ANNUAL PROGRESS REPORT OF KVK NANA-KANDHASAR (APRIL-10 TO MARCH-11)

1. GENERAL INFORMATION ABOUT THE KVK:

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

Address	Telephone	
	Office	Fax
Krishi Vigyan Kendra, Junagadh Agricultural University Nana-Kandhasar-363 520 Dist: Surendranagar	02751- 294120	02751-280121
	E-mail	
	adr-chotila-srn@gujarat.gov.in surendranagar.kvk@gmail.com	

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

Address	Telephone		E-mail
	Office	Fax	
Junagadh Agricultural University Junagadh- 362 001	0285-2672080-90	0285- 2672653	dee@ jau.in

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

Name	Telephone / Contact		
	Resi.	Mobile	E-mail
Shri. V.B. Gadhia Programme Coordinator Krishi Vigyan Kendra, Junagadh Agricultural University Nanakandhasar-363 520 Dist: Surendranagar	--	9998815627	vbgadhia1951@gmail.com

1.4. Year of sanction: October, 2005

1.5. Staff Position (as on 1st April, 2011)

Sr. No	Sanctioned post	Name of the incumbent	Designa-tion	Discipline	Pay scale (Rs.) 6th Pay	Present Basic+ grade pay (Rs.)	Date of joining
1	Programme Coordinator 1	Shri V. B. Gadhia	Programme Coordinator	Plant Protection	37400-67000	43250+ 9000	19--4 - 2010
2	SMS 6	Mr. A.M. Bharadiya	SMS	Plant Protection	15600-39100	17610+ 6000	21-8-2006
3		Dr. B. C. Bochalya	SMS	Ext Edu.	15600-39100	17610+ 6000	23-8-2006
4		Miss B. M. Bhalala•	SMS	Home Science	12000	8000-13500	23-8-2006
5		Dr. M. M. Tajapara	SMS	Animal Science	15600-39100	17610+ 6000	22-8-2006
6		Mr. H. M. Bhuva	SMS	Agronomy	15600-39100	17610+ 6000	30-8-2006
7		Dr. R M Javia	SMS	Plant Breeding	15600-39100	17610+ 6000	22-8-2006
8	Training Assistant 2	G. K. Sapra	Tr. Asstt	PBG	6000 fix	6000 fix	07-01-2009
9		**VACANT**	--	--		--	--
10	Computer Programmer 1	P T Patel **	Computer Programmer	B.E. (Computer)	6000 fix	6000 fix	07-02-2008
11	Accountant / Superintendent 1	Mr. V. F. Chaudhari	O. S. cum Accountant	--	9300-34800	11650+ 4200	06-6-2007
12	Stenographer 1	**VACAN**	--	--	--	--	--
13	Driver 2	Mr. P. D. Dave	Tractor Driver	--	5200-20200	11840+ 2400	06-9-2007
14		Mr. H. R. Gohil	Jeep Driver	--	5200-20200	9530+ 2400	01-8-2006
15	Supporting staff 2	Mr. M. H. Solanki	Peon	--	4440-7440	8020+ 1650	08-3-2006
16		**VACANT**	--	--			--

* Working at KVK, JAU, Targhadia.
** Working at Account office, JAU, Junagadh

1.6. Total land with KVK (in ha):

Sr. No.	Item	Area (ha)
1	Under Buildings	04.00
2.	Under Demonstration Units	16.00
3.	Under Crops	
4.	Orchard/Agro-forestry	
5.	Others	20.00

1.7. Infrastructural Development:

A) Buildings

	Name of building	Source of funding	Stage		
			Complete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.) Total
1	Administrative Building	ICAR	23/7/09	595	30,20,600
2	Farmers Hostel			296	20,74,700
3	Staff Quarters - 6			--	30,55,000
4	Demonstration Shed - 2			78	6,16,000
5	Rat Proof godown			158	8,30,750
6	Training Hall	RKVY	1/4/10	191	13,94,500
7	Pilot Scale Processing Plant			198	15,72,000
8	Godown & Processing Shed			71	5,00,000
9	Implement Shed			77	3,00,000

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep Bolero (Purchased by KVK)	2006-07	4,86,500	25873	Transferred to DEE office, JAU, Junagadh
Jeep M&M Pizot*	1991	2,03,967*	53549	Not in working condition

* Transfer from Department of Soil & Agril. Chemistry, J.A.U., Junagadh

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer	2006-07	49968	Working Cond.
Copier Machine	2006-07	49816	Working Cond.
Automatic Seed Drill	2006-07	31500	Working Cond.
Tractor mounted Sprayer (200ltr)	2007-08	43000	Working Cond.
Shredder	2007-08	43000	Working Cond.
Dibbler	2007-08	900	Working Cond.
Cotton stock puller	2007-08	1200	Working Cond.
Digital copier with network	2008-09	115300	Working Cond.
Rain gun	2007-08	19800	Working Cond.
LCD projector	2008-09	89985	Working Cond.
Rotavator	2008-09	96000	Working Cond.
Laptop	2008-09	47500	Working Cond.
Harrow cum cultivator (2)	2008-09	75000	Working Cond.
Groundnut Decorticator	2008-09	96530	Working Cond.
Mobile seed processing unit	2008-09	1685000	Working Cond.
Thresher	2008-09	114000	Working Cond.
Zero till drill	2008-09	66700	Working Cond.
Air assisted blower type sprayer	2008-09	98750	Working Cond.
Digital Camera	2008-09	23600	Working Cond.

Plasma TV	2008-09	73750	Working Cond.

1.8. A). Details SAC meeting conducted in the 2010-11:

The Sixth scientific Advisory Committee meeting of Krishi Vigyan Kendra, JAU, Nanakandhasar was held at Conference Hall, KVK, Nana kandhasar on 8th March, 2011. Following members were present in the meeting.

SN	NAME & DESIGNATION	POSITION
1.	Dr. N. C. Patel Hon. Vice Chancellor, Junagadh Agricultural University, Junagadh.	Chairman
2.	Dr. A.M. Parakhia Director of Extension Education Junagadh Agricultural University, Junagadh.	Member
3.	Dr. V. N. Patel Research Scientist (Ento) Representative-A.D.R. and Research Scientist (DF) Main Dry Farming Research Station, JAU, Targhadia	Member
4.	Shri R.R. Sondarva District Agriculture Officer, Surendranagar	Member
5.	Shri D. M. Bhagia Deputy Director of Horticulture, Surendranagar	Member
6.	Shri N J Gohel, Deputy Directore of Agri. (Extension), Surendranagar	Member
7.	Shri. V.B. Gadhia Programme Coordinator, KVK, Nanakandhasar	Member Secretary
8.	Shri S R Kosambi, Asstt Direcor of Agriculture, Surendranagar	Invitee
9.	Shri S G Gadhiya Asstt Direcor of Agriculture (QC), Surendranagar	Invitee
10.	Dr. B. N. Patel, Veterinary Officer Representative-Deputy Director of Animal Husbandry Surendranagar	Member
11.	Shri. N. S. Sangani Progressive Farmer, At. Post : Moti Moldi, Chotila	Member
12.	Shri Vaskurbhai Punabhai Mehta Progressive farmer, At Post: Vadali, Chotila,	Member
13.	Shri. Kishorbhai Harilal Sagani Progressive farmer, At Post : Aanandpur, Chotila	Invitee
14.	Shri. Makwana Rameshbhai S	Invitee

	Progressive farmer, At Post : Rajawad, Chotila	

COMMITTEE MADE THE FOLLOWING RECOMMENDATIONS AFTER ACTIVE INTERACTION:

- Papad making machine is to be purchased for vocational training.
- Repair Poly House structure within 20 days. And for that expenditure should be incurred under recurring grant / revolving fund and before that try to make a visit of Dr. P. M. Chauhan, Professor & Head, Dept of RERE, College of Agril Engineering, JAU, Junagadh and under his guidance repair the structure.
- Try to increase number of FLDs
- Prepare printed material of vocational training and literature should be given to the farmers & Farm women during training programme & Samples of final product of vocational training should be demonstrated in museum
- Minimum Four training of Agril. Engineering discipline have to conducted.
- Complete PRA of new villages & Impact analysis of old villages within short time.
- Press note should be given regularly on pest & disease forecasting & activities.
- Success story should be documented & presented
- Power point should be prepared in Gujarati & Figures should be in English.
- During presentation target should be mentioned with achievements.
- Inventory should be prepared on Resource person of the district
- Three days On Campus training should be organized
- Eucalyptus should be sown on front side of KVK farm.
- Collaborative training with DRDA should be organized as they have good grant for training.
- In case of Home science OFT, age range of children should be minimized and Control group shown last rather than first.
- Date palm should be grown at KVK farm for trail purpose.

- Report should be reach before 10 days of SAC meeting.

2. DETAILS OF DISTRICT:

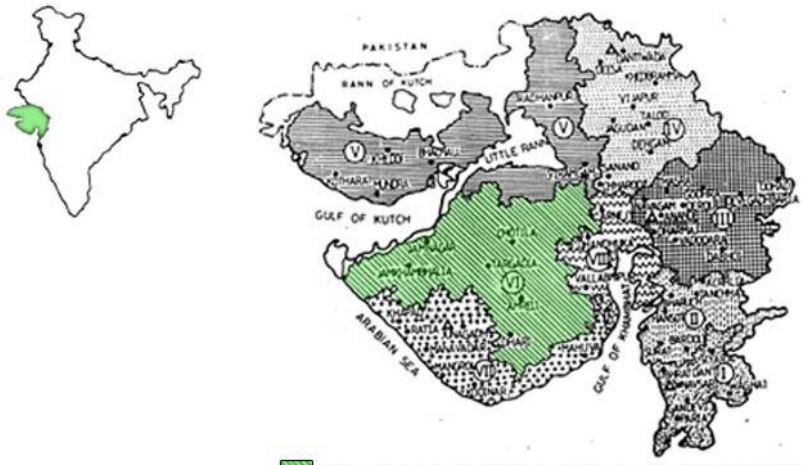
2.1 Major farming systems/enterprises
(based on the analysis made by the KVK):

Farming system/enterprise
The district Surendranagar mainly falls in north Saurashtra agro-climatic zone. The district located in India at 22.0° to 23.45° North latitude and 69.45° to 72.15° East longitude. Surendranagar district is bounded in north by Gulf of Kutch and Mehasana district, in the south by Bhavnagar and part of Ahmedabad district, on the east by part of Ahmedabad and west by Rajkot district. The average annual rainfall is 400 mm. The average temperature of the district ranges with 41°C maximum to 11°C minimum. The soil is mostly medium black, shallow to moderately deep and calcareous in nature, therefore cotton is the major crop of the district. Some patches of saline soil found in Dasada and Lakhtar talukas, calcareous sandy soil found in some part of Chotila, Sayla & Dhangdhra taluka and loamy soil is found in some part of Halvad and Dhangdhra taluka. The pH of the soil is alkaline and underground water is non saline in nature. The district covers 10.48 lakh ha geographical area out of which 6.90 lakh ha under cultivation, of which only 0.62 lakh ha is irrigated. Major area comes under rainfed farming. The main sources of irrigation are wells, tube wells, ponds and canals. The major crops of this region are cotton, sesame & pearl millet and others are sorghum, wheat, chick pea, groundnut, mustard, cumin, green gram, black gram, onion, garlic and vegetables. The fruit orchard area is very less.

2.2 Description of Agro-climatic Zone & major agro ecological situations

Agro-climatic Zone	Characteristics

PROFILE OF THE
NORTH SAURASTRA AGRO - CLIMATIC ZONE VI - GUJARAT



NORTH SAURASTRA AGRO - CLIMATIC ZONE

1.	Total geographical area	: 35.02 lakh ha.
2.	Area under forest	: 1.47 lakh ha.
3.	Area under non agricultural use	: 2.10 lakh ha.
4.	Barren and uncultivated land	: 2.52 lakh ha.
5.	Permanent pasture	: 2.45 lakh ha
6.	Current fallows	: 1.70 lakh ha
7.	Net sown area	: 22.17 lakh ha
8.	Total cropped area	: 25.77 lakh ha
9.	Area sown more than one	: 3.61 lakh ha
10.	Climate	: Arid and semi arid
11.	Average rainfall	: 542.14 mm
12.	Soil type	: Black to brown & Shallow to moderately deep soil

13. Cropping pattern :

Crop		Area (lakh ha.)
Kharif cereals	:	5.58
Khrif pulses	:	0.23
Kharif oil seeds	:	12.14
Cash crops	:	4.00
Rabi cereals	:	1.57
Rabi pulses	:	0.56
Others	:	1.69

14. Major croped area (%)

a) Kharif

Groundnut	:	40
Cotton	:	15
Pearmillet	:	12
Sorghum	:	10
Sesamum	:	3
Others	:	20

b) Rabi

Wheat	:	5
Chickpea	:	2
Cumin	:	3

15. Crop sequence:

Crop

Groundnut - -
Groundnut - Wheat
Groundnut - Mustard
Groundnut - Cumin
Groundnut - Chickpea
Pearl millet - Groundnut
Pearl millet- Green gram
Pearl millet- Cumin
Pearl millet- Mustard
Pearl millet - Garlic
Cotton - -
Cotton - Groundnut
Cotton - Sorghum

Agro ecological situation
North Saurashtra agro-climatic zone-VI, Gujarat Eight agro-climatic zones have been identified in Gujarat. The North Saurashtra Agro climatic Zone-VI falls in Saurashtra region. The influence area of North Saurashtra Agro climatic Zone is spread among five districts of Saurashtra region viz., Amreli (9 talukas out of 11), Bhavnagar (6 talukas out of 13), Jamnagar (all the 10 talukas), Rajkot (11 talukas out of 14) and Surendranagar (7 talukas out of 10) covering 43 talukas in all. It is bounded in the north by the gulf of Kutch and parts of Rajkot as well as Surendranagar district, in the east by the Ahmadabad district and coastal part of Bhavnagar district, on the south by the Junagadh district and parts of Amreli as well as Rajkot district, to the west by Arabian sea. The farming situation of the district Surendranagar is rainfed.

