

# ANNUAL PROGRESS REPORT OF KVK NANA-KANDHASAR (APRIL-09 TO MARCH-10)

## 1. GENERAL INFORMATION ABOUT THE KVK:

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

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

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 15<sup>th</sup> June, 2010)

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

\* 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	2006-07	4,86,500	25873	Transferred to DEE office, JAU, Junagadh
Jeep M&M Pizot*	1991	2,03,967*	51236	Not in working condition

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

## C) Equipments &amp; 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 2009-10 :

Sr. No.	Date	Name and designation of Participants	Salient Recommendations	Action taken
1	16/09/2009	Dr. N. C. Patel Hon. Vice Chancellor, JAU, Junagadh	1. Judicious use of weedicides in field Crops  2. Report should be reach to apex body in an advance week	Suggestion accepted. Training included in 3rd qtr -on campus  Suggestion accepted
Dr. R.L. Savaliya DEE, JAU, Junagadh				
Dr. I. U. Dhruj ADR, JAU, Junagadh				
Dr. M. K. Khistaria I/C, A.D.R.& RS (DF), JAU, Junagadh				

2	16/09/2009	Shri L. B. Shekhda Manager, SBI – Rajkot	1. Selection of milch animal and culling of unproductive animals.	Suggestion accepted. Training included in 2nd qtr -off campus
Shri D. M. Bhagium Dept Direc of Hort, Surendranagar		2. FLD should be conducted on deworming of animal.	Suggestion accepted.	
Shri J. H. Patel Asstt. Direc (Soil Conse) G.L.D.C. -Surendranagar				
3	16/09/2009	Shri H. N. Bhatt (Rep) Deputy conservator of forest (EXT) , Surendranagar	Make SHG and trained them on income generating activities	Suggestion accepted. Training included in 2nd qtr -on campus
Shri. Mahesh R. Patel (Representative) A.K.R.S.P.(1), Sayla, Surendranagar				
Dr. B.B.Kabariya TO, KVK, Traghadiya				
Shri R.V. Bhadania Progressive farmer				
Mrs. Gangaben Premjibhai Bavariya Progressive Farm Woman,				
4	16/09/2009	Shri B.V. Daslaniya Prog. Executive, All India Radio, Akashvani, Rajkot	Malnutrition in children and women.	Suggestion accepted. Training included in 3rd qtr -off campus
Shri S. R. Patel (Rep.) DAO Officer, S'nagar				
Dr.D.S. Kelaiya (Rep) ADE, JAU, Junagadh				
5	16/09/2009	Dr. M. S. Gajera Res Scientist (Agro.) JAU, Targhadia	Demonstration should be organized cotton + Soya bean intercropping	Suggestion accepted
Dr. K. N. Akabari Res Scientist (Soil) JAU, Targhadia				
N.S. Sanghani Progressive farmer				
V.P. Maheta Progressive farmer				
Valubhai Papatbhai Progressive farmer				
Shri C.V. Bhorania Progressive farmer				

## **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
<b>PROFILE OF THE NORTH SAURASTRA AGRO - CLIMATIC ZONE VI - GUJARAT</b>	
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
Kharif 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 cropped 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	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)	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 ° C		Relative Humidity (%)
			Max.	Min.	
April -09	-	-	42.40	20.20	32
May-09	-	-	42.20	22.60	50
June-09	17.5	05	40.60	24.50	60
July-09	125.5	12	38.00	23.10	77
August-09	67.5	4	34.70	23.00	72
September-09	2	1	33.60	22.40	69
October-09	--	--	37.10	20.10	58
November-09	--	--	36.20	15.20	33
December-09	--	--	30.90	14.40	40
January-10	--	--	30.20	10.90	41
February-10	--	--	35.50	13.10	40
March-10	--	--	40.90	19.30	36

## 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 (2009-10)

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 Dairy 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 Dairy Farming,	Dry farming, HS disease	Dry farming technology Awareness for vaccination & artificial insemination of animals
			Lakhanka	Bajra, Cotton, Cumin, Groundnut, Sesame, pulses, Dairy 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

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, 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
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

<b>Crop/ Enterprise</b>	<b>Thrust area</b>
Cotton, Sesamum, Groundnut, Bajra	Dry farming technologies.
Animal Husbandry	Awareness for vaccination & artificial insemination of animals
Crop Management	Adoption of organic farming, Bio-fertilizers & Vermicompost.
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 2009-10

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		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
3	3	9	9	82 ha	82 ha	174	174	
Other OFT				Other FLD				
2	2	33	33	1	1	20	20	
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		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
83	88	--	1794	15	15	-	-	
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	975	Farm use	--	--	--
	G'nut	GG-20	General	330	Farm use	--	--	--
	Sesame	Guj.Til-3	General	235	235	23500	--	--
	Wheat	GW-496	General	2433	--	--	--	--
	Cumin	Guj.-4	General	234	--	--	--	--

### 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	--	Groundnut	Low yield	--	Varietal evaluation	Production technology of cotton & groundnut Pure seed production technique in sesame and groundnut IPM in groundnut	1. Preseasonal training on kharif crops 2. Cotton production technology 3. Oilseed crops production technology	Filed Day - 19	FLD : Seed inputs : GG-20 Insecticide : Mancozeb 75 WP
2	--	Sesamum	Low yield	Effect of Supplementary Irrigation On yield of sesamum	Varietal evaluation	Pure seed production technique in sesame and groundnut Economic use of fertilizers in major kharif field crops Management of pest & disease of sesame Importance of thinning, gap filling and maintenance of plant population in major kharif crops			FLD : Seed inputs : Guj.Sesamum-2 Insecticide : Endosulphan 35 % EC  OFT : Endosulphan 35 %

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1	2	3	4	5	6	7	8	9	10
3	--	Green Gram	Low yield	--	Varietal evaluation	Economic use of fertilizers in major kharif field crops Control measures for pest and disease of kharif pulses	--"	--"	FLD : Seed inputs : Guj.Greengram-4 Insecticide : Endosulphan 35 % EC
4	--	Muth	Low yield	--	Varietal evaluation	Economic use of fertilizers in major kharif field crops Control measures for pest and disease of kharif pulses			FLD : Insecticide : Endosulphan 35 % EC
5	--	Cotton (CMM-II)	Low yield	Management of sucking pests in Cotton	Varietal evaluation	Importance of IPM Production technology of cotton & groundnut IPM in Cotton Importance of thinning, gap filling and maintenance of plant population in major kharif crops Efficient use of chemical pesticides			FLD : Fertilizer : MgSo4 Nutrisol (13:0:45) Nutrisol (19:19:19) Insecticide : Biosoft (Biopesticide) Gronim (10000 ppm) Gronim (1500 ppm) Larvin Avant Imidachloprid 17.8 % Thiomethoxan 25 % Acetamaprid 20 % OFT : Thiomethoxan 25 % Imidachloprid 17.8 % Acetamaprid 20 % Dimethoate 30 % Methyl-o-demetone 25 %
6	--	Bio-agent	Heavy infestation	Application of Trichoderma against stem rot Disease in g'nut	Yield evaluation	Importance of IPM IPM in g'nut			FLD : Bio-agent : <i>Trichoderma harzianum</i> Culture OFT : <i>Trichoderma harzianum</i> Culture Castor cake

Cont...

1	2	3	4	5	6	7	8	9	10
7	--	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	--"	--"	Seed input : Guj-Mustard-3 Insecticide : Quinalphos 25 % Sulphur 80 WP Stomp
8	-	Gram	Low yield	--	Varietal evaluation	Importance of IPM Integrated weed management in major rabi field crops			Seed input : Guj.Gram-3 Insecticide : Phosphamidon 40 EC Endosulphan 35 % EC
9	-	Cumin	Low yield	--	Varietal evaluation	Improved cultivation practices in wheat & cumin Plant protection measures for pest and disease in cumin Integrated weed management in major rabi field crops Control measures for pest and disease in cumin & wheat			Seed input : Guj.Cumin-4 Fungicide : Mancozeb 75 WP Hexaconazol 5 %
10	-	Wheat	Low yield	--	Varietal evaluation	Improved cultivation practices in wheat & cumin Integrated weed management in major rabi field crops Control measures for pest and disease in cumin & wheat			Seed input : GW-366 Insecticide : Endosulphan 35 % Imidachloprid 17.8 %



### 3.1. Achievements on technologies assessed and refined

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

<b>Thematic areas</b>	<b>Cereals</b>	<b>Oilseeds</b>	<b>Pulses</b>	<b>Commercial Crops</b>	<b>TOTAL</b>
Varietals Evaluation	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
Weed Management	-	-	-	-	-
Integrated Crop Management	-	1	-	-	<b>1</b>
Integrated Nutrient Management	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
Drudgery reduction	-	-	-	-	-
Farm machineries	-	-	-	-	-
Value addition	-	-	-	-	-
Integrated Pest Management	-	-	-	1	<b>1</b>
Integrated Disease Management	-	1	-	-	<b>1</b>
Resource conservation technology	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-
<b>TOTAL</b>	--	<b>2</b>	--	<b>1</b>	<b>3</b>

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

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

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

### 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**

**A. Technology Assessment**

**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*
4. Source of technology  
*\*Junagadh Agricultural University, Junagadh.*
5. Production system and thematic area  
*\*Package of practices*
6. Thematic area  
*\* Integrated disease management*
7. Performance of the Technology with performance indicators  
*\*Result is in Table -A*
8. Final recommendation for micro level situation  
*\* Mixing Trichoderma @ 2.5 Kg /ha with castor cake @ 500 Kg/ha at the time of sowing.*
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/ enterpris	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
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)
<b>Results of assessment</b>				<b>Feedback from the farmer</b>			
<b>9</b>				<b>10</b>			
<b>Av. Yield (qt/ha)</b>				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			
<b>T-1</b>	<b>T-2</b>	<b>T-3</b>					
10.30	12.20	10.95					
<b>Technology Assessed / Refined</b>	<b>*Production per unit</b>	<b>Net Return (Profit) in Rs. / unit</b>	<b>BC Ratio</b>				
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>				
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				
<b>Pooled data for three years result</b>							
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				
<b>Final Recommendation from micro level situation : Mixing Trichoderma @ 2.5 Kg /ha with castor cake @ 500 Kg/ha at the time of sowing.</b>							

## **Trial 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. Thematic area  
\*Integrated pest management
7. Performance of the Technology with performance indicators  
\* Result is in Table -B
8. Final recommendation for micro level situation:  
\* Alternate treatment one and two
9. Constraints identified and feedback for research : NIL
10. Process of farmers participation and their reaction  
\* Result is in Table -B

## 11. Result of On Farm Trial

Table – B

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		
Cotton	Irigated	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)		
<b>Results of assessment</b>				<b>Feedback from the farmer</b>					
<b>9</b>				<b>10</b>					
<b>Av. Yield (qt/ha)</b>				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					
<b>T-1</b>		<b>T-2</b>						<b>T-3</b>	
17.50		18.10						19.50	
<b>Technology Assessed / Refined</b>		<b>*Production per unit</b>		<b>Net Return (Profit) in Rs. / unit</b>		<b>BC Ratio</b>			
<b>11</b>		<b>12</b>		<b>13</b>		<b>14</b>			
Farmer's practice (T-1)		17.50		37950		1:1.92			
Recommended (T-2)		18.10		41030		1:2.19			
Modified (T-3)		19.50		44150		1:2.19			
<b>Pooled data for three years result</b>									
Farmer's practice (T-1)		16.64		31308		1:1.58			
Recommended (T-2)		17.00		33570		1:1.80			
Modified (T-3)		18.02		35225		1:1.75			

