

ANNUAL PROGRESS REPORT OF KVK NANA-KANDHASAR (2007-08)

1. GENERAL INFORMATION ABOUT THE KVK:

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

Address	Telephone		E-mail	Web Address
	Office	Fax		
Krishi Vigyan Kendra, Junagadh Agricultural University Nana-Kandhasar-363 520 Dist: Surendranagar	02751- 294120	--	rmjavia@ gmail.com	--

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

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

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

Name	Telephone / Contact		
	Residence	Mobile	E-mail
Dr. R. M. Javia I/C Programme Coordinator Krishi Vigyan Kendra, Junagadh Agricultural University Nanakandhasar-363 520 Dist: Surendranagar	--	094277 25505	rmjavia@gmail. com

1.4. Year of sanction: October, 2005

1.5. Staff Position (as on 30th September 2008)

Sr. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Highest Qualification (for PC, SMS and Prof. Assit.)	Pay Scale with present basic	Date of joining	Permanent / Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	VACANT	--	--	--	--	--		
2	SMS	Dr. R. M. Javia	SMS	Plant Breeding & Genetics	Ph.D.	8000 - 13500 (9650)	22-8-2006	T	Gen.
3	SMS	Mr. A.M. Bharadiya	SMS	Plant Protection	M.Sc.	-- ° -- (8550)	21-8-2006	T	SC
4	SMS	Dr. B. C. Bochalya	SMS	Ext Edu.	Ph.D.	-- ° -- (9650)	23-8-2006	T	Gen.
5	SMS	Miss B. M. Bhalala	SMS	Home Science	M.Sc.	-- ° -- (8000)	23-8-2006	T	Gen.
6	SMS	Dr. M. M. Tajapara	SMS	Animal Science	M.V. Sc.	-- ° -- (8550)	22-8-2006	T	Gen.
7	SMS	Mr. H. M. Bhuva	SMS	Agronomy	M.Sc.	-- ° -- (8000)	30-8-2006	T	Gen.
8	Farm Manager	Mr. K.H. Ribadiya	Farm Manager	PBG	M.Sc.	5500-9000 (8125)	07-3-2006	T	Gen.
9	Training Assistant	VACANT	--	--		--	--	--	--
10	Computer Programmer	VACANT	--	--		--	--	--	--
11	Accountant / Superintendent	Mr. V. F. Chaudhari	O. S. cum Accountant	--		5000-150-8000	06-6-2007	T	ST
12	Stenographer	VACANT	--	--		--	--	--	--
13	Driver	Mr. P. D. Dave	Tractor Driver	--		4000-100-6000	06-9-2007	T	Gen.
14	Driver	Mr. H. R. Gohil	Jeep Driver	--		4000-6000	01-8-2006	T	Gen.
15	Supporting staff	Mr. M. H. Solanki	Peon	--		2650-3540	08-3-2006	T	SC
16	Supporting staff	Mr. Y. B. Joshi	Peon	--		2650-3540	08-6-2007	T	Gen.

* Working at KVK, JAU, Targhadia.

1.6. Total land with KVK (in ha):

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

1.7. Infrastructural Development:

A) Buildings

Sr. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.) Total	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	Near to completion		10.21	2005-06	--	--
2.	Farmers Hostel		Near to completion		6.76	2005-06	--	--
3.	Staff Quarters (6)		Near to completion		11.97	2005-06	--	--
4.	Fencing		Near to completion		6.00	2007-08	--	--
5.	Rain Water harvesting system		March-07	--	7,43,411	2006-07	--	--
6.	Farm godown		Near to completion		--	2005-06	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep Bolero	2006-07	4,86,500	25873	Transferred to DEE office, JAU, Junagadh
Jeep M&M Pizo	1991	--	6000	Working condition but required major repairing

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.

1.8. A). Details SAC meeting conducted in the 2007-08:

Sr. No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	26/10/07	20	Seed for FLD should be given on farm by giving training on seed processing and treatment	Suggestion accepted & action taken
			Subsidy which is given by all line department	Suggestion accepted & training conducted in 1 st qtr-on campus
			Food grain storage	Suggestion accepted & training conducted in 4 th qtr-off campus
			IPM for red and white fungus in groundnut	Suggestion accepted & training conducted in 4 th qtr-off campus
			Medicinal and aromatic plant which is used for the preparation of shampoo and cream	Suggestion accepted & training conducted in 4 th qtr-off campus
			Farm god won for storage	Suggestion accepted & training conducted in 4 th qtr-off campus
			Value addition and quality production	Suggestion accepted & training conducted in 1 st qtr -on & off campus
			De worming in animals	Suggestion accepted & training conducted in 4 th qtr-off campus
			Permanent demonstration unit for compost should be developed	Suggestion accepted & Demo unit established
			Muth should be given as a part of FLD in place of Black gram	Suggestion accepted & FLD on Muth conducted in kharif-08-09
			Local variety should be collected and evaluate it	Suggestion accepted & local variety "Vadhavani" chilly and "Morvadi" ber is sown at KVK farm

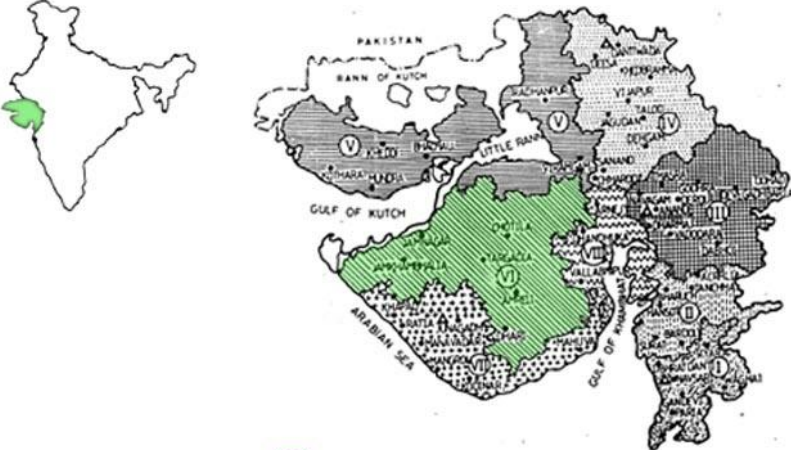
			For conducting training, help of line department and NGO should be taken for making the training effective	Suggestion accepted & sponsored and in-service trainings are organized
			Training for seed production should be conducted before the time of sowing	Suggestion accepted & training organized in 1 st , 2 nd & 4 th qtr – on campus and 1 st , 3 rd qtr – off campus
			Fodder demonstration unit should be developed at Krishi Vigyan Kendra	Suggestion accepted & Demo unit established
			Veterinary officer and health officer should be invited in SAC	Suggestion accepted & invitation given

2. DETAILS OF DISTRICT:

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

Farming system/enterprise
<p>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.</p> <p>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.</p>

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																																								
 <p style="text-align: center;"> NORTH SAURASTRA AGRO - CLIMATIC ZONE </p>																																								
<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 13. Cropping pattern : <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Crop</th> <th style="text-align: left;">Area (lakh ha.)</th> </tr> </thead> <tbody> <tr><td>Kharif cereals</td><td>: 5.58</td></tr> <tr><td>Kharif pulses</td><td>: 0.23</td></tr> <tr><td>Kharif oil seeds</td><td>: 12.14</td></tr> <tr><td>Cash crops</td><td>: 4.00</td></tr> <tr><td>Rabi cereals</td><td>: 1.57</td></tr> <tr><td>Rabi pulses</td><td>: 0.56</td></tr> <tr><td>Others</td><td>: 1.69</td></tr> </tbody> </table>	Crop	Area (lakh ha.)	Kharif cereals	: 5.58	Kharif pulses	: 0.23	Kharif oil seeds	: 12.14	Cash crops	: 4.00	Rabi cereals	: 1.57	Rabi pulses	: 0.56	Others	: 1.69	<ol style="list-style-type: none"> 14. Major cropped area (%) <table border="0" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td colspan="2">a) Kharif</td></tr> <tr><td>Groundnut</td><td>: 40</td></tr> <tr><td>Cotton</td><td>: 15</td></tr> <tr><td>Pearlmillet</td><td>: 12</td></tr> <tr><td>Sorghum</td><td>: 10</td></tr> <tr><td>Sesamum</td><td>: 3</td></tr> <tr><td>Others</td><td>: 20</td></tr> <tr><td colspan="2">b) Rabi</td></tr> <tr><td>Wheat</td><td>: 5</td></tr> <tr><td>Chickpea</td><td>: 2</td></tr> <tr><td>Cumin</td><td>: 3</td></tr> </tbody> </table>	a) Kharif		Groundnut	: 40	Cotton	: 15	Pearlmillet	: 12	Sorghum	: 10	Sesamum	: 3	Others	: 20	b) Rabi		Wheat	: 5	Chickpea	: 2	Cumin	: 3
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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	Dhangdhra
4	Red Loamy soil	Halvad, Dhangdhra
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) 00 ha	Production 00 mt	Productivity Kg/ha
1	Cotton	1367	5924	737
2	Pearl millet	498	706	1417
3	Sesame	889	347	391
4	Groundnut	212	406	1918
5	Wheat	239	672	2812
6	Cumin	259	136	524
7	Castor	243	527	2168
8	Gram	683	843	1234
9	Onion	7	171	22512
10	Garlic	3	16	6123