2.3 Soil type/s

Sr. No.	Soil type	Area
1	Medium black	Vadhvan & Muli
2	Saline & Alkaline soils	Dasada & Lakhatar
3	Shallow calcareous sandy soil	Dhanghdhra
4	Red Loamy soil	Halvad, Dhanghdhra
5	Low land soils	Limbadi, Lakhatar
6	Calcareous Sandy soil	Chotila, Sayla

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

Sr. No.	Crop	Area (ha)	Production (mt)	Productivity (Kg/ha)
1	Cotton (Irri)	197152	357734	1815
2	Cotton (Rainfed)	258961	212014	819
3	Sesame	49760	22305	448
4	Groundnut	19710	21670	1114
5	Wheat	31940	88538	2772
6	Cumin	74900	49484	661
7	Gram	9095	6873	756
8	Green Gram	3675	1471	400
9	Mustard	540	468	866

*in the year of 2009-2010

2.5. Weather data

Month	Rainfall (mm)	Rainy Days	Temperature ^{0} C		Relative Humidity (%)	
			Max.	Min.	Max.	Min.
April -10	--	--	42.4	**20.5**	86	14
May-10	--	--	43.5	24.0	86	16
June-10	55	5	40.8	23.8	89	27
July-10	394	20	36.0	24.1	93	43
August-10	272	15	33.0	24.0	86	44
September-10	118	10	35.3	22.3	59	24
October-10	--	--	36.8	20.4	59	24
November-10	41	6	34.7	16.4	62	24
December-10	--	--	28.7	11.4	64	24
January-11	--	--	30.0	10.3	63	15
February-11	--	--	33.4	13.6	63	17
March-11	--	--	39.5	17.5	59	14

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

Category	Population	Production	Productivity
Cattle	293758	5461197 lit	
Crossbred	201		--
Indigenous	293557		--
Buffalo	202939		--
Sheep	100589	--	--
Goats	179648	--	--
Pigs	22948	--	--
Rabbits	--	--	--
Poultry	--	--	--

2.6 Details of Operational area / Villages (2010-11)

Sr. No.	Taluka	Name of block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	2	3	4	5	6	7
1	Chotila	Chotila	Hirasar	Bajra, Groundnut, Sesame, pulses Diary Farming,	Dry farming,Sucking pest in cotton Wild animals Redding in cotton Lower milk production	Dry farming technology Awareness for vaccination & artificial insemination of animals
			Panchavada	Bajra, Groundnut, Sesame, pulses Diary Farming,	Dry farming, HS disease	Dry farming technology Awareness for vaccination & artificial insemination of animals
			Lakhanka	Bajra, Cotton, Cumin, Groundnut, Sesame, pulses, Diary Farming,	Dry farming, Lower milk production, HS disease	Dry farming technology, Awareness for vaccination & artificial insemination of animals
			Kanpar	Bajra, Cotton, Cumin, Wheat, Sesame, Diary Farming,	Dry farming, Injudicious use of fertilizers & Pesticides, Black quarter disease	Adoption of organic farming, Bio-fertilizers & Vermi-compost Dry farming technologies Awareness for vaccination & artificial insemination of animals
			Vijadiya	Groundnut, Cotton, Cumin, Wheat, Sesame, Diary Farming	Lack of knowledge of modern dry land technologies, lack of Awareness for vaccination & artificial insemination of animals	Awareness for vaccination & artificial insemination of animals

1	2	3	4	5	6	7
2	Sayla	Sayla	Dhedhuki	Cotton, castor, Groundnut, wheat Diary Farming,	Lack of knowledge of modern dry land technologies, FMD	Dry farming technologies, Awareness for vaccination & artificial insemination of animals
			Kesarpar	Cotton, Wheat, Cumin, Sesame, Bajra	Lack of knowledge of modern dry land technologies, Injudicious use of fertilizers & Pesticides	Dry farming technologies
			Doliya	Cotton, Bajra, Sesame, Wheat, Cumin, Diary Farming, Horticulture	Lack of knowledge about weed, pest and diseases & nutrient management HS disease, Trypanosomesis disease	To motivate farmers to grow arid and semi arid horticultural crops. Awareness for vaccination & artificial insemination of animals
			Aaya	Cotton, Wheat, Cumin, Sesame, Bajra, Groundnut	Lack of knowledge of modern dry land technologies, Injudicious use of fertilizers & Pesticides	Dry farming technologies,
			Kanpur	Horticulture Diary Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	FMD, Lack of knowledge of modern dry land technologies	Awareness for vaccination & artificial insemination of animals
3	Muli	Muli	Umarda	Diary Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	FMD, Lack of knowledge of modern dry land technologies	Awareness for vaccination & artificial insemination of animals
			Palasa	Diary Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	Awareness for vaccination & artificial insemination of animals	Awareness for vaccination & artificial insemination of animals
			Ramparda	Diary Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	HS disease, Injudicious use of fertilizers & Pesticides	Awareness for vaccination & artificial insemination of animals
			Gadhad	Diary Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	Awareness for vaccination & artificial insemination of animals	Awareness for vaccination & artificial insemination of animals

2.7 Prioritized thrust areas

Crop/ Enterprise	Thrust area
Cotton, Sesamum, Groundnut, Bajra	Dry farming technologies.
Animal Husbandry	Awareness for vaccination & artificial insemination of animals
Crop Management	Adoption of organic farming, Bio-fertilizers & Vermi-compost.
Integrated Crop Management	Integrated weed, pest and diseases & nutrient management.
Home Science	Farm women empowerment.
Lemon, Ber	To motivate farmers to grow arid and semi arid horticultural crops.

3. TECHNICAL ACHIEVEMENTS:

3.A Details of target and achievements of mandatory activities by KVK during 10-11

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
T	A	T	A	T	A	T	A
2	2	6	6	47	47	100	100
Other OFT				Other FLD			
2	2	7	7	14	14	40	40 + 98 Farm Implement

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)				Extension Activities			
3				4			
Number of Courses		Number of Participants		Number of activities		Number of participants	
T	A	T	A	T	A	T	A
92	99	2300	2060	87	198	--	6108

Seed Production kg							Planting material (Nos.)	
5							6	
T	Achievement						T	A
--	Name of crop	Variety	Type of produce	Quantity (Kg)	Seeds sale (Kg)	Income (Rs.)	-	--
	G'nut	GG-2	Breeder	3250	--	--	-	--
	G'nut	GG-20	General	1440	--	--	-	--
	Sesame	Guj.Til-1	Breeder	312	--	--	-	--
	Wheat	GW-496	General	2433	2433	45919	-	--
	Cumin	Guj.-4	General	193	193	30880	-	--

3.B. Abstract of interventions undertaken

Sr. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				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	2	3	4	5	6	7	8	9	10
1	--	Mustard	Low yield	--	Varietal evaluation	Integrated weed management in major rabi field crops Efficient water management in major rabi field crops Plant protection measures in castor and mustard crops		FLD, Field Days, Training	Seed input : Guj-Mustard-3 Insecticide : Quinalphos 25 % Sulphur 80 WP Stomp
2	-	Gram	Low yield	--	Varietal evaluation	Importance of IPM Integrated weed management in major rabi field crops		FLD, Field Days, Training	Seed input : Guj.Gram-3 Insecticide : Phospphamidon 40 EC Endosulphan 35 % EC
3	-	Cumin	Low yield	--	Varietal evaluation	Improved cultivation practices in wheat & cumin Plant protection measures for pest and disease in cumin		FLD, Field Days, Training	Seed input : Guj.Cumin-4 Fungicide : Mancozeb 75 WP Hexaconazol 5 %

						Integrated weed management in major rabi field crops			
						Control measures for pest and disease in cumin & wheat			
4	-	Wheat	Low yield	--	Varietal evaluation	Improved cultivation practices in wheat & cumin		FLD, Field Days, Training	Seed input : GW-366 Insecticide : Endosulphan 35 % Imidachloprid 17.8 %
						Integrated weed management in major rabi field crops			
						Control measures for pest and disease in cumin & wheat			
5	--	Groundnut	Low yield	--	Varietal evaluation	Integrated nutrient management in major kharif field crops	1. Cotton production technology 2. Oil seed and pulse crop production technology under ISOPOM Project 3. Production technology for rabi crops	Filed Day - 28	FLD : Bioagent : *Trichoderma* Culture Fungicide : Mancozeb 75 WP

						IPM in Groundnut		FLD, Field Days, Training	
						Control measures for pest and disease of kharif pulses			
6	--	Sesamum	Low yield		Varietal evaluation	Integrated nutrient management in major kharif field crops		FLD, Field Days, Training	FLD : Seed inputs : Guj.Sesamum-3 Insecticide : Endosulphan 35 % EC
						Management of pest & disease of sesamum			
						Importance of thinning and gap filling and maintenance of plant population in kharif field crops			
						Seed production programme in sesame			
						Seed production technique in sesame			
7	--	Green Gram	Low yield	--	Varietal evaluation	Integrated nutrient management in major kharif field crops	--"--	--"--	FLD : Seed inputs : Guj.Greengram-4

						Importance of thinning and gap filling and maintenance of plant population in kharif field crops			
						Control measures for pest and disease of kharif pulses			
8	--	Cotton (CMM-II)	Low yield	Low yield	INM	Integrated nutrient management in major kharif field crops	FLD, Field Days, Training		FLD : Fertilizer : Posak (Multimicro) Groth (Micronutrient fertilizer) OFT : Insecticides : Methyl Parathionn 2 % dust Methyl parathion 50 % Chlorpyriphos 20 % Bio pesticides : Beaveria spp.
						Importance of thinning and gap filling and maintenance of plant population in kharif field crops			
						IPM in Cotton			
9	--	Bio-agent	Heavy infestation	Application of Tricho derma against stem rot Disease in g'nut	Yield evaluation	IPM in Groundnut	FLD, Field Days, Training		FLD : Bio-agent : *Trichoderma harzianum* Culture

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	TOTAL
Varietals Evaluation	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
Weed Management	-	-	-	-	-
Integrated Crop Management	-		-	1	1
INM	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
Drudgery reduction	-	-	-	-	-
Farm machineries	-	-	-	-	-
Value addition	-	-	-	-	-
IPM	-	-	-	1	1
IDM	-		-	-	-
Resource conservation technology	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-
TOTAL	-	-	-	2	2

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	TOTAL
Varietals Evaluation	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
Weed Management	-	-	-	-	-
Integrated Crop Management	-		-	-	-
INM	-	-	-	-	-
Integrated Farming System	-	-	-	-	-

Mushroom cultivation	-	-	-	-	**-**
Drudgery reduction	-	-	-	-	**-**
Farm machineries	-	-	-	-	**-**
Value addition	-	-	-	-	**-**
IPM	-	-	-	-	**-**
IDM	-	1	-	-	**1**
Resource conservation technology	-	-	-	-	**-**
Small Scale income generating enterprises	-	-	-	-	**-**
TOTAL	**-**	**1**	**-**		**1**

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Other	TOTAL
Evaluation of Breeds	-	-	-	-	-	**-**
Nutrition Management	-	-	-	-	-	**-**
Disease of Management	-	-	-	-	-	**-**
Value Addition	-	-	-	-	-	**-**
Production and Management	1	-	-	-	-	**1**
Feed and Fodder	-	-	-	-	-	**-**
Small Scale income generating enterprises	-	-	-	-	-	**-**
Women & Child care	-	-	-	-	1	**1**
TOTAL	**1**	**-**	**-**	**-**	**1**	**2**

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

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

Trial 1: Low yield of cotton.

1. Title of Technology assessed / Refined : Low yield of cotton

2. Problem Definition

   1. Unbalance fertilization.
   2. Problems of sucking pest.
   3. Lack of knowledge of fertilizations.
   4. Less use of organic manure in soil.

3. Details of technologies selected for assessment/refinement

   1. Farmers practice
   2. Recommended dose of fertilizer (160-0-0 NPK kg/ha) in four split.
   3. T-2 + 50 kg P2O5 /ha through DAP + 50 kg K2O/ha through MOP as a basal dose.
   4. T-3 + 25 kg MgSo4/ha + 10 kg ZnSo4/ha as a basal dose.

4. Source of technology: Junagadh Agricultural University, Junagadh.

5. Production system: Balance use of Fertilizer

6. Thematic area: Integrated Nutrient management

7. Performance of the Technology with performance indicators

   *Result is in Table -A

8. Final recommendation for micro level situation

   Recommended dose of fertilizer (160-0-0 NPK kg/ha) in four Split + 50 kg P2O5 /ha through DAP + 50 kg K2O/ha through MOP + 25 kg MgSo4/ha + 10 kg ZnSo4/ha as a basal dose.

9. Constraints identified and feedback for research : NIL

10. Process of farmers participation and their reaction: Result is in Table -A

11. Result of On Farm Trial

Table – A

Crop/ enterpri	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameter of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Cotton	Irrigated	Imbalance use of Fertilizer	Low yield of cotton.	3	1. Farmers practice 2. Recommended dose of fertilizer (160-0-0 NPK kg/ha) in four split. 3. T-2 + 50 kg P2O5 /ha through DAP + 50 kg K2O/ha through MOP as a basal dose. 4. T-3 + 25 kg MgSo4/ha + 10 kg ZnSo4/ha as a basal dose.	Yield evaluation	Seed Cotton Yield (qt/ha)

Results of assessment				Feedback from the farmer
9				10
Av. Yield (qt/ha)				Application of MgSo4 and Znso4 as well as Potash give very good response to Cotton crops
T1	T2	T3	T4	
22.40	24.42	25.88	27.60	

Technology Assessed / Refined	Seed Cotton (Qt/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
1.Farmers practice	22.40	86725	1:2.81
2.Recommended dose of fertilizer (160-0-0 NPK kg/ha) in four split.	24.42	98195	1:3.27
3.T-2 + 50 kg P2O5 /ha through DAP + 50 kg K2O/ha through MOP as a basal dose.	25.88	104280	1:3.30
4.T-3 + 25 kg MgSo4/ha + 10 kg ZnSo4/ha as a basal dose.	27.60	112690	1:3.50

Trial 2: Management of Mealy bug infestation in Cotton.