**Final Recommendation from micro level situatin :** Alternate treatment one and two

### **Trial 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. Thematic area  
\*Integrated crop management
7. Performance of the Technology with performance indicators  
\* Result is in Table -C
8. Final recommendation for micro level situation:  
\* Two irrigation at 50% flowering & capsule development stage.
9. Constraints identified and feedback for research : NIL
10. Process of farmers participation and their reaction  
\* Result is in Table -C

## 11. Result of On Farm Trial

Table - C

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
Sesamun	Irrigated	Time of Irrigation	Effect of Supplementary Irrigation On yield of sesamun	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)
<b>Results of assessment</b>				<b>Feedback from the farmer</b>			
<b>9</b>				<b>10</b>			
<b>Av. Yield (qt/ha)</b>				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			
<b>T-1</b>	<b>T-2</b>	<b>T-3</b>					
4.75	5.62	5.38					
<b>Technology Assessed / Refined</b>	<b>*Production per unit</b>	<b>Net Return (Profit) in Rs. / unit</b>	<b>BC Ratio</b>				
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>				
Farmer's practice (T-1)	4.75	16150	1:1.42				
Recommended (T-2)	5.62	19996	1:1.59				
Modified (T-3)	5.38	19204	1:1.60				
<b>Polled data for three years results</b>							
Farmer's practice (T-1)	4.89	18010	1:1.63				
Recommended (T-2)	5.67	21432	1:1.75				



Modified (T-3)	5.49	20968	1:1.80
<b>Final Recommendation from micro level situation</b> : Two irrigation at 50% flowering & capsule development stage.			

#### **Trial 4**

1. Title of Technology assessed / Refined :
  - \* **Reduction of Intercalving period in Buffalo**
2. Problem Definition
  - \*Long Intercalving period
3. Details of technologies selected for assessment/refinement
  - \*T1- Farmer's practice
  - \*T2- Panacure (1.5 gm) + Vetcominforme (1 Kg)
  - \*T3- Bioheat (1 No.) + Vetcominforme (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 -D

## 11. Result of On Farm Trial

Table – D

Crop/ enterpri	Farming situation	Problem Diagnosee	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)
<b>Results of assessment</b>							
St.No.	Parameters	T-1 (Control)	T-2	T-3	T-4		
1	Calving date	May-09	May-09	May-09	May-09		
2	Postpartum heat	Jan-10 – March-10	Oct-09 – Nov-09	Aug-09 – Sept-09	Sept-09 – Oct-09		
3	Month duration	8-10 Months	5-6 Months	3-4 Months	4-5 Months		
4	Net return (Profit) (Rs./lactation)	Experiment to be continue					

## **Trial 5**

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/enterprise	Farming situation	Problem Diagnose	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter				
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		
			Indicator 1	Indicator 2	Indicator 3	Indicator 1	Indicator 2	Indicator 3	Indicator 1	Indicator 2	Indicator 3
1	Ganapat Vajubhai 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 Bharatbhai Panchal	Dhedhuki	-	-	-	1.0	0.4	1	-	-	-
5	Yuvraj Vashrambhai Chauhan	Dhedhuki	-	-	-	2.0	0.2	1	-	-	-
6	Darshan Bharatbhai 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	-	-	-	-	-	-
	<b>Total</b>	--	<b>2.25</b>	<b>0.6</b>	<b>4</b>	<b>3.5</b>	<b>0.7</b>	<b>5</b>	<b>4</b>	<b>0.8</b>	<b>7</b>

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

## B. Technology Refinement : NIL

### 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 2009-10 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)	FLD, Field Day & Training	14	1500	--
2		Guj.Til-2 (Sesame)				
3		Guj.Greengram-4 (Green gram)				
4		Guj. Muth-2 (Muth)				
5		Bt Cotton varieties (CMM-II)				
6		Trichoderma culture (Bio-agent)				
7		Guj.Musrard-3 (Mustard)				
8		Guj. Gram-3 (Gram)				
9		Guj.Cumin-4 (Cumin)				
10		GW – 366 (Wheat)				

#### b. Details of FLDs implemented during 2009-10

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	Package of practices	Varietal evaluation, recommended package of practices	Kharif 09-10	10.0	10.0	4/0	16	20	--
2	Sesame			Kharif 09-10	5.0	5.0	1/0	9	10	--
3	Green Gram			Kharif 09-10	5.0	5.0	3/0	7	10	--
4	Muth			Kharif 09-10	5.0	5.0	3/0	7	10	--
5	Cotton			Kharif 09-10	20.0	20.0	9/0	41	50	--
6	Bio-agent			Kharif 09-10	2.0	2.0	1/0	3	04	--
7	Mustard			Rabi 09-10	10.0	10.0	3/0	17	20	--
8	Gram			Rabi 09-10	10.0	10.0	4/0	16	20	--

9	Cumin			Rabi 09-10	5.0	5.0	1/0	9	10	--
10	Wheat			Rabi 09-10	10.0	10.0	4/0	16	20	--

### 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	Kharij 09-10	Irrigated	Medium black	L	M	H	Cotton	11/7/09	12/11/09	212	--
		Irrigated	--"	L	M	H	Cotton	13/7/09	14/11/09	212	--
		Irrigated	--"	L	M	H	Jawar	04/7/09	6/11/09	212	--
		Irrigated	--"	L	M	H	Mothbean	16/7/09	13/11/09	212	--
		Irrigated	--"	L	M	H	Bajara	13/7/09	12/11/09	212	--
		Irrigated	--"	L	M	H	Sesame	15/7/09	16/11/09	212	--
		Irrigated	--"	L	M	H	Cotton	12/7/09	15/11/09	212	--
		Irrigated	--"	L	M	H	Wheat	14/7/09	15/11/09	212	--
		Irrigated	--"	L	M	H	Gram	18/7/09	10/11/09	212	--
		Irrigated	--"	L	M	H	Vgetable	18/7/09	20/11/09	212	--
		Irrigated	--"	L	M	H	Wheat	10/7/09	12/11/09	212	--
		Irrigated	--"	L	M	H	Cumin	12/7/09	10/11/09	212	--
		Irrigated	--"	L	M	H	Cotton	17/7/09	15/11/09	212	--
		Irrigated	--"	L	M	H	Cotton	14/7/09	16/11/09	212	--
		Irrigated	--"	L	M	H	Wheat	13/7/09	13/11/09	212	--
		Irrigated	--"	L	M	H	Gram	9/7/09	11/11/09	212	--
		Irrigated	--"	L	M	H	Mustard	12/7/09	15/11/09	212	--
		Irrigated	--"	L	M	H	Sesame	14/7/09	14/11/09	212	--
		Irrigated	--"	L	M	H	Groundnut	12/7/09	17/11/09	212	--
		Irrigated	--"	L	M	H	Cotton	7/7/09	8/11/09	212	--
Sesar	Kharij 09-10	Irrigated	--"	L	M	H	Wheat	13/7/09	8/10/09	212	--
		Irrigated	--"	L	M	H	Cumin	18/7/09	10/10/09	212	--
		Irrigated	--"	L	M	H	Cotton	16/7/09	14/10/09	212	--
		Irrigated	--"	L	M	H	Bajara	10/7/09	5/10/09	212	--
		Irrigated	--"	L	M	H	Cumin	15/7/09	13/10/09	212	--
		Irrigated	--"	L	M	H	G'nut	17/7/09	16/10/09	212	--
		Irrigated	--"	L	M	H	Sesame	14/7/09	12/10/09	212	--
		Irrigated	--"	L	M	H	Bajara	15/7/09	13/10/09	212	--

		Irrigated	--"--	L	M	H	Sesame	13/7/09	12/10/09	212	--
		Irrigated	--"--	L	M	H	Cotton	14/7/09	11/10/09	212	--

Green Gram	Kharij 09-10	Irrigated	--"--	L	M	H	Cotton	15/7/09	1/10/09	212	--
		Irrigated	--"--	L	M	H	Cotton	14/7/09	2/10/09	212	--
		Irrigated	--"--	L	M	H	Wheat	18/7/09	5/10/09	212	--
		Irrigated	--"--	L	M	H	Gram	16/7/09	3/10/09	212	--
		Irrigated	--"--	L	M	H	Vegetables	18/7/09	7/10/09	212	--
		Irrigated	--"--	L	M	H	Sorgham	15/7/09	6/10/09	212	--
		Irrigated	--"--	L	M	H	Cotton	17/7/09	8/10/09	212	--
		Irrigated	--"--	L	M	H	Blackgram	16/7/09	5/10/09	212	--
		Irrigated	--"--	L	M	H	Mustard	18/7/09	6/10/09	212	--
		Irrigated	--"--	L	M	H	Cotton	12/7/09	3/10/09	212	--
Moth bean	Kharij 09-10	Irrigated	Medium black	L	M	H	Cotton	14/7/09	21/9/09	212	--
		Irrigated	--"--	L	M	H	Wheat	17/7/09	26/9/09	212	--
		Irrigated	--"--	L	M	H	Bajara	18/7/09	29/9/09	212	--
		Irrigated	--"--	L	M	H	Sesame	15/7/09	24/9/09	212	--
		Irrigated	--"--	L	M	H	G' nut	10/7/09	19/9/09	212	--
		Irrigated	--"--	L	M	H	Cotton	13/7/09	22/9/09	212	--
		Irrigated	--"--	L	M	H	G' nut	14/7/09	23/9/09	212	--
		Irrigated	--"--	L	M	H	Bajara	16/7/09	26/09/09	212	--
		Irrigated	--"--	L	M	H	G' nut	15/7/09	25/9/09	212	--
		Irrigated	--"--	L	M	H	Wheat	20/7/09	28/9/09	212	--
Bio-agent	Kharij 09-10	Irrigated	Medium black	L	M	H	Cumin	15/7/09	10/11/09	212	--
		Irrigated	--"--	L	M	H	Gram	15/7/09	13/11/09	212	--
		Irrigated	--"--	L	M	H	Cotton	16/7/09	18/11/09	212	--
		Irrigated	--"--	L	M	H	Cotton	15/7/09	15/11/09	212	--