*in the year of 2006-2007

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April -07	--	--	--	--
May-07	--	--	--	--
June-07	56	--	--	--
July-07	524	--	--	--
August-07	361	--	--	--
September-07	82	--	--	--
October-07	--	--	--	--
November-07	10	--	--	--
December-07	--	--	--	--
January-08	--	--	--	--
February-08	85	--	--	--
March-08	--	--	--	--
April -08	120	--	--	--
May -08	--	--	--	--
June -08	2096	--	--	--
July -08	217	--	--	--
August -08	747	--	--	--

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

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

2.6 Details of Operational area / Villages (2007-08)

Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Chotila	Hirasar	Bajra, Groundnut, Sesame, pulses Diary Farming,	Dry farming, 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, Dairy 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, Dairy 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
Sayla	Dhedhuki	Cotton, castor, Groundnut, wheat Dairy 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, Dairy Farming, Horticulture	Lack of knowledge about weed, pest and diseases & nutrient management HS disease, Trypanosomiasis 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
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

Sr. No.	Thrust area
1	Dry farming technologies.
2	Awareness for vaccination & artificial insemination of animals
3	Adoption of organic farming, Bio-fertilizers & Vermi-compost.
4	Integrated weed, pest and diseases & nutrient management.
5	Farm women empowerment.
6	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 2007-08

OFT				FLD			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
3	3	9	9	57 ha	42 ha	114	84

Training				Extension Activities			
3				4			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
90	95	--	2165	20	20	-	-

Seed Production kg						Planting material (Nos.)		
5						6		
Target	Achievement					Target	Achievement	
--	Name of crop	Details of production			Amount (Rs)		--	--
		Variety	Type of produce	Quantity (kg)	Cost of inputs	Gross income		
	G'nut	GG-20	General	150	1600	4237		
	G'nut	GG-2	Breeder	2590	70500	142450		
	Sesamum	Guj-2	Breeder	525	27000	57750		
	Sesamum	Guj-2	General	261	8000	12280		
	Black gram	T-9	General	962	6500	13468		

3.B1. 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	--	Groundnut	Low yield	--	Varietal evaluation	IPM in Groundnut Control measures for pest and diseases of kharif crops Management of pest and disease of Groundnut	1. Preseasonal training on rabi crops 2. Preseasonal training on kharif crops 3.	Filed Day - 10	FLD : Seed inputs : GG-20 Insecticide : Mancozeb 75 WP
2	--	Sesamum	Low yield	Effect of Supplementary Irrigation On yield of sesamum	Varietal evaluation	Management of pest & disease of sesame Importance of thinning, gap filling & maintenance of plant population in major kharif crops Pure seed production techniques in sesame Pest management in sesame Pure seed production technique in sesame	Extension methods		FLD : Seed inputs : Guj.Sesamum-2 OFT : Endosulphan 35 %
3	--	Green Gram	Low yield	--	Varietal evaluation	Integrated nutrient management in major kharif crops Role of intercropping in rainfed area			FLD : Seed inputs : Guj.Greengram-2

Cont....

1	2	3	4	5	6	7	8	9	10
4	--	Cotton	Low yield	Management of sucking pests in Cotton	Varietal evaluation	Efficient use of chemical pesticides Production technology of cotton Importance of IPM IMP in Cotton	--"--	--"--	FLD : Insecticide : Dimethoate 30 EC Trizophos 40 EC OFT : Thiomethoxan 25 % Imidachloprid 17.8 % Acetamaprid 20 % Dimethoate 30 % Methyl-o-demetone 25 %
5	--	Bio-agent	Heavy infestation	Application of Tricho derma against stem rot Disease in g'nut	Yield evaluation	Precaution while handling pesticides Methods of seed treatments for pest and disease management			FLD : Bio-agent : <i>Trichoderma harzianum</i> Culture OFT : <i>Trichoderma harzianum</i> Culture Castor cake
6	--	Mustard	Low yield	--	Varietal evaluation	Plant protection measures in castor and mustard crop Importance of preparing cropping scheme Production technology of mustard and gram			Seed input : Guj-Mustard-3 Insecticide : Phosphphamidon 40 EC
7	-	Gram	Low yield	--	Varietal evaluation	Integrated weed management in major rabi field crops Efficient water management in major rabi crops IPM in Gram			Seed input : Guj.Gram-2 Insecticide : Endosulphan 35 EC
8	-	Cumin	Low yield	--	Varietal evaluation	Production technology of cumin and funnel Pure seed production technique in cumin			Seed input : Guj.Gram-2 Fungicide : Mancozeb 75 WP Sulphur 80 WP

Cont...

1	2	3	4	5	6	7	8	9	10
						Plant protection measures for pest and disease in cumin	--"	--"	
9	-	Wheat	Low yield	--	Varietal evaluation	Control measures for pest and disease in cumin and wheat	--"	--"	Seed input : GW-366/ GW-496
						Improved cultivation practice for wheat and cumin			
						Pure seed production techniques in wheat and cumin			

3.B2 List of Technology Assessed during 2007-08

S. No.	Thematic area	Name of the technology assessed	Area (ha.)	Number of trials	Remarks if any
1	IDM	Application of <i>Trichoderma</i> against stem rot disease in groundnut	1.50	03	--
2	IPM	Management of sucking pests in Cotton	1.50	03	--
3	NRM	Effect of supplementary irrigation on yield of sesame	1.50	03	--

3.B List of Technology Refined during 2007-08 : under progress

S. No.	Thematic area	Name of the technology assessed	Area (ha.)	Number of trials	Remarks if any
--	--	--	--	--	--

3.C Details of technology used during reporting period

	Title of Technology	Crop/ enterprise	Mode of use				No. of farmers covered						
			OFT	FLD	Training	Others (Field day)	Other farmers			SC/ST farmers			
							M	F	T	M	F	T	
1	Farmers need base training												
		Crop prod.	1	84	19	10	729	25	754	11	0	11	8
		Horticulture	-	-	5	-	101	6	107	6	0	6	
		Soil health & fertility management	-	-	7	-	104	0	104	14	0	14	
		Animal sci	-	-	14	-	196	0	196	21	0	21	
		Home science	-	-	16	-	16	261	277	0	18	18	
		Agri engg	-	-	9	-	142	0	142	18	0	18	
		Plant protection	2	-	17	-	229	0	229	22	0	22	
		Seeds Prod	-	-	2	-	25	0	25	8	0	8	
		Agro forestry	-	-	2	-	25	0	25	4	0	4	
		Ext. education	-	-	4	-	67	0	67	5	0	5	
		TOTAL	3	84	95	10	1634	292	1926	216	18	234	
	Use of latest area specific recommended varieties												
2	GG-20	Groundnut	--	10	--	--	9	-	9	1	-	1	
3	Guj.Til-2	Sesamum	--	10	--	--	9	-	9	1	-	1	
4	Guj.Green Gram-4	Green gram	--	10	--	--	6	2	8	2	-	2	
5	Bt varieties	Cotton	--	10	--	--	10	-	10	-	-	-	
6	Trichoderma culture	Bio-agent	--	04	--	--	3	-	3	-	1	-	
7	Guj.Musrard-3	Mustard	--	10	--	--	5	-	5	5	-	5	
8	Guj.Gram-2	Gram	--	10	--	--	5	1	6	4	-	4	
9	Guj.Cumin-4	Cumin	--	10	--	--	9	-	9	1	-	1	
10	GW-366/496	Wheat	--	10	--	--	9	-	9	1	-	1	
11	Application of Trichoderma against stem rot Disease in g'nut	Groundnut	1	--	--	--	3	-	3	-	-	-	
12	Management of sucking pests in Cotton	Cotton	1	--	--	--	3	-	3	-	-	-	
13	Effect of Supplementary Irrigation On yield of Sesamum	Sesamum	1	--	--	--	2	-	2	1	-	1	

3.1 Achievements on technologies assessed and refined

A. Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
1. Gnut	Irrigated	Stem rot	Application of Trichoderma against stem rot Disease in gnut	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)
2. Cotton	Irrigated	Sucking pest	Management of sucking pests in Cotton	3	*T1- Farmer's practice (Use of new insecticides with higher doses) *T2- Use of old insecticides at recommended dose *T3- Alternate treatment 1 & 2 with recommended doses *New insecticides Thiomethoxan Imidachloprid Acetamaprid *Old insecticides Dimethoate Methyl-o-demetone	Yield evaluation	Yield (qt/ha)
3. Sesamum	Irrigated	Time of Irrigation	Effect of Supplementary Irrigation On yield of sesamum	3	T1- Farmer's practice T2- Two irrigation 50 % flowering and capsule development stage T3- Irrigation at 50% flowering stage or at capsule development stage (Life saving irrigation)	Yield evaluation	Yield (qt/ha)

Cont..