1. Title of Technology assessed / Refined :

   * Management of Mealy bug infestation in Cotton

2. Problem Definition

   1. Lack of knowledge about the use of particular pesticides
   2. No adoption of recommended practices
   3. Farmers follows instruction given by the local pesticides retailer.

3. Details of technologies selected for assessment/refinement

   T-1.Farmers practice (Use of conventional insecticides after infestation)

   T-2.Recommended practices: pre-sowing application of Methyl parathion 2% Dust, application of insecticides at the time of infestation & Recommended cultural practices.

   T-3.Dusting of Methyl parathion 2% dust as & when required + application of bio-pesticides (Beaveria spp. or Verticillium spp.)

4 Source of technology: Junagadh Agricultural University, Junagadh.

5 Production system: Reduce mealy bug infestation

6 Thematic area: IPM for suppression of mealy bug

7 Performance of the Technology with performance indicators

   *Result is in Table -A

8 Final recommendation for micro level situation

   Recommended practices as well as Dusting of Methyl parathion 2% dust as & when required with application of bio-pesticides (Beaveria spp. or Verticillium spp.)

9 Constraints identified and feedback for research : NIL

10 Process of farmers participation and their reaction: Result is in Table -A

11 Result of On Farm Trial

Table – A

Crop/ enterpri	Farming situation	Problem Diagnose	Title of OFT	No. of trials	Technology Assessed	Parameter of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Cotton	Irrigated	Mealy bug	Management of Mealy bug infestation in Cotton	3	1.Farmers practice(Use of conventional insecticides after infestation) 2. Recommended practices: pre-sowing application of Methyl parathion 2% Dust, application of insecticides at the time of infestation & Recommended cultural practices. 3. Dusting of Methyl parathion 2% dust as & when required, application of bio-pesticides (Beaveria spp. or Verticillium spp.)	Mealy bug infestation	% Plant infested with mealy bug

Results of assessment			Feedback from the farmer
9			10
% Plant infestation with mealy bug			T-2 as well as T-3 has at par result
T1	T2	T3	
10	6	5	

Trial 3: Reduction of Inter-calving period in Buffalo

1. Title of Technology assessed / Refined :

   **** Reduction of Inte-rcalving period in Buffalo***

2. Problem Definition : Long Inter-calving period

3. Details of technologies selected for assessment/refinement

   *T1- Farmer's practice
   *T2- Panacure (1.5 gm) + Vetcominforte (1 Kg)
   *T3- Bioheat (1 No.) + Vetcominforte (1 Kg)
   *T4- Panacure (1.5 gm) + Bioheat (1 No.)

4. Source of technology: Anand Agricultural University, Anand.

5. Production system

   *Package of practices

6. Thematic area

   *Production and Management

7. Performance of the Technology with performance indicators

   * Experiment under progress

8. Final recommendation for micro level situation: Under progress

9. Constraints identified and feedback for research : NIL

10. Process of farmers participation and their reaction

    * Result is in Table –A

11. Result of On Farm Trial

Table – A

Crop/ enterpri	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Buffalo	–	Long Intercalving period	Reduction of intercalving period in Buffalo	4	T1- Farmer's practice T2- Panacure + Vetcominforte T3- Bioheat + Vetcominforte T4- Panacure + Bioheat	Post partum heat	No of days (Months)

Results of assessment

Sr.No.	Parameters	T-1 (Control)	T-2	T-3	T-4
1	Post partum heat (Month)	8-10 month	4-5 month	2-4 month	5-6 month
2	No of services for Conceiving (A.I../Natural service)	3-4	2-3	1-2	2-3
3	Inter calving period (Month)	18-22	15-18	12-14	16-18

Final Recommendation: Feeding of mineral mixture and bioheat bolus is more effective in reducing inter-calving period by early postpartum heat & higher conceiving rate.

Trial 4: Feeding of protein and energy rich diet to children to cure protein energy malnutrition in rural area (Age group – 1 to 3 years)

1. Title of Technology assessed / Refined :

   **** Feeding of protein and energy rich diet to children to cure protein energy malnutrition in rural area (Age group – 1 to 3 years)***

2. Problem Definition

   *Lack of knowledge about balance diet

   * Poor economical condition

   * Lack of nutritional meal management

3. Details of technologies selected for assessment/refinement

   *T1- Control without any extra food (Control)

   *T2- Use a mixture of cereals (30 gm)+pulses (10 gm)+ghee (5 gm) for second group of children (Age group- 1 to 3 years)

   *T3- Use a mixture of cereals (30 gm)+sprouted pulses (10 gm)+ghee (5 gm) for first group of children (Age group- 1 to 3 years)

4. Source of technology: Junagadh Agricultural University, Junagadh.

5. Production system and thematic area: Women and child care

6. Thematic area: Women and child care

7. Performance of the Technology with performance indicators

   * Result is in Table -E

8. Final recommendation for micro level situation: NIL

9. Constraints identified and feedback for research : Some people are not giving mixture regularly

10. Process of farmers participation and their reaction

    * Children are ready to eat the mixture and mothers are also getting conscious about protein and energy rich diet

11. Result of On Farm Trial

Table – E

Crop/ enterpris	Farming situation	Problem Diagnose	Title of OFT	No. of trials	Technology Assessed	Paameters of assesment	Dataon the paameter
1	2	3	4	5	6	7	8
5.Home Science	–	Deficiency of protein, energy and other nutrient	Feeding of protein and energy rich diet to children in rural to cure malnutrition (Age group - 1 to 3 years).	3	Feeding of protein and energy rich diet to children in rural for remove malnutrition deficiency (Age group – 1 to 3 yrs).	- Height of children - Weight of children - Chest circumference Waist	–

No	Name of the Children	Name of the Village	Data on the performance indicators of the technology Assessed/refined								
			Technology option 1			Technology option 2			Technology option 3		
			I-1	I-2	I-3	I-1	I-2	I-3	I-1	I-2	I-3
1	Ganapat V Maobat	Doliya	-	-	-	-	-	-	1.5	0.3	2
2	Ravi Rajabhai Sanosara	Doliya	-	-	-	-	-	-	1.0	0.3	2
3	Deepak Bhanubhai Vaju	Doliya	-	-	-	-	-	-	1.5	0.2	3
4	Bhotabhai B Panchal	Dhedhuki	-	-	-	1.0	0.4	1	-	-	-
5	Yuvraj V Chauhan	Dhedhuki	-	-	-	2.0	0.2	1	-	-	-
6	Darshan B Khamaniya	Dhedhuki	-	-	-	0.5	0.1	3	-	-	-
7	Shilpa M. Kudecha	Aaya	0.5	0.2	1	-	-	-	-	-	-
8	Sunita S. Kudecha	Aaya	0.75	0.1	1	-	-	-	-	-	-
9	Divyaraj Lalsangbhai Zala	Aaya	1.0	0.3	2	-	-	-	-	-	-
	Total	--	**2.25**	**0.6**	**4**	**3.5**	**0.7**	**5**	**4**	**0.8**	**7**

I-1 Difference in Weight, I-2 Difference in Height, I-3 Chest & waist difference

C. Technology Refinement (2007-2010):

Trial 1

1 Title of Technology assessed / Refined :

**** Application of Trichoderma against stem rot disease in groundnut***

2. Problem Definition : Heavy attack of stem rot

3. Details of technologies selected for assessment/refinement

*T1- Farmer's practice (Control)

*T2- Mixing Trichoderma @ 2.5 Kg with castor cake @ 500 Kg at the time of sowing

*T3- Soil drenching of Trichoderma @ 50 gm/10 lit. of water with spray pump without nozzle

12. Source of technology: Junagadh Agricultural University, Junagadh.

13. Production system and thematic area: Package of practices

14. Thematic area: Integrated disease management

15. Performance of the Technology with performance indicators

*Result is in Table -A

16. Final recommendation for micro level situation

*** Mixing Trichoderma @ 2.5 Kg /ha with castor cake @ 500 Kg/ha at the time of sowing.**

17. Constraints identified and feedback for research : NIL

18. Process of farmers participation and their reaction

* Result is in Table -A

19. Result of On Farm Trial

Table – A

Crop/ enterpri	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Paarmeters of assessment	Dataon the paarmeter
1	2	3	4	5	6	7	8
G'nut	Irrigated	Stem rot	Application of Tricho derma against stem rot Disease in g'nut	3	T1- Farmer's practice (Control) T2- Mixing Trichoderma @ 2.5 Kg with castor cake @ 500 Kg at the time of sowing T3- Soil drenching of Trichoderma @ 50 gm/10 lit. of water with spray pump without nozzle	Yield evaluation	Yield (qt/ha)

Results of assesment			Feedback from the farmer
9			10
Av. Yield (qt/ha)			Treatment-2 shows good control against the stem rot of G'nut but unavailability of castor cake will be not sured at the time of application
T-1	T-2	T-3	
10.30	12.20	10.95	

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
Farmer's practice (T-1)	10.30	17520	1:1.42
Recommended (T-2)	12.20	20230	1:1.34
Modified (T-3)	10.95	18955	1:1.48
Pooled data for three years result			
Farmer's practice (T-1)	11.23	17936	1:1.40
Recommended (T-2)	13.18	20652	1:1.34
Modified (T-3)	12.38	20611	1:1.56
Final Recommendation from micro level situation : Mixing Trichoderma @ 2.5 Kg /ha with castor cake @ 500 Kg/ha at the time of sowing. **Now it is recommendation for farmer community**			

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 2010-11 and recommended for large scale adoption in the district

Sr. No.	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	Dry farming	Guj.Musrard-3 (Mustard)	FLD, Field Day & Training	14	1500	–
2		Guj. Gram-3 (Gram)				
3		Guj.Cumin-4 (Cumin)				
4		GW – 366 (Wheat)				
5		GG-20 (G'nut)				
6		Guj.Til-3 (Sesame)				
7		Guj. Green Gram-4 (Green gram)				
8		Bt Cotton varieties (CMM-II)				
9		*Trichoderma* culture (Bio-agent)				

b. Details of FLDs implemented during 2010-11

Sr No	Crop	Thematic area	Technology Demon-strated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall
					Proposed	Actual	SC /ST	Other	Total	
1	Mustard	Package of practices	Varietal evaluation, recommended package of practices	Rabi, 2010	10.0	10.0	3/0	17	20	–
2	Gram			Rabi, 2010	10.0	10.0	4/0	16	20	–
3	Cumin			Rabi, 2010	5.0	5.0	1/0	9	10	–
4	Wheat			Rabi, 2010	10.0	10.0	4/0	16	20	–
5	G'nut			Kharif 10-11	4.0	4.0	1/0	9	10	–
6	Sesame			Kharif 10-11	4.0	4.0	2/0	8	10	–
7	Moong			Kharif 10-11	4.0	4.0	3/0	7	10	–
8	Cotton			Kharif 10-11	10.0	10.0	0	25	25	–
9	Bio-agent			Kharif 10-11	2.0	2.0	1/0	4	5	–

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Mustar	Rabi 09-10	Irrigated	Medium black	L	M	H	Green gram	23/10/09	13/2/10	212	--
		Irrigated	–"–	L	M	H	Green gram	25/10/09	15/2/10	212	--
		Irrigated	–"–	L	M	H	Sesame	26/10/09	14/2/10	212	--
		Irrigated	–"–	L	M	H	Black gram	24/10/09	17/2/10	212	--
		Irrigated	–"–	L	M	H	Sorghum	24/10/09	13/2/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	28/10/09	18/2/10	212	--
		Irrigated	–"–	L	M	H	Sesame	29/10/09	17/2/10	212	--
		Irrigated	–"–	L	M	H	Green gram	30/10/09	20/2/10	212	--
		Irrigated	–"–	L	M	H	Black gram	23/10/09	13/2/10	212	--
		Irrigated	–"–	L	M	H	Sorghum	24/10/09	12/2/10	212	--
		Irrigated	–"–	L	M	H	Bajara	27/10/09	15/2/10	212	--
		Irrigated	–"–	L	M	H	Sesame	30/10/09	20/2/10	212	--
		Irrigated	–"–	L	M	H	Sesame	25/10/09	14/2/10	212	--
		Irrigated	–"–	L	M	H	Bajara	24/10/09	11/2/10	212	--
		Irrigated	–"–	L	M	H	Sorghum	23/10/09	11/2/10	212	--
		Irrigated	–"–	L	M	H	Vegetables	28/10/09	16/2/10	212	--
		Irrigated	–"–	L	M	H	G;nut	27/10/09	15/2/10	212	--
		Irrigated	–"–	L	M	H	Green gram	29/10/09	18/2/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	25/10/09	14/2/10	212	--
		Irrigated	–"–	L	M	H	Sesame	24/10/09	11/2/10	212	--
Gram	Rabi 09-10	Irrigated	–"–	L	M	H	Groundnut	25/10/09	20/2/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	30/10/09	22/2/10	212	--
		Irrigated	–"–	L	M	H	Green gram	24/10/09	17/2/10	212	--
		Irrigated	–"–	L	M	H	Sorghum	25/10/09	23/2/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	30/10/09	25/2/10	212	--