Cotton (CMM-II)	Kharif 09-10	Irrigated	Medium black	L	M	H	Groundnut	17/7/09	Multi- Picking	212	--
		Irrigated	--"--	L	M	H	Cumin	15/7/09		212	--
		Irrigated	--"--	L	M	H	Sorghum	10/7/09		212	--
		Irrigated	--"--	L	M	H	Groundnut	10/7/09		212	--
		Irrigated	--"--	L	M	H	Gram	7/7/09		212	--
		Irrigated	--"--	L	M	H	Wheat	1/7/09		212	--
		Irrigated	--"--	L	M	H	Gram	7/7/09		212	--
		Irrigated	--"--	L	M	H	Cumin	14/7/09		212	--
		Irrigated	--"--	L	M	H	Wheat	15/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	7/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	14/7/09		212	--
		Irrigated	--"--	L	M	H	G' nut	11/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	12/7/09		212	--
		Irrigated	--"--	L	M	H	Wheat	13/7/09		212	--
		Irrigated	--"--	L	M	H	Cumin	7/7/09		212	--
		Irrigated	--"--	L	M	H	Gram	15/7/09		212	--
		Irrigated	--"--	L	M	H	G' nut	13/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	4/7/09		212	--
		Irrigated	--"--	L	M	H	Mothbean	12/7/09		212	--
		Irrigated	--"--	L	M	H	Sorghum	10/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	1/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	4/7/09		212	--
		Irrigated	--"--	L	M	H	G' nut	13/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	17/7/09		212	--
		Irrigated	--"--	L	M	H	Wheat	14/7/09		212	--
		Irrigated	--"--	L	M	H	G' nut	18/7/09		212	--
		Irrigated	--"--	L	M	H	G' nut	4/7/09		212	--
		Irrigated	--"--	L	M	H	G' nut	9/7/09		212	--
		Irrigated	--"--	L	M	H	Gram	15/7/09		212	--
		Irrigated	--"--	L	M	H	Wheat	11/7/09		212	--
		Irrigated	--"--	L	M	H	G' nut	12/7/09		212	--
		Irrigated	--"--	L	M	H	Cumin	1/7/09		212	--
		Irrigated	--"--	L	M	H	Mustard	5/7/09		212	--



		Irrigated	--"--	L	M	H	Cotton	6/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	14/7/09		212	--
--"--	--"--	Irrigated	--"--	L	M	H	Green gram	11/7/09	--"--	212	--
		Irrigated	--"--	L	M	H	Sesame	2/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	4/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	15/7/09		212	--
		Irrigated	--"--	L	M	H	Sesame	14/7/09		212	--
		Irrigated	--"--	L	M	H	cotton	2/7/09		212	--
		Irrigated	--"--	L	M	H	Wheat	3/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	13/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	28/6/09		212	--
		Irrigated	--"--	L	M	H	Cotton	25/6/09		212	--
		Irrigated	--"--	L	M	H	Cotton	13/7/09		212	--
		Irrigated	--"--	L	M	H	Wheat	10/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	16/7/09		212	--
		Irrigated	--"--	L	M	H	Cotton	17/7/09		212	--
		Irrigated	--"--	L	M	H	Green gram	18/7/09		212	--
Mustard	Rabi 09-10	Irrigated	Medium black	L	M	H	Greengram	23/10/09	13/2/10	212	--
		Irrigated	--"--	L	M	H	Greengram	25/10/09	15/2/10	212	--
		Irrigated	--"--	L	M	H	Sesame	26/10/09	14/2/10	212	--
		Irrigated	--"--	L	M	H	Blackgram	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	Greengram	30/10/09	20/2/10	212	--
		Irrigated	--"--	L	M	H	Blackgram	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	Greengram	29/10/09	18/2/10	212	--

		Irrigated	--"--	L	M	H	G;nut	25/10/09	14/2/10	212	--
		Irrigated	--"--	L	M	H	Sesame	24/10/09	11/2/10	212	--

Gram	Rabi 09-10	Irrigated	Medium black	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	Greengram	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	Bajara	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	--

### Performance of FLD

Sr. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qt/ha			Yield of local Check Qt/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	G'nut	Varietal evaluation, recommended package of practices	GG-20	20	10	17.20	9.10	13.45	11.50	16.96	-	-
2	Sesame		Guj.Til-2	10	5	7.50	4.60	6.40	5.60	14.29	-	-
3	Green Gram		Guj.Green Gram-4	10	5	11.50	4.80	8.70	7.40	17.57	-	-
4	Muth bean		Guj.Muth-2	10	5	11.20	4.50	7.90	6.60	19.70	-	-
5	Cotton (CMM-II)		Bt Irrigated	50	20	32.40	13.30	23.78	20.14	18.07	-	-
6	Bio-agent		<i>Trichoderma harzianum</i>	4	2	16.40	12.40	14.63	12.80	14.30	-	-
7	Mustard		Guj. Mustard-3	20	10	25.75	15.50	21.25	18.40	15.50	-	-
8	Gram		Guj. Gram-3	20	10	25.25	13.10	19.20	16.75	14.63	-	-
9	Cumin		Guj.Cumin-4	10	5	10.20	4.60	7.80	6.55	19.08	-	-
10	Wheat		GW-366	20	10	50.40	30.10	39.70	35.10	13.11	-	-

### 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
16250	16000	38339	33063	22419	17063	1:2.38
10150	9850	40800	35700	30650	25850	1:4.02
7850	7700	42413	36075	34563	28375	1:5.40
7500	7300	33575	28050	26075	20750	1:4.48
16600	16850	79663	67469	63063	50619	1:4.80
17500	16000	42061	36800	24561	20800	1:2.40
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

**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
		<b>1. Seed/Variety</b>				
G'nut	Kharif 09-10	GG-20	Irrigated	13.45	11.50	16.96
Sesame	Kharif 09-10	Guj.Til-2	Irrigated	6.40	5.60	14.29
Green Gram	Kharif 09-10	Guj.Green Gram-4	Irrigated	8.70	7.40	17.57
Muth bean	Kharif 09-10	Guj.Muth-2	un Irrigated	7.90	6.60	19.70
Cotton (CMM-II)	Kharif 09-10	Bt	Irrigated	23.78	20.14	18.07
Bio-agent	Kharif 09-10	<i>Trichoderma harzianum</i>	Irrigated	14.63	12.80	14.30
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

### Technical Feedback on the demonstrated technologies

Sr. No	Feed Back
1	Groundnut short duration and disease resistance variety required for kharif season so suitable for dry farming
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	In mustard, aphid resistant variety highly needed

5	The wheat variety GW-366 is superior but requires research variety for short duration and late sowing so cotton growers can be adopt it
6	Gram wilt resistance variety required so losses up to 70 % minimize

### Farmers' reactions on specific technologies

Sr. No	Feed Back
1	<b>Sesamum :</b> - Guj. Til-2 is higher yielder over local but requires disease resistance variety
2	<b>Groundnut :</b> - GG-20 is good but, it is require short duration variety erratic rainfall affect the yield of groundnut
3	<b>Cotton :</b> - Like Bt variety resistance over larvae, it is require the sucking pest resistance variety
4	<b>Green gram :</b> - Guj.Green gram-4 is superior over K-851, it mature once a time so more picking not required
5	<b>Moth bean :</b> - Guj. Moth bean-2 is suitable even under late onset or early session of monsoon due to short duration
6	<b>Gram :</b> - It is good variety over local varieties, but at maturity stage , wilt and pod borer infestation occur
7	<b>Cumin :</b> - High yielder and wilt resistance but poor and late germination
8	<b>Wheat : 366</b> 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
9	<b>Mustard :</b> - The variety GM-3 is higher yielder but aphid attack reduces the yield

**Extension and Training activities under FLD**

<b>Sr. No</b>	<b>Activity</b>	<b>No. of activities organized</b>	<b>Date</b>	<b>Number of participants</b>
1	Field days	1	26/08/09	19
		1	28/08/09	24
		1	29/08/09	17
		1	03/09/09	26
		1	24/09/09	23
		1	30/09/09	19
		1	03/11/09	20
		1	06/11/09	17
		1	20/11/09	24
		1	25/11/09	17
		1	30/11/09	20
		1	08/12/09	20
		1	14/12/09	17
		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
		<b>Total</b>		<b>19</b>
2	Farmers Training	1	03/04/09	22
		1	28/05/09	23
		1	28/05/09	12
		1	06/06/09	14
		1	29/06/09	15
		1	29/06/09	17
		1	29/06/09	20
		1	06/08/09	14
		1	20/08/09	21
		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

2	Farmers Training	1	16/01/10	16
		1	09/03/10	15
		1	20/03/10	17
<b>Total</b>		<b>18</b>	<b>--</b>	<b>314</b>
3	Media coverage	--		
4	Training for extension functionaries	1	17/07/09	25
		1	22/07/09	25
		1	24/07/09	69
		1	03/09/09	30
<b>Total</b>		<b>04</b>	<b>--</b>	<b>149</b>

### C. Details of FLD on Enterprises

#### (i) 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		
1	2	3	4	5	6	7	8	9
Cotton Shredder	Cotton	07	9.28	--	--	--	--	To boost the farmers to use of crop residue as a compost for next season
Rotavator	Diff. crops	16	32.72	--	--	--	--	To popularized the use of rotavator



Seed drill	Diff. crops	03	3.20	--	--	--	--	To boost the farmers to use of seed drill for timely and proper sowing of different crops
------------	-------------	----	------	----	----	----	----	---

1	2	3	4	5	6	7	8	9
Tractor mounted sprayer	Cotton	05	19.20					To popularized the use of Tractor mounted sprayer
Seed dressing drum	Wheat	05	--	--	--	--	--	To popularized the use of Seed dressing drum
Cotton stalk pooler	Cotton	02	--	--	--	--	--	To popularized the use of Cotton stalk pooler
Mobile seed processing unit	Wheat	03	170 qt Wheat	--	--	--	--	To popularized the use of Mobile seed processing unit

**(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

<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
43/-	00	3163/-	2820/-	7200/-	6000/-	4037/-	3180/-	1:1.27	1:1.12

**(iii) Other Enterprises: Mulching on Summer Groundnut**

Sr No	Enterprise	Variety/ breed/ species/ others	No. of farmers	No. of units	Performance parameters/ indicators/ (Yield evaluation)	Data on parameter in relation to technology demonstrated		% change in the parameter (Over control)
						Pod Yield Kg/ha	Increase in pod yield (Kg/ha) over control	
	<b>Groundnut</b>							
1	KVK Farm Nana- Kandhasar	GG-2	01	01	T-1 : Groundnut shell	1875	335	21.75
					T-2 : Degradable plastic	1820	280	18.18
					T-3 : Wheat straw	1760	220	14.29
					T-4 : Cotton stalk	1695	155	10.06
					T-5 : Control	1540	--	--
2	Navinbhai Vajeshankar Vyas	GG-2	01	01	T-1 : Groundnut shell	1920	250	14.97
					T-2 : Degradable plastic	1890	220	13.17
					T-3 : Wheat straw	1810	120	07.18
					T-4 : Cotton stalk	1760	70	04.19
					T-5 : Control	1670	--	--

### 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
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>	<b>3</b>	<b>47</b>	<b>0</b>	<b>47</b>	<b>9</b>	<b>0</b>	<b>9</b>	<b>56</b>	<b>0</b>	<b>56</b>
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	2	26	0	26	7	0	7	33	0	33
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	1	21	0	21	2	0	2	23	0	23
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
<b>II Horticulture</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>8</b>
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low volume and high value crops	1	6	0	6	2	0	2	8	0	8
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	-	-	-	-	-	-	-	-	-	-
<b>III Soil Health and Fertility Management</b>	<b>1</b>	<b>23</b>	<b>0</b>	<b>23</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>24</b>	<b>0</b>	<b>24</b>
Soil fertility management	1	23	0	23	1	0	1	24	0	24
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	-	-	-	-	-	-	-	-	-	-
<b>IV Livestock Production and Management</b>	<b>9</b>	<b>100</b>	<b>0</b>	<b>100</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>118</b>	<b>0</b>	<b>118</b>
Dairy Management	4	39	0	39	8	0	8	47	0	47
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-

Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	1	12	0	12	2	0	2	14	0	14
Feed management	4	49	0	49	8	0	8	57	0	57
Production of quality animal products	-	-	-	-	-	-	-	-	-	-

<b>V Home Science/Women empowerment</b>	<b>3</b>	<b>0</b>	<b>36</b>	<b>36</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>41</b>	<b>41</b>
Household food security by kitchen gardening and nutrition gardening	2	0	30	30	0	0	0	0	30	30
Design and deve. of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	1	0	6	6	0	5	5	0	11	11
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
<b>VI Agril. Engineering</b>	<b>4</b>	<b>56</b>	<b>0</b>	<b>56</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>64</b>	<b>0</b>	<b>64</b>
Installation and maintenance of micro irrigation	1	20	0	20	5	0	5	25	0	25

systems										
Use of Plastics in farming practices	1	15	0	15	0	0	0	15	0	15
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-

Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	2	21	0	21	3	0	3	24	0	24
<b>VII Plant Protection</b>	<b>5</b>	<b>67</b>	<b>0</b>	<b>67</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>75</b>	<b>0</b>	<b>75</b>
Integrated Pest Management	3	44	0	44	6	0	6	50	0	50
Integrated Disease Management	2	23	0	23	2	0	2	25	0	25
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
<b>VIII Fisheries</b>	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-

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Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-

<b>IX Production of Inputs at site</b>	<b>1</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>20</b>	<b>0</b>	<b>20</b>
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	1	16	0	16	4	0	4	20	0	20
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	-	-	-	-	-	-	-	-	-	-
<b>X Capacity Building and Group Dynamics</b>	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of	-	-	-	-	-	-	-	-	-	-



social capital										
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-

<b>XI Agro-forestry</b>	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>27</b>	<b>315</b>	<b>36</b>	<b>351</b>	<b>50</b>	<b>5</b>	<b>55</b>	<b>365</b>	<b>41</b>	<b>406</b>

**(B) RURAL YOUTH**

Mushroom Productio	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	20	0	20	5	0	5	25	0	25
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-

Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	2	0	25	25	0	7	7	0	32	32
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	2	0	41	41	0	12	12	0	53	53
Rural Crafts	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>5</b>	<b>20</b>	<b>66</b>	<b>86</b>	<b>5</b>	<b>19</b>	<b>24</b>	<b>25</b>	<b>85</b>	<b>110</b>
<b>(C) Extension Personnel</b>										
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	53	53	0	16	16	0	69	69
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>53</b>	<b>53</b>	<b>0</b>	<b>16</b>	<b>16</b>	<b>0</b>	<b>69</b>	<b>69</b>
<b>GRAND TOTAL</b>	<b>33</b>	<b>335</b>	<b>155</b>	<b>490</b>	<b>55</b>	<b>40</b>	<b>95</b>	<b>390</b>	<b>195</b>	<b>585</b>

### B) OFF Campus

Thematic area	No. of course:	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
<b>(A) Farmers &amp; Farm Women</b>										

<b>I Crop Production</b>	<b>6</b>	<b>217</b>	<b>0</b>	<b>217</b>	<b>26</b>	<b>0</b>	<b>26</b>	<b>243</b>	<b>0</b>	<b>243</b>
Weed Management	1	11	0	11	1	0	1	12	0	12
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-

Water management	1	13	0	13	2	0	2	15	0	15
Seed production	1	12	0	12	2	0	2	14	0	14
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	3	181	0	181	21	0	21	202	0	202
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
<b>II Horticulture</b>	<b>3</b>	<b>72</b>	<b>0</b>	<b>72</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>85</b>	<b>0</b>	<b>85</b>
<b>a) Vegetable Crops</b>	-	-	-	-	-	-	-	-	-	-
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	1	45	0	45	10	0	10	55	0	55
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-	-
<b>b) Fruits</b>	-	-	-	-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-

Cultivation of Fruit	1	10	0	10	0	0	0	10	0	10
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
<b>c) Ornamental Plants</b>	-	-	-	-	-	-	-	-	-	-
Nursery Management	1	17	0	17	3	0	3	20	0	20
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
<b>d) Plantation crops</b>	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>e) Tuber crops</b>	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>f) Spices</b>	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>g) Medicinal and</b>	-	-	-	-	-	-	-	-	-	-

<b>Aromatic Plants</b>										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-

<b>III Soil Health and Fertility Management</b>	<b>4</b>	<b>133</b>	<b>0</b>	<b>133</b>	<b>17</b>	<b>0</b>	<b>17</b>	<b>150</b>	<b>0</b>	<b>150</b>
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	2	99	0	99	12	0	12	111	0	111
Production and use of organic inputs	1	18	0	18	2	0	2	20	0	20
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
<b>IV Livestock Production and Management</b>	<b>11</b>	<b>133</b>	<b>12</b>	<b>145</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>148</b>	<b>12</b>	<b>160</b>
Dairy Management	5	75	0	75	4	0	4	79	0	79
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	3	24	12	36	4	0	4	28	12	40
Feed	3	34	0	34	7	0	7	41	0	41

management										
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
<b>V Home Science/Women empowerment</b>	<b>7</b>	<b>0</b>	<b>116</b>	<b>166</b>	<b>0</b>	<b>28</b>	<b>28</b>	<b>0</b>	<b>144</b>	<b>144</b>
Household food security by kitchen gardening and nutrition gardening	1	0	16	16	0	0	0	0	16	16
Design and development of low/minimum cost diet	1	0	16	16	0	2	2	0	18	18
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	14	14	0	5	5	0	19	19
Income generation activities for empowerment of rural Women	2	0	44	44	0	10	10	0	54	54
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	2	0	26	26	0	11	11	0	37	37
<b>VI Agril. Engineering</b>	<b>7</b>	<b>96</b>	<b>0</b>	<b>96</b>	<b>17</b>	<b>0</b>	<b>17</b>	<b>113</b>	<b>0</b>	<b>113</b>
Installation and maintenance of micro irrigation systems	1	15	0	15	2	0	2	17	0	17
Use of Plastics in	-	-	-	-	-	-	-	-	-	-

farming practices										
Production of small tools and implements	2	31	0	31	4	0	4	35	0	35
Repair and maintenance of farm machinery and implements	3	39	0	39	7	0	7	46	0	46
Small scale processing and value addition	1	11	0	11	4	0	4	15	0	15
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
<b>VII Plant Protection</b>	<b>7</b>	<b>103</b>	<b>0</b>	<b>103</b>	<b>30</b>	<b>0</b>	<b>30</b>	<b>133</b>	<b>0</b>	<b>133</b>
Integrated Pest Management	4	58	0	58	14	0	14	72	0	72
Integrated Disease Management	3	45	0	45	16	0	16	61	0	61
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
<b>VIII Fisheries</b>	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-



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Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>IX Production of Inputs at site</b>	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-
<b>X Capacity Building and Group Dynamics</b>	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-

<b>XI Agro-forestry</b>	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
<b>XII Extension Education</b>	<b>1</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>13</b>	<b>0</b>	<b>13</b>
<b>TOTAL</b>	<b>46</b>	<b>764</b>	<b>128</b>	<b>892</b>	<b>121</b>	<b>28</b>	<b>149</b>	<b>885</b>	<b>158</b>	<b>1041</b>

<b>(B) RURAL YOUTH</b>										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming										
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	1	13	0	13	2	0	2	15	0	15
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	13	0	13	2	0	2	15	0	15
Nursery Management of Horticulture crops	1	11	0	11	4	0	4	15	0	15
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	2	0	31	31	0	0	0	0	31	31
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	1	10	0	10	2	0	2	12	0	12
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	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>6</b>	<b>47</b>	<b>31</b>	<b>78</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>57</b>	<b>31</b>	<b>88</b>
<b>(C) Extension Personnel</b>										
Productivity enhancement in field crops	2	44	0	44	11	0	11	55	0	55
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	1	23	0	23	2	0	2	25	0	25
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Formation and	-	-	-	-	-	-	-	-	-	-

Management of SHGs										
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-

Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>3</b>	<b>67</b>	<b>0</b>	<b>67</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>80</b>	<b>0</b>	<b>80</b>
<b>GRAND TOTAL</b>	<b>55</b>	<b>878</b>	<b>159</b>	<b>1037</b>	<b>144</b>	<b>28</b>	<b>172</b>	<b>1022</b>	<b>187</b>	<b>1209</b>

### C) Consolidated table (ON and OFF Campus)

Thematic area	No. of course	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T

<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>	<b>9</b>	<b>264</b>	<b>0</b>	<b>264</b>	<b>35</b>	<b>0</b>	<b>35</b>	<b>299</b>	<b>0</b>	<b>299</b>
Weed Management	1	11	0	11	1	0	1	12	0	12
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming										
Water management	1	13	0	13	2	0	2	15	0	15
Seed production	3	38	0	38	9	0	9	47	0	47
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	4	202	0	202	23	0	23	225	0	225
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
<b>II Horticulture</b>	<b>4</b>	<b>78</b>	<b>0</b>	<b>78</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>93</b>	<b>0</b>	<b>93</b>
<b>a) Vegetable Crops</b>	-	-	-	-	-	-	-	-	-	-
Production of low volume and high value crops	1	6	0	6	2	0	2	8	0	8
Off-season vegetables	1	45	0	45	10	0	10	55	0	55
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-	-
<b>b) Fruits</b>	-	-	-	-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and	-	-	-	-	-	-	-	-	-	-

Management of Orchards										
Cultivation of Fruit	1	10	0	10	0	0	0	10	0	10
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
<b>c) Ornamental Plants</b>	-	-	-	-	-	-	-	-	-	-
Nursery Management	1	17	0	17	3	0	3	20	0	20
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
<b>d) Plantation crops</b>	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>e) Tuber crops</b>	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>f) Spices</b>	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and	-	-	-	-	-	-	-	-	-	-

value addition										
<b>g) Medicinal and Aromatic Plants</b>	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-

<b>III Soil Health and Fertility Management</b>	<b>5</b>	<b>156</b>	<b>0</b>	<b>156</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>174</b>	<b>0</b>	<b>174</b>
Soil fertility management	1	23	0	23	1	0	1	24	0	24
Soil and Water Conservation	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	2	99	0	99	12	0	12	111	0	111
Production and use of organic inputs	1	18	0	18	2	0	2	20	0	20
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
<b>IV Livestock Production and Management</b>	<b>20</b>	<b>233</b>	<b>12</b>	<b>245</b>	<b>33</b>	<b>0</b>	<b>33</b>	<b>266</b>	<b>12</b>	<b>278</b>
Dairy Management	9	114	0	114	12	0	12	126	0	126
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease	4	36	12	48	6	0	6	42	12	54