Results of assessment				Feedback from the farmer	Any Refinement done	Justification for refinement
9				10	11	12
Av. Yield (qt/ha)						
S.N	T-1	T-2	T-3			
1	10.33	12.10	11.73	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	--	--
2	15.57	15.70	16.30	At the earlier stage of cotton old insecticides is better while later on when infestation of sucking pest becomes high than newly insecticides gives good results hence Treatment-3 is economic than Treatment-1 & 2 respectively	*T3- Alternate treatment 1 & 2 with recommended doses *New insecticides Thiomethoxan Imidachloprid Acetamaprid *Old insecticides Dimethoate Methyl-o-demetone	Farmers got quick & good results
3	5.05	5.72	5.65	When rains not occurs at the critical stage (i.e. Flowering & pod developed stage) at these critical stages irrigation Treatment-2 shows good output over the Treatment-1 & 3		

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
1. Application of Trichoderma against stem rot disease in groundnut			
Farmer's practice (T-1)	10.33	14858	1:1.10
Recommended (T-2)	12.10	17575	1:1.12
Modified (T-3)	11.73	18457	1:1.34
2. Management of sucking pests in Cotton			
Farmer's practice (T-1)	15.57	24210	1:1.08
Recommended (T-2)	15.70	26000	1:1.23
Modified (T-3)	16.30	26100	1:1.14
3. Effect of supplementary irrigation on yield of sesame			
Farmer's practice (T-1)	5.05	19800	1:1.89
Recommended (T-2)	5.72	22620	1:1.93
Modified (T-3)	5.65	22800	1:2.05

B. Details of each On farm trial to be furnished in the following format separately along with raw data as per the separate proforma provided

B.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
4. Source of technology
*Junagadh Agricultural University, Junagadh.
5. Production system and thematic area
*Package of practices
6. Performance of the Technology with performance indicators
*Result is in Table -A
7. Final recommendation for micro level situation
* Under progress
8. Constraints identified and feedback for research : NIL
9. Process of farmers participation and their reaction
* Result is in Table -A

B.2

1. Title of Technology assessed / Refined :
* **Management of sucking pests in Cotton**
2. Problem Definition
*Heavy attack of sucking pests
3. Details of technologies selected for assessment/refinement
*T1- Farmer's practice (Use of new insecticides with higher doses)
*T2- Use of old insecticides at recommended dose
*T3- Alternate treatment 1 & 2 with recommended doses

-
- | *New insecticides | *Old insecticides |
|---|----------------------|
| 1. Thiomethoxan | 1. Dimethoate |
| 2. Imidachloprid | 2. Methyl-o-demetone |
| 3. Acetamaprid | |
| 4. Source of technology | |
| *Junagadh Agricultural University, Junagadh. | |
| 5. Production system and thematic area | |
| *Package of practices & recommended plant protection measures | |
| 6. Performance of the Technology with performance indicators | |
| * Result is in Table -A | |
| 7. Final recommendation for micro level situation: Under progress | |
| 8. Constraints identified and feedback for research : NIL | |
| 9. Process of farmers participation and their reaction | |
| * Result is in Table -A | |

B.3

1. Title of Technology assessed / Refined :
* ***Effect of supplementary irrigation on yield of sesame***
2. Problem Definition
*Management of irrigation is not proper
3. Details of technologies selected for assessment/refinement
*T1- Farmer's practice (Control)
*T2- Irrigation at 50% flowering stage or at capsule development stage (Life saving irrigation)
*T3- Two irrigation at 50% flowering & capsule development stage
4. Source of technology
*Junagadh Agricultural University, Junagadh.
5. Production system and thematic area: Package of practices
6. Performance of the Technology with performance indicators
* Result is in Table -A
7. Final recommendation for micro level situation: Under progress
8. Constraints identified and feedback for research : NIL
9. Process of farmers participation and their reaction
* Result is in Table -A

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 2007-08 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	GG-20 (G'nut)	Field Day, FLD, Training & Krushi Mahotsav-2007	14	1500	--
2		Guj.Musrard-2 (Mustard)				
3		Guj. Gram-2 (Gram)				
4		Guj.Cumin-4 (Cumin)				
5		GW – 322 & 496 (Wheat)				

- b. Details of FLDs implemented during 2007-08

Sr No	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC /ST	Others	Total	
1	G'nut	--	Varietal evaluation, recommended package of practices	Kharif 2007-08	5.0	5.0	1/0	9	10	--
2	Sesame	--		Kharif 2007-08	5.0	5.0	1/0	9	10	--
3	Green Gram	--		Kharif 2007-08	5.0	5.0	2/0	8	10	--
4	Cotton	--		Kharif 2007-08	5.0	5.0	0/0	10	10	--
5	Bio-agent	--		Kharif 2007-08	2.0	2.0	1/0	3	4	--
6	Mustard	--		Rabi 2007-08	10.0	5.0	5/0	5	10	Letter of additional grant allotment was received after completion of sowing season
7	Gram	--		Rabi 2007-08	15.0	5.0	4/0	6	10	

8	Cumin	--		Rabi 2007-08	5.0	5.0	1/0	9	10	--
9	Wheat	--		Rabi 2007-08	-	5.0	1/0	9	10	--
10	Black gram	--		Kharif 2007-08	5.5	0	0	0	0	- Latest recommended variety was not available.

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					
G'nut	Kharif 07-08	Irrigated	Medium black	L	M	H	Cotton	23/06/07	12/10/07	1033	31
		Irrigated	--"	L	M	H	Cotton	27/06/07	18/10/07	1033	31
		Irrigated	--"	L	M	H	Cumin	20/06/07	11/10/07	1033	31
		Irrigated	--"	L	M	H	Wheat	05/07/07	28/10/07	1033	31
		Irrigated	--"	L	M	H	Brinjal	28/06/07	21/10/07	1033	31
		Irrigated	--"	L	M	H	Wheat	05/06/07	24/10/07	1033	31
		Irrigated	--"	L	M	H	Bajra	26/06/07	15/10/07	1033	31
		Irrigated	--"	L	M	H	Castor	08/07/07	28/10/07	1033	31
		Irrigated	--"	L	M	H	Vegetable	26/06/07	25/10/07	1033	31
		Irrigated	--"	L	M	H	Castor	25/06/07	23/10/07	1033	31
Sesame	Kharif 07-08	Irrigated	Medium black	L	M	H	Bajra	28/06/07	27/9/07	1033	31
		Rainfed	--"	L	M	H	Bajra	25/06/07	22/9/07	1033	31
		Irrigated	--"	L	M	H	Castor	23/06/07	26/9/07	1033	31
		Rainfed	--"	L	M	H	Cotton	23/06/07	28/9/07	1033	31
		Irrigated	--"	L	M	H	G'nut	24/06/07	22/9/07	1033	31
		Rainfed	--"	L	M	H	Sorghum	27/06/07	Crop failure	1033	31
		Rainfed	--"	L	M	H	Cotton	22/06/07	25/9/07	1033	31
		Rainfed	--"	L	M	H	Wheat	28/06/07	1/10/07	1033	31
		Rainfed	--"	L	M	H	Wheat	06/07/07	8/10/07	1033	31
Rainfed	--"	L	M	H	G'nut	07/07/07	23/9/07	1033	31		

Green Gram	Kharif 07-08	Irrigated	Medium black	L	M	H	Wheat	08/07/07	28/09/07	1033	31		
		Irrigated	--"--	L	M	H	Sesamum	07/07/07	30/09/07	1033	31		
		Irrigated	--"--	L	M	H	Wheat	07/07/07	27/09/07	1033	31		
		Irrigated	--"--	L	M	H	Cotton	06/07/07	28/09/07	1033	31		
		Irrigated	--"--	L	M	H	Cotton	06/07/07	30/09/07	1033	31		
		Irrigated	--"--	L	M	H	Gram	04/07/07	02/10/07	1033	31		
		Irrigated	--"--	L	M	H	Cumin	27/06/07	17/09/07	1033	31		
		Irrigated	--"--	L	M	H	Bajra	26/06/07	30/09/07	1033	31		
		Irrigated	--"--	L	M	H	Cotton	24/06/07	27/09/07	1033	31		
		Irrigated	--"--	L	M	H	Cotton	25/06/07	26/09/07	1033	31		
Cotton	Kharif 07-08	Irrigated	Medium black	L	M	H	Cotton	22/06/07	Different pecking as and when required	1033	31		
		Irrigated	--"--	L	M	H	Wheat	22/06/07	28/11/06	1033	31		
		Irrigated	--"--	L	M	H	Cotton	20/06/07	05/01/07	1033	31		
		Rainfed	--"--	L	M	H	Cotton	05/07/07	29/11/06	1033	31		
		Irrigated	--"--	L	M	H	Sorghum	20/06/07	07/01/07	1033	31		
		Rainfed	--"--	L	M	H	Wheat	20/06/07	07/01/07	1033	31		
		Irrigated	--"--	L	M	H	Wheat	12/06/07	26/11/06	1033	31		
		Irrigated	--"--	L	M	H	Wheat	15/06/07	03/12/06	1033	31		
		Irrigated	--"--	L	M	H	Wheat	12/06/07	05/12/06	1033	31		
Bio-agent	Kharif 07-08	Irrigated	Medium black	L	M	H	Wheat	22/06/07	11/10/07	1033	31		
		Irrigated	--"--	L	M	H	Cotton	26/06/07	18/10/07	1033	31		
		Irrigated	--"--	L	M	H	Cumin	24/06/07	14/10/07	1033	31		
		Irrigated	--"--	L	M	H	Castor	27/06/07	16/10/07	1033	31		
		Mustard	Rabi 07-08	Irrigated	Medium black	L	M	H	Green gram	20/10/07	15/02/08	1033	31
				Irrigated	--"--	L	M	H	Sorghum	24/10/07	18/02/08	1033	31
				Irrigated	--"--	L	M	H	Groundnut	23/10/07	15/02/08	1033	31
				Irrigated	--"--	L	M	H	Groundnut	30/10/07	21/02/08	1033	31
Irrigated	--"--			L	M	H	Sesamum	23/10/07	15/02/08	1033	31		
Irrigated	--"--			L	M	H	Groundnut	19/10/07	10/02/08	1033	31		
Irrigated	--"--			L	M	H	Sorghum	22/10/07	17/02/08	1033	31		
Irrigated	--"--			L	M	H	Sesamum	19/10/07	23/02/08	1033	31		
Irrigated	--"--	L	M	H	Groundnut	24/10/07	22/02/08	1033	31				