		Irrigated	–"–	L	M	H	Sesame	1/11/09	26/2/10	212	--
		Irrigated	–"–	L	M	H	Bajra	4/11/09	1/3/10	212	--
		Irrigated	–"–	L	M	H	Sesame	29/10/09	25/2/10	212	--
		Irrigated	–"–	L	M	H	Greengram	29/10/09	26/2/10	212	--
		Irrigated	–"–	L	M	H	Blackgram	5/11/09	1/3/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	3/11/09	28/2/10	212	--
		Irrigated	–"–	L	M	H	Bajara	28/10/09	24/2/10	212	--
		Irrigated	–"–	L	M	H	Sorghum	30/10/09	25/2/10	212	--
		Irrigated	–"–	L	M	H	Sesame	6/11/09	2/3/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	24/11/09	18/2/10	212	--
		Irrigated	–"–	L	M	H	Bajara	26/10/09	21/2/10	212	--
		Irrigated	–"–	L	M	H	Vegetables	8/11/09	3/3/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	4/11/09	1/3/10	212	--
		Irrigated	–"–	L	M	H	Sesame	29/11/09	24/2/10	212	--
		Irrigated	–"–	L	M	H	Sesame	27/11/09	21/2/10	212	--
Cumin	Rabi 09-10	Irrigated	–"–	L	M	H	Sorghum	8/11/09	23/2/10	212	--
		Irrigated	–"–	L	M	H	Bajara	1/11/09	17/2/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	3/11/09	18/2/10	212	--
		Irrigated	–"–	L	M	H	Greengram	4/11/09	20/2/10	212	--
		Irrigated	–"–	L	M	H	Sorghum	9/11/09	24/2/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	8/11/09	22/2/10	212	--
		Irrigated	–"–	L	M	H	Brinjal	6/11/09	22/2/10	212	--
		Irrigated	–"–	L	M	H	Bajara	5/11/09	23/2/10	212	--
		Irrigated	–"–	L	M	H	Sesame	7/11/09	22/2/10	212	--
		Irrigated	–"–	L	M	H	Groundnut	6/11/09	21/2/10	212	--
Wheat	Rabi 09-10	Irrigated	Medium black	L	M	H	Cotton	15/11/09	10/3/10	212	--
		Irrigated		L	M	H	G' nut	11/11/09	6/3/10	212	--
		Irrigated	–"–	L	M	H	Sesame	17/11/09	11/3/10	212	--
		Irrigated	–"–	L	M	H	Cotton	10/11/09	5/3/10	212	--
		Irrigated	–"–	L	M	H	G' nut	10/11/09	6/3/10	212	--
		Irrigated	–"–	L	M	H	Bajara	19/11/09	12/3/10	212	--
		Irrigated	–"–	L	M	H	Sesame	11/11/09	7/3/10	212	--
		Irrigated	–"–	L	M	H	Sorghum	14/11/09	10/3/10	212	--
		Irrigated	–"–	L	M	H	G' nut	15/11/09	10/3/10	212	--
		Irrigated	–"–	L	M	H	Sesame	12/11/09	7/3/10	212	--

		Irrigated	–"–	L	M	H	Sesame	24/11/09	15/3/10	212	--
		Irrigated	–"–	L	M	H	G' nut	20/11/09	13/3/10	212	--
		Irrigated	–"–	L	M	H	Cotton	22/11/09	15/3/10	212	--
		Irrigated	–"–	L	M	H	Cotton	25/11/09	17/3/10	212	--
		Irrigated	–"–	L	M	H	G' nut	20/11/09	15/3/10	212	--
		Irrigated	–"–	L	M	H	Cotton	15/11/09	10/3/10	212	--
		Irrigated	–"–	L	M	H	Cotton	13/11/09	8/3/10	212	--
		Irrigated	–"–	L	M	H	Sesame	17/11/09	13/3/10	212	--
		Irrigated	–"–	L	M	H	Cotton	20/11/09	14/3/10	212	--
		Irrigated	–"–	L	M	H	Bajara	16/11/09	11/3/10	212	--
G'nut	*Kharif 10-11*	Irrigated	Medium black	L	M	H	Wheat	23/6/10	4/11/10		--
		Irrigated		L	M	H	G'nut	23/6/10	3/11/10		--
		Irrigated	--"--	L	M	H	Sorghum	10/7/10	6/11/10		--
		Irrigated	--"--	L	M	H	Castor	9/7/10	5/11/10		--
		Irrigated	--"--	L	M	H	Sorghum	20/6/10	4/11/10		--
		Irrigated	--"--	L	M	H	Cotton	10/7/10	5/11/10		--
		Irrigated	--"--	L	M	H	Wheat	9/7/10	4/11/10		--
		Irrigated	--"--	L	M	H	G'nut	9/7/10	6/11/10		--
		Irrigated	--"--	L	M	H	G'nut	10/7/10	5/11/10		--
		Irrigated	--"--	L	M	H	Sorghum	23/6/10	3/11/10		--
Sesame	*Kharif 10-11*	Irrigated	--"--	L	M	H	Castor	10/7/10	6/10/10		--
		Irrigated	--"--	L	M	H	Cotton	10/7/10	5/10/10		--
		Irrigated	--"--	L	M	H	Cotton	11/7/10	3/10/10		--
		Irrigated	--"--	L	M	H	Cotton	9/7/10	10/10/10		--
		Irrigated	--"--	L	M	H	Cotton	12/7/10	1/10/10		--
		Irrigated	--"--	L	M	H	Wheat	9/7/10	9/10/10		--
		Irrigated	--"--	L	M	H	Sorghum	10/7/10	4/10/10		--
		Irrigated	--"--	L	M	H	G'nut	11/7/10	5/10/10		--
		Irrigated	--"--	L	M	H	Cotton	11/7/10	7/10/10		--
		Irrigated	--"--	L	M	H	G'nut	10/7/10	6/10/10		--
Green Gram	*Kharif 10-11*	Irrigated	--"--	L	M	H	Wheat	9/7/10	6/10/10		--
		Irrigated	–"–	L	M	H	Cotton	11/7/10	3/10/10		--
		Irrigated	–"–	L	M	H	Castor	13/7/10	29/9/10		--
		Irrigated	–"–	L	M	H	Cotton	9/7/10	3/10/10		--

		Irrigated	–"–	L	M	H	Cotton	10/7/10	5/10/10		--
		Irrigated	–"–	L	M	H	Wheat	9/7/10	1/10/10		--
		Irrigated	–"–	L	M	H	Cotton	10/7/10	2/10/10		--
		Irrigated	–"–	L	M	H	Cotton	11/7/10	5/10/10		--
		Irrigated	–"–	L	M	H	Wheat	9/7/10	6/10/10		--
		Irrigated	–"–	L	M	H	Cotton	10/7/10	4/10/10		--
Bio-agent	*Kharif 09-10*	Irrigated	Medium black	L	M	H	Wheat	9/7/10	7/11/10		--
		Irrigated		L	M	H	G'nut	22/6/10	3/11/10		--
		Irrigated		L	M	H	Vegetable	23/6/10	5/11/10		--
		Irrigated		L	M	H	Wheat	10/7/10	6/11/10		--
		Irrigated		L	M	H	G'nut	9/7/10	7/11/10		
Cotton (CMM-II)	*Kharif 10-11*	Irrigated	Medium black	L	M	H	Vegetable	18/6/10	Multi-Picking		--
		Irrigated		L	M	H	Bajra	23/6/10			--
		Irrigated		L	M	H	Cotton	18/6/10			--
		Irrigated		L	M	H	Bajra	20/6/10			--
		Irrigated	–"–	L	M	H	Wheat	9/7/10			--
		Irrigated	–"–	L	M	H	Wheat	24/6/10			--
		Irrigated	–"–	L	M	H	Wheat	23/6/10			--
		Irrigated	–"–	L	M	H	Cumin	22/6/10			--
		Irrigated	–"–	L	M	H	Wheat	24/6/10			--
		Irrigated	–"–	L	M	H	Cotton	10/7/10			--
		Irrigated	–"–	L	M	H	Wheat	24/6/10			--
		Irrigated	–"–	L	M	H	Wheat	20/6/10			--
		Irrigated	–"–	L	M	H	Wheat	22/6/10			--
		Irrigated	–"–	L	M	H	Cumin	23/6/10			--
		Irrigated	–"–	L	M	H	Cotton	9/7/10			--
		Irrigated	–"–	L	M	H	Cotton	24/6/10			--
		Irrigated	–"–	L	M	H	Bajra	24/6/10			--
		Irrigated	–"–	L	M	H	Bajra	20/6/10			--
		Irrigated	–"–	L	M	H	Cotton	22/6/10			--
		Irrigated	–"–	L	M	H	G'nut	23/6/10			--
		Irrigated	–"–	L	M	H	Cotton	20/6/10			--
		Irrigated	–"–	L	M	H	Wheat	9/7/10			--
		Irrigated	–"–	L	M	H	Wheat	20/6/10			--
		Irrigated	–"–	L	M	H	Cotton	10/7/10			--

		Irrigated	–"–	L	M	H	Sorghum	9/7/10			--

Performance of FLD

Sr. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha)	Demo. Yield Qtl/ha			Yield of local Check Qtl/ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Dem	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Mustard	Varietal evaluation, recommended package of practices	Guj. Mustard-3	20	10	25.75	15.50	21.25	18.40	15.50	-	-
2	Gram		Guj. Gram-3	20	10	25.25	13.10	19.20	16.75	14.63	-	-
3	Cumin		Guj.Cumin-4	10	5	10.20	4.60	7.80	6.55	19.08	-	-
4	Wheat		GW-366	20	10	50.40	30.10	39.70	35.10	13.11	-	-
5	G'nut		GG-20	10	4	22.20	14/80	19.10	16.80	13.69	-	-
6	Sesame		Guj.Til-3	10	4	6.80	4.40	6.05	5.35	13.08	-	-
7	Green Gram		Guj.Green Gram-4	10	4	11.80	5.20	9.20	7.90	16.46	-	-
8	Cotton (CMM-II		Bt Irrigated	25	10	30.00	24.00	26.75	22.89	16.86	-	-
9	Bio-agent		*Trichoderma harzianum*	5	2	20.30	16.20	18.80	16.70	12.57	-	-

Economic Impact (Continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return/ Gross Cost)
Demonstration	Local Check	Demonstratior	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
12750	13900	54188	50600	41438	36700	1:4.25
11700	13200	43200	37688	31500	24488	1:3.69
14500	15750	77610	65173	63110	49423	1:5.35
13600	14500	55580	49140	41980	34640	1:4.09
17200	16950	61598	54180	44398	37230	1:3.58
11500	11150	34031	30093	22531	18943	1:2.96
8000	7800	37260	31995	29260	24195	1:4.66
24900	25300	119037	101860	94137	76560	1:4.78

18500	17000	60630	53857	42130	36857	1:3.28

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

Crop	Season	Component 1. Seed/Variety	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in Productivity over local check
Mustard	Rabi 09-10	Guj. Mustard-3	Irrigated	21.25	18.40	15.50
Gram	Rabi 09-10	Guj. Gram-3	Irrigated	19.20	16.75	14.63
Cumin	Rabi 09-10	Guj. Cumin-4	Irrigated	7.80	6.55	19.08
Wheat	Rabi 09-10	GW-366	Irrigated	39.70	35.10	13.11
G'nut	Kharif 10-11	GG-20	Irrigated	19.10	16.80	13.69
Sesame	Kharif 10-11	Guj.Til-3	Irrigated	6.05	5.35	13.08
Green Gram	Kharif 10-11	Guj. Green Gram-4	Irrigated	9.20	7.90	16.46
Cotton (CMM-II)	Kharif 10-11	Bt	Irrigated	26.75	22.89	16.86
Bio-agent	Kharif 10-11	*Trichoderma harzianum*	Irrigated	18.80	16.70	12.57

Technical Feedback on the demonstrated technologies

Sr. No	Feed Back
1	In mustard, aphid & White rust resistant variety highly required
2	The wheat variety GW-366 is superior but requires research variety for short duration and late sowing so fit in cotton based cropping pattern.
3	Gram wilt resistance & early maturity variety required.
4	In Groundnut a short duration and disease resistance variety required for kharif season so suitable for dry farming
5	In sesamum there is need for short duration & water logged resistant variety because of heavy rainfall

6	In cotton there is further need for tolerant variety against the sucking pest

Farmers' reactions on specific technologies

Sr. No	Feed Back
1	**Gram :** - It is good variety over local varieties, but at maturity stage , wilt and pod borer infestation occur
2	**Cumin :** - High yielder and wilt resistance but late germination observed
3	**Wheat : 366** i. Warmer temp. during crop season shorten the growth duration resulting in poor yield ii. The variety yield better than Lok-1 and GW-496 iii. The baking quality also fine
4	**Mustard :** - The variety GM-3 is higher yielder but aphid attack reduces the yield
5	**Sesamum :** - Guj. Til-3 is higher yielder over local
6	**Groundnut :** - GG-20 is good but, it is require short duration variety erratic rainfall affect the yield of groundnut
7	**Green gram :** - Guj. Green gram-4 is superior over K-851, it mature once a time so more picking not required
8	**Cotton :** - Like Bt variety resistance over larvae, it is require the sucking pest resistance variety

Extension and Training activities under FLD

Sr. No	Activity	No. of activities organized	Date	Number of participants
1	Field days	1	15/01/10	20
		1	01/02/10	25
		1	06/02/10	24
		1	11/02/10	21
		1	16/02/10	20
		1	25/02/10	22
		1	02/10/10	17
		1	02/10/10	20
		1	03/10/10	15
		1	03/10/10	14
		1	04/10/10	14
		1	04/10/10	19
		1	05/10/10	16
		1	05/10/10	15
		1	06/10/10	14
		1	06/10/10	14
		1	07/10/10	13
		1	07/10/10	12
		1	08/10/10	18
		1	08/10/10	13
		1	09/10/10	11
		1	09/10/10	10
		1	10/10/10	13
		1	10/10/10	12
		1	11/10/10	16
		1	12/10/10	11
		1	13/10/10	16
		1	14/10/10	12