Management										
Feed management	7	83	0	83	15	0	15	98	0	98
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
<b>V Home Science/Women empowerment</b>	<b>10</b>	<b>0</b>	<b>152</b>	<b>152</b>	<b>0</b>	<b>33</b>	<b>33</b>	<b>0</b>	<b>185</b>	<b>185</b>
Household food security by kitchen gardening	3	0	46	46	0	0	0	0	46	46
Design and development of low/minimum cost diet	1	0	16	16	0	2	2	0	18	18
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	14	14	0	5	5	0	19	19
Income generation activities for empowerment of rural Women	3	0	50	50	0	15	15	0	65	65
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	2	0	26	26	0	11	11	0	37	37
<b>VI Agril. Engineering</b>	<b>11</b>	<b>152</b>	<b>0</b>	<b>152</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>177</b>	<b>0</b>	<b>177</b>
Installation and maintenance of MI systems	2	35	0	35	7	0	7	42	0	42
Use of Plastics in farming practices	1	15	0	15	0	0	0	15	0	15
Production of small tools and	2	31	0	31	4	0	4	35	0	35



implements										
Repair and maintenance of farm machinery and implements	3	39	0	39	7	0	7	46	0	46
Small scale processing and value addition	1	11	0	11	4	0	4	15	0	15
Post Harvest Tech	2	21	0	21	3	0	3	24	0	24
<b>VII Plant Protection</b>	<b>12</b>	<b>170</b>	<b>0</b>	<b>170</b>	<b>38</b>	<b>0</b>	<b>38</b>	<b>208</b>	<b>0</b>	<b>208</b>
Integrated PM	7	102	0	102	20	0	20	122	0	122
Integrated Disease Management	5	68	0	68	18	0	18	86	0	86
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
<b>VIII Fisheries</b>	-	-	-	-	-	-	-	-	-	-
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										
<b>IX Production of Inputs at site</b>	<b>1</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>20</b>	<b>0</b>	<b>20</b>
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	1	16	0	16	4	0	4	20	0	20

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	-	-	-	-	-	-	-	-	-	-
<b>X Capacity Building and Group Dynamics</b>	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-

<b>XI Agro-forestry</b>	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
<b>XII EXTENSION EDUCATION</b>	<b>1</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>13</b>	<b>0</b>	<b>13</b>
<b>TOTAL</b>	<b>73</b>	<b>1079</b>	<b>164</b>	<b>1243</b>	<b>171</b>	<b>33</b>	<b>204</b>	<b>1250</b>	<b>199</b>	<b>1447</b>

<b>(B) RURAL YOUTH</b>										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming										
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	1	13	0	13	2	0	2	15	0	15
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	2	33	0	33	7	0	7	40	0	40
Nursery Management of Horticulture crops	1	11	0	11	4	0	4	15	0	15
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	4	0	56	56	0	7	7	0	63	63

Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	1	10	0	10	2	0	2	12	0	12
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	2	0	41	41	0	12	12	0	53	53
Rural Crafts	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>11</b>	<b>67</b>	<b>97</b>	<b>164</b>	<b>15</b>	<b>19</b>	<b>34</b>	<b>82</b>	<b>116</b>	<b>198</b>
<b>(C) Extension Personnel</b>										
Productivity enhancement in field crops	2	44	0	44	11	0	11	55	0	55
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	1	23	0	23	2	0	2	25	0	25

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	53	53	0	16	16	0	69	69
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>4</b>	<b>67</b>	<b>53</b>	<b>120</b>	<b>13</b>	<b>16</b>	<b>29</b>	<b>80</b>	<b>69</b>	<b>149</b>
<b>GRAND TOTAL</b>	<b>88</b>	<b>1213</b>	<b>314</b>	<b>1527</b>	<b>199</b>	<b>68</b>	<b>267</b>	<b>1412</b>	<b>382</b>	<b>1794</b>

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

Date	Clientele	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 participants		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Farmers and Farm women</b>															
3/4/09	Farmers and Farm women	Importance of IPM	Plant Protection	--	1	ON	19	0	19	3	0	3	22	0	22
6/4/09		Soil Sampling methods	Soil health & fertility management	--	1	ON	23	0	23	1	0	1	24	0	24
23/4/09		Importance of colostrum in calves	Animal Science	--	1	ON	15	0	15	0	0	0	15	0	15

7/5/09	Increase nutritive value of low quality roughage for milch animals	Animal Science	--	1	ON	11	0	11	4	0	4	15	0	15
28/5/09	Production technology of cotton and groundnut	Crop Production	--	1	ON	17	0	17	6	0	6	23	0	23
28/5/09	IPM in cotton	Plant Protection	--	1	ON	9	0	9	3	0	3	12	0	12
29/5/09	Improved cultivation practices for vegetables including onion & garlic	Horticulture	--	1	ON	6	0	6	2	0	2	8	0	8
2/6/09	Efficient use of harvested water	Agril. Engg.	--	1	ON	10	0	10	2	0	2	12	0	12
11/6/09	Care and management of buffalo during summer	Animal Science	--	1	ON	10	0	10	2	0	2	12	0	12
17/6/09	In situ moisture conservation practices in dry farming	Agril. Engg.	--	1	ON	15	0	15	0	0	0	15	0	15
31/7/09	Importance and use of green fodder in milk production	Animal Science	--	1	ON	8	0	8	2	0	2	10	0	10
11/8/09	Castor production technology	Crop Production	--	1	ON	9	0	9	1	0	1	10	0	10
17/8/09	Preparation technology of locally available vegetables & fruits	Home Science	--	1	ON	0	12	12	0	0	0	0	12	12

18/8/09	IPM in castor	Plant Protection	--	1	ON	12	0	12	1	0	1	13	0	13
20/8/09	Rain water management technology	Agril. Engg.	--	1	ON	11	0	11	1	0	1	12	0	12
29/8/09	Dairy farming	Animal Science	--	1	ON	10	0	10	3	0	3	13	0	13
8/9/09	Preparation of milk product "Mava Making"	Home Science	--	1	ON	0	6	6	0	5	5	0	11	11
12/9/09	Technique for vermin composting	Crop Production	--	1	ON	16	0	16	4	0	4	20	0	20
23/10/09	Improved cultivation practices in wheat and cumin	Crop Production	--	1	ON	21	0	21	2	0	2	23	0	23
6/11/09	Govt. subsidy in drips, sprinkler and agricultural implements	Agril. Engg.	--	1	ON	20	0	20	5	0	5	25	0	25
12/11/09	Kitchen gardening	Home Science	--	1	ON	0	18	18	0	0	0	0	18	18
18/11/09	Plant protection measures for pest & disease in cumin	Plant Protection	--	1	ON	11	0	11	1	0	1	12	0	12
23/11/09	Low cost technology for higher milk production	Animal Science	--	1	ON	8	0	8	2	0	2	10	0	10



22/1/10	Care and management of animals during winter	Animal Science	--	1	ON	12	0	12	2	0	2	14	0	14
1/2/10	Selection of breed of milch animals for economical milk production	Animal Science	--	1	ON	11	0	11	1	0	1	12	0	12
29/3/10	Importance of colostrums in calves	Animal Science	--	1	ON	15	0	15	2	0	2	17	0	17
24/4/09	Care and management of calves	Animal Science	--	1	OFF	14	0	14	0	0	0	14	0	14
5/5/09	Urea treatment in wheat straw	Animal Science	--	1	OFF	11	0	11	3	0	3	14	0	14
5/5/09	Selection and maintenance of pump sets	Agril. Engg.	--	1	OFF	12	0	12	2	0	2	14	0	14
11/5/09	Use of mineral mixture for balance feeding	Animal Science	--	1	OFF	9	0	9	2	0	2	11	0	11
25/5/09	Production technology of major arid fruit crops	Horticulture	--	1	OFF	10	0	10	0	0	0	10	0	10
6/6/09	Pure seed production technology in sesame and groundnut	Crop Production	--	1	OFF	12	0	12	2	0	2	14	0	14
23/6/09	Preparation and preservation of mango	Home Science	--	1	OFF	0	14	14	0	5	5	0	19	19

29/6/09		IPM in groundnut	Plant Protection	--	1	OFF	9	0	9	6	0	6	15	0	15
29/6/09		Economic use of fertilizer in major kharif field crops	Crop Production	--	1	OFF	14	0	14	3	0	3	17	0	17
29/6/09		Management of pest and disease of sesame	Plant Protection	--	1	OFF	15	0	15	5	0	5	20	0	20
20/7/09		Nutrition management in mother and child	Home Science	--	1	OFF	0	14	14	0	0	0	0	14	14
24/7/09		IPM in vegetables	Plant Protection	--	1	OFF	11	0	11	2	0	2	13	0	13
28/7/09		Health care of livestock during monsoon	Animal Science	--	1	OFF	0	12	12	0	0	0	0	12	12
3/8/09		Supplementary nutrition for child and pregnant mother	Home Science	--	1	OFF	0	12	12	0	11	11	0	23	23
6/8/09		Importance of thinning, gap filling and maintenance of plant population	Crop Production	--	1	OFF	11	0	11	3	0	3	14	0	14
12/8/09		Kitchen gardening	Home Science	--	1	OFF	0	16	16	0	0	0	0	16	16
17/8/09		Preventive measure and first aid treatment of IMP disease in dairy animals	Animal Science	--	1	OFF	10	0	10	2	0	2	12	0	12

20/8/09	Control measures for pest and disease of kharif pulses	Plant Protection	--	1	OFF	17	0	17	4	0	4	21	0	21
21/8/09	Govt. subsidy schemes in agriculture	Agri. Extension	--	1	OFF	21	0	21	3	0	3	24	0	24
28/8/09	Introduction of effective and improved agril. equipments	Agri. Engg.	--	1	OFF	10	0	10	1	0	1	11	0	11
28/8/09	Farm implements and their use	Agri. Engg.	--	1	OFF	13	0	13	2	0	2	15	0	15
1/9/09	Introduction and use of chaff cutter	Agri. Engg.	--	1	OFF	11	0	11	4	0	4	15	0	15
9/12/09	Hitech horticulture	Horticulture	--	1	OFF	45	0	45	10	0	10	55	0	55
2/2/10	Production technology of summer groundnut	Crop Production	--	1	OFF	150	0	150	15	0	15	165	0	165
10/2/10	Effect of fertilizer on cumin	Crop Production	--	1	OFF	85	0	85	9	0	9	94	0	94
20/3/10	Precaution while handling pesticides	Plant Protection	--	1	OFF	15	0	15	2	0	2	17	0	17
3/4/10	Urea treatment in wheat straw	Animal Science	--	1	OFF	14	0	14	2	0	2	16	0	16

8/4/10	Soil sampling methods	Soil health and fertility management	--	1	OFF	16	0	16	3	0	3	19	0	19
9/4/10	Awareness about extension activity of KVK	Agril. Extension	--	1	OFF	10	0	10	3	0	3	13	0	13
	<b>Total</b>		--	<b>73</b>	--	<b>1079</b>	<b>164</b>	<b>1243</b>	<b>171</b>	<b>33</b>	<b>204</b>	<b>1250</b>	<b>199</b>	<b>1447</b>