		Irrigated	--"--	L	M	H	Fallow	18/10/07	15/02/08	1033	31
Gram	Rabi 07-08	Irrigated	Medium black	L	M	H	Groundnut	29/10/07	08/02/08	1033	31
		Irrigated	--"--	L	M	H	Sesamum	05/11/07	25/02/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	05/11/07	23/02/08	1033	31
		Irrigated	--"--	L	M	H	Vegetables	10/11/07	05/02/08	1033	31
		Irrigated	--"--	L	M	H	Black gram	15/11/07	08/02/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	01/11/07	25/02/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	02/11/07	28/02/08	1033	31
		Irrigated	--"--	L	M	H	Sesamum	13/11/07	03/03/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	08/11/07	05/03/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	19/11/07	10/03/08	1033	31
Cumin	Rabi 07-08	Irrigated	Medium black	L	M	H	Groundnut	28/10/07	20/02/08	1033	31
		Irrigated	--"--	L	M	H	Sesamum	01/11/07	25/02/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	10/11/07	28/02/08	1033	31
		Irrigated	--"--	L	M	H	Green gram	03/11/07	24/02/08	1033	31
		Irrigated	--"--	L	M	H	Black gram	07/11/07	28/02/08	1033	31
		Irrigated	--"--	L	M	H	Vegetables	09/11/07	01/03/08	1033	31
		Irrigated	--"--	L	M	H	Sesamum	14/11/07	03/03/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	03/11/07	28/02/08	1033	31
		Irrigated	--"--	L	M	H	Black gram	02/11/07	26/02/08	1033	31
		Irrigated	--"--	L	M	H	Bajra	29/10/07	23/02/08	1033	31
Wheat	Rabi 07-08	Irrigated	Medium black	L	M	H	Groundnut	20/11/07	15/03/08	1033	31
		Irrigated	--"--	L	M	H	Sesamum	24/11/07	23/03/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	19/11/07	15/03/08	1033	31
		Irrigated	--"--	L	M	H	Cotton	22/11/07	18/03/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	23/11/07	20/03/08	1033	31
		Irrigated	--"--	L	M	H	Cotton	24/11/07	16/03/08	1033	31
		Irrigated	--"--	L	M	H	Cotton	18/11/07	15/03/08	1033	31
		Irrigated	--"--	L	M	H	Muth	23/11/07	19/03/08	1033	31
		Irrigated	--"--	L	M	H	Cotton	24/11/07	20/03/08	1033	31
		Irrigated	--"--	L	M	H	Groundnut	26/11/07	16/03/08	1033	31

Performance of FLD

Sr. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Ql/ha			Yield of local Check Ql/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	Groundnut	Varietal evaluation, recommended package of practices	GG-20	10	5.0	16.80	09.20	13.78	11.62	18.58	-	-
2	Sesame		Guj.Til-2	10	5.0	07.20	03.10	05.20	04.50	15.56	-	-
3	Green Gram		Guj.Green Gram-2	10	5.0	10.40	05.40	08.29	07.02	18.09	-	-
4	Cotton		Bt Irrigated	10	5.0	29.60	11.50	19.94	17.46	14.20	-	-
5	Bio-agent		<i>Trichoderma harzianum</i>	04	2.0	16.50	09.80	13.85	12.63	09.66	-	-
6	Mustard		Guj. Mustard-3	10	5.0	20.80	08.90	14.81	12.43	19.15	-	-
7	Gram		Guj. Gram-2	10	5.0	17.40	07.30	12.44	10.48	18.70	-	-
8	Cumin		Guj.Cumin-4	10	5.0	10.10	04.30	06.84	05.67	20.63	-	-
9	Wheat		GW-366	06	3.0	44.50	28.40	35.73	31.22	14.44	-	-
		GW-496	04	2.0	38.60	28.40	34.02	29.93	13.66	-	-	

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	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
15080	14330	37895	30793	22815	16463	1:2.51
13100	12800	31200	26550	18100	13750	1:2.38
8635	8140	19688	16146	11053	8006	1:2.28
21050	22075	59820	52380	38770	30305	1:2.84
15235	14525	38088	33154	22853	18629	1:2.50
13052	12825	37025	30765	23973	17940	1:2.84
12250	11325	29234	24104	16984	12779	1:2.39
18921	18550	58140	48195	39219	29645	1:3.07
16070	15000	37516	32781	21446	17781	1:2.33
16253	15425	35721	31427	19468	16002	1:2.20

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

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in Productivity over local check
		1. Seed/Variety				
G'nut	Kharif 07-08	GG-20	Irrigated	13.78	11.62	18.58
Sesame	Kharif 07-08	Guj.Til-2	Irrigated	05.20	04.50	15.56
Green Gram	Kharif 07-08	Guj.Green Gram-4	Irrigated	08.29	07.02	18.09
Cotton	Kharif 07-08	Bt	Irrigated	19.94	17.46	14.20
Bio-agent	Kharif 07-08	<i>Trichoderma harzianum</i>	Irrigated	13.85	12.63	09.66
Mustard	Rabi 07-08	Guj. Mustard-3	Irrigated	14.81	12.43	19.15
Gram	Rabi 07-08	Guj. Gram-2	Irrigated	12.44	10.48	18.70
Cumin	Rabi 07-08	Guj. Cumin-4	Irrigated	06.84	05.67	20.63
Wheat	Rabi 07-08	GW-366	Irrigated	35.73	31.22	14.44
		GW-496	Irrigated	34.02	29.93	13.66

Technical Feedback on the demonstrated technologies

Sr. No	Feed Back
1	In mustard, aphid resistant variety highly needed
2	In sesamum there is need for short duration drought resistant variety because of untimely and erratic rainfall
3	In cotton there is further need for tolerant variety against the sucking pest
4	The wheat variety GW-366 is superior but requires research variety for short duration and late sowing so cotton growers can be adopt it
5	Groundnut short duration and disease resistance variety required for kharif season so suitable for dry farming
6	Gram wilt resistance variety required so losses up to 70 % minimize

Farmers' reactions on specific technologies

Sr. No	Feed Back
1	Wheat : 366 <ul style="list-style-type: none"> - Warmer temp. during crop season shorten the growth duration resulting in poor yield - The variety yield better than Lok-1 and GW-496 - The baking quality also fine
2	Mustard : <ul style="list-style-type: none"> - The variety GM-3 is higher yielder but aphid attack reduces the yield
3	Gram : <ul style="list-style-type: none"> - It is good variety over local varieties, but at maturity stage , wilt and pod borer infestation occur
4	Cumin : <ul style="list-style-type: none"> - High yielder and wilt resistance but poor and late germination
5	Groundnut : <ul style="list-style-type: none"> - GG-20 is good but, it is require short duration variety erratic rainfall affect the yield of groundnut
6	Sesamum : <ul style="list-style-type: none"> - Guj. Til-2 is higher yielder over local but requires disease resistance variety
7	Cotton : <ul style="list-style-type: none"> - Like Bt variety resistance over larvae, it is require the sucking pest resistance variety
8	Green gram : <ul style="list-style-type: none"> - Guj.Green gram-4 is superior over K-851, it mature once a time so more picking not required

 Extension and Training activities under FLD

Sr. No	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	1	01/10/07	13	--
		1	03/10/07	18	--
		1	04/10/07	17	--
		1	15/10/07	17	--
		1	30/01/08	18	--
		1	04/02/08	20	--
		1	13/02/08	24	--
		1	05/03/08	19	--
		1	10/03/08	16	--
		1	13/03/08	17	--
		Total		10	--
2	Farmers Training	1	11/10/07	19	--
		1	25/10/07	15	--
		1	19/11/07	18	--
		1	21/11/07	23	--
		1	26/11/07	13	--
		1	07/12/07	19	--
		1	15/12/07	23	--
		1	17/12/07	16	--
		1	18/12/07	20	--
		1	19/12/07	19	--
		1	10/01/08	21	--
		1	08/04/08	11	--
		1	11/04/08	16	--
		1	15/04/08	28	--
		1	05/05/08	09	--
		1	11/06/08	12	--
		1	13/06/08	18	--
		1	18/06/08	12	--
		1	20/06/08	17	--
		1	24/06/08	10	--
1	27/06/08	12	--		

