	4.0
Value addition	1	0	0	0	13	5	18	13	5	18
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			_						1	
Small scale										
processing and										
value addition										
Post Harvest										
Technology										
VII Plant										
Protection					1					
Integrated Pest					1					
Management									<u> </u>	
Integrated					1					
Disease					1					
Management					1					
Bio-control of										
pests and					1					
diseases					1					
Production of bio					+				+	
control agents					1					
and bio										
pesticides VIII Fisheries									+	+
VIII FISHERIES									<u> </u>	
		•						•		

Integrated fish farming										
Carp breeding		+		+	1	1	<u> </u>			
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		+		1		-	-			
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		10	0	40	1.4		11	24	0	24
Vermi-compost	1	13	0	13	11	0	11	24	0	24
Production		14	0	14	10	0	10	24	0	24
Organic manures production	1	14	U	14	10	١	10	24	١	Z4
Production of fry		+		+						
and fingerlings										
Production of										
Bee-colonies and										
wax sheets										
Small tools and		1		1						
implements										
Production of										
livestock feed										
and fodder										
Production of										
Fish feed										
X Capacity										
Building and										
Group										
Dynamics										

development	Leadership		6	1	7	10	1	11	10	8	18
Group dynamics   1		1	0	l I	'	10	'	' '	10	°	10
Formation and Management of 3 SHGs		1	0	0	0	-	0	-	12	0	12
Management of SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS   SHGS		1									
Social capital   1	Management of	3	17	36	53	16	8	24	33	44	//
Entrepreneurial development of adversivouths   3		1	7	0	7	9	0	9	16	0	16
development of farmers/youths   1			11	21	32	26	10	36	37	31	68
WTO and IPR   1   15   0   15   3   0   3   18   0   18   issues   XI Agro-forestry	development of	3	' '	21	32	20		30			
Nursery	WTO and IPR	1	15	0	15	3	0	3	18	0	18
Production technologies											
Technologies   1	XI Agro-forestry										
Nursery		1	30	0	30	16	1	17	46	1	47
Integrated   2	Nursery	1	21	0	21	14	0	14	35	0	35
TOTAL   42   425   161   576   273   103   276   688   264   952	Integrated	2	15	2	17	13	0	13	28	2	30
Be-keping		40	405	404	F7C	272	402	270	600	20.4	050
YOUTH         Mushroom         1         0         6         6         0         14         14         14         6         20           Production         1         0         6         6         0         14         14         14         6         20           Bee-keeping Integrated farming         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		42	425	101	5/6	2/3	103	2/6	686	204	952
Mushroom											
Production   1			0	6	6	0	1.1	1.1	1.1	6	20
Bee-keeping   Integrated farming   Seed production   Seed production of organic inputs   Integrated Farming   Seed production of organic inputs   Integrated Farming   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed production   Seed		1	0	0	0	0	14	14	14	0	20
Integrated farming											
Farming											
Seed production   Production of organic inputs   Integrated   Farming   Planting material production of vermi-culture   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated   Integrated											
Production of organic inputs							_				
Organic inputs   Integrated   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farming   Farm											
Integrated   Farming											
Farming											
Planting material production											
Production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production Production  Production  I 1 7 0 17 4 0 4 21 0 21  I 2 0 21  I 3 0 21  I 4 0 0 4 21 0 21  I 5 0 0 19  I 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			_		-				4.5		4.5
Vermi-culture  Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production  In the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the p		1	6	0	6	9	0	9	15	0	15
Sericulture Protected cultivation of vegetable crops Commercial fruit production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Products Dairying							_				
Protected cultivation of vegetable crops  Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery 11 0 11 8 0 8 19 0 19  Management of Horticulture crops  Training and pruning of orchards  Value addition  Products  Dairying											
cultivation of vegetable crops  Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery Horizontal Training and pruning of orchards  Value addition  Production of quality animal products  Dairying											
vegetable crops  Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery  Management of Horticulture crops  Training and pruning of orchards  Value addition  Production  Dairying											
Commercial fruit production  Repair and maintenance of farm machinery and implements  Nursery  Management of Horticulture crops  Training and pruning of orchards  Value addition  Production of quality animal products  Dairying											
Production Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying			4-		47	-			0.4		0.4
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		1	17	0	17	4	0	4	21	0	21
maintenance of farm machinery and implements  Nursery Management of Horticulture crops  Training and pruning of orchards  Value addition  Production of quality animal products  Dairying	•										
farm machinery and implements  Nursery Nanagement of Horticulture crops  Training and pruning of orchards  Value addition  Production of quality animal products  Dairying											
And implements  Nursery  Management of Horticulture crops  Training and pruning of orchards  Value addition  Production of quality animal products  Dairying											
Nursery Management of Horticulture crops  Training and pruning of orchards  Value addition  Production of quality animal products  Dairying	and implements										
Management of Horticulture crops  Training and pruning of orchards  Value addition  Production of quality animal products  Dairying			11	0	11	Я	0	Я	19	0	19
Horticulture crops  Training and pruning of orchards  Value addition  Production of quality animal products  Dairying		1	' '		' '				'3		13
Training and pruning of orchards  Value addition  Production of quality animal products  Dairying											
pruning of orchards  Value addition  Production of quality animal products  Dairying									1		
Value addition Production of quality animal products Dairying											
Value addition Production of quality animal products Dairying											
Production of quality animal products  Dairying									1		
quality animal products  Dairying											
products Dairying											
Dairying											
						1					
	Sheep and goat						1				

rooring						1			1	
rearing										
Quail farming										
Piggery						-				
Rabbit farming										
Poultry										
production										
Ornamental										
fisheries										
Para vets										
Para extension										
workers										
Composite fish										
culture										
Freshwater										
prawn culture										
Shrimp farming										
Pearl culture										
Cold water										
fisheries										
Fish harvest and										
processing										
technology										
Fry and fingerling										
rearing										
Small scale	1	0	16	16	0	22	22	0	38	38
processing	Į.									
Post Harvest										
Technology										
Tailoring and										
Stitching										
Rural Crafts										
TOTAL	5	34	22	56	21	36	57	69	44	113
(C) Extension										
Personnel										
Productivity		10	0	10	0	0	0	10	0	10
enhancement in	1									
field crops										
Integrated Pest										
Management										
Integrated		24	0	24	0	0	0	24	0	24
Nutrient	2									
management										
Rejuvenation of										
old orchards										
Protected										
		10	0	10	0	0	0	10	0	10
	1									
organization						1				
Information										
networking										
among farmers										
Canacity building		21	0	21	0	0	0	21	0	21
Capacity building for ICT	1	21		21	"	0	0	<b>-</b> '		
cultivation technology Formation and Management of SHGs Group Dynamics and farmers	1	10	0	10	0	0	0	10	0	10