<b>Rural Youth</b>															
18/6/09	<b>Rural Youth</b>	Repair & maintenance of sprayer, power sprayer & duster	Plant Protection	--	1	ON	20	0	20	5	0	5	25	0	25
15/7/09		Nutrition education	Home Science	--	1	ON	0	18	18	0	0	0	0	18	18
4/8/09		Training on bag, candle and agarbati making	Home Science	--	1	ON	0	15	15	0	8	8	0	23	23
7/8/09		Mixed pickle preparation from seasonal vegetable	Home Science	--	1	ON	0	7	7	0	7	7	0	14	14
13/8/09		Embroidery and seiving	Home Science	--	1	ON	0	26	26	0	4	4	0	30	30
16/1/10		Importance IPM	Plant Protection	--	1	ON	16	0	16	0	0	0	16	0	16
22/4/09		Importance of artificial insemination in animals	Animal Science	--	1	OFF	10	0	10	2	0	2	12	0	12

12/5/09	Importance of floriculture	Horticulture	--	1	OFF	11	0	11	4	0	4	15	0	15
28/8/09	Fancy patch work, hand work, stiches and knifing work	Home Science	--	1	OFF	0	21	21	0	0	0	0	21	21
29/8/09	Selection and maintenance of pump sets	Agril. Engg.	--	1	OFF	14	0	14	3	0	3	17	0	17
30/4/10	Preparation of different masala, handicraft and stiches	Home Science	--	1	OFF	0	23	23	0	10	10	0	33	33
	<b>Total</b>		--	<b>11</b>	--	<b>67</b>	<b>97</b>	<b>164</b>	<b>15</b>	<b>19</b>	<b>34</b>	<b>82</b>	<b>116</b>	<b>198</b>

<b>Extension Personnel:</b>															
24/7/09	<b>Extension Personnel</b>	Nutrition management of children, pregnant mother and role of anganwadi worker	Home Science	--	1	ON	0	53	53	0	16	16	0	69	69
17/7/09		Pre seasonal training on kharif crops	Crop Production	--	1	OFF	23	0	23	2	0	2	25	0	25
22/7/09		Cotton production technology	Crop Production	--	1	OFF	22	0	22	3	0	3	25	0	25
3/9/09		Oilseed crops production technology	Crop Production	--	1	OFF	22	0	22	8	0	8	30	0	30

						6 7	5 3	1 2 0	1 3	1 6	2 9	8 0	6 9	1 4 9
		<b>Total</b>	--	4	--									

#### 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	
Home Science	13/08/09	Embroidery and sieving	Income generation	01	--	30	30	-	-	-	-
	08/09/09	Preparation of milk product "Mava"	Income generation	01	--	11	11	-	-	-	-
Plant Protection	18/06/09	Repair and maintenance of sprayer, power sprayer and duster	Income generation	01	25	--	25	-	-	-	-

Animal Science	29/08/09	Dairy farming	Income generation	01	13	--	13	-	-	-	-
Crop Production	12/09/09	Technique for vermi composting	Income generation	01	20	0	20	-	-	-	-
<b>Total</b>				<b>05</b>	<b>58</b>	<b>41</b>	<b>99</b>	-	-	-	-

### E) Sponsored Training Programmes

S l. No	Date	Title	DISCIPLINE	Thematic area	Duration (days)	Client (PF/RV/EF)	No. of courses	No. of Participants									Sponsoring Agency
								Others			SC/ST			Total			
								M	F	T	M	F	T	M	F	T	
1	09/12/09	Hitech Horticulture	Horticulture	--	1	M	1	45	0	45	10	0	10	55	0	55	Deptt. of Horticulture, Surendranagar

2	02/02/10	Production technology of summer groundnut & sesame	Crop production	--	1	M	1	150	0	150	15	0	15	165	0	165	KRIBHCO, Surendranagar
3	10/02/10	Effect of fertilizer on cumin	Crop production	--	1	M	1	85	0	85	9	0	9	94	0	94	GNFC, Surendranagar
<b>Total</b>					<b>3</b>	<b>--</b>	<b>3</b>	<b>280</b>	<b>0</b>	<b>280</b>	<b>34</b>	<b>0</b>	<b>34</b>	<b>314</b>	<b>0</b>	<b>314</b>	<b>--</b>

### 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
<b>Field Day</b>	Greengram 26/8/09	1	17	0	17	2	0	2	-	-	-	19	0	19
	Muth 28/8/09	1	22	0	22	2	0	2	-	-	-	24	0	24
	Greengram 29/8/09	1	15	0	15	2	0	2	-	-	-	17	0	17
	Sesame 3/9/09	1	22	0	22	4	0	4	-	-	-	26	0	26
	Groundnut 24/9/09	1	19	0	19	4	0	4	-	-	-	23	0	23



Sesame 30/9/09	1	16	0	16	3	0	3	-	-	-	19	0	19	
Groundnut 3/11/09	1	16	0	16	4	0	4	-	-	-	20	0	20	
Cotton 6/11/09	1	14	0	14	3	0	3	-	-	-	17	0	17	
Cotton 20/11/09	1	17	0	17	7	0	7	-	-	-	24	0	24	
Cotton 25/11/09	1	14	0	14	3	0	3	-	-	-	17	0	17	
Cotton 30/11/09	1	18	0	18	2	0	2	-	-	-	20	0	20	
Cotton 8/12/09	1	18	0	18	2	0	2	-	-	-	20	0	20	
Cotton 14/12/09	1	14	0	14	3	0	3	-	-	-	17	0	17	
Mutard 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 16/2/10	1	18	0	18	2	0	2	-	-	-	20	0	20	
Wheat 25/2/10	1	19	0	19	3	0	3	-	-	-	22	0	22	
<b>Total</b>		<b>19</b>	<b>339</b>	<b>0</b>	<b>339</b>	<b>56</b>	<b>0</b>	<b>56</b>	-	-	-	<b>395</b>	<b>0</b>	<b>395</b>

Kisan Mela	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	9	133	0	133	22	0	22	-	-	-	155	0	155	
Exhibition	-	-	-	-	-	-	-	-	-	-	-	-	-	
Film Show	1	-	-	-	-	-	-	-	-	-	0	37	37	
Method Demonstrations	-	-	-	-	-	-	-	-	-	-	-	-	-	
Farmers Meeting	6	111	0	111	30	0	30	2	0	2	141	0	141	
Khedut Shibir	4	903	0	903	145	0	145	5	0	5	1048	0	1048	
Night Meeting	10	164	47	211	42	16	58	-	-	-	206	63	269	
Workshop	1	120	0	120	12	0	12	4	0	4	132	0	132	
Group meetings	10	-	-	-	-	-	-	-	-	-	-	-	-	
Lectures	4	-	-	-	-	-	-	120	0	120	120	0	120	

delivered as resource persons														
Newspaper coverage	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Radio talks	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TV talks	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Popular articles	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extension Literature	13	-	-	-	-	-	-	-	-	-	-	-	-	-
Advisory Services	92	-	-	-	-	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	18	72	0	72	12	0	12	-	-	-	84	0	84	
Farmers visit to KVK	28	-	-	-	-	-	-	20	8	28	214	326	540	
Diagnostic visits	18	72	0	72	12	0	12	-	-	-	84	0	84	
Exposure visits	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-	-	-	-	
Soil health Camp	-	-	-	-	-	-	-	-	-	-	-	-	-	
Animal Health Camp	3	-	-	-	-	-	-	-	-	-	90 animals			
Celebration of important days (Technology week)	1	-	-	-	-	-	-	-	-	-	261	50	311	
<b>Grand Total</b>		<b>1914</b>	<b>47</b>	<b>1961</b>	<b>331</b>	<b>16</b>	<b>347</b>	<b>151</b>	<b>8</b>	<b>159</b>	<b>2840</b>	<b>476</b>	<b>3316</b>	

### 3.5 Production and supply of Technological products

#### SEED MATERIALS:

Major group/class	Crop	Variety	Quantity (Kg.)	Value (Rs.)	Provided to No. of Farmers
<b>CEREALS</b>	-	-	-	-	-
<b>OILSEEDS</b>	Sesamum	Guj-3	235	23500	60
<b>PULSES</b>	-	-	-	-	-
<b>VEGETABLES</b>	-	-	-	-	-
<b>FLOWER CROPS</b>	-	-	-	-	-
<b>OTHERS (Specify)</b>	-	-	-	-	-

#### SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	-	-	-
2	OILSEEDS	235	23500	60
3	PULSES	-	-	-
4	VEGETABLES	-	-	-
5	FLOWER CROPS	-	-	-
6	OTHERS	-	-	-
<b>TOTAL</b>		<b>235</b>	<b>23500</b>	<b>60</b>

**PLANTING MATERIALS :NIL**

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

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
<b>Research papers</b>	Hetreosis in sesame ( <i>Sesame indicum</i> 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	Suratria G.S., Vora	--

	in sesame on sulphur and micronutrient availability in sandy loam soil	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.	--
<b>Total</b>	<b>05</b>	<b>--</b>	<b>--</b>
<b>Leaflets/folders</b>	Surendranagar jilano 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. and Javia R.M.	1000
	Jal sangrah ane teni vividh paddhati	Prajapati G.V. and Javia R.M.	1000
	Khedut mahilao ane poshankham 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

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Leaflets/folders</b>	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

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<b>Total</b>	<b>13</b>	--	<b>13000</b>
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**(C) Details of Electronic Media Produced :**

<b>Sr. No.</b>	<b>Type of media (CD / VCD / DVD / Audio-Cassette)</b>	<b>Title of the programme</b>	<b>Number</b>
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**3.7. Success stories/Case studies****Success Story-1.****Additional Income generating from Prawn cultivation****Name :** Mr. Nathabhai Sanghani**Village:** Moti-Moladi (Chotila)**District:** Surendranagar

**Mo. Number:** 099098 76051

Mr. Nathbhai Somabhai Sanghani is a progressive farmer of Moti Moladi village of Chotila Taluka, District Surendranagar. He has 8 ha. land. The field is much undulated due to hilly region. Initially he leveled his field in small in size by terracing and filled the soils of ponds and starts to grow field crops. He takes seasonal field crops like Cotton, wheat, summer Perl millet pulses like Green gram etc and grow chilies. He constructed a pacca pond having 27,00,000 lit Water storage capacity for the irrigation purpose. When he contacted the KVK- Nana-Kandhasar discuss in detail about the situation of own farming. Finally he starts to grow the crops according the recommendation suggested by the KVK. Finally he gets the bumper production of the crops. As a results he honored by the Sardar Smurti Award-2009 for Scientific cultivation of Wheat Crop by the Junagadh Agricultural University. He represents as a SAC member of the KVK – Nana-Kandhasar. Hence, he keeps regularly touch with KVK. A long discussion with the KVK Scientists an Innovative suggestion of Prawn culture cultivation given by KVK team considering his resource availability. After some time he started the new enterprises at previously constructed water storage pond. Initially he buys about 30,000 seeds of prawn from Fisheries Department, Govt. of Gujarat in the year 2007-08. The Initial cost of seeds was Rs.1500. After 2 years, he sold them after attain the weight of average 0.800 to 1.00kg per Prawn at price of 30-40/kg. He told that there is more profit along with farming there is Extra income of Rs.1.5 to 2.0 lakh from adopting the enterprise.

**Impact:** this innovation very income generating along with agriculture which will improve the economic condition of farmers of saurashtra area.