Total		**28**	**--**	**447**
2	Farmers Training	1	13/10/09	12
		1	23/10/09	23
		1	18/11/09	12
		1	20/11/09	15
		1	26/11/09	30
		1	03/12/09	16
		1	13/10/09	12
		1	23/10/09	23
		1	16/01/10	16
		1	09/03/10	15
		1	20/03/10	17
		1	22/04/10	18
		1	19/05/10	18
		1	01/06/10	16
		1	21/07/10	16
		1	23/07/10	13
		1	29/07/10	21
		1	25/08/10	20
		1	20/09/10	14
		1	24/09/10	17
	Total	**20**	**--**	**344**
3	Media coverage	3	--	--
4	Training for extension functionaries	1	02/07/10	25
		1	23/07/10	25
		1	08/10/10	30
		3		**80**

C. Details of FLD on Enterprises

(i) Farm Implements:

Sr. No.	Physical achievement	Demonstration	
		No. of Demonstration (hectare)	No. of beneficiaries
1	Seed drill	17 ha	15
2	Rotavator	97 ha	28
3	Shredder	4	4
4	Seed dressing drum	10	10
5	Cotton stalk Pooler	1	1
6	Solar cooker	4	4
7	Solar lantern	4	4
8	Chaff cutter	27	27
9	Groundnut decorticator	5	5

(ii) Livestock Enterprises: **De-worming in animal (Buffalo)**

Enterprise	Breed	Year	Treatment	No. of farmers	No. of animals,	Performance parameters/ indicators		Milk yield (lit/day)	
								Demo	L check
1	2	3	4	5	6	7		8	9
Livestock	Buffalo (Non Descript)	09-10	Panacure Tablets	10	20	Milk Production		12	10
Cost of Input (Rs.)		Cost of Milk Production (Rs.)		Gross Return (Rs./Month)		Net Return (Rs./Month)		BCR	
Demo	Local	Demo	Local	Demo	Local	Demo	Local	Demo	Local
10	11	12	13	14	15	16	17	18	19
43/-	00	3163/-	2820/-	7200/-	6000/-	4037/-	3180/-	1:1.27	1:1.12

(iii) Other Enterprises: NIL

3.3 Achievements on Training

(Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit):

A) ON Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women										
I Crop Production	**12**	**199**	**0**	**199**	**42**	**0**	**42**	**241**	**-**	**241**
Weed Management	1	13	0	13	1	0	1	14	0	14
Resource Conservation Technologies	2	26	0	26	8	0	8	34	0	34
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	7	126	0	126	28	0	28	154	0	154
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	2	34	0	34	5	0	5	39	0	39
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture	**1**	**41**	**0**	**41**	**14**	**0**	**14**	**55**	**0**	**55**
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-

Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	1	41	0	41	14	0	14	55	0	55
b) Fruits	-	-	-	-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and	-	-	-	-	-	-	-	-	-	-

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

IV Livestock Production and Management	**6**	**100**	**0**	**100**	**12**	**0**	**12**	**112**	**0**	**112**
Dairy Management	3	57	0	57	5	0	5	62	0	62
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	1	12	0	12	1	0	1	13	0	13
Feed management	2	31	0	31	6	0	6	37	0	37
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	**3**	**0**	**58**	**58**	**0**	**0**	**0**	**0**	**58**	**58**
Household food security by kitchen gardening and nutrition gardening	1	0	16	16	0	0	0	0	16	16
Design and deve. of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	1	0	21	21	0	0	0	0	21	21
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	21	21	0	0	0	0	21	21
Income generation activities for	-	-	-	-	-	-	-	-	-	-

empowerment of rural Women										
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	**3**	**39**	**0**	**39**	**6**	**0**	**6**	**45**	**0**	**45**
Installation and maintenance of micro irrigation systems	2	23	0	23	3	0	3	26	0	26
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	16	0	16	3	0	3	19	0	19
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
VII Plant Protection	**4**	**52**	**0**	**52**	**12**	**0**	**12**	**64**	**0**	**64**
Integrated Pest Management	4	52	0	52	12	0	12	64	0	64
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Integrated fish farming	-	-	-	-	-	-	-	-	-	-

Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost 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	**4**	**45**	**0**	**45**	**9**	**0**	**9**	**54**	**0**	**54**
Global warming & climate change	4	45	0	45	9	0	9	54	0	54
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
TOTAL	**33**	**476**	**58**	**534**	**95**	**0**	**95**	**571**	**58**	**629**

(B) RURAL YOUTH										
Global warming & climate change	2	26	0	26	4	0	4	30	0	30
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-

Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Making different house hold products	1	0	11	11	0	14	14	0	25	25
Water harvesting technology	1	14	0	14	3	0	3	17	0	17
TOTAL	**4**	**40**	**11**	**51**	**7**	**14**	**21**	**47**	**25**	**72**

(C) Extension Personnel										
Productivity enhancement in field crops	3	65	0	65	15	0	15	80	0	80
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation	1	103	0	103	18	0	18	121	0	121

technology										
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care										
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	**4**	**168**	**0**	**168**	**33**	**0**	**33**	**201**	**0**	**201**
GRAND TOTAL	**41**	**684**	**69**	**753**	**135**	**14**	**149**	**819**	**83**	**902**

B) OFF Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women										
I Crop Production	**5**	**80**	**0**	**80**	**5**	**0**	**5**	**85**	**0**	**85**
Weed Management	1	14	0	14	1	0	1	15	0	15
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	1	20	0	20	1	0	1	21	0	21
Water management	1	13	0	13	1	0	1	14	0	14
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	2	33	0	33	2	0	2	35	0	35
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-

Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-	-
b) Fruits	-	-	-	-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-

Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management	**3**	**52**	**0**	**52**	**6**	**0**	**6**	**58**	**0**	**58**
Soil fertility management	1	19	0	19	2	0	2	21	0	21
Soil and Water Conservation	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	1	17	0	17	1	0	1	18	0	18
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-

Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Soil and Water Testing	1	16	0	16	3	0	3	19	0	19
IV Livestock Production and Management	**7**	**95**	**0**	**95**	**14**	**0**	**14**	**109**	**0**	**109**
Dairy Management	3	42	0	42	6	0	6	48	0	48
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	2	27	0	27	4	0	4	31	0	31
Feed management	2	26	0	26	4	0	4	30	0	30
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	**10**	**0**	**156**	**156**	**0**	**50**	**50**	**0**	**206**	**206**
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	1	0	17	17	0	0	0	0	17	17
Designing and development for high nutrient efficiency diet	1	0	15	15	0	3	3	0	18	18
Minimization of	1	0	20	20	0	1	1	0	21	21

nutrient loss in processing										
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	1	0	15	15	0	0	0	0	15	15
Value addition	3	0	33	33	0	22	22	0	55	55
Income generation activities for empowerment of rural Women	1	0	23	23	0	10	10	0	33	33
Location specific drudgery reduction technologies	2	0	33	33	0	14	14	0	47	47
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	**4**	**57**	**0**	**57**	**3**	**0**	**3**	**60**	**0**	**60**
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	3	43	0	43	2	0	2	45	0	45
Repair and maintenance of farm machinery and implements	1	14	0	14	1	0	1	15	0	15
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
VII Plant Protection	**8**	**115**	**0**	**115**	**17**	**0**	**17**	**132**	**0**	**132**

Integrated Pest Management	4	58	0	58	7	0	7	65	0	65
Integrated Disease Management	2	26	0	26	7	0	7	33	0	33
Bio-control of pests and diseases	2	31	0	31	3	0	3	34	0	34
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	**2**	**33**	**0**	**33**	**9**	**0**	**9**	**42**	**0**	**42**
Seed Production	2	33	0	33	9	0	9	42	0	42
Planting material	-	-	-	-	-	-	-	-	-	-

production										
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production	-	-	-	-	-	-	-	-	-	-

technologies										
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
XII Extension Education	**3**	**35**	**0**	**35**	**8**	**0**	**8**	**43**	**0**	**43**
TOTAL	**42**	**467**	**156**	**623**	**62**	**50**	**112**	**529**	**206**	**735**

(B) RURAL YOUTH										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming										
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Production of quality animal	-	-	-	-	-	-	-	-	-	-

products										
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Micro irrigation	1	13	0	13	2	0	2	15	0	15
Kisan club	1	11	0	11	3	0	3	14	0	14
AI	1	11	0	11	4	0	4	15	0	15
TOTAL	**3**	**35**	**0**	**35**	**9**	**0**	**9**	**44**	**0**	**44**

(C) Extension Personnel										
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	1	0	32	32	0	6	6	0	38	38
Low cost and	-	-	-	-	-	-	-	-	-	-

nutrient efficient diet designing										
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	**1**	**0**	**32**	**32**	**0**	**6**	**6**	**0**	**38**	**38**
GRAND TOTAL	**46**	**502**	**188**	**690**	**71**	**56**	**127**	**573**	**244**	**817**

C) Consolidated table (ON and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women										
I Crop Production	**17**	**279**	**0**	**279**	**47**	**0**	**47**	**326**	**0**	**326**
Weed Management	2	27	0	27	2	0	2	29	0	29
Resource Conservation Technologies	2	26	0	26	8	0	8	34	0	34
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	1	20	0	20	1	0	1	21	0	21
Water management	1	13	0	13	1	0	1	14	0	14
Seed production	7	126	0	126	28	0	28	154	0	154
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	4	67	0	67	7	0	7	74	0	74
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-

II Horticulture	**1**	**41**	**0**	**41**	**14**	**0**	**14**	**55**	**0**	**55**
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	1	41	0	41	14	0	14	55	0	55
b) Fruits	-	-	-	-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-

Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
III Soil Health	**3**	**52**	**0**	**52**	**6**	**0**	**6**	**58**	**0**	**58**

and Fertility Management										
Soil fertility management	1	19	0	19	2	0	2	21	0	21
Soil and Water Conservation	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	1	17	0	17	1	0	1	18	0	18
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Soil and Water Testing	1	16	0	16	3	0	3	19	0	19
IV Livestock Production and Management	**13**	**195**	**0**	**195**	**26**	**0**	**26**	**221**	**0**	**221**
Dairy Management	6	99	0	99	11	0	11	110	0	110
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	3	39	0	39	5	0	5	44	0	44
Feed management	4	57	0	57	10	0	10	67	0	67
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	**13**	**0**	**214**	**214**	**0**	**50**	**50**	**0**	**264**	**264**
Household food	1	0	16	16	0	0	0	0	16	16

security by kitchen gardening										
Design and development of low/minimum cost diet	1	0	17	17	0	0	0	0	17	17
Designing and development for high nutrient efficiency diet	2	0	36	36	0	3	3	0	39	39
Minimization of nutrient loss in processing	1	0	20	20	0	1	1	0	21	21
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	1	0	15	15	0	0	0	0	15	15
Value addition	4	0	54	54	0	22	22	0	76	76
Income generation activities for empowerment of rural Women	1	0	23	23	0	10	10	0	33	33
Location specific drudgery reductio technologies	2	0	33	33	0	14	14	0	47	47
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	**7**	**96**	**0**	**96**	**9**	**0**	**9**	**105**	**0**	**105**
Installation and maintenance of MI systems	2	23	0	23	3	0	3	26	0	26
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	3	43	0	43	2	0	2	45	0	45
Repair and maintenance of	2	30	0	30	4	0	4	34	0	34

farm machinery and implements										
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Tech	-	-	-	-	-	-	-	-	-	-
VII Plant Protection	**12**	**167**	**0**	**167**	**29**	**0**	**29**	**196**	**0**	**196**
Integrated PM	8	110	0	110	19	0	19	129	0	129
Integrated Disease Management	2	26	0	26	7	0	7	33	0	33
Bio-control of pests and diseases	2	31	0	31	3	0	3	34	0	34
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster	-	-	-	-	-	-	-	-	-	-

farming										
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	**2**	**33**	**0**	**33**	**9**	**0**	**9**	**42**	**0**	**42**
Seed Production	2	33	0	33	9	0	9	42	0	42
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	**4**	**45**	**0**	**45**	**9**	**0**	**9**	**54**	**0**	**54**
Global warming & climate change	4	45	0	45	9	0	9	54	0	54
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-

Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
XII EXTENSION EDUCATION	**3**	**35**	**0**	**35**	**8**	**0**	**8**	**43**	**0**	**43**
TOTAL	**75**	**943**	**214**	**1157**	**157**	**50**	**207**	**1100**	**264**	**1364**

(B) RURAL YOUTH										
Global warming & climate change	2	26	0	26	4	0	4	30	0	30
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and	-	-	-	-	-	-	-	-	-	-

maintenance of farm machinery and implements										
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale	-	-	-	-	-	-	-	-	-	-

processing										
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Making different house hold products	1	0	11	11	0	14	14	0	25	25
Water harvesting technology	1	14	0	14	3	0	3	17	0	17
Micro irrigation	1	13	0	13	2	0	2	15	0	15
Kisan club	1	11	0	11	3	0	3	14	0	14
AI	1	11	0	11	4	0	4	15	0	15
TOTAL	**7**	**75**	**11**	**86**	**16**	**14**	**30**	**91**	**25**	**116**

(C) Extension Personnel										
Productivity enhancement in field crops	3	65	0	65	15	0	15	80	0	80
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	1	103	0	103	18	0	18	121	0	121
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity	-	-	-	-	-	-	-	-	-	-

building for ICT application										
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	1	0	32	32	0	6	6	0	38	38
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	**5**	**168**	**32**	**200**	**33**	**6**	**39**	**201**	**38**	**239**
GRAND TOTAL	**87**	**1186**	**257**	**1443**	**206**	**70**	**276**	**1392**	**327**	**1719**