		1	15/07/08	14	--
		1	23/07/08	14	--
		1	30/07/08	13	--
		1	30/07/08	16	--
		1	30/08/08	19	--
		1	02/09/08	12	--
		1	04/09/08	14	--
Total		28	--	453	--
3	Media coverage	--	--	--	--
Total		--	--	--	--
4	Training for extension functionaries	1	15/10/07	20	--
		1	18/06/08 To 19/06/08	25	--
		1	28/08/08	20	--
		1	15/09/08	23	--
Total		4	--	88	--

c. Details of FLD on Enterprises

(ii) Farm Implements:

Name of the implement	Crop	No. of farmers	Area (ha.)	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demo	Local check		
Cotton Shredder	Cotton	30	30	--	--	--	--	To boost the farmers to use of crop residue as a compost for next season
Tractor mounted Power Sprayer	Diff. crops	10	10	--	--	--	--	To popularized the use of newly tractor mounted power sprayer

(iii) Livestock Enterprises: NIL

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demo	Local check		
--	--	--	--	--	--	--	--	--

(iv) Other Enterprises: NIL

Enterprise	Variety/ breed/ species/ others	No. of farmers	No. of units	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demo	Local check		
--	--	--	--	--	--	--	--	--

3.3 Achievements on Training (Including the sponsored and FLD training programmes):

A) ON Campus

Farmers and Farm women

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			M	F	T	M	F	T	M	F	T
11/10/07	Improved cultivation practices for wheat & cumin	1	14	0	14	5	0	5	19	0	19
19/11/07	Efficient water management in major Rabi crops	1	10	0	10	6	0	6	16	0	16
23/11/07	Method for dehydration of different vegetables	1	0	17	17	0	0	0	0	17	17
26/11/07	IPM in Gram	1	11	0	11	2	0	2	13	0	13
14/12/07	Govt. subsidy in drips, sprinkler and agricultural implements	1	12	0	12	5	0	5	17	0	17

17/12/07	Plant protection measures for pest and disease in cumin	1	16	0	16	0	0	0	16	0	16
19/12/07	Pure seed production technique in wheat and cumin	1	12	0	12	7	0	7	19	0	19
20/12/07	Foot and mouth disease and its control	1	18	0	18	0	0	0	18	0	18
27/12/07	Preparation and preservation of fruits and vegetables	1	0	15	15	0	0	0	0	15	15
28/01/08	Production technology of summer groundnut	1	15	0	15	7	0	7	22	0	22
27/02/08	Care and management of milch animals	1	15	0	15	1	0	1	16	0	16
01/04/08	Organic residue and farm waste management	1	15	0	15	2	0	2	17	0	17
08/04/08	Importance of IPM	1	9	0	9	2	0	2	11	0	11
15/04/08	IPM in cotton	1	25	0	25	3	0	3	28	0	28
22/04/08	Efficient use of harvested water	1	28	0	28	2	0	2	30	0	30
05/05/08	Pest management in Sesamum	1	9	0	9	0	0	0	9	0	9
13/06/08	Importance of preparing cropping scheme	1	13	0	13	5	0	5	18	0	18
18/06/0/8	Management of pest and disease of Groundnut	1	9	0	9	3	0	3	12	0	12
21/06/0/8	Importance of colostrums in calves	1	11	0	11	0	0	0	11	0	11
24/06/08	Hemorrhagic septicemia and its control	1	9	0	9	3	0	3	12	0	12
25/06/08	In-situ moisture conservation practices in dry farming	1	11	0	11	0	0	0	11	0	11
09/07/08	Use of sprouted pulses in preparation of low cost nutrition	1	16	0	16	0	0	0	16	0	16
30/07/08	Role of intercropping in rainfed area	1	12	0	12	4	0	4	16	0	16
31/07/08	Rain water management technology	1	13	0	13	3	0	3	16	0	16
31/07/08	Importance of green fodder in milk production	1	15	0	15	0	0	0	15	0	15
12/08/08	Castor production technology	1	12	0	12	4	0	4	16	0	16
25/08/08	Cause, treatment and control of bloat	1	8	0	8	4	0	4	12	0	12
27/08/08	IPM in castor	1	10	0	10	1	0	1	11	0	11
04/09/08	Pure seed production technology in sesame	1	11	0	11	3	0	3	14	0	14

06/09/08	Improved cultivation practices for vegetables includes onion & garlic	1	6	0	6	2	0	2	8	0	8
11/09/08	Production technology of arid fruits	1	6	0	6	3	0	3	9	0	9
Total		31	335	52	387	70	5	75	405	57	462

Rural Youth :

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			M	F	T	M	F	T	M	F	T
22/11/07	Selection tip while purchasing milch animals	1	14	0	14	2	0	2	16	0	16
03/09/08	Preparation of different handwork	1	0	6	6	0	5	5	0	11	11
Total		2	14	6	20	2	5	7	16	11	27

Extension Personnel:

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			M	F	T	M	F	T	M	F	T
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B) OFF Campus

Farmers and Farm women

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			M	F	T	M	F	T	M	F	T
25/10/07	Production technology of Cumin and funnel	1	11	0	11	4	0	4	15	0	15
29/10/07	Importance of mineral mixture in animal feeding	1	20	0	20	0	0	0	20	0	20
21/11/07	Plant protection measures in castor and mustard crops	1	21	0	21	2	0	2	23	0	23
21/11/07	Trouble shooting of micro irrigation system	1	19	0	19	0	0	0	19	0	19

05/12/07	Preparation and preservation of vegetable pickles.	1	0	35	35	0	0	0	0	35	35
07/12/07	Integrated weed management in major rabi field crops	1	17	0	17	2	0	2	19	0	19
12/12/07	Drip irrigation on horticulture crop	1	48	6	54	14	0	14	62	6	68
15/12/07	Control measures for pest and disease in cumin and wheat	1	23	0	23	0	0	0	23	0	23
18/12/07	Nutrition management in mother and child	1	0	22	22	0	0	0	0	22	22
18/12/07	Pure seeds production technique in cumin	1	19	0	19	1	0	1	20	0	20
19/12/07	Foot and mouth disease and its control	1	17	0	17	2	0	2	19	0	19
24/12/07	Importance of floriculture	1	17	0	17	1	0	1	18	0	18
27/12/07	Seasonal training on rabi crops	1	85	25	110	0	0	0	85	25	110
10/01/08	Efficient use of chemical pesticides	1	21	0	21	0	0	0	21	0	21
08/02/08	Technique for vermicoposting	1	13	0	13	6	0	6	19	0	19
03/03/08	Nutrition for preschool children	1	0	18	18	0	0	0	0	18	18
04/03/08	Importance of heat detection and artificial insemination	1	11	0	11	3	0	3	14	0	14
05/03/08	Awareness about extension activities of KVK	1	16	0	16	1	0	1	17	0	17
10/03/08	Formation of Kisan clubs	1	16	0	16	0	0	0	16	0	16
11/03/08	First aid treatment of important animal disease	1	17	0	17	2	0	2	19	0	19
12/03/08	Preparation and preservation of lemon	1	0	16	16	0	0	0	0	16	16
14/03/08	Unconventional animal feeds during scarcity	1	15	0	15	3	0	3	18	0	18
17/03/08	Improved nutrition through fortification of food items	1	0	21	21	0	0	0	0	21	21
25/03/08	Training on cotton crop technology	1	180	0	180	20	0	20	200	0	200

03/04/08	Soil sampling methods	1	12	0	12	1	0	1	13	0	13
9-10/4/08	Training on cotton crop	1	260	0	260	40	0	40	300	0	300
03/05/08	Nutrition deficiency in women and their control	1	0	17	17	0	5	5	0	22	22
05/05/08	Vaccination of mother and children	1	0	13	13	0	0	0	0	13	13
09/05/08	Soil sampling methods	1	12	0	12	2	0	2	14	0	14
07/06/08	Preparation of self help group	1	0	20	20	0	0	0	0	20	20
11/06/08	Production technology of cotton	1	10	0	10	2	0	2	12	0	12
20/06/08	Integrated nutrient management in major kharif field crops	1	13	0	13	4	0	4	17	0	17
23/06/08	Care and management of animals during monsoon	1	10	0	10	2	0	2	12	0	12
24/06/08	Methods of seed treatments for pest and disease management	1	10	0	10	0	0	0	10	0	10
27/06/08	Management of pest and disease of sesamum	1	11	0	11	1	0	1	12	0	12
05/07/08	Food grain storage technique	1	0	17	17	0	0	0	0	17	17
07/07/08	Preparation of decorative items from waste materials	1	0	11	11	0	8	8	0	19	19
15/07/08	Importance of thinning, gap filling and maintenance of plant population in major kharif crops	1	10	0	10	4	0	4	14	0	14
16/07/08	Farm implements and their use	1	12	0	12	6	0	6	18	0	18
16/07/08	Vaccination and deworming in animals	1	14	0	14	0	0	0	14	0	14
21/07/08	Govt. subsidy scheme in agriculture	1	15	0	15	4	0	4	19	0	19
23/07/08	IPM in Groundnut	1	11	0	11	3	0	3	14	0	14
25/07/08	IPM in Vegetables	1	11	0	11	1	0	1	12	0	12
30/07/08	Pure seed production techniques in sesame	1	11	0	11	2	0	2	13	0	13