## **Success Story-2.**

**Value addition in wheat by adoption of Processing plant**

**Name :** Mr. Bharatbhai Jaymalbhai Jadav

**Village:** Dhedhuki (Sayla)

**District:** Surendranagar

**Mo. Number:** 098797 82763

Surendranagar is a one of District of Saurashtra region. The district has 10 talukas with 658 villages. Total geographical area of the district is about 10,45,828 hectares. It is noteworthy to find that 67% of the geographical area is under cultivation i.e.7,02,044 ha. Cotton, Bajara, Ground nut, Sesamum, Castor and Pulse are main Kharif Crops. Wheat, Cumin and Funnel are 3 main Rabi crops, Wheat covered 31,940 ha & Cumin covered 74,900 ha.

Shri Bharatbhai J. Jadav a higher secondary passed farmer from Dheduki Village Taluka Sayala Dist. Surendranagar. There are four family members. He is owner of seven ha. land. He also doing some black-smithy works from his home to repair the agricultural implements. From 2006 he was in constant touch with the scientist of Krishi Vigyan Kendra (Jungadh Agricultural University) Nana-Kandhsar, which is only 8 K.M. away from his native place. He attended Various Training Programs and demonstrations

organized by the KVK time to time. Last year he asked about the mobile seed processing unit demonstrated at the KVK Farm. The KVK team told him about the advantages of the seeds grading and details about the value addition of the farm produce then the KVK staff carefully analyzed the condition of Bharatbhai J.Jadav & advised him to start a processing unit in his village. He collects all the Information about the Mobile Seed Processing

Unit from the KVK. He decides to establish the seed grading Machine at the home and in current season he starts the programme from his home. It is possible to process the Wheat grains at home. This machine's capacity is 5-6qt./hour. Bharatbhai J. Jadav not only generates employment for himself but also give the additional employment to the villagers. In general, he earns about Rs.225-250 per quintal more higher price then the general ungraded wheat. He also earn the income by purchasing the wheat from local farmers at the rate of market price and after processing he sold them at the higher price i.e. 250/quintal more then unprocessed wheat. He also gets extra income average Rs.100 rupees per quintal when other farmer needs to process his wheat. It is fruitful achievement of Bharatbhai J. Jadav by the adoption of this technology.

### **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)**

	<b>Crop</b>	<b>ITK Practiced</b>	<b>Purpose of ITK</b>
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	To control the heleothis, pink boll worm, semi

		heleothis, pink boll worm, semi looper	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 : Procedure started
- 1. Year of establishment : 2010-11
- 2. List of equipments purchased with amount : --

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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
GW-366	35	15	47000	51000
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	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	Night meeting, training, treatment camp	3	--	--

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

## **5. LINKAGES**

**- Functional linkage with different organizations**

<b>Name of organization</b>	<b>Nature of linkage</b>
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.)	
			Recurring	Nonrecurring
RKVY	October-2008	State Govt	4,83,000/-	59,43,300/-

**5.3 Details of linkage with ATMA**

a) Is ATMA implemented in your district: Yes

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
--	--	--	--

**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	Groundnut	12-14/07/09	7-11/11/09	7.0	GG-2	Breeder	975	Farm use	--
2	Groundnut	22 & 27/05/09	3/10/09	2.0	GG-20	General	330	Farm use	--
3	Sesamum	14/07/09	2/10/09	1.20	Guj.Til-3	General	235	235	23500
4	Cumin	18-19/11/09	26-27/2/10	1.0	Guj.-4	General	234	--	--
5	Wheat	20 & 24/11/09	2-3/4/10	1.0	GW-496	General	2433	--	--

**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 (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				M	F	T	M	F	T

2/6/09	Efficient use of harvested water	PF	1	12	0	12	2	0	2
20/8/09	Rain water management technology	PF	1	12	0	12	1	0	1

### 6.6 Utilization of hostel facilities:

Accommodation available (No. of beds): bed & furniture not available

## 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 2009 -10

Sr. No.	Items/Head	Sanctioned grant (Council's share)	Grant received (Council's share)	Expenditure (Council's share)	Variation	
					(+) Saving	(-) Excess
1	Pay & Allowances	39,00,000	--	33,29,667	5,70,333	--
2	Traveling Allowances	01,00,000	--	67,342	32658	--
3	Contingencies	07,00,000	--	6,98,971	1029	--

a.	Stationary, Telephone, Postage and other expenditure on office running	1,75,000		96,862	--	--
b.	POL, repair of vehicles, tractor and equipments	1,00,000		76,038	--	--
c.	Meals/refreshments of trainees	85,000		22,664	--	--
d.	Training materials	90,000		2,08,094	--	--
e.	Frontline demonstration except oilseeds and pulses	1,05,000		38,060	--	--
f.	On farm testing	70,000		1,73,593	--	--
g.	Training of extension functionaries	50,000		83,660	--	--
h.	Maintenance of building	25,000		00	--	--
	<b>TOTAL-A</b>	<b>47,00,000</b>	--	<b>40,95,980</b>	<b>6,04,020</b>	--
<b>1</b>	<b>Equipments</b>	<b>75,000</b>	--	<b>24,300</b>	<b>50,700</b>	--
	i. Camera	25,000		24,300	700	--
	ii. Generator	50,000		00	50,000	--
<b>2</b>	<b>Library</b>	<b>10,000</b>	--	<b>9,272</b>	<b>728</b>	--
						--
	<b>TOTAL-B</b>	<b>85,000</b>	--	<b>33,572</b>	<b>51428</b>	--
	<b>GRAND TOTAL</b>	<b>47,85,000</b>	<b>39,34,000+</b> <b>8,51,368</b> <b>(OB)</b> <b>=47,85,368</b>	<b>41,29,552</b>	<b>6,55,448</b>	

### 7.3 Status of revolving fund (Rs.) as on 31<sup>st</sup> March - 2010

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2005 to March 2006	1,00,000	--	--	1,00,000



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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

**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**

<b>Sl. No</b>	<b>Technology</b>	<b>Crop/ enterprise</b>	<b>Year of release or recommendation of technology</b>	<b>Source of technology</b>	<b>Reference /citation</b>
1.	Variety : GG-20	Groundnut	1991	G.A.U., S.K. Nagar	--
2.	Application of Trichoderma against stem rot disease in Groundnut		--	J.A.U., Junagadh	--
3.	Variety : Guj. Sesamum-2	Sesamum	2006	J.A.U., Junagadh	--
4	Effect of supplementary irrigation on yield of sesamum		--	J.A.U., Junagadh	--
5	Variety : Guj. Greengram - 4	Greengram	2002	G.A.U., S.K. Nagar	--
6	Variety : Guj. Muth - 2	Muth	2005	S.K.A.U., S.K. Nagar	--
7	Variety : RCH-2 (Bt)	Cotton	--	--	--
8	Management of sucking pest in cotton		--	J.A.U., Junagadh	--
9	Variety : Guj. Mustard-3	Mustard	2004	S.K.A.U., S.K. Nagar	--
10	Variety : Guj. Gram - 3	Gram	2008	J.A.U., Junagadh	--
11	Variety : Guj. Cumin - 4	Cumin	2002	G.A.U., S.K. Nagar	--
12	Variety : GW-366	Wheat	2006	J.A.U., Junagadh	--

## 1. Activity Chart

<b>Crop/ Animal/ Enterprise</b>	<b>Problem</b>	<b>Cause</b>	<b>Solution</b>	<b>Activity</b>	<b>Reference of Technology</b>
Groundnut	Low yield	--	Improved variety	FLD, Training, Field day	G.A.U., S.K. Nagar
	Low yield	Stem rot disease infestation	Application of Trichoderma against stem rot disease in Groundnut	OFT, Training, Field day	J.A.U., Junagadh
Sesamum	Low yield	--	Improved variety	FLD, Training, Field day	J.A.U., Junagadh
	Low yield	Iritic and irregular rainfall	Effect of supplementary irrigation on yield of sesamum	OFT, Training, Field day	J.A.U., Junagadh
Greengram	Low yield	--	Improved variety	FLD, Training, Field day	G.A.U., S.K. Nagar
Muth	Low yield	--	Improved variety	FLD, Training, Field day	S.K.A.U., S.K. Nagar
Cotton	Low yield	--	Improved variety	FLD, Training, Field day	--
	Low yield	Infestation of sucking pest	Management of sucking pest in cotton	OFT, Training, Field day	J.A.U., Junagadh
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

## II. ACTION PLAN (April-10 to March-11)

### On Campus training

Subject	Title of Training	Dura Days	Probable date	No. of parti.	Type Of Parti.
<b>I. Quarter : (1<sup>st</sup> April to 30<sup>th</sup> June, 2010)</b>					
Crop Production	- Judicious use of weedicides in field crops	1	11/05/10	25	F
	- Production technology of cotton and groundnut	1	01/06/10	25	F
Plant Protection	- IPM in Cotton	1	10/05/10	25	F
Home Sci	- Preparation of banana and potato wafers	1	13/05/10	25	RY
	- Training on making of glycerin soap and hair oil	1	23/06/10	25	RY
	- Make SHG and trained them on income generating activities	1	08/06/10	25	FW
Extension Education	-Effect of global warming and climatic changes in Agriculture	1	12/05/10	25	F
Animal Science	- Increase nutritive value of low quality roughages for milch animals	1	14/05/10	25	F
	- Care and management of Buffalo during summer	1	01/06/10	25	F
Agril. Engg.	- In-situ moisture conservation practices in dry Farming.	1	15/06/10	25	F
Seed Production	- Pure seeds production technique in Sesamum	1	24/06/10	25	F
<b>II. Quarter : (1<sup>st</sup> July to 30<sup>th</sup> September, 2010)</b>					
Crop Production	- Castor production technology	1	15/07/10	25	F
Plant Protection	- IPM in Castor	1	17/08/10	25	F
Home science	- Use of solar cooker	1	03/08/10	25	FW
	- Training on income generating activities to SHG groups	1	13/08/10	25	FW
Extension Education	-Effect of global warming and climatic changes in Agriculture	1	10/08/10	25	F
Agril. Engg.	- Rain water management technology	1	05/07/10	25	F
Ani. Science	- Importance and Use of green fodder in milk production	1	21/07/10	25	F

Subject	Title of Training	Dura Days	Probable date	No. of parti.	Type Of Parti.
<b>III. Quarter : (1st October to 31st December, 2010)</b>					
Crop Production	- Improved cultivation practices for wheat & cumin	1	22/10/10	25	F
Plant Protection	- Plant protection measures for pest and disease in cumin	1	27/10/10	25	F
Seed Production	- Pure seeds production technique in Cumin & Wheat	1	30/10/10	25	F
Agril. Engg.	- Govt. subsidy in drips, sprinklers and agricultural implements.	1	02/11/10	25	F
Animal Science	- Low cost technology for higher milk production	1	10/11/10	25	F
	- Care & management of Animals during winter	1	21/12/10	25	F
Home Science	- Kitchen gardening	1	24/12/10	25	FW
Extension Education	-Effect of global warming and climatic changes in Agriculture	1	28/12/10	25	F
<b>IV. Quarter : ( 1<sup>st</sup> January to 31<sup>st</sup> March, 2011)</b>					
Crop Production	- Organic residue & farm waste management	1	20/02/11	25	F
Plant Protection	- Importance of IPM	1	10/03/11	25	F
Home Science	- Soybean –its importance in human diet and different preparations for high nutrient efficiency diet	1	09/01/11	25	FW
Agril. Engg.	- Efficient use of harvested water	1	15/01/11	25	RY
Animal Science	- Selection of breed of milch animals for economical milk production	1	07/01/11	25	FW
	- Importance of colostrums in calves	1	18/02/11	25	FW
Extension Education	-Effect of global warming and climatic changes in Agriculture	1	17/03/11	25	F