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

Date	Title of the training programme	Discipline	Thematic area	Duration in days	(Off / On Campus)	Number of other participants			Number of SC/ST			Total number of participangs		
						Male	Female	Total	Male	Female	Total	Male	Female	Total
For Farmers & Farm women														
15/4/2010	Increase nutritive value of low quality roughages for milch animals	Animal Science		1	On	11	0	11	1	0	1	12	0	12
16/4/2010	Organic residue and farm waste management	Crop Production		1	On	15	0	15	3	0	3	18	0	18
19/4/2010	Effect of global warming & climate changes in Agriculture	Extension Education		1	On	12	0	12	3	0	3	15	0	15
22/4/2010	IPM in Cotton	Plant Protection		1	On	14	0	14	4	0	4	18	0	18
6/6/2010	Judicious use of weedicides in field crops	Crop Production		1	On	13	0	13	1	0	1	14	0	14
23/7/10	Pure Seeds Production Technique in Sesamum	Seeds Production		1	On	12	0	12	1	0	1	13	0	13
7-8-2010	Castor Production Technology	Crop Production		1	On	18	0	18	1	0	1	19	0	19

11-8-2010	Rain water Management Technology	Agril. Engineering		1	On	13	0	13	0	0	0	13	0	13
21-9-2010	Importance & use of green fodder in milk production	Animal Science		1	On	20	0	20	5	0	5	25	0	25
22-9-2010	Effect of global warming and climate change	Extension Education		1	On	11	0	11	3	0	3	14	0	14
23-9-2010	IPM in castor	Plant Protection		1	On	12	0	12	2	0	2	14	0	14
24-9-2010	Effect of global warming and climate change	Extension Education		1	On	11	0	11	1	0	1	12	0	12
28-9-2010	Efficient use of harvested water	Agril. Engineering		1	On	10	0	10	3	0	3	13	0	13
26-10-10	Pure seeds production technique in cumin	Seeds Production		1	On	17	0	17	3	0	3	20	0	20
28-10-10	Plant protection measures for pest & diseases in cumin	Plant Protection		1	On	16	0	16	3	0	3	19	0	19
29-10-10	Low cost technology for higher milk production	Animal Science		1	On	28	0	28	5	0	5	33	0	33

23-11-10	Care & Management of animals during winter	Animal Science		1	On	12	0	12	1	0	1	13	0	13
26-11-10	Protected cultivation	Horticultur		1	On	41	0	41	14	0	14	55	0	55
3-12-10	Pure seeds production technique in cumin	Seeds Production		1	On	20	0	20	3	0	3	23	0	23
4-12-10	Preparation of banana & Potato wafers	Home Science		1	On	0	21	21	0	0	0	0	21	21
14-12-10	Pure seeds production technique in wheat & cumin	Seeds Production		1	On	18	0	18	7	0	7	25	0	25
22-12-10	Improved cultivation practices for wheat & Cumin	Crop Production		1	On	16	0	16	4	0	4	20	0	20
23/12/10	Use of improved agricultural Implements	Agril. Engineering		1	On	16	0	16	3	0	3	19	0	19
21/1/11	Selection of breed of milch animals for economical milk production	Animal Science		1	On	15	0	15	0	0	0	15	0	15
24/1/11	Importance of colostrums in calves	Animal Science		1	On	14	0	14	0	0	0	14	0	14

25/1/11	Pure seed production technique in cumin & wheat	Seeds Production		1	On	27	0	27	5	0	5	32	0	32
3/2/11	Pure seed production technique in wheat	Seeds Production		1	On	14	0	14	4	0	4	18	0	18
4/2/11	Pure seed production technique in cumin	Seeds Production		1	On	18	0	18	5	0	5	23	0	23
11/2/11	Organic residue and farm waste management	Crop Production		1	On	11	0	11	5	0	5	16	0	16
14/2/11	Kitchen gardening	Home Science		1	On	0	16	16	0	0	0	0	16	16
15/2/11	Soybean – its importance in human diet and different preparations for high nutrient efficiency diet	Home Science		1	On	0	21	21	0	0	0	0	21	21
1/3/11	Importance of IPM	Plant Protection		1	On	10	0	10	3	0	3	13	0	13
4/3/11	Effect of global warming & climate change on agriculture	Extension Education		1	On	11	0	11	2	0	2	13	0	13
			ON CAMPUS			**476**	**58**	**534**	**95**	**0**	**95**	**571**	**58**	**629**

3/4/2010	Urea treatment in wheat straw	Animal Science		1	Off	14	0	14	2	0	2	16	0	16
8/4/2010	Soil sampling method	Crop Production		1	Off	16	0	16	3	0	3	19	0	19
9/4/2010	Awareness about extension activities of KVK	Extension Education		1	Off	10	0	10	3	0	3	13	0	13
30/4/2010 to 1/5/2010	Preparation of different masala, Gujarat handicraft & different stitches	Home Science		2	Off	0	23	23	0	10	10	0	33	33
15/5/2010	Drudgery reducing devices for farm women	Home Science		1	Off	0	15	15	0	7	7	0	22	22
19/5/2010	Integrated nutrient management in major kharif field crops	Crop Production		1	Off	17	0	17	1	0	1	18	0	18
24/5/2010	Scientific method of food grain storage	Home Science		1	Off	0	15	15	0	0	0	0	15	15
18/6/2010	Management of pest & diseases of sesame	Plant Protection		1	Off	14	0	14	2	0	2	16	0	16
21-7-2010	IPM in Groundnut	Plant Protection		1	Off	14	0	14	2	0	2	16	0	16
21-7-2010	Govt subsidiary scheme in Agriculture	Extension Education		1	Off	13	0	13	2	0	2	15	0	15

28-7-2010	Use of mineral mixture for balance feeding	Animal Science		1	Off	12	0	12	2	0	2	14	0	14
29-7-2010	Importance of thinning and gap filling	Crop Production		1	Off	20	0	20	1	0	1	21	0	21
2-8-2010	Introduction and use of chaff cutter	Agril. Engineering		1	Off	15	0	15	2	0	2	17	0	17
20-8-2010	Health care of live stock during monsoon	Animal Science		1	Off	15	0	15	2	0	2	17	0	17
21-8-2010	Preventive measure and first aid treatment of important disease in dairy animals	Animal Science		1	Off	12	0	12	1	0	1	13	0	13
23-8-2010	IPM in vegetables	Plant Protection		1	Off	15	0	15	1	0	1	16	0	16
25-8-2010	Seeds production programme in Sesamum	Seeds Production		1	Off	16	0	16	4	0	4	20	0	20
6-9-2010	Farm implements and their use	Agril. Engineering		1	Off	15	0	15	0	0	0	15	0	15
10-9-2010	Introduction of effective & improved agril equipment	Agril. Engineering		1	Off	13	0	13	0	0	0	13	0	13

20-9-2010	Control measures for pest & diseases of kharif pulses	Plant Protection		1	Off	11	0	11	3	0	3	14	0	14
20-9-2010	Formation of kisan clubs	Extension Education		1	Off	12	0	12	3	0	3	15	0	15
24-9-2010	Production technology of mustard	Crop Production		1	Off	17	0	17	0	0	0	17	0	17
22-11-10	Care & Management of milch animals	Animal Science		1	Off	14	0	14	2	0	2	16	0	16
27-11-10	Foot and mouth diseases & its control	Animal Science		1	Off	15	0	15	3	0	3	18	0	18
6-12-10	Balance diet for women & child	Home Science		1	Off	0	15	15	0	3	3	0	18	18
7-12-10	Important of pulses in balance diet	Home Science		1	Off	0	20	20	0	1	1	0	21	21
8-12-10	Tomato preservation	Home Science		1	Off	0	13	13	0	6	6	0	19	19
9-12-10	Use of sprouted pulses in preparation of low cost nutrient diet	Home Science		1	Off	0	17	17	0	0	0	0	17	17
10-12-10	Preparation & preservation of fruit & vegetables	Home Science		1	Off	0	12	12	0	0	0	0	12	12

21-12-10	Integrated weed management in major rabi field crops	Crop Production		1	Off	14	0	14	1	0	1	15	0	15
24-12-10	Efficient water management in major rabi field crops	Crop Production		1	Off	13	0	13	1	0	1	14	0	14
10/1/11	Pure seed production technique in cumin	Seeds Production		1	Off	17	0	17	5	0	5	22	0	22
19/1/11	Plant protection measure in castor & mustard crop	Plant Protection		1	Off	14	0	14	2	0	2	16	0	16
20/1/11	Control measures for pest & diseases in cumin & wheat	Plant Protection		1	Off	15	0	15	4	0	4	19	0	19
4/2/11	Production technology of summer groundnut	Crop Production		1	Off	16	0	16	2	0	2	18	0	18
23/2/11	Drudgery reducing devices for farm women	Home Science		1	Off	0	18	18	0	7	7	0	25	25
24/2/11	Preparation & preservation of milk & milk products	Home Science		1	Off	0	8	8	0	16	16	0	24	24
2/3/11	Efficient use of chemical pesticides	Plant Protection		1	Off	15	0	15	2	0	2	17	0	17

3/3/11	Precautions while handling pesticides	Plant Protection		1	Off	17	0	17	1	0	1	18	0	18
7/3/11	Preparation of enriched compost	Crop Production		1	Off	19	0	19	2	0	2	21	0	21
14/3/11	Introduction t new develope farm implements and their use	Agril. Engineering		1	Off	14	0	14	1	0	1	15	0	15
30/3/11	Care & management c calves	Animal Science		1	Off	13	0	13	2	0	2	15	0	15
	OFF CAMPUS					**467**	**156**	**623**	**62**	**50**	**112**	**529**	**206**	**735**
	TOTAL (For Practicing Farmer)					**943**	**214**	**1157**	**157**	**50**	**207**	**1100**	**264**	**1364**

For Rural youth														
26/4/2010	Effect of global warming & climate changes in Agriculture	Extension Education		1	On	13	0	13	2	0	2	15	0	15
17/5/2010	Training on making of glycerin & simple bath soap, washing soap & shampoo	Home Science		1	On	0	11	11	0	14	14	0	25	25
21/3/11	Efficient use of harvested water	Agril. Engineering		1	On	14	0	14	3	0	3	17	0	17
23/3/11	Effect of global warming & climate change on agriculture	Extension Education		1	On	13	0	13	2	0	2	15	0	15
5/3/11	Trouble shooting of micro irrigation system	Agril. Engineering		1	Off	13	0	13	2	0	2	15	0	15
15/3/11	Formation of kisan clubs	Extension Education		1	Off	11	0	11	3	0	3	14	0	14
28/3/11	Importance of AI in animals	Animal Science		1	Off	11	0	11	4	0	4	15	0	15
	TOTAL (For Rural youth)					**75**	**11**	**86**	**16**	**14**	**30**	**91**	**25**	**116**

For Extension Functionaries (In-Service Training)

2/7/2010	Cotton Production Technology	Crop Production		1	On	22	0	22	3	0	3	25	0	25
23/7/2010	Oilseed & Pulse Crop production Technology	Crop Production		1	On	22	0	22	3	0	3	25	0	25
8/10/10	Production technology for Rabi crops	Crop Production		1	On	21	0	21	9	0	9	30	0	30
27/11/2010	Green House Technology	Horticultur		1	On	103	0	103	18	0	18	121	0	121
19/2/2011	Nutrition education to aanganwadi worker	Home Science		1	Off	0	32	32	0	6	6	0	38	38
	TOTAL For Extension Functionaries (In-Service Training)					**168**	**32**	**200**	**33**	**6**	**39**	**201**	**38**	**239**

D) Vocational training programmes for Rural Youth:

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
					M	F	T	Type of units	Number of units	Number of persons employed	
Crop Productio	13/8/2010	Farm waste Composting	Income generation	1	**25**	**0**	**25**				
Home Science	20-21 / 2/2011	Rice, Urad Papad, Khakhara & Vadi making	Income generation	02	**0**	**26**	**26**				
	22/2/2011	Preparation of different garam masala	Income generation	01	**0**	**26**	**26**				
Total				**03**	**25**	**26**	**51**	-	-	-	-

E) Sponsored/ Collabrative Training Programmes

Sl. No	Date	Title	DISCIPLINE	Thematic area	Duration (days)	Client (PF/RY/EF)	No. of courses	No. of Participants									Sponsoring Agency
								Others			SC/ST			Total			
								M	F	T	M	F	T	M	F	T	
1	30/7/2010	Hitech Horticulture	Horticulture	--	1	RY	1	69	0	69	32	0	32	101	0	101	Deptt. of Horticulture, Surendranagar
2	14-15/12/2010	Training on Storage	General	--	2	PF	1	26	0	26	4	0	4	30	0	30	Central ware house corporation, GOI
Total					**3**		**2**	**95**	**0**	**95**	**36**	**0**	**36**	**131**	**0**	**131**	

F) Training Programmes under seed village programme

SN	Title	Participants		
		Others	SC/ST	Total
1	Pure seed Production technique in Cumin	21	6	27
2	Pure seed Production technique in Wheat	20	4	24
3	Pure seed Production technique in Wheat	15	6	21
4	Pure seed Production technique in Cumin	16	4	20
5	Pure seed Production technique in Groundnut	37	7	44
6	Pure seed Production technique in Groundnut	18	5	23
	TOTAL	**127**	**32**	**159**