26/08/08	Selection and maintenance of pump set	1	13	0	13	4	0	4	17	0	17
29/08/08	Different handwork stitches	1	0	17	17	0	0	0	0	17	17
30/08/08	Introduction and use of chaff cutter	1	16	0	16	2	0	2	18	0	18
30/08/08	Control measures for pest and disease of kharif pulses	1	16	0	16	3	0	3	19	0	19
02/09/08	Production technology of mustard and gram	1	5	0	5	7	0	7	12	0	12
02/09/08	Significance of medicinal and aromatic plants	1	12	0	12	3	0	3	15	0	15
04/09/08	Production technology of major arid fruit crops	1	10	0	10	0	0	0	10	0	10
05/09/08	Jetropha in waste land plantation	1	13	0	13	1	0	1	14	0	14
Total		52	1104	234	1338	142	8	150	1246	242	1488

Rural Youth :

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			M	F	T	M	F	T	M	F	T
15/11/07	Value addition in fruit crop like anola, drumstick, lemon, mango	1	16	0	16	0	0	0	16	0	16
10/01/08	Introduction to new developed farm implements and their use	1	19	0	19	0	0	0	19	0	19
17/03/08	Preparation of enrich compost	1	12	0	12	2	0	2	14	0	14
05/04/08	Selection and maintenance of pump set	1	17	0	17	0	0	0	17	0	17
11/04/08	Precautions while handling pesticides	1	16	0	16	1	0	1	17	0	17
27/06/08	Introduction of effective and improved agricultural equipments	1	17	0	17	0	0	0	17	0	17
Total		6	97	0	97	3	0	3	100	0	100

Extension Personnel :

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			M	F	T	M	F	T	M	F	T
15/10/07	Pre-seasonal training on rabi crops	1	16	0	16	4	0	4	20	0	20
18/06/08 to 19/06/08	Pre-seasonal training on kharif crops	1	25	0	25	0	0	0	25	0	25
28/08/08	Extension methods	1	20	0	20	0	0	0	20	0	20
15/09/08	Cotton production technology	1	23	0	23	0	0	0	23	0	23
Total		4	84	0	84	4	0	4	88	0	88

C) Consolidated table (ON and OFF Campus)**Farmers and Farm women**

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			M	F	T	M	F	T	M	F	T
11/10/07	Improved cultivation practices for wheat & cumin	1	14	0	14	5	0	5	19	0	19
19/11/07	Efficient water management in major Rabi crops	1	10	0	10	6	0	6	16	0	16
22/11/07	Selection tip while purchasing milch animals	1	16	0	16	1	0	1	17	0	17
23/11/07	Method for dehydration of different vegetables	1	0	17	17	0	0	0	0	17	17
26/11/07	IPM in Gram	1	11	0	11	2	0	2	13	0	13
14/12/07	Govt. subsidy in drips, sprinkler and agricultural implements	1	12	0	12	5	0	5	17	0	17
17/12/07	Plant protection measures for pest and disease in cumin	1	16	0	16	0	0	0	16	0	16
19/12/07	Pure seed production technique in wheat and cumin	1	12	0	12	7	0	7	19	0	19
20/12/07	Foot and mouth disease and its control	1	18	0	18	0	0	0	18	0	18

27/12/07	Preparation and preservation of fruits and vegetables	1	0	15	15	0	0	0	0	15	15
28/01/08	Production technology of summer groundnut	1	15	0	15	7	0	7	22	0	22
27/02/08	Care and management of milch animals	1	15	0	15	1	0	1	16	0	16
01/04/08	Organic residue and farm waste management	1	15	0	15	2	0	2	17	0	17
08/04/08	Importance of IPM	1	9	0	9	2	0	2	11	0	11
15/04/08	IPM in cotton	1	25	0	25	3	0	3	28	0	28
22/04/08	Efficient use of harvested water	1	28	0	28	2	0	2	30	0	30
05/05/08	Pest management in Sesamum	1	9	0	9	0	0	0	9	0	9
13/06/08	Importance of preparing cropping scheme	1	13	0	13	5	0	5	18	0	18
18/06/08	Management of pest and disease of Groundnut	1	9	0	9	3	0	3	12	0	12
21/06/08	Importance of colostrums in calves	1	11	0	11	0	0	0	11	0	11
24/06/08	Hemorrhagic septicemia and its control	1	9	0	9	3	0	3	12	0	12
25/06/08	In-situ moisture conservation practices in dry farming	1	11	0	11	0	0	0	11	0	11
09/07/08	Use of sprouted pulses in preparation of low cost nutrition	1	16	0	16	0	0	0	16	0	16
30/07/08	Role of intercropping in rainfed area	1	12	0	12	4	0	4	16	0	16
31/07/08	Rain water management technology	1	13	0	13	3	0	3	16	0	16
31/07/08	Importance of green fodder in milk production	1	15	0	15	0	0	0	15	0	15
12/08/08	Castor production technology	1	12	0	12	4	0	4	16	0	16
25/08/08	Cause, treatment and control of bloat	1	8	0	8	4	0	4	12	0	12
27/08/08	IPM in castor	1	10	0	10	1	0	1	11	0	11

03/09/08	Preparation of different handwork	1	0	6	6	0	5	5	0	11	11
04/09/08	Pure seed production technology in sesame	1	11	0	11	3	0	3	14	0	14
06/09/08	Improved cultivation practices for vegetables includes onion & garlic	1	6	0	6	2	0	2	8	0	8
11/09/08	Production technology of arid fruits	1	6	0	6	3	0	3	9	0	9
25/10/07	Production technology of Cumin and funnel	1	11	0	11	4	0	4	15	0	15
29/10/07	Importance of mineral mixture in animal feeding	1	20	0	20	0	0	0	20	0	20
21/11/07	Plant protection measures in castor and mustard crops	1	21	0	21	2	0	2	23	0	23
21/11/07	Trouble shooting of micro irrigation system	1	19	0	19	0	0	0	19	0	19
05/12/07	Preparation and preservation of vegetable pickles.	1	0	35	35	0	0	0	0	35	35
07/12/07	Integrated weed management in major rabi field corps	1	17	0	17	2	0	2	19	0	19
12/12/07	Drip irrigation on horticulture crop	1	48	6	54	14	0	14	62	6	68
15/12/07	Control measures for pest and disease in cumin and wheat	1	23	0	23	0	0	0	23	0	23
18/12/07	Nutrition management in mother and child	1	0	22	22	0	0	0	0	22	22
18/12/07	Pure seeds production technique in cumin	1	19	0	19	1	0	1	20	0	20
19/12/07	Foot and mouth disease and its control	1	17	0	17	2	0	2	19	0	19
24/12/07	Importance of floriculture	1	17	0	17	1	0	1	18	0	18
27/12/07	Seasonal training on rabi crops	1	85	25	110	0	0	0	85	25	110
10/01/08	Efficient use of chemical pesticides	1	21	0	21	0	0	0	21	0	21

10/01/08	Introduction to new developed farm implements and their use	1	19	0	19	0	0	0	19	0	19
08/02/08	Technique for vermicoposting	1	13	0	13	6	0	6	19	0	19
03/03/08	Nutrition for preschool children	1	0	18	18	0	0	0	0	18	18
04/03/08	Importance of heat detection and artificial insemination	1	11	0	11	3	0	3	14	0	14
05/03/08	Awareness about extension activities of KVK	1	16	0	16	1	0	1	17	0	17
10/03/08	Formation of Kisan clubs	1	16	0	16	0	0	0	16	0	16
11/03/08	First aid treatment of important animal disease	1	17	0	17	2	0	2	19	0	19
12/03/08	Preparation and preservation of lemon	1	0	16	16	0	0	0	0	16	16
14/03/08	Unconventional animal feeds during scarcity	1	15	0	15	3	0	3	18	0	18
17/03/08	Preparation of enrich compost	1	12	0	12	2	0	2	14	0	14
17/03/08	Improved nutrition through fortification of food items	1	0	21	21	0	0	0	0	21	21
25/03/08	Training on cotton crop technology	1	180	0	180	20	0	20	200	0	200
03/04/08	Soil sampling methods	1	12	0	12	1	0	1	13	0	13
05/04/08	Selection and maintenance of pump set	1	17	0	17	0	0	0	17	0	17
9-10/4/08	Training on cotton crop	1	260	0	260	40	0	40	300	0	300
11/04/08	Precautions while handling pesticides	1	14	0	14	2	0	2	16	0	16
03/05/08	Nutrition deficiency in women and their control	1	0	17	17	0	5	5	0	22	22
05/05/08	Vaccination of mother and children	1	0	13	13	0	0	0	0	13	13
09/05/08	Soil sampling methods	1	12	0	12	2	0	2	14	0	14
07/06/08	Preparation of self help group	1	0	20	20	0	0	0	0	20	20
11/06/08	Production technology of cotton	1	10	0	10	2	0	2	12	0	12