## Off Campus training

Subject	Title of Training	Dura Days	Probable date	No. of parti.	Type of Parti.
<b>I. Quarter : (1<sup>st</sup> April to 30<sup>th</sup> June, 2010)</b>					
Crop Production	- Soil sampling methods	1	08/04/10	25	F
	- Integrated Nutrient Management in major Kharif field crops	1	10/06/10	25	F
Pl. Protection	- Management of pest and disease of Sesame	1	08/06/10	25	F
	- IPM in Groundnut	1	15/06/10	25	F
Home Science	- Scientific method of food grain storage	1	20/05/10	25	FW
	- Balance diet for pregnant women and children	1	07/06/10	25	FW
	- Training on bag making and Candle making	1	11/06/10	25	RY
	- Importance of pulses in balance diet	1	14/07/10	25	FW
Extension Education	- Government subsidy schemes in agriculture	1	15/05/10	25	F
Animal Science	- Use of mineral mixture for balance feeding	1	19/05/10	25	F
	- Urea treatment in wheat straw	1	09/06/10	25	F
Agril. Engg	- Introduction of effective & improved agricultural equipments	1	25/06/10	25	F
<b>II. Quarter : (1<sup>st</sup> July to 30<sup>th</sup> September, 2010)</b>					
Crop Production	- Importance of Thinning, Gap filling & maintenance of Plant population in major Kharif crops	1	02/07/10	25	F
	- Production technology of Mustard & Gram	1	24/09/10	25	F
Pl. Protection	- IPM in Vegetables	1	12/07/10	25	F
	- Control measures for pest and disease of kharif Pulses	1	24/08/10	25	F
Home science	- Tomato preservation	1	30/07/10	25	FW
	- Formation of SHG	1	05/08/10	25	FW
Animal Science	- Health care of livestock during monsoon	1	03/07/10	25	F
	- Preventive measure and first Aid treatment of IMP disease in dairy animals	1	20/08/10	25	F
Agril. Engg.	- Farm implements and their use	1	10/07/10	25	F
	- Introduction and use of Chaff-Cutter.	1	09/08/10	25	F
Seed Production	- Pure seed production technique in Sesamum	1	08/07/10	25	F
	- Pure seed production technique in Sesamum	1	13/07/10	25	F
	- Pure seed production technique in Sesamum	1	28/07/10	25	F

Subject	Title of Training	Dura Days	Probable date	No. of parti	Type of Parti
<b>III. Quarter : (1st October to 31st December, 2010)</b>					
Crop Production	- Integrated weed management in major rabi field crops	1	23/10/10	25	F
	- Efficient water management in major rabi field crops	1	29/10/10	25	F
Plant Protection	- Plant protection measures in Castor & Mustard crops	1	05/11/10	25	F
	- Control measures for pest and disease in Cumin and Wheat	1	11/12/10	25	F
Seed Production	- Pure seeds production technique in Cumin	1	20/11/10	25	RY
	- Pure seeds production technique in Wheat	1	26/11/10	25	RY
Animal Science	- Care and Management of Milch animals	1	07/11/10	25	F
	- Foot and Mouth disease and its control	1	19/11/10	25	F
Home science	- Use of sprouted pulses in preparation of low cost nutrition diet	1	09/11/10	25	FW
	- Preparation and preservation of fruits and vegetables	1	19/12/10	25	FW
Agril. Engg.	- Trouble shooting of micro irrigation system	1	15/12/10	25	RY
<b>IV. Quarter : ( 1<sup>st</sup> January to 31<sup>st</sup> March, 2011)</b>					
Crop Production	- Production technology of summer groundnut	1	05/01/11	25	F
	- Preparation of enriched Compost	1	17/03/11	25	F
Pl. Protection	- Efficient use of chemical pesticides	1	11/01/11	25	F
	- Precautions while handling pesticides	1	10/02/11	25	F
Animal Science	- Importance of Artificial Insemination in animals	1	20/01/11	25	F
	Care and management of calves	1	26/02/11	25	F
Home Science	- Preparation and preservation of milk and milk product	1	19/02/11	25	FW
	Drudgery reducing devices for farmwomen	1	20/03/11	25	FW
Agril. Engg.	Introduction to new developed farm implements and their use	1	04/01/11	25	F
Agri Ext	- Formation of Kishan clubs	1	17/02/11	25	RY
Seed Production	- Pure seeds production technique in Cumin	1	02/01/11	25	RY
	- Pure seeds production technique in Wheat	1	06/01/11	25	RY

## Vocational Training

Sr. No.	Discipline	Title of Training	Dura. Days	Type of parti
1.	NRM	Technique for vermi-composting	2	RY
2.	Home science	Preparation of different masala	2	FW
		Rice, urad papad, Khakhara and vadi making	2	FW
3	Animal science	Dairy farming	2	PF
4	Agril. Eng.	Repair & maintenance of sprayer, power sprayer & duster	2	RY

## Training for Extension Functionaries (In-service)

Sr. No.	Title of Training	Dura. Days	No. of parti.	Type of parti.
1.	Cotton production technology	1	25	Ext Workers
2.	Pre-seasonal training on <i>Kharif</i> crops	1	25	Ext Workers
3.	Pre-seasonal training on <i>Rabi</i> crops	1	25	Ext Workers
4.	Nutrition Education to Anganwadi Worker	1	25	Anganwadi worker

## Training Programme: Quarter wise Summary

Sr. No.	Subject	On Campus					Off Campus					G.T.
		I	II	III	IV	T	I	II	III	IV	T	
1.	Crop Production	2	1	1	1	5	2	2	2	2	8	13
2.	Pl. Protection	1	1	1	1	4	2	2	2	2	8	12
3.	Home science	3	2	1	1	7	4	2	2	2	10	17
4.	Agril. Extension	1	1	1	1	4	1	-	-	1	2	06
5.	Animal Science	2	1	2	2	7	2	2	2	2	8	15
6.	Agril. Engineering	1	1	1	1	4	1	2	1	1	5	09
7.	Seed Production	1	-	1	-	2	-	3	2	2	7	09
	<b>Total</b>	<b>11</b>	<b>7</b>	<b>8</b>	<b>7</b>	<b>33</b>	<b>12</b>	<b>13</b>	<b>11</b>	<b>12</b>	<b>48</b>	<b>81</b>



## Summary of Training Programme

Sr. No.	Subject	On campus	Off campus	Total
1.	Crop Production	5	8	13
2.	Plant protection	4	8	12
3.	Home science	7	10	17
4.	Agricultural Extension	4	2	06
5.	Animal Science	7	8	15
6.	Agril. Engineering	4	5	09
7.	Seed Production	2	7	09
	<b>Total (A)</b>	<b>33</b>	<b>48</b>	<b>81</b>
8.	- Vocational training	3	2	5
9.	- In service training	2	2	4
10.	- Sponsored	-	2	2
	<b>Total (B)</b>	<b>11</b>	<b>6</b>	<b>11</b>
<b>TOTAL (A+B)</b>		<b>44</b>	<b>54</b>	<b>92</b>
<b>RKVY</b>		<b>00</b>	<b>30</b>	<b>30</b>
<b>GRAND TOTAL</b>		<b>44</b>	<b>84</b>	<b>122</b>

## Physical Targets of FLD's to be conducted during 2010-11

Particulars of the FLD	Season	Crop	Area (in ha)	No. of Demo.
<b>Oilseeds</b>	<i>Khariif</i>	Groundnut	4	10
		Sesamum	4	10
	<i>Rabi</i>	Mustard	4	10
<b>Pulses</b>	<i>Khariif</i>	Green gram	4	10
	<i>Rabi</i>	Gram	4	10
<b>Other Crops</b>	<i>Rabi</i>	Cumin	8	20
		Wheat	8	20
		Maize	4	10
<b>Other FLD</b>				
<b>1. Trichoderma culture</b>	<i>Khariif</i>	Groundnut	2.0	05
<b>2. Farm Composting</b>	<i>Khariif</i>	--	--	10
<b>3. Cotton Mini-mission</b>	<i>Khariif</i>	Cotton	10.0	25
<b>4. Deworming of animal</b>	--	Buffalo	--	20
<b>5. Demonstration on Cotton + soyabean intercropping</b>	<i>Khariif</i>	Cotton + Soya bean	1.5	03
<b>TOTAL FLD</b>			<b>53.5</b>	<b>163</b>

## Physical Targets of OFT's to be conducted during 2010-11

### 1. Low yield of cotton.

<b>Objective</b>	<b>To increase the yield by balance fertilization</b>
<b>Reason for low yield of Cotton</b>	<ol style="list-style-type: none"> <li>1. Unbalance fertilization.</li> <li>2. Problems of sucking pest.</li> <li>3. Lack of knowledge of fertilization.</li> <li>4. Less use of organic manure in soil.</li> </ol>
<b>Technical Intervention</b>	Balance fertilization.
<b>Treatments</b>	<ol style="list-style-type: none"> <li>1. Farmers practice</li> <li>2. Recommended dose of fertilizer (160-0-0 NPK kg/ha) in four split.</li> <li>3. T-2 + 50 kg P<sub>2</sub>O<sub>5</sub> /ha through DAP + 50 kg K<sub>2</sub>O/ha through MOP as a basal dose.</li> <li>4. T-3 + 25 kg MgSo<sub>4</sub>/ha + 10 kg ZnSo<sub>4</sub>/ha as a basal dose.</li> </ol>

### 2. Management of Mealy bug infestation in Cotton.

<b>Objective</b>	<b>To minimize the incidence of mealy bug in cotton.</b>
<b>Reason for low yield of Cotton</b>	<ol style="list-style-type: none"> <li>1. Lack of knowledge about the use of particular pesticides.</li> <li>2. No adoption of recommended practices.</li> <li>3. Farmers follows instruction given by the local pesticides retailer.</li> </ol>
<b>Technical Intervention</b>	Management of mealy bug in cotton.
<b>Treatments</b>	<ol style="list-style-type: none"> <li>1. Farmers practice (Use of conventional insecticides after infestation)</li> <li>2. Recommended practices: pre-sowing application of Methyl parathion 2% Dust, application of insecticides at the time of infestation &amp; Recommended cultural practices.</li> <li>3. Dusting of Methyl parathion 2% dust as &amp; when required, application of bio-pesticides (Beaveria spp. or Verticillium spp.)</li> </ol>

### 3. Reduction of Inter-Calving Period in Buffalo

<b>Objective</b>	To decrease the inter-calving period in Buffalo
<b>Reason of long inter-calving period</b>	<ol style="list-style-type: none"> <li>1. Imbalance feeding</li> <li>2. Anestrus</li> <li>3. Poor management</li> </ol>
<b>Possible solutions</b>	<ol style="list-style-type: none"> <li>1. Use of mineral mixture</li> <li>2. Use of capsule like Bio-Heat</li> <li>3. Use of Panacure tablets</