3.4. Extension Programmes (including activities of FLD programmes)

Nature of Extension Activity	Purpose/ topic Date	No. of activities	Participants											
			Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
			M	F	T	M	F	T	M	F	T	M	F	T
Field Day	Mustard 15/1/10	1	19	0	19	1	0	1	-	-	-	20	0	20
	Wheat 1/2/10	1	22	0	22	3	0	3	-	-	-	25	0	25
	Gram-6/2/10	1	21	0	21	3	0	3	-	-	-	24	0	24
	Gram 11/2/10	1	18	0	18	3	0	3	-	-	-	21	0	21
	Cumin	1	18	0	18	2	0	2	-	-	-	20	0	20
	Wheat 25/2/10	1	19	0	19	3	0	3	-	-	-	22	0	22
	Moong 02/10/10	1	15	0	15	2	0	2	-	-	-	17	0	17
	Cotton 02/10/10	1	18	0	18	2	0	2	-	-	-	20	0	20
	Cotton 03/10/10	1	12	0	12	3	0	3	-	-	-	15	0	15
	Sesamum 03/10/10	1	11	0	11	3	0	3	-	-	-	14	0	14
	Moong 04/10/10	1	12	0	12	2	0	2	-	-	-	14	0	14
	Groundnut 04/10/10	1	15	0	15	4	0	4	-	-	-	19	0	19
	Cotton 05/10/10	1	15	0	15	1	0	1	-	-	-	16	0	16
	Groundnut 05/10/10	1	13	0	13	2	0	2	-	-	-	15	0	15
	Groundnut 06/10/10	1	13	0	13	1	0	1	-	-	-	14	0	14
	Moong 06/10/10	1	10	0	10	4	0	4	-	-	-	14	0	14
	Sesamum 07/10/10	1	12	0	12	1	0	1	-	-	-	13	0	13

	Groundnut 07/10/10	1	10	0	10	2	0	2	-	-	-	12	0	12
	Cotton 08/10/10	1	15	0	15	3	0	3	-	-	-	18	0	18
	Groundnut 08/10/10	1	12	0	12	1	0	1	-	-	-	13	0	13
	Cotton 09/10/10	1	10	0	10	1	0	1	-	-	-	11	0	11
	Sesamum 09/10/10	1	09	0	09	1	0	1	-	-	-	10	0	10
	Moong 10/10/10	1	12	0	12	1	0	1	-	-	-	13	0	13
	Sesamum 10/10/10	1	12	0	12	0	0	0	-	-	-	12	0	12
	Cotton 11/10/10	1	14	0	14	2	0	2	-	-	-	14	0	14
	Groundnut 12/10/10	1	10	0	10	1	0	1	-	-	-	11	0	11
	Moong 13/10/10	1	07	0	07	09	0	09	-	-	-	16	0	16
	Groundnut 14/10/10	1	10	0	10	2	0	2	-	-	-	14	0	14
	Total	**28**	**384**	**0**	**384**	**63**	**0**	**63**	**-**	**-**	**-**	**447**	**0**	**447**
Kisan Ghosthi		**3**	**47**	**0**	**47**	**22**	**0**	**22**				**69**	**0**	**69**
Exhibition stall 29,30,31/12/2010 & 1,2/1/2011 at Sayla		**5 days**												
Film Show		**12**	**248**	**70**	**318**	**98**	**22**	**120**				**346**	**92**	**438**
Farmers Meeting		**4**	**259**	**28**	**287**	**50**	**6**	**56**				**309**	**34**	**343**
Khedut Shibir		**8**	**598**	**77**	**675**	**144**	**22**	**166**				**742**	**99**	**841**
Lectures delivered as resource persons		**56**	**2981**	**278**	**3259**	**231**	**4**	**235**	**35**	**0**	**35**	**3247**	**282**	**3529**
Radio talks		**2**												
TV talks		**1**												
Popular articles		**--**												
Extension Literature		**--**												
Advisory Services		**14**	**--**	**--**	**--**	**--**	**--**	**--**	**--**			**--**	**--**	**--**
Scientific visit to		**52**	**204**	**58**	**262**	**70**	**12**	**82**				**274**	**70**	**344**

farmers field													
Farmers visit to KVK	**56**	**959**	**147**	**1106**	**285**	**36**	**321**				**1244**	**183**	**1427**
Diagnostic visits	**9**												
Soil health Camp	**--**												
Animal Health Camp	**4**										**50 Farmers (151 animals)**		
Celebration of important days Children health competition 8/12/2010	**1**	**45**	**0**	**45**							**45**	**0**	**45**
Celebration of Technology week13-9-2010 to 18-9-2010	**1 week**												
Celebration of Parthenium awareness week 7-8-2010 to 13-8-2010	**1**	**81**	**24**	**105**							**81**	**24**	**105**

3.5 Production and supply of Technological products

SEED MATERIALS:

Major group/class	Crop	Variety	Quantity (Kg.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Wheat	GW-496	2433	45919	--
OILSEEDS	Groundnut	GG-2,20	4690	--	--
	Sesamum	GT-1,3	332	--	--
PULSES	--	--	--	--	--
OTHERS (Specify)	Cumin	GC-4	193	30880	--

SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	--		
2	OILSEEDS	--		
3	PULSES	--		
4	VEGETABLES	--		
5	FLOWER CROPS	--		
6	OTHERS	--		
TOTAL		**--**		

PLANTING MATERIALS :NIL

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
Fruits	-	-	-	-	-
Spices	-	-	-	-	-
Vegetables	-	-	-	-	-
Forest Species	-	-	-	-	-
Ornamental Crops	-	-	-	-	-
Plantation Crops	-	-	-	-	-
Others (Specify)	-	-	-	-	-

BIO-PRODUCT :NIL

LIVESTOCK : NIL

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

(A) KVK News Letter: nil

(B) Literature developed / published

Item	Title	Authors name	Number of copies
1	2	3	4
Research papers	Hetreosis in sesame (*Sesame indicum* L.)	Javia R.M., Pandya H.M. and Dhaduk H.L.	--
	Response of jatropha curcas grown on wasteland to nitrogen and phosphorus fertilization	Bhuva H.M., Chaudhari D.R., Chikara J., Parmar D.R. and Patolia J.S.	--
	Effect of nutrient management in sesame on sulphur and micronutrient availability in sandy loam soil	Suratria G.S., Vora V.D., Javia R.M., Akbari K.N. and Padmani D.R.	--
	Effect of nutrient management on sesame yield and post harvest soil fertility in sandy loam soils	Akbari K.N., Sutaria G.S., Javia R.M., Vora V.D. and Padmani D.R.	--
	Identification of technological needs and problems of farmers in Agril. Entomology	Bochlya B.C., Javia R.M., Bharadiya A.M. and Bhuva H.M.	--
Total	05	--	--
Leaflets/ folders	Surendranagar jilanu krushi mandir	Kabariya B.B. and Javia R.M.	1000
	Suki khetima vadhare pak utpadan kevi rite Medavasho	Bhuva H.M. and Javia R.M.	1000

	Kapasma jivato tatha rogoni niyantran vyavatha	Bharadiya A.M. and Javia R.M.	1000
	Vadhu dudha utpadan kem midavasho	Tajapar M.M. amd Javia R.M.	1000
	Jal sangrah ane teni vividh paddhatio	Prajapati G.V. and Javia R.M.	1000
	Khedut mahilao ane poshhankhham aahar	Bhalala B.M. and Javia R.M.	1000
	Chaniya khatar no ek matra paryay etle kapasni santhinu khatar	Bhuva H.M., Javia R.M. and Bochliya B.C.	1000
	Alasiya apanavo jamin bachavo	Bhuva H.M., Javia R.M. and Bochliya B.C.	1000
	Ratanjyotni kheti paddhati	Bhuva H.M., Javia R.M. and Tajpara M.M.	1000
	Magafalini jivato ane tenu niyantran	Bharadiya A.M., Javia R.M. and Bhuva H.M.	1000
	Talma rog – jivat niyantran	Bharadiya A.M., Javia R.M. and Bhuva H.M.	1000
	Dudh utpadanma ghatado ane teno ukel	Tajpara M.M., Javia R.M. and Bhuva H.M.	1000
	Pashuchikitsama vaparati davao ane pashurahethanma vaparata jantunashako	Tajpara M.M., Javia R.M. and Bhuva H.M.	1000
Total	**13**	**--**	**13000**

(C) Details of Electronic Media Produced :

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

3.7. Success stories/Case studies

Success Story-1.

1. Adoption of INM in Bt cotton

1. Name of farmer : Narshibhai Arjanbhai Lakum
2. Name of village : Doliya (Sayala)
3. District : Surendranagar

Cotton is the main cash crop in Surendranagar district of Gujarat, most of the farmers of this area cultivated cotton as a Kharif crop. The average productivity seen in this area for cotton is i.e. 1825 kg/ha of district. Most of the farmer was used bt variety of cotton. These varieties are higher yielder hence more balance and more requirements of nutrients. Most of the farmers used only DAP and Urea. They not aware about the use of micronutrients. So the yield comes low due to defoliation at the time of maturity and less setting of flower due to more use of nitrogenous fertilizers.

Shri Narshibhai Arjanbhai Lakum is a progressive farmer of the Doliya village, Talulka:Sayala. He has about 6 ha land on which he grows mostly cotton in Kharif season. Through Krishi Vigyan Kendra one FLD on INM in cotton was conducted on his field. The treated plots shows vigorous plant growth, more branching and high boll formation than the control plot, hence as a result more yield was obtained against the local check. He told that approximately 15-20% yields were increased due to the adoption of INM in cotton. He said that for the forthcoming year he will definitely use INM due to higher yield and superior quality.

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

1. **Method of sowing (<u>Row sowing of cumin):</u>**

Cumin is highly remunerative as compared to other spice crops. In Surendranagar district the area of cumin is increasing due to suitable climatic condition of the district. For successful cultivation of cumin dry and cool climate is most favorable, hence Surendranagar district is suited to its cultivation.

During PRA survey and various field diagnostic visits, it was found that most of the farmers were adopted broad casting method for sowing of cumin. After discussing with all the Subject Matter Specialists of the Krishi Vigyan Kendra under the chairmanship of Programme coordinator, a field experiment on cumin was conducted at the Krishi Vigyan Kendra. The plot is divided into two halves, one for farmer's practice and other for row sowing i.e. for improved practice. All the component of production technologies keeps same. During the initial stage of germination, the germination occurs very well in row sowing as compare to local check. The growth parameters were also good in improved practices than the check. It was found that heavy attack of powdery mildew occur in dense populated farmer's practices plot as compared to improved practices plot. The yield of the crop was also fluctuated. As a result we found that the row sowing method is more suitable for cumin sowing rather than broad casting method.

2. Use of *Tricoderma harzianum* against stem rot disease of groundnut.
3. Cotton Stalk Shredder
4. Cotton Stalk Puller
5. Tractor mounted spryer

6. Minimizing the Fertilizer and Maximizing organic manure in Cotton crop
7. IPM in Cotton

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)

	Crop	ITK Practiced	Purpose of ITK
1	Cotton	Cow urine + Dhatura + Desi Aakada boiled and their boiled extract sprays on cotton crop to control the sucking pest.	To control sucking pest.
2	Black gram	Uses of Mehandi powdar and Black gram for minimize the repeat breeder (Uthalo)	To minimize repeat breeder
3	Cattle	For the control of H.S. disease (Locally called Humaro), Kalthi pulse used in feeding	To control H.S. disease
4	Cotton	Boiled mixture of neem oil (500 gms), Aelovera (4 kg), tobacco (500 gms)& water (20 lit) used to control the heleothis, pink boll worm, semi looper	To control the heleothis, pink boll worm, semi looper
5	Wheat	Use of cactus leaves & fruits to control the termites	To control termites
6	Cumin	For the control of powdery mildew in cumin, boiled extract of 3 kg leaves of Piludi + 20 lit water spray on cumin	To control powdery mildew
7	Castor	Milk of cactus is used for the control of stem rot in castor	To control stem rot
8	Cotton	Fermented bajra floor (Bajra floor dig in heap of gobber for 10 days) used for the control of different larvae in Cotton	To control different larvae
9	Pulses	Ash powder is used to preserve the pulses.	For the storage
10	Grain	Neem leaves are used to store pulses as well as grains.	For the storage
11	Child care	To cure cough and cold in children, ajwain seed or nagarvel leaf should be used. Those are applying on chest and give hot towel treatment to child.	Child care
12	Child care	To cure dehydration, jaggery water is given to child	Child care

Indicate the specific training need analysis tools / methodology followed for

* ***Identification of courses for farmers/farm women:***
    - Training for value addition in wheat, groundnut and pulse
* ***Rural Youth:***
    - Care and maintenance of farm implements.
    - Safe use of agro chemicals.
    - Organic farming.
* ***Inservice personnel:***
    - Pre seasonal training on kharif and rabi crops management

3.11 Field activities

* Number of villages adopted : 14
* No. of farm families selected : 140
* No. of survey/PRA conducted : 1 PRA, 1 Bench Mark Survey

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : completed

1. Year of establishment : 2010-11
2. List of equipments purchased with amount : --

Sr. No.	Name of the Equipment	Qty.	Cost
1	Specto-photo meter	1	39,480
2	Flame-photo meter	1	4,4887
3	PH meter	2	7,600
4	Conductivity bridge EC Meter	1	9,450
5	Physical balance	1	6,616
6	Chemical balance	1	45,066
7	Water distillation steel	1	1,57,500
8	Shaker	2	36,000
9	Refrigerator	1	19,200
10	Oven	1	15,215
11	Hot plate	2	9,450

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	--	--	--	--
Water Samples	--	--	--	--
Total	--	--	--	--

4. IMPACT

4.1 Impact of KVK activities : Details given in Impact analysis

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
--	--	--	--	--

4.2. Cases of large scale adoption:

Sr. No	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	Dry farming	**Latest recommended variety**	Field Day, FLD, Training	14	1500	--
		GG-20 (G'nut)				
		Guj. Til-2 (Sesamum)				
		Guj. Greengram-4				
		Guj.Musrard-3 (Mustard)				
		Guj.Cumin-4 (Cumin)				
		GW – 366 (Wheat)				
2	Animal husbandry	Vaccination	Training, Animal treatment camp, FLD, OFT	14	437	
		De-worming		14	660	
		Mineral Mixture		14	240	

- **Details of impact analysis of KVK activities carried out during the reporting period:**
-

Impact Study of KVK Surendranagar

Krishi Vigyan Kendra, Surendranagar is working in 3 cluster of 14 villages of Chotila, Sayala and Muli talukas of Surendranagar district from 2006. Different programmes like FLDs and OFTs were organized for practicing farmers in selected villages since its inception. The need based training programmes are being planned and organized as on-campus and off campus trainings for the adopted villages. The topics selected were mostly crop production technologies, plant protection measures, water managements etc. the front line demonstrations on recently released varieties of major growing crops and cropping system were organized on farmers fields.