20/06/08	Integrated nutrient management in major kharif field crops	1	13	0	13	4	0	4	17	0	17
23/06/08	Care and management of animals during monsoon	1	10	0	10	2	0	2	12	0	12
24/06/08	Methods of seed treatments for pest and disease management	1	10	0	10	0	0	0	10	0	10
27/06/08	Management of pest and disease of sesamum	1	11	0	11	1	0	1	12	0	12
27/06/08	Introduction of effective and improved agricultural equipments	1	17	0	17	0	0	0	17	0	17
05/07/08	Food grain storage technique	1	0	17	17	0	0	0	0	17	17
07/07/08	Preparation of decorative items from waste materials	1	0	11	11	0	8	8	0	19	19
15/07/08	Importance of thinning, gap filling and maintenance of plant population in major kharif crops	1	10	0	10	4	0	4	14	0	14
16/07/08	Farm implements and their use	1	12	0	12	6	0	6	18	0	18
16/07/08	Vaccination and deworming in animals	1	14	0	14	0	0	0	14	0	14
21/07/08	Govt. subsidy scheme in agriculture	1	15	0	15	4	0	4	19	0	19
23/07/08	IPM in Groundnut	1	11	0	11	3	0	3	14	0	14
25/07/08	IPM in Vegetables	1	11	0	11	1	0	1	12	0	12
30/07/08	Pure seed production techniques in sesame	1	11	0	11	2	0	2	13	0	13
26/08/08	Selection and maintenance of pump set	1	13	0	13	4	0	4	17	0	17
29/08/08	Different handwork stitches	1	0	17	17	0	0	0	0	17	17
30/08/08	Introduction and use of chaff cutter	1	16	0	16	2	0	2	18	0	18

30/08/08	Control measures for pest and disease of kharif pulses	1	16	0	16	3	0	3	19	0	19
02/09/08	Production technology of mustard and gram	1	5	0	5	7	0	7	12	0	12
02/09/08	Significance of medicinal and aromatic plants	1	12	0	12	3	0	3	15	0	15
04/09/08	Production technology of major arid fruit crops	1	10	0	10	0	0	0	10	0	10
05/09/08	Jetropha in waste land plantation	1	13	0	13	1	0	1	14	0	14
Total		83	1439	286	1725	212	13	225	1651	299	1950

Rural Youth :

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			M	F	T	M	F	T	M	F	T
15/11/07	Value addition in fruit crop like anola, drumstick, lemon, mango	1	16	0	16	0	0	0	16	0	16
22/11/07	Selection tip while purchasing milch animals	1	16	0	16	1	0	1	17	0	17
10/01/08	Introduction to new developed farm implements and their use	1	19	0	19	0	0	0	19	0	19
17/03/08	Preparation of enrich compost	1	12	0	12	2	0	2	14	0	14
05/04/08	Selection and maintenance of pump set	1	17	0	17	0	0	0	17	0	17
11/04/08	Precautions while handling pesticides	1	14	0	14	2	0	2	16	0	16
27/06/08	Introduction of effective and improved agricultural equipments	1	17	0	17	0	0	0	17	0	17
03/09/08	Preparation of different handwork	1	0	6	6	0	5	5	0	11	11
Total		8	111	6	117	5	5	10	116	11	127

Extension Personnel :

Date	Title of the training programme	Duration in days	Number of participants (General)			Number of SC/ST			Total number of participants		
			M	F	T	M	F	T	M	F	T
15/10/07	Pre-seasonal training on rabi crops	1	16	0	16	4	0	4	20	0	20
18/06/08 to 19/06/08	Pre-seasonal training on kharif crops	1	25	0	25	0	0	0	25	0	25
28/08/08	Extension methods	1	20	0	20	0	0	0	20	0	20
15/09/08	Cotton production technology	1	23	0	23	0	0	0	23	0	23
Total		4	84	0	84	4	0	4	88	0	88

D) Vocational training programmes for Rural Youth:

Crop/ Enterprise	Identified Thrust area	Training title	No. of courses	Duration	No. of Participants General			No. of Participants SC/ST			No. of Participants Total			Number of Persons employed elsewhere
					M	F	T	M	F	T	M	F	T	
Bakery	Income generation	Production of bakery products	1	02	--	20	20	--	9	9	--	29	29	--
Agronomy	Organic fertilizer	Preparation of vermicopost	1	01	20	0	20	8	0	8	28	0	28	-
Total			2	03	20	20	40	8	9	17	28	29	57	-

E) Sponsored Training Programmes**Farmers :**

Sr. No	Title	Thematic area	Month	Duration (days)	Client PF/RY/EF	No. of courses	No. of Participants						Sponsoring Agency	
							Male		Female		Total			
							Others	SC/ST	Others	SC/ST	Others	SC/ST		Total
1	Drip irrigation on horticultural crop	Drip irrigation	Dec.-07	1	PF	1	62	-	6	-	68	-	68	AKRSP, Sayla
2	Seasonal training on rabi crops	Rabi crops	Dec.-07	1	PF	1	85	-	25	-	110	-	110	Hort. Deptt., Surendra nagar
3	Training on cotton crop technology	Crop technology	March-08	1	PF	1	180	20	-	-	180	20	200	GNFC, Surendra nagar
4	Training of cotton crop	Crop technology	April-08	1	PF	1	260	40	-	-	260	40	300	AKRSP, Chotila
Total				4	-	4	587	60	31	-	618	60	678	--

Rural Youths :

Sr. No	Title	Thematic area	Month	Duration (days)	Client PF/RY/EF	No. of courses	No. of Participants						Sponsoring Agency	
							Male		Female		Total			
							Others	SC/ST	Others	SC/ST	Others	SC/ST		Total
1	Value addition in fruit crop like drumstick, lemon, mango	Value addition	Nov.-07	1	PF	1	16	-	-	-	16	-	16	AKRSP, Chotila
Total				1	-	1	16	-	-	-	16	-	16	--

Extension Personnel :

Sr. No	Title	Thematic area	Month	Duration (days)	Client PF/RY/EF	No. of courses	No. of Participants						Sponsoring Agency	
							Male		Female		Total			
							Others	SC/ST	Others	SC/ST	Others	SC/ST		Total
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3.4. Extension Programmes (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		M	F	T	M	F	T	M	F	T
Field Day	10	179	-	179	-	-	-	179	-	179
Kisan Mela	-	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	8	124	25	149	-	-	-	124	25	149
Exhibition (Tarnetar mela)	1	-	-	-	10	-	10	About 50,000		
Film Show	1	0	17	17	-	-	-	0	17	17
Method Demonstrations	-	-	-	-	-	-	-	-	-	-
Farmers Meeting	4	55	37	92	-	-	-	55	37	92
Workshop	3	-	-	-	-	-	-	-	-	-
Group meetings	10	72	-	72	-	-	-	72	-	72
Lectures delivered as resource persons	1	52	119	171	-	-	-	52	119	171
Newspaper coverage	15	-	-	-	-	-	-	-	-	-
Radio talks	3	-	-	-	-	-	-	-	-	-
TV talks	3	-	-	-	-	-	-	-	-	-
Popular articles	-	-	-	-	-	-	-	-	-	-
Extension Literature	2	-	-	-	-	-	-	-	-	-
Advisory Services	124	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	53	-	-	-	-	-	-	-	-	-
Farmers visit to KVK	524	524	0	524	-	-	-	524	0	524
Diagnostic visits	37	-	-	-	-	-	-	-	-	-
Soil health camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	4	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (women day)	1	-	-	-	-	-	-	-	-	-
Total	-	1006	198	1204	10	-	10	1016	198	51214

3.5 Production and supply of Technological products

SEED MATERIALS:

	Crop	Variety	Quantity (Kg)	Value (Rs)	Provided to no of farmers
1	G'nut	GG-20	1500	4237	-
2	G'nut	GG-2	2590	142450	-
3	Cotton	Bt.	1201	26485	-
4	Sesamum	Guj-2	525	57750	-
5	Sesamum	Guj-2	261	12280	-
6	Black gram	T-9	962	13468	-
7	Sorghum	Local	300	1500	-
8	Wheat	GW-366	3745	--	-
9	Cumin	Guj.-4	198	--	-
10	G'nut	GG-2	Crop standing condition		
11	G'nut	GG-20			
12	Blackgram	T-9			
13	Muth	Guj-2			
14	Cotton	Bt			
15	Castor	JI-96			
16	Pegeonpea	BDN-2			

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

(A) KVK News Letter: nil

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	Heterosis in Sesame (<i>Sesamum indicum L.</i>)	R.M. Javia; H.M. Pandya & H.L. Dhaduk	1
	Genetic diversify in macroni wheat (<i>Triticum durum Dest</i>)	K.H.Ribadia <i>et al</i>	1
	Combining ability through line x tester analysis in macroni wheat (<i>Triticum durum Dest</i>)	K.H.Ribadia <i>et al.</i>	1

Extension literature	Surendranagar jilla nu krushi mandir	Dr. R.M.Javia Dr.B.B.Kabariya	1000
	Kapas ma jivato tatha rogoni niyantran vyavastha	Mr.A.M.Bhradiya, Dr. R.M.Javia	1000
	Vadhu dudh utpadan kem medavaso?	Dr.M.M.Tajapara, Dr. R.M.Javia	1000
	Khedut mahilao mate poshan xamya aahar	Ms. B.M.Bhalala, Dr. R.M.Javia	1000
	Suki khetima vadhare pak utpadan kevi rite medavaso?	Mr.H.M.Bhuva, Dr. R.M.Javia	1000
	Jad sangrahni vividh paddhatio	Mr. G.V.Prajapati, Dr. R.M.Javia	1000
	Pandurog-Gramya mahila o ma jova malto samanya rog	Ms. B.M. Bhalala, Ms. H.A. Manavar Dr. B.B. Kabaria	250
	Khadyapadarth ma belse	Ms. B.M. Bhalala, Ms. H.A. Manavar Dr. B.B. Kabaria	250
TOTAL	8		6500

(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

1) Adaptation of new high yielding variety of wheat

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

Wheat is the staple food grain for Gujarat. It is monocot self pollinated crop grown during the rabi season. *Triticum aestivum* is grown as bread wheat in Gujarat. For the increasing population it is essential to grow more food grains to meet the requirement of the growing population. But land is a limiting factor hence it's productivity will be depends on high

yielding varieties. The average productivity of wheat in Gujarat state is very low and also in the district. In Surendranagar district wheat is grown in 23900 ha area with average productivity is 2200 Kg/ha. The productivity of wheat can be enhance by using recently release GW-366 variety so FLD conducted on this particular technology.