application										
Care and										
maintenance of										
farm machinery										
and implements										
WTO and IPR										
issues										
Management in										
farm animals										
Livestock feed										
and fodder										
production										
Household food										
security										
Women and Child										
care										
Low cost and										
nutrient efficient										
diet designing										
Production and										
use of organic										
inputs										
Gender										
mainstreaming										
through SHGs										
TOTAL	5	65	0	65	0	0	0	65	0	65

#### Note: Please furnish the details of above training programmes as **Annexure** in the proforma given below

Date	Clientel e	Title of the training programme	Discipline	Themati c area	Durati on in	Venue (Off /	No. o Partic				f SC S cipant		Total ı partici	no. of ipants	
					days	On Campu s)	М	F	Total	М	F	Total	M	F	Tota I
06.05.2011	Farmer	Cultivation of Jowar as fodder crop	Agro forestry	Fodder producti on	1	On Campus	4	0	4	6	5	11	10	5	15
24.05.2011	Farmer	Layout and planting of new orchard aftercare of young plants	Horticulture	Layout and manage ment of orchids	1	Off campus	7	0	7	14	0	14	21	0	21

#### Details given at annexure I

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

					No.	of Partici	pants	Self emp	loyed after	r training	Number of
Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duratio n (days)	Male	Femal e	Total	Type of units	Number of units	Number of persons employed	persons employed else where
Post harvest technology	23 to 25- 01- 2012	Fruit preservation.	Post harvest and value addition	3	0	38	38	-	-	-	
Mushroom cultivation	33,31 & 01- 01-2012	Mushroom cultivation:	Crop diversification	3	14	6	20				
Agroforestry	25-06-11 to 27-06-11	Propagation techniques of forest tree species	Nursery management	3	15	0	15				
Hoticulture	27-06-11 to 29-06-11	Raising of fruit plant nursery for self employment	Nursery management	3	19	0	19				
Horticulture	13-03-12 to 16-03-12	Commercial Horticulture: basic principles	Commercial horticulture	5	21	0	21				

#### (E) Sponsored Training Programmes

							N o.				No. o	f Parti	cipants	3			Spon sorin	Amount of fund
S.No	Date	Title	Discipline	Thematic area	Dur ati on	Clie nt (PF/	of c		Others			SC/S1	ſ		Total		g Agen cy	received (Rs.)
				area	(da ys)	RY/ EF)	ur se s	М	F	Tot al	M	F	Tot al		F	Tot al		
1.	31-05-2011	Scaling up of water productivity for enhancing livelihood	Watershed	Water conserv ation	5	PF	5	25	05	30	22	03	25	47	08	55	WM RC Chat ha	-
2.	09-06-11	Scaling up of water productivity for enhancing livelihood	Watershed	-do-	2	PF	2	20	10	30	10	10	20	30	20	50	-do-	
3.	17-12-11	Scaling up of water productivity for enhancing livelihood	watershed	-do-	2	PF	2	25	7	32	15	5	20	40	12	52	-do-	
4.	10-02-12	Scaling up of water productivity for enhancing livelihood	Watershed	-do-	1	PF	2	20	6	26	13	12	25	33	18	51	-do-	
5	2.08.2011`	Cultivation of wild rose for oil purpose	Floriculture	Rose oil	1	PF	3	20	8	28	10	0	10	30	8	38	Floric ultur e	
6	24-09-11	Kissan coference	Horticulture	Commer cial horticult ure	1	PF/ EF	1	80	40	12 0	60	20	80	140	60	200	Deptt . of hortic Udh.	
7.	22-02-12	Use of micro irrigation in horticulture.	Horticulture	Water manage ment	2	PF	4	25	3	28	25	4	29	50	7	57	SKU AST- K	
8.	13-03-12 to 16-03-12	Commercial horticulture	-do-	Commer cial horticult ure	5	PF	1 0	22	0	22	0	0	0	22	0	22	Dept of hortic ultur e	10,000
Total					19	-	2 9	237	79	31 8	15 5	54	209	392	133	525		

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

SI. No.	Noture of	Purpose/		Participants  lo. of Farmers (Others) SC/ST (Farmers) Extension Officials Grand Total											
	Nature of Extension	topic and Date	No. of activities	Far	mers (Oth	ers)	SC	/ST (Farm (II)	ers)	Exte	nsion Offi (III)	icials		Grand Total	al
	Activity			Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Field Day	Field day on wheat (28- 04-11)	1	28	0	28	27	0	27				55	0	55
2.	Field Day	Field day on maize (06-09-11)	1	25	5	30	26	0	26				51	5	56
3.	Field day	Field day sorghum (07- 09-11)	1	22	5	27	10	7	17				32	12	44
4.		Field day SPices (22- 09-11)	1	36	9	45	24	4	28				60	13	73
5.		Field day on Toria (26-11-11)	1	35	1	36	0	0	0	1	0	1	36	1	37
	Total	,	5												264
6.	Kisan Mela	21-01-2012	1	125	50	175	75	25	100	22	3	25	225	75	300
7.	Kisan Mela	19-20 march 2012	3	100	25	120	80	20	100	-	-	-	180	45	225
	Total		4	225	75	295	155	45	200	22	3	25	405	120	525
8.	Kisan Ghosthi														
9.	Exhibition		2												
10.	Film Show		2	-	-	-	-	-	-	-	-	-	-	-	200
11.	Method Demonstrations														
12.	Farmers Seminar	16-09-2011	1	35	0	35	25	0	25	7	0	7	67	0	67
13.	Workshop														
14.	Group meetings														
15.	Lectures delivered as resource persons		20												
16.	Newspaper														12

	coverage														
17.	Radio talks		2												
18.	TV talks -	•													
19.	Popular articles		1												
20.	Extension Literature		5												5
21.	Services r	oin each month													60
22.	Scientific visit to farmers field	Often													150
23.	KVK	Often													150
24.	Diagnostic visits														
25.		19-03-12 20-03-12	3	100	25	120	80	20	100	-	-	-	180	45	225
26.	Ex-trainees Sammelan														
27.	Soil health Camp		2												50
28.	Animal Health Camp														
29.	Agri mobile clinic														
30.	Soil test campaigns														
31.	Farm Science Club Conveners meet														
32.	Self Help Group Conveners meetings		5	15	40	65	20	20	40	-	-	-	35	60	95
33.	Mahila Mandals Conveners meetings		2	0	30	30	0	25	25	-	-	-	0	55	55
34.	Celebration of wimportant days (specify)	World environment day	1	15	5	20	10	5	15	-	-	-	25	10	35
	Grand Total														

# DETAILS OF TECHNOLOGY WEEK CELEBRATIONS during 2011-12 (March-2011)

No. of Technology week celebrated	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
1	Gosthies	2	40	Crop husbandry/ horticulture
	Lectures organised	2	40	-do-
	Exhibition	1	200	-do-
	Film show	2	100	Mushrooms/ vermicompost
	Fair	1	200	-
	Farm Visit	6	200	Crps/ horticulture
	Diagnostic Practicals	-	-	-
	Distribution of Literature (No.)	100	-	-
	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		200	

### 3.5 Production and supply of Technological products SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
OILSEEDS	Til	Punjab til-1	0.25	2500	100
	Toria	RSPT-1	0.40	1200	49
PULSES	Mash	Uttara	2.0	12000	50 farmers of Reasi and to 2 other districts
	Lentil	L-4147	1.70	10200	For FLD
	Arhar		1.0	10000	20 farmers
Cereals	Wheat	PBW-175	5.0	11000	FLD
		PBW 527	5.0	11000	FLD
PULSES			18q	15000	grain
VEGETABLES			•		
FLOWER CROPS					
OTHERS (Specify)					

#### **SUMMARY**

SI. No.	Major gr	oup/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	-	-	•	
2	OILSEEDS	0.65	0.65	3700	149
3	PULSES		4.70	32000	Pulse FLD in 4 districts.
4	Cereals		28.00	29000	FLd and sold to farmers.

#### PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
SPICES					
VEGETABLES					
FOREST OREGIES					
FOREST SPECIES					
ORNAMENTAL CROPS					
PLANTATION CROPS					
Others (specify)					
			-		

#### SUMMARY

SI. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS			
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES			
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS			
7	OTHERS			
	TOTAL			

#### **BIO PRODUCTS**

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

#### SUMMARY

SI. No. Product Name	Species	Quantity	Quantity		Value (Rs.)	Provided to No. of
31. NO.	Si. No. Product Name	Species	Nos	(kg)	value (NS.)	Farmers
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

#### LIVESTOCK

SI. No.	Туре	Type Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle	Buffalo*	Murrah*				
	Buffalo*					
SHEEP AND GOAT	Goat*	Osmanabadi*				
POULTRY	Hen*	Whiteleghorn*				
	Hen*	Giriraja*				
	Quails*					
FISHERIES						
Others (Specify)						

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

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.) - nil

#### (B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers	Study to access thawarenees of farmers about Farm T.V. programmes	Banarsi lal	-
	Impact of vocational trainings imparted by KVK.	Banarsi lal, vikas Tandon	Accepted
	A study on media preferences of dairy farmers of hilly areas.	Banarsi lal, vikas Tandon , r. P. sahu	Accepted
Total	3		
Technical reports	Monthy and quarterly reports	Banarsi lal, lalit Upadhyay and vikas Tandon	
	ISOPM reports	-do-	
Popular articles	Electronic media in agricultural development	Dr. Banarsi lal , Dr. vikas Tandon	Local daily paper
Leaflets/folders	Self help groups: innovations for income and employment	Banarsi lal, vikas tandon et. al.	
	Parthenium management :A chalange	-do-	
	Agriculture technology Management agency: an Innovative idea of technology dissemination	Banarsi lal, Vikas Tandon	
	Bamboo: asourc of income and employment	Banarsi lal, Vikas Tandon	
Total	4		
GrandTOTAL	26		

#### (C) Details of Electronic Media Produced

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

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

#### Mushroom Cultivation: A Commercial Venture for the Farmers of Hilly Areas

Reasi is the hilly district of Jammu and Kashmir. Most of the farmers of this district are small and marginal and crops are mostly cultivated under rain fed 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 of modern technologies is very less resulting low production and low socio-economic status of the farmers. There are severe insect-pests and disease problems and also the boars and monkeys menace add up the problem of this particular district.

Sh. Romesh Kumar is a progressive farmer of village Gharn (Aghar Jitto) which is 10 km away from famous religious place Katra in Reasi district of Jammu and Kashmir. His family comprises his wife and two children. He is having 5 acres of land. He was growing maize, wheat and few local varieties of vegetables. He was using the traditional technologies in his fields and monkeys and boars were the great problems in his fields. All the agricultural produce was consumed by his family with very little surplus to sell. His farming system was collapsing and he was unable to mitigate the basic needs of his family.



Sh. Romesh Kumar in his mushroom unit

#### Sh. Romesh Kumar Effort and KVK interventions

In 2007-08 he initiated the mushroom cultivation. He used local resources and started a small unit for mushroom growing. He was using the poultry manure from his own poultry farm .Initially, he got mediocre results and also faced some failures. He was lacking the scientific knowledge of mushroom cultivation. Then for scientific cultivation he approached the KVK scientists. KVK scientists started constantly visiting his farm and they scientifically guided him and motivated him to grow it round the year. He made 500 sq. feet of shed and now he grows 400 trays. He has also developed a marketing channel to sell his produce. Mushroom cultivation has changed his life. There is a great demand of mushroom in Jammu region. This year, he has earned Rs.2.50 lakhs by selling about 25qt of white button mushrooms. He has

also started growing dhingri and raised some 400 polybags. The crop was satisfactory and till date he has earned Rs.15,000 from dhingri cultivation. Now he was feeling more confident as his income increased. He has become the motivating factor for other farmers in his area. KVK scientists motivated other farmers also to cultivate mushroom as it can change their socioeconomic status.

KVK in the form of farmers trainings, vocational trainings, front line demonstrations, farmer-scientists interaction, farmers exposure visit, dissemination of production technologies through radio, TV, literature has led to increase in mushroom and dhingri cultivation. Slowly but surely many more farmers of the area are becoming interested in this viable and sealable agro-enterprise.



Sh. Romesh Kumar in his dhingri unit

#### Honours to Sh. Romesh Kumar

Sh. Romesh Kumar success in mushroom cultivation is inspiring the other farmers of his area in shifting the villagers to mushroom and dhingri cultivation for better economic returns. Sh.Romesh Kumar has received the award from Agriculture Minister of State Sh. Gulam Hasan Mir as mushroom entrepreneur in a farmer fair organised by department of agriculture. He was felicitated by the Governor of State Sh. N.N. Vohra in a farmer fair organised by the Sher-e-Kashmir University of Agricultural Sciences and Technology, Jammu as a mushroom entrepreneur. He is having good rapport with the KVK scientists and always participates in the training programmes and farmers fairs conducted by the Krishi Vigyan Kendra.

#### **Summary**

Efforts of the Krishi Vigyan Kendra scientists and Sh.Romesh Kumar have given new shape to the mushroom growing venture. The quantity and quality of mushroom has increased by their efforts. Their efforts are attracting the other farmers of this area also towards mushroom cultivation.

## 3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year

KVK Reasi is a distantly located KVK and its location often causes hindrance in people approaching the KVK. Still we are trying our level best to reach to farthest of people. KVK makes best use of panchayati raj system and personnel contacts to spread our schedules of programmes

. The village sarpanch and lambardars and chowkidars are used for giving message for training programmes to the villagers. KVK reasi is also encouraging young school children attracting them to farming. A large numbers of Field days, awareness camps and ghoshthies are held to popularize new technologies. KVK lays out Front line demonstrations at prominent places to generate interest of farmers in new seed. KVK takes part in all line department programmes to have maximum reach towards the farmers

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Cocoon production.	Local Khaddis are utilized for silk preparation. Instead of single crop now growers are taking two crops in a year.	Low cost technology
2.	Bamboo and its products.	Tokris/ furniture items and toys are prepared from bamboo.	Low cost technology
3.	Kas cultivation.	Formation of ropes and tying materials.	Low cost technology
4.	Tikki masala preparation	Local groups especially women make this spice masala which is used in chaats and tiki shops at tourist places.	Low cost technology.

#### 3.10 Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women consultations in SAC with various line departments, public meetings and any requests received from farmer reporesentatives/ groups.
- Rural Youth -- special interest of Rural Youths the trainings are kept in accordance to suitability of area and interest of this young group. The economical returns are also kept in mind before formulating any course.
- Inservice personnel as per suggestios in SAC meeting as well as calendar received from Chief Agriculture/ horticulture officer.

#### 3.11 Field activities

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

#### 8.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Not established

1. Year of establishment :

2. List of equipments purchased with amount :

SI. No	Name of the Equipment	Qty.	Cost
1			
2			
3			
Total			

#### 3. Details of samples analyzed so far

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	100	100	25	-
Water Samples				
Plant Samples				
Petiole Samples				
Total	100	100	25	

#### 4.0 IMPACT

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

Name of specific	No. of	% of adoption	Change in incom	ne (Rs.)
technology/skill transferred	participants		Before (Rs./Unit)	After (Rs./Unit)
1. Use of hybrid seeds in maize.	50	40	-	-
2. Promotion of mustard and Gobi sarson in the district.	50	10	-	-
3. Promotion of fodder crops in the district.	50	30	-	-
4. Use of weedicide in maize crop.	100	25	-	-
5. Use of weedicide in wheat.	50	30	-	-
6. Control of mustard aphid.	50	25	-	-
7. Management of cutworm and termite in cereals.	50	25	-	-
8. Management of yellow rust in wheat.	100	20	-	-
9. Use of chemicals in vegetables.	100	20	-	-
10. Cultivation of mushrooms in Reasi.	150	5	-	-

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

#### 1. ADOPTION OF SINGLE CROSS MAIZE HYBRIDS:

KVK Reasi since last three years is laying out front line demonstrations in big way to promote the hybrid maize in the district. We have laid out more than 50 ha in demonstrations since 2008. People of the area had no information of hybrid maize and were growing the old local varieties which were yielding even less than half in most of the cases. KVK imparted regular trainings to the farmers and took their demonstrations in far furlong areas and peoples were made to believe that their production is bound to increase by adopting cultural practices with hybrid maize. People of the area were also made aware through various campaigns about the potential of hybrid maize. Now the people of the area themselves ask for the hybrid maize even if they are made to pay Rs 50 for one kg of hybrid seed. The grain also fetches good price as it is in high demand with the poultry farm people. Thus the farmers are no more hesitant to grow yellow hybrids for which they used to show the reluctance.

Farmers were earlier reluctant to use this costly input which was required every year and also the preference is towards white maize. KVK Reasi also introduced high quality protein maize which is nutritionally important for people of hilly area. This year alone more than 500 quintals of maize hybrid seed was lifted from department of agriculture, Reasi and figures are no less in district Udhampur as well. Thus we can say that hybrid maize is now the culture of these maize growing districts.

#### 2, Development of floriculture.

Since the year 2008, KVK Reasi has been keenly working towards the development of floriculture in the district. Our active efforts are now showing results and farmers of the district are cultivating marigold in their fields which finds ready acceptability in the local markets due to many holy shrines in the district as well as in Jammu. This district is surely getting ahead to become the leader in floriculture. KVK along with the department of floriculture is working in developing this enterprise. KVK is formulating farmers group for the development of marigold cultivation in Katra as well as in Shiv khori. We have laid out OFT's on marigold and also laid out front line demonstrations on farmers field so as to encourage them into this enterprise. Marigold cultivation alongside maize as mixed crop is catching farmer's fancy. After harvesting maize the farmer can very easily sell their merigolds which were planted in between the maize plants. Average yield of marigold (pure crop) gives about Rs 1, 00,000 per ha and especially those farmers who have approach to some irrigation are slowly but surely moving into this enterprise. KVK is also looking to extend the season of cultivation so as to get more than one crop. There is ample demand of flowers and our farmers are already earning Rs 50,000 to 60,000 per season from marigold. Efforts of KVK Reasi as well as line department has resulted in increasing the area under marigold to 25 ha in 2011-12.

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

#### 5.0 LINKAGES

#### 5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	Joint diagnostic survey, field days/
	awareness camps/ kisan melas/ ATMA/
	RKVY etc.
2.Department of Horticulture	Joint diagnostic survey/ caimpagns/
	kisan mela /ATMA/RKVY
3. Department of animal husbandry.	Participation in meeting / sadbhavna
	camps/ backyard poultry
4. Department of fisheries.	participation in meeting / technology
	week /
5. NABARD	Participation in meeting / farmers clubs
6. District cooperative societies.	Participation in meeting / supply of
	inputs.
7. Department of Forests	Participation in meeting / Sac members /
Marketing development board	Participation in meeting
O CIVILACT In many	All a Classes to be Consequented to the town I
9. SKUAST-Jammu.	All guidance / planting materials/ seed
10. lead banks	SAC mambar
TO. IEAU DATIKS	SAC member
11.Rural self employment training institute	Trainings to the farmers.
Threatar son omployment training institute	Trainings to the familiers.

## 5.2 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.)
ATMA camp		Department of agriculture	-
HTMM1	March 2012	Dept. of horticulture, Udhampur	15000
Floriculture		Deptt. of floriculture, Jammu	-
Plasticulture scheme Leh	Jan-2012	RHRSS, Leh	-
Scaling up of water productivity for improved livelihood.	May-dec,2012	WMRC Chatha	-
Division of agro forestry		Agroforestry Chatha	-
Division of pomology		Chatha	-

#### 5.3 Details of linkage with ATMA

#### a) Is ATMA implemented in your district

Yes

S. No.	Programme	Nature of linkage	Remarks
1	ATMA	Training to farmers and extension officers.	KVK has been allotted Rs 50,000 for laying out the On farm Trials. KVK laid out five oft in the districts.
2	RKVY	Training programmes organized by line departments.	Providing all technical support to the line departments.

#### 5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	Exposure visits of farmers to KVK.	-do-	
2.	One week training programme on commercial horticulture	Residential training to 22 farmers from Udhampur, sponsored by department of horticulture, Udhampur.	

5.5 Nature of linkage with National Fisheries Development Board nil

S. No.	Programme	Nature of linkage	Remarks

#### 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

#### 6.1 Performance of demonstration units (other than instructional farm)

				Details of	of production	n	Amour	nt (Rs.)	
SI. No.	Demo Unit	Year of estt.	Area	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks
1.	Cow shed	2008	115 m ²	-	-	-	-	-	It is not functioning due to lack of animal scientist. But is being used for mushroom demonstration.

#### 6.2 Performance of instructional farm (Crops) including seed production

Name	Date of sowing	Date of	ea a)	Detai	ls of production		Amou	nt (Rs.)	
Of the crop	3	harvest	Area (ha)	Variety	Type of Produce	Qty/qntl	Cost of inputs	Gross income	Remarks
Cereals									
Wheat	Nov 10	April 11	3	PBW 175, PBW 396	Seed, Straw	28	35000	55000	
Maize	June11	October11	2	Shaktiman, Bioseed	Grain, Straw	30	17000	29700	
Pulses		1							
Black gram(Mash)	July11	Nov.11	0.5	Uttara	Seed	2.75	8000	16000	
Lantil	Oct.10	April11	0.25	L4147	Seed	0.35	1800	2030	
Oilseeds									
Mustard	Nov.10	April11	0.5	RSPR01	Green	1.10	2000	2420	
Til	Jun.11	Oct.11	0.5	Punjab Til1	Green	1.28	5500	8192	
Fibers									
Fodder									
Sorghum	Jun.11	Aug/Sept	1	SSG1	Fodder	-	5000	7500	
Spices & Planta	tion crops	1		1		<del> </del>	1	1	1
Floriculture									
Fruits									
Vegetables									
Others (specify)									

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

SI.	Name of the		Amou	nt (Rs.)	
No.	Product	Qty	Cost of inputs	Gross income	Remarks

#### 6.4 Performance of instructional farm (livestock and fisheries production)

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

#### 6.5 Rainwater Harvesting

#### Training programmes conducted using Rainwater Harvesting Demonstration Unit

Date	Title of the training	Client	No. of		of Partici luding S	•	No. of	SC/ST Part	icipants
Date	course	(PF/RY/EF )	Courses	Male	Femal e	Total	Male	Female	Total

#### **Demonstrations conducted using Rainwater Harvesting Demonstration Unit**

Date	Title of the	Client	Client No. of		of Partici	•	No. of	SC/ST Part	icipants
Date	Demonstration	(PF/RY/EF )	Demos.	Male	Femal e	Total	Male	Female	Total

#### Seed produced using Rainwater Harvesting Demonstration Unit

Name of the crop	Quantity of seed produced (q)

#### Plant materials produced using Rainwater Harvesting Demonstration Unit

Name of the crop	Number of plant materials produced

Other activities organized using Rainwater Harvesting Demonstration Unitctivity	No. of visitors
Visit of farmers	
Visit of officials	

#### 6.5 Utilization of hostel facilities

Accommodation available (No. of beds): 20

Months	Title of the training course/Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2011				
Total				
May 2011				
Total				
June 2011				
Total				
July 2011				
Total				
August 2011				
Total				
September 2011				
Total				
October 2011				
Total				
November 2011				
Total				
December 2011				
Total				
January 2012				
Total				
February 2012				
Total				
March 2012	Training on horticulture	22	110	
Total		22	110	
Grand total		22	110	

5 X 25= 125 (Duration of the training course X No. of trainees)

#### 7. FINANCIAL PERFORMANCE

#### 7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	J&K Bank	Chatha	
With KVK	J&K bank	Reasi	18557

#### 7.2 Utilization of funds under FLD on Oilseed (Rs. In Lakhs)

	Release	d by ICAR	Expe	nditure	
Item	Kharif 2011	Rabi 2011-12	Kharif 2011	Rabi 2011-12	Unspent balance as on 1 st April 2012
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of funds under FLD on Pulses (Rs. In Lakhs)

	Release	d by ICAR	Exper	Unspent	
Item	Kharif 2011	Rabi 2011-12	Kharif 2011	Rabi 2011-12	balance as on 1 st April 2012
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

#### 7.4 Utilization of funds under FLD on Cotton (Rs. In Lakhs)

	Released by ICAR	Expenditure	Unspent
ltem	Kharif 2011	Kharif 2011	balance as on 1 st April 2012
Inputo	2011	2011	1 7(5)11 2012
Inputs			
Extension activities			
TA/DA/POL etc.			
TOTAL			

#### 7.5 Utilization of KVK funds during the year 2011-12 (up to March 2012)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	curring Contingencies	<b>!</b>	4	1
1	Pay & Allowances	44.55	44.55	44.54
2	Traveling allowances	0.60	0.60	0.59
3	Contingencies			
Α	Stationery, telephone, postage and other expenditure			
	on office running, publication of Newsletter and library			
	maintenance (Purchase of News Paper & Magazines)	1.64	1.64	1.61
В	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto			
	Rs.40/day/trainee be maintained)	2.46	2.46	2.40
D	Training material (posters, charts, demonstration			
	material including chemicals etc. required for			
	conducting the training)			
Ε	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 H	Training of extension functionaries			
	Maintenance of buildings			
- 1	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)			
	n-Recurring Contingencies	T		
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)	0.10	0.10	0.10
	TOTAL (B)			
C. RE	VOLVING FUND			
	GRAND TOTAL (A+B+C)	49.35	49.35	49.24

#### 7.5 Status of revolving fund (Rs. in lakhs) for the three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2008 to March 2009				
April 2009 to March 2010	-	136675.47		136675.47
April 2010 to March 2011	136675.47	230384	64977	302082.47
April 2011 to March 2012	302082.47	151837	32558	421361.47

#### 8.0 Please include information which has not been reflected above (write in detail).

#### 8.1 Constraints

- (a) Administrative: The vacant posts of subject matter specialists must be filled on priority. KVK staff should also be engaged in research activities of the University for their skill up gradation as well as knowledge improvement.
- (b) Financial: There should be provision for impressed money with the KVK for smooth operations as KVK activities are time bound and have to be carried out well in time.
- (c) Technical: There should be regular trainings for KVK staff as well and KVK scientists should have close liaison with the faculty scientists. KVK should be free to purchase the inputs / technologies available in the private sector.

# ANNEXURES (I-IV)

#### **Annexure I: LIST OF TRAINING PROGRAMMES 2011-12.** Date Clientel Title of the training No. of other No. of SC ST Total no. of Discipline **Themati** Durati Venue (Off / **Participants** е programme c area on in **Participants** participants days On F Total Μ Total F Tota Campu s) 06.05.2011 15 Farmer Cultivation of Jowar as Agro Fodder On 4 0 4 6 5 11 10 5 Campus fodder crop forestry producti on 24.05.2011 Layout and planting of Off 7 21 Farmer Horticulture Layout 1 0 14 0 14 21 0 new orchard aftercare and campus of young plants manage ment of orchids 31.05.2011 Formation and Ext. Formati Off 16 1 17 16 2 18 32 3 35 Farmer management of SHG Education on and campus manage ment of SHG 01.06.2011 27 Off 24 3 3 48 Farmer Role of micronutrients Hort. 21 0 21 45 in fruit culture campus Scientific Cultivation of 02.06.2011 Farmer Hort. Off 12 4 21 4 1 5 16 5 21 Turmeric & ginger campus 03.06.2011 Role of front line Ext. Edu. Leaders On 6 7 10 11 16 2 18 Farmer demo. In rural hip campus development develop ment 06.06.2011 F.W H.S Off 0 0 13 13 5 18 Post harvest care and 5 18 management of crops campus Integrated nutrient 7 0 7 9 9 0 16 8.6.2011 Farmer Hort. Off 0 16 management in campus horticulture crops 10.6.2011 Role of medicinal and Hort. Off 21 3 24 13 2 15 34 5 39 Farmer aromatic plants campus 13.06.2011 Natural resource 10 2 3 15 Farmer Agro. Off 12 0 3 13 2 management for Campus

Off

campus

0

0

0

0

22

22

0

22

22

sustainable dev.

Planting and prep. Of

nutritionally rich diet

H.S

14.06.2011

F.W

		for infants and preschoolers													
12.07.2011	Farmer	Soil testing techniques & importance	S.S		1	Off campus	10	0	10	8	0	8	18	0	18
18.07.2011	M & F.M	Viable income generating units for rural farm women & adol. School dropouts & org. of SHGS & their consolidation.	H.S		1	On campus	1	12	13	0	0	0	1	12	13
02.08.2011	Farmer	Cut flower production for improving Hort. Rural economy			1	On Campus	19	0	19	17	0	17	36	0	36
08.08.2011	Farmer	Awareness programme on maize crop	Ext. Edu.	Integrat ed crop manage ment	1	Off Campus	10	12	22	14	14	28	24	26	50
08.09.2011	Farmer	FLDS on rural dev.	Ext. Edu.	Leaders hip develop ment	1	On Campus	8	0	8	5	0	5	13	0	13
14.09.2011	Farmer	Use of organic manures & fertilizers	S.S		1	Off Campus	14	0	14	10	0	10	24	0	24
22.09.2011	Farmer	Video show for the farmers on vermicomposing	S.S		1	On Campus	13	0	13	11	0	11	24	0	24
27.09.2011	Farmer	Cut flower production for improving the rural economy	Hort.		1	Off Campus	17	2	19	3	0	3	22	0	22
13.10.2011	Farmer	Production tec. On maize	Agronomy		1	Off Campus	16	0	16	0	0	0	16	0	16
13.10.2011	Farmer	Imp. Fodder crops of Kandi areas	Agroforestr v		1	Off Campus	15	0	15	4	0	4	19	0	19
21.10.2011	Farmer	Nursery raising tech. in veg. crops	Hort.		1	Off Campus	16	0	16	0	0	0	16	0	16
22.10.2011	Farmer	Imp. Medicinal tree sp.	Agroforestr y		1	Off Campus	11	2	13	3	0	3	14	2	16
23.10.2011	Farmer	Training Prog. On various agril. Schemes & prog. For rural upliftment	Ext. Edu.	Mobiliza tion of social capital	1	On Campus	7	0	7	9	0	9	16	0	16

31.10.2011	F.W	Training prog. On processing of milk	H.S		1	Off Campus	0	0	0	0	18	18	0	18	18
11.11.2011	F.W	Self help group formation and management	Ext. Edu	Formati on and manage ment of SHG	1	Off Campus	12	1	13	0	3	3	1	15	16
14.12.2011	F.W	Prevention and processing of H.S fruits & vegetables			1	Off Campus	0	22	22	0	5	5	0	27	27
15.12.2011	F.W	Formation and management of SHGS	Ext. Edu.	Formati on and manage ment of SHG	1	Off Campus	0	23	23	0	3	3	0	26	26
22.12.2011	Farmer	Agroforestry techniques for maximizing prod.	Agroforestr y		1	Off Campus	12	0	12	9	1	10	21	1	22
23.12.2011	W. Farmer	Planning and prep. Of iron rich H.S diet	H.S		1	Off Campus	2	17	19	0	4	4	2	21	23
5.12.2011	Farmer	Minor forest products for livelihood gen.	Agroforestr y		1	Off Campus	18	0	18	7	0	7	25	0	25
05.01.2012	Farmer	Training and pruning of fruit crops	Hort.		1	Off Campus	8	4	12	8	5	13	16	9	25
03.02.2012	M&F	Entrepreneurial opportunities in organic forming	Ext. Edu.	Entrepre neurial develop ment of farmers	1	Off Campus	4	0	4	12	2	14	16	2	18
15.02.2012	Farmer	Role of information and comm tech. in rural development	Ext. Edu.		1	Off Campus	15	0	15	3	0	3	18	0	18
17.02.2012	Farmer	Imp. Fodder tree of kandi areas	Agroforestr y		1	Off Campus	21	0	21	14	0	14	35	0	35
22.02.2012	Farmer	Micro irrigation in hort. Crops	Hort.		1	Off Campus	27	1	28	2	0	2	29	1	30
23.02.2012	Farmer	Micro irrigation in hort. Crops	Hort.		1	On Campus	8	2	10	9	4	13	17	6	23
06.03.2012	Farmer	Training prog. On mushroom growing	Plant protection		1	Off Campus	13	2	15	4	8	12	17	10	27
09.03.2012	Farmer	Entrepreneurial	Ext. Edu.	Entrepre	1	Off	2	21	23	2	8	10	4	29	33

		opportunities in agri.		neurial develop ment of farmers		Campus									
17.03.2012	F	Renewable energy resources for protection of forests	Agroforestr y		1	Off Campus	5	0	5	10	0	10	15	0	15
18.03.2012	F	Awareness prog. On veg. crop	Ext. Edu.	Entrepre neurial develop ment of farmers	1	On Campus	8	0	8	6	0	6	14	0	14
27.03.2012	F	Entrepreneurial opportunities in veg. growing	Ext. Edu	Entrepre neurial develop ment of farmers	1	Off Campus	5	0	5	12	0	12	17	0	17

#### Annexure II

#### **District Profile - I**

#### 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 gool gulabgarh.

#### 2. Agricultural and allied census

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.

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.

#### 3. Agro-climatic zones:

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 loamand clay loam in some pockets with normal OM. Most of the area is rainfed with very little irrigation. 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 is diverse and is completely rain fed. The area has low productivity and low input usage.
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 summer months. 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.
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.

**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

4.

- 5. Major and micro-farming systems include 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
- 6. Major production systems includes wheat based and maize based farming systems. However, in very few pockets rice based system is also followed.
- 7. Major agriculture and allied enterprises in 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.
- 2. Survey methods used (survey by questionnaire, PRA, RRA, etc.)
- 3. Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc.
- 4. Analysis and conclusions
- 5. List of location specific problems and brief description of frequency and extent/ intensity/severity of each problem
- 6. Matrix ranking of problems
- 7. List of location specific thrust areas
- 8. List of location specific technology needs for OFT and FLD
- 9. Matrix ranking of technologies
- 10. List of location specific training needs

#### **Annexure III**

#### **Technology Inventory and Activity Chart - III**

#### Include

- 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
- a. Sher e Kashmir University of agricultural sciences and technology of Jammu.
- b. Regional research laboratory jammu.
- c. Central institute of temperate horticulture, (CITH) Srinagar.
- d. Pulses research station samba.
- e. regional research station and KVK gurdaspur.
- f. CSk, HPKVV, Palampur.
- g. PAU, ludhiana.
  - 2. Inventory of latest technology available

SI.	Technology	Crop/enterpris	Year of release	Source of	Reference/citati
No		е	or	technology	on
			recommendati		
			on of		
			technology		

3.

#### 4. Activity Chart

Crop/Animal /Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
				1.	1.

## 2. 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
- c. Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for FLD and OFT

#### **Annexure IV**

#### Proceedings of the 4th scientific advisory committee meeting of KVK Reasi held on 03-11-2010.

The 4th scientific advisory committee (SAC) meeting of Krishi Vigyan Kendra, Udhampur (Reasi) was held in the conference hall of District Development commissioner, Reasi on 03-11-2011 at 11.00 A.M. Dr. K. S. Risam, Director Extension Education, SKUAST-J chaired the meeting. Members of the advisory committee including District Officers from various line departments of Agriculture, Horticulture, Forest, Soil conservation, Social forestry, Animal husbandry, Social welfare etc. and progressive farmers attended the meeting (List of participants enclosed).

Dr. Vikas Tandon Programme Coordinator, KVK, Reasi welcomed the chairman and the worthy members of scientific advisory committee to the 4th SAC meeting of the Kendra. Programme coordinator appraised the house that during the last three years this KVK has become fully functional KVK of Jammu division. He requested the members to provide their valuable suggestions for the current Rabi season for improving the production and productivity of the district. He also requested the Line departments to utilise the facilities developed at KVK by sending their field functionaries and progressive farmers to this KVK.

#### Agenda 1. Confirmation of the Proceedings

The proceedings of second Scientific Advisory Committee meeting were circulated to the worthy members vide letter no AUJ/PC/KVK/Udh/10-11/F-21/420-35 Dated 31-10-2011. The proceedings were unanimously confirmed by the house.

#### Agenda 2. Action Taken Report

ጼ

#### **Agenda 3.Presentation of Annual Progress Report**

Programme Coordinator, KVK, Reasi presented the report about action taken on the issues raised in the previous SAC meeting held on 06-12-2010. He also presented the annual progress report of KrishiVigyan Kendra for the year 2010-11 (up to October, 2011).

He appraised the house about the various activities undertaken by the KVK in two districts of Udhampur and Reasi. During this period, KVK imparted 40 trainings to the farmers of district Udhampur and Reasi in various disciplines of agriculture, wherein a total of 840 farmers including those from SC/ST communities as well as farm women were trained in latest technologies available in the field of agriculture. He also informed about organizing four vocational training programmes on different aspects by the KVK. That included horticulture, Mushroom cultivation and agroforestry.

KVK organized five in-service training programmes to refresh the knowledge of extension officers. KrishiVigyan Kendra, Reasi/Udhampur. Programme coordinator also appraised the hose about the on farm trials completed and being implemented during the current season.

During *Rabi* 2010 and *kharif* 2011, Krishi Vigyan Kendra laid out front line demonstrations on wheat, Sarson, chickpea, maize, fodder crops and more prominently on spices, vegetables and backyard poultry.

KVK is regularly conducting diagnostic visits and provided on spot guidance to the farmers by visiting their fields. Many farmers visited the KVK during the year in order to have suggestions on agricultural issues and for attaining solution of their farm related problem. 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 other awareness programmes and field days etc. celebrated by the line departments. This year Krishi Vigyan Kendra participated in all block level ATMA fairs and increased their reach to all the four blocks of Reasi. KVK also organised exposure visits for the farmers to Jammu and SKUAST-J.

After the presentation, Director, Extension Education invited the suggestions/queries from the house and following suggestions were made:

- 1. Director Extension Education instructed that KVK should lay out its demonstrations in other villages known for vegetable cultivation and not only at Bhabber. (Action: KVK, Reasi)
- 2. Director Extension Education also suggested that no of mushroom units in the district should increase and KVK should put in all efforts to increase mushroom cultivation in the district.

(Action: KVK. Reasi)

Director Extension Education also instructed that KVK should also encourage beekeeping and should have 3-4 colonies at our KVK farm. CAO Reasi assured of providing beehives to the KVK in April.

(Action: KVK, Reasi)

4. Programme coordinator requested the Director for providing experts in Agronomy, Plant protection and animal science. DEE suggested that KVK's will either get Soil scientist or agronomist.

(Action: DEE, SKUAST-J)

5. Director Extension Education instructed to lay out FLD/OFT with improved Ginger variety this year as new variety could not be arranged during the current season and advised PC to be prepared for next season.

(Action: KVK, Reasi)

- 6. District Sericulture Officer suggested carrying out the training programme on medicinal plants and sericulture and nursery raising techniques. (Action:KVK,Reasi/CAO/CHO)
- 7. Chief Horticulture officer, Reasi suggested identifying suitable varieties for the district and trying to lay out FLD on some fruit crops. (Action: KVK, Reasi)
- 8. SMS horticulture suggested that bud wood can be collected and in situ grafting of some plants can be undertaken for quick results. (Action: KVK, Reasi)
- Director Extension Education also instructed to lay out few demonstrations/ OFT's on temperate horticulture this year (Action: KVK, Reasi)
- 10. DEE also advised to provide demonstrations on mushroom growers for spreading of this venture.

(Action: KVK, Reasi)

- 11. Director Extension Education instructed to conduct training programme on horticulture at Goldhi (Udhampur). (Action: KVK, Reasi)
- 12. Chief Horticulture officer Reasi suggested conducting short term courses on horticulture at district level. CHO Udhampur also suggested that training programmes of KVK and Department could be held jointly at KVK and expenses could be paid to the KVK..

(Action: KVK, Reasi)

- 13. Progressive farm women requested to provide specialised trainings to their women group. (bag stiching etc.)

  (Action: KVK, Reasi)
- 14. Director Extension Education instructed the KVK to go for seed production at their farm.

(Action: KVK, Reasi)

- 15. Director Extension Education advised to conduct in service training programmes at KVK itself and CAO agreed to send their functionaries to the KVK. (Action:KVK,Reasi)
- 16. Director Extension Education instructed for videography and action photographs for the programmes conducted by KVK. (Action:KVK,Reasi)
- 17. DEE also announced that resource persons can be sent from Jammu for conducting specialised programmes for which experts are not available at KVK and also experts fron Line departments can be utilised for such programmes.

  (Action: KVK, / CAHO/ CHO, Reasi)
- 18. Director Extension Education advised to give trainings to self help groups at Malad and for forming farmer clubs at Reasi. (Action: KVK, Reasi)
- 19. Chief agriculture officer suggested that soil samples can be analysed for major nutrients at their lab.

  (Action: KVK, CAO Reasi)
- 20. CAO also suggested that winter maize can be successful in some areas and DEE advised the district coordinators to seek CAO's help for winter maize demonstrations.

(Action : KVK, Reasi)

21. Director also advised to involve sarpanches and public representatives in KVK's programmes.

(Action:KVK,Reasi)

#### AGENDA: 3 Presentation of proposed action plan

After these discussions Dr. Vikas Tandon Programme Co-ordinator presented the proposed action plan for the year 2011-12 (Rabi). Director Extension Education suggested that since the programme is already approved KVK should go ahead with it. He however suggested to lay demonstrations on Baby corn and fix training programmes and resource persons whenever needed will be provided by the directorate.