An Interview schedule was prepared to measure the impact of KVK activities such as training, FLDs OFT on beneficiaries. An attempt was made to study the profile of the participants trainees, knowledge and adoption of different agricultural technologies and increase in yield in major crops before KVK and after KVK. The interview schedule was prepared in local language and 100 participant trainees were interview by random sampling method. The study was conducted with following objectives:

1. **To know the profile of trainees**
2. **to identify the agricultural information sources before KVK and after KVK**
3. **to assess the knowledge and adoption of trainees about agricultural technology before and after KVK**
4. **to assess the yield of major growing crops before and after KVK**

(1) Profile of the trainees

A. Age of participants

S.NO.	Category	Percentage
1	Up to 35 years	30
2	36 to 50 years	53
3	More than 50 years	17

The data reveals that about 50 per cent of the participants belongs to 36 to 50 year age group and 30 per cent of participants were from young age group. Hence, more emphasis may be given to attract young age farmers due to their education.

B. Educational status of the participants

S. No.	Category	Percentage
1	Illiterate	18
2	Primary level	52
3	S.S.C./ H.S.C. level	23
4	Graduate and above	7

Majority of the of the farmers were having either primary or high school education the data also show that very few 7 per cent of the respondents were graduate and above. It shows that they are not interested in agriculture and allied aspects.

C. Area of farmland (ha.)

S.No.	Category	Percentage
1	Less than 1 ha.	18
2	1 to 4 ha	57
3	More than 4 ha.	25

The data indicates that majority of the participants farmers were middle to big farmers category.

D. Annual Income (Rs.)

S. N.	Category	Percentage	
		Before KVK	At present
1	10000 to 50000	28	22
2	50001 to 100000	34	30
3	More than 100000	38	48

The farmers having annual income of Rs 10,000 to 50,000 were 28 percent, where as 34 per cent farmers had 50,001 to 1,00000 and 38 percent farmers were having annual income more the 100000 before KVK inception. At present 48 percent farmers were having annual income more than Rs.100000, 30 percent were having Rs 50001 to 100000 and 22 percent having 10000 to 50000. It shows that after KVK, the annual income of the farmers has increased to some extent.

2. Sources of Agricultural information before KVK and at present

S. No.	Sources of agril. information	Percentage	
		Before KVK	At present
1	Radio	30	42
2	TV.	42	48
3	Telephone	23	35
4	News Paper	20	40
5	Agril Literature	28	37
6	KVK Scientist	-	85
7	NGOs	12	25
8	Agro agencies	54	68

The data presented in the table reveals that 54 percent of the respondents got agricultural information from agro agencies, 42 per cent from TV, 30 per cent from radio 28 percent from agril literature and remaining from news papers and various NGO activities. Before the KVK started .in this area. But at present 85 percent getting the information from KVK Scientist, 68 per cent from agro

agencies 48 per cent from TV, 42 per cent from Radio and remaining from various sources.

3. Knowledge and Adoption of Agril. Technology before KVK and at present by trainees

A. Knowledge and adoption of Cotton Production Technology

S. N	Particulars	Before KVK		At present	
		Knowledge	Adoption	Knowledge	Adoption
1.	High Yielding Varieties, Bt cotton	60	30	100	95
2	Sowing Time	85	78	95	90
3	Seed Rate	60	55	100	90
4	Seed Treatment	30	25	45	35
5	Row Spacing	35	30	75	70
6	Application of Fertilizer	25	22	85	75
7	Irrigation	78	72	85	80
8	Control measures for Insects	25	20	75	70
9	Control measures for Diseases	22	18	45	40

B. Knowledge and adoption of Groundnut Production Technology

S.No	Particulars	Before KVK		At present	
		Knowledge	Adoption	Knowledge	Adoption
1.	High Yielding Varieties	48	24	95	84
2	Sowing Time	80	75	95	88
3	Seed Rate	65	53	80	75
4	Seed Treatment with Trichoderma	10	2	55	45
5	Row Spacing	26	14	90	85
6	Application of Fertilizer	49	45	65	60
7	Irrigation	78	70	92	88
8	Control measures for Insects	33	27	85	76
9	Control measures for Diseases	28	26	84	74

C. Knowledge and adoption of wheat Production Technology

S. N	Particulars	Before KVK		At present	
		Knowledge	Adoption	Knowledge	Adoption
1.	High Yielding Varieties GW-496, GW-366, 273	65	60	85	84
2	Sowing Time	80	75	98	92
3	Seed Rate	71	65	85	78
4	Seed Treatment	38	30	55	45
5	Row Spacing	46	36	70	65
6	Application of Fertilizer	45	35	75	65
7	Irrigation	75	65	80	75
8	Control measures for Insects	33	25	65	60
9	Control measures for Diseases	10	-	85	45

D. Knowledge and adoption of Cumin Production Technology

S. N	Particulars	Before KVK		At present	
		Knowledge	Adoption	Knowledge	Adoption
1.	High Yielding Varieties GC-2,3,4	40	35	100	100
2	Sowing Time	90	85	100	100
3	Seed Rate	56	50	90	80
4	Seed Treatment	45	40	88	85
5	Row Spacing	45	40	85	80
6	Application of Fertilizer	38	35	90	80
7	Irrigation	80	73	100	94
8	Control measures for Insects	35	30	86	80
9	Control measures for Diseases	28	21	100	95

E. Knowledge and adoption of Chickpea Production Technology

S. N	Particulars	Before KVK		At present	
		Knowledge	Adoption	Knowledge	Adoption
1.	High Yielding Varieties Guj Gram 1,2,3	17	5	75	65
2	Seed Rate	58	39	90	80
3	Seed Treatment	15	-	55	45
4	Row Spacing	55	50	75	70
5	Application of Fertilizer	55	50	80	70
6	Irrigation	86	70	95	90
7	Control measures for Insects	33	25	55	50
8	Control measures for Diseases	22	20	50	45

5. LINKAGES

- **Functional linkage with different organizations**

Name of organization	Nature of linkage
State department of Agriculture - Dy. Director of Agriculture (Extension) - Dy. Director of Horticulture - Dy. Director of Animal husbandry - Dy. Director of Soil Conservation - Dy. Director of Social Forestry	The head of all the organizations are members of Scientific Advisory Committee of KVK and have linkage with different activities of KVK viz., training programmes, farmers day, field days, etc.
Jilla Udyog Kendra	
Milk Co-operative Society	
State bank of Saurashtra	
Doordarshan Kendra	
All India Radio	
ATMA, Surendranagar	
AKRSP, Sayala	
NHRDF	
Farmers Training Centre	

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.) 2010-11	
			Recurring	Non-recurring
RKVY	October-2008	State Govt	--	--

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district: Yes

Sr. No.	Programme	Nature of linkage	Remarks
1	Training for farmers	Lecture delivered as resource person	
2	Khedut shibir		
3	Preparation of Action plan	As a members	

5.4 Give details of programmes implemented under National Horticultural Mission:

Sr. No.	Programme	Nature of linkage	Constraints if any
1	Training for Mali	Lecture delivered as resource person	--
2	Khedut shibir		

5.5 Nature of linkage with National Fisheries Development Board: NIL

6. PERFORMANCE OF INFRASTRUCTURE IN KVK :

6.1 Performance of demonstration units (other than instructional farm) : Demonstration units are under construction

6.2 Performance of instructional farm (Crops) including seed production

Sr. No.	Name of crop	Date of sowing	Date of harvest	Area (ha)	Variety	Type of produce	Quantity (Kg)	Seeds Sale (Kg)	Income (Rs.)
1	Ground Nut	9-7-2010	1-11-2010	7.7	GG-2	Breeder	3250	--	--
2	Ground Nut	9-6-2010	14-10-2010	2.5	GG-20	TF	1440	--	--
3	Sesamum	9-7-2010	6-10-2010	1.0	GT-1	Breeder	--	--	--
4	Cumin	1-12-2010	6-3-2011	2.0	GC-4	TF	--	--	--
5	Castor	30-11-10	--	0.25	JI-96	Breeder	--	--	--
6	Sesamum	--	--	--	GT-3	TF	--	20	2000
7	Wheat	--	--	--	GW-496	TF	2433	2433	45919
8	Cumin	--	--	--	GC-4	TF	--	193	30880
9	Castor	--	--	--	JI-96	Breeder	--	36	2880

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

Sr. No.	Name of the product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
-	-	-	-	-	-

6.4 Performance of instructional farm (livestock and fisheries production) : NIL

6.5 Rainwater Harvesting Training programme conducted by using rainwater harvesting demonstration unit

Date	Title of the training course	Client	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				M	F	T	M	F	T
11-8-10	Rain water Management Technology	PF	1	13	0	13	0	0	0
28-9-10	Efficient use of harvested water	PF	1	13	0	13	3	0	3
21-3-11	Efficient use of harvested water	RY	1	17	0	17	3	0	3

6.6 Utilization of hostel facilities:

Accommodation available (No. of beds): 10

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

	Name of the Bank	Location	A/c Number
a. With Host. Institute	SBI	Junagadh	---
b. With KVK (2704 -18)	SBS	Chotila	66002464030
c. With KVK (2076- 22)	SBS	Chotila	66002438769

7.2 Utilization of KVK funds during the year 2010 -11

SN	Items/Head	Sanctioned grant	Grant received	Expenditure
A RECURRING CONTIGENCY				
1	**Pay & Allowances**	**82.82**		**75,67,286**
2	**Traveling Allowances**	**1.00**		**84,215**
3	**Contingencies**	**11.00**		**11,13,239**
a.	Stationary, Telephone, Postage and other expenditure on office running	1.75		171811
b.	POL, repair of vehicles, tractor and equipments	1.00		1,69,970
c.	Meals/refreshments of trainees	0.85		46269
d.	Training materials	0.90		90210
e.	Frontline demonstration except oilseeds and pulses	1.05		92635
f.	On farm testing	0.70		69760
g.	Training of extension functionaries	0.50		49555
h.	Maintenance of building	0.25		24342
i.	Establishment of soil, plant & water testing laboratory	4.00		398687
	TOTAL-A	**94.82**		**87,64,740**
B NON-RECURRING CONTIGENCY				
1	**Equipment & Furniture**	**29.10**		**11,21,228**
A	Computer	0.50		47,936
B	EPABX	0.50		--
C	PA System	0.30		29,093
D	Furniture	5.00		4,02,135
E	Power tiller	1.50		1,49,100
F	Multi crop thresher	0.50		38,000
G	Seed cum fertilizer drill	0.30		27,500
H	Seed grading packing machine	0.50		37,000
I	Plant health diagnostic facility	10.00		--
J	Establishment of soil water testing lab	10.00		3,90,464
2	**Works Implement shed**	**3.00**		**3,00,000**
3	**Library**	**0.10**		--
4	**Vehicle motorcycle**	**0.50**		**47,494**
	TOTAL-B	**32.70**		**14,68,722**
	GRAND TOTAL	**127.52**	**1,20,97,000**	**1,02,33,462**

7.3 Status of revolving fund (Rs.) as on 31st March - 2011

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2005 to March 2006	1,00,000	--	--	1,00,000
April 2006 to March 2007	1,00,000	73,778	15,709	1,58,069
April 2007 to March 2008	1,58,069	3,60,622	3,31,160	1,87,531
April 2008 to March 2009	1,87,531	2,87,137	1,87,888	2,86,780
April 2009 to March 2010	2,86,780	6,24,618	1,00,011	8,11,387
April 2010 to March 2011	8,11,387	1,71,380	51	9,82,716

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

8.1 Constraints

(a) Administrative : Nil

(b) Financial : Nil

(c) Technical : Nil

Technology Inventory and Activity Chart - III

S.N	Technology	Crop/ enterprise	Year of release or recommendation of technology	Source of technology	Reference/ citation
1.	Variety : Guj. Mustard-3	Mustard	2004	S.K.A.U., S.K. Nagar	--
2.	Variety : Guj. Gram - 3	Gram	2008	J.A.U., Junagadh	--
3.	Variety : Guj. Cumin - 4	Cumin	2002	G.A.U., S.K. Nagar	--
5	Variety : GW-366	Wheat	2006	J.A.U., Junagadh	--
7	Variety : GG-20	Groundnut	1991	G.A.U., S.K. Nagar	--
8	Application of Trichoderma against stem rot disease in Groundnut		--	J.A.U., Junagadh	--
9	Variety : Guj. Sesamum-3	Sesamum	2006	J.A.U., Junagadh	--
10	Variety : Guj. Greengram - 4	Green Gram	2002	G.A.U., S.K. Nagar	--
11	Variety : RCH-2 (Bt)	Cotton	--	--	--
12	Management of mealy bug in cotton		--	J.A.U., Junagadh	--

Activity Chart

Crop/ Animal/ Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Mustard	Low yield	--	Improved variety	FLD, Training, Field day	S.K.A.U., S.K. Nagar
Gram	Low yield	--	Improved variety	FLD, Training, Field day	J.A.U., Junagadh
Cumin	Low yield	--	Improved variety	FLD, Training, Field day	G.A.U., S.K. Nagar
Wheat	Low yield	--	Improved variety	FLD, Training, Field day	J.A.U., Junagadh
Groundnut	Low yield	Disease infestation	IDM	FLD, Training, Field day	J.A.U., Junagadh
Sesamum	Low yield	--	Improved variety	FLD, Training, Field day	J.A.U., Junagadh
Greengram	Low yield	--	Improved variety	FLD, Training, Field day	G.A.U., S.K. Nagar
Cotton	Low yield	--	Improved variety	FLD, Training, Field day	--
	Low yield	Infestation of Mealy bug	Management of Mealy bug in cotton	OFT, Training, Field day	J.A.U., Junagadh