Shri Bhagvanbhai Arjanbhai Lakum is a small farmer of the Doliya village of Sayala Taluka, his name comes in the category of progressive farmer of the village. He grows mostly wheat in rabi season taking old one variety like GW-496/Loc-1 etc. A FLD of wheat variety GW-366 was conducted on his field during year-2007-08 against the local check GW-496. The new variety GW-366 shows better yield as compared to GW-496, he told approximately 10 % yield was increase due to adoption of this variety.

IMPACT: Due to 10 % increase in yield by adopting GW-366 variety over GW-496. The economic gain automatically seen by the result as well as by the farmer responses. The farmer further told during the discussion during the field day with KVK staff and other farmers, that it is a bold seeded variety and backing quality also very good, hence the farmer said that an average almost farmers seen the crop and demanding the seed of this variety. KVK staff encourages him to keep the seed of this variety for distribution among the other farmers of village.

2) Adaptation of disease resistance variety of cumin

1. Name of farmer : Jethabhai Jerambhai Zala
2. Name of village : Vijadiya (Chotila)
3. District : Surendranagar

The area of cumin in the district increasing recently, since two to three year. The climate and high remunerative price is also suitable to the crop. Cumin is winter season crop. The RH remains higher during the growing season which favored the cumin disease like blight, wilt and powdery mildew. Recently, Guj. Cumin-4 variety has been found resistant against wilt and therefore it is recommended for the cultivation.

Shri Jethabhai is progressive farmer of Vijadiya village. He grows cumin since the five years. Mostly he used the local available seed before the contact of KVK. Due to the high infestation of disease the cost of cultivation becomes very high. He comes with contact with KVK and one FLD conducted at his field during year-2006-07. The Guj.Cumin-4 performed better yield and shows higher disease resistance as compared to local variety. He again ask to provide the seed of Guj.cumin-4 variety during year 2007-08 and an FLD is also conducted at his farm to follow up the programme.

IMPACT : The yield data of two consecutive year i.e. 2006-07 & 2007-08 the Guj.cumin-4 performed higher yield over the local variety. The average yield was enhancing approximately 10 % over the local variety, the yield of new variety demonstrated automatically shows the economic gain of the farmer. During the field day and various training programmes the farmer told to other farmers of the village about the advantages of the Guj.cumin-4 variety that it is a wilt resistance and higher yielder than local variety. It results that almost the all farmers of the village were aware about this variety and villagers were agree to grow it in coming year.

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

1. Method of sowing (**Row sowing of cumin**):

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 Dr. R. M. Javia, 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 *Trichoderma harzianum* against stem rot disease of groundnut.
3. Cotton Stalk Shredder
4. Cotton Stalk Puller
5. Tractor mounted sprayer
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 powder 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 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 : Not Established
1. Year of establishment : Not Established
 2. List of equipments purchased with amount : --

Sr. No.	Name of the Equipment	Qty.	Cost
--	--	--	--

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Guj.Cumin-4	40	5	48000	53500
Use of Trichoderma in groundnut	25	32	28400	33200

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 & Krushi Mahotsav-2007	14	1500	--
		GG-20 (G'nut)				
		Guj.Musrard-2 (Mustard)				
		Guj. Gram-2 (Gram)				
		Guj.Cumin-4 (Cumin)				
GW – 322 & 496 (Wheat)						
2	Animal husbandry	Vaccination	Night meeting, training, treatment camp	4	--	--

4.3 Details of impact analysis of KVK activities carried out during the reporting period: Under progress

5. LINKAGES

5.1 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	
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.)
--	--	--	--

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district: No

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

5.4 Give details of programmes implemented under National Horticultural Mission:

Sr. No.	Programme	Nature of linkage	Constraints if any
1	District level seminar on vegetable cultivation	Lecture delivered by scientists	--

5.5 Nature of linkage with National Fisheries Development Board:

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

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

	Name of crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs)	
					Variety	Type of produce	Quantity (Kg)	Cost of inputs	Gross income
1	Ghut	05-06-07	27-11-07	0.20	GG-20	General	1500	1600	4237
2	Ghut	06-07-07	28-11-07	6.00	GG-2	Breeder	2590	70500	142450
3	Cotton	19-06-07	Different picking	1.34	Bt	General	1201	12200	26485
4	Sesamum	06-07-07	6-11-07	1.00	Guj-2	Breeder	525	27000	57750
5	Sesamum	07-07-07	30-11-07	0.57	Guj-2	General	261	8000	12280
6	Black gram	08-07-07	10-10-07	2.00	T-9	General	962	6500	13468
7	Sorghum	01-08-07	21-12-07	0.45	Local	General	300	600	1500
8	Wheat	21-11-07	15-03-08	2.00	GW-366	General	3745	--	--
9	Cumin	17-11-07	05-03-08	0.40	Guj-4	General	198	--	--
10	Ghut	13-06-08 to 03-07-08	--	6.00	GG-2	Breeder	Crop standing condition		
11	Ghut	12-06-08	--	2.07	GG-20	General			
12	Blackgram	03-07-08	--	1.40	T-9	General			
13	Muth	04-07-08	--	0.40	Guj-2	General			
14	Cotton	16-06-08	--	1.61	Bt	General			
15	Castor	02-08-08	--	0.25	JI-96	Nucleus			
16	Pegeonpea	04-06-08	--	0.30	BDN-2	General			

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

Sr. No.	Name of the product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Vermicompost	100 Kg	200	--	Use at KVK farm

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

6.5 Utilization of hostel facilities: Under construction

Accommodation available (No. of beds): Under construction

6.6 Details on rain water harvesting structure and micro-irrigation system

Amount saction (Rs.)	Expenditure (Rs.)	Details of infrastructure created/micro irrigation system etc	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated/tilization pattern
			No. of Training programme	No. of demo.	No. of plant material produced	Visit by farmers (No.)	Visit by officials (No.)		
988000	743000	Drip irrigation in Cotton, Sprinkler and mini sprinkler system in Groundnut and water storage structure	11	3	--	524	20	1350	Life saving irrigation

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 funds under FLD on Oilseed (Rs. In Lakhs)

2007-08	Grant Sanctioned by ZC (ICAR),		Grant Released by host institute		Expenditure by KVK		Unspent Balance as on 1 st april
	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	
Oil seed							
Inputs	21000	17500	40300		2750		37550
Ext activities	3000	2500					
TA/DA/POL	3000	2500					
5 % SAU/DEE	1500	1250					
Total	28500	23750	40300		2750		37550

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

2007-08	Grant Sanctioned by ZC (ICAR),		Grant Released by host institute		Expenditure by KVK		Unspent Balance as on 1 st april
	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	
Pulses							
Inputs	18200	32550	32955		17386		15569
Ext activities	2600	4650					
TA/DA/POL	2600	4650					
5 % SAU/DEE	1300	2325					
Total	24700	44175	32955		17386		15569

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

2007-08	Grant Sanctioned by ZC (ICAR),	Grant Released by host institute	Expenditure by KVK	Unspent Balance as on 1 st april
Inputs	50000	140000	--	140000
Farm implements	100000			
Total	150000	140000	--	140000

7.5 Utilization of KVK funds during the year 2007 -08

	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	29,00,000	29,00,000	25,13,300
2	Traveling allowances	1,00,000	1,00,000	61,046
3	Contingencies	4,00,000	4,00,000	3,95,951
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	95,000	95,000	83,966
B	POL, repair of vehicles, tractor and equipments	45,000	45,000	85,252
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	55,000	55,000	19,252
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	65,000	65,000	71,311
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	70,000	70,000	33,055
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	40,000	40,000	68,519
G	Training of extension functionaries	30,000	30,000	34,596
H	Maintenance of buildings	--	--	--
I	Establishment of Soil, Plant & Water Testing Laboratory	--	--	--
J	Library	--	--	--
TOTAL (A)		34,00,000	34,00,000	29,70,297
1	Works	10,21,000	10,21,000	10,21,000
2	Equipments including SWTL & Furniture	6,96,000	6,96,000	6,96,000
3	Vehicle	11,97,000	11,97,000	11,97,000
4	Library	6,00,000	6,00,000	6,00,000
TOTAL (B)		34,94,000	34,94,000	34,94,000
(C) Rain water harvesting structure		--	--	--
GRAND TOTAL (A+B+C)		68,94,000	68,94,000	68,94,000

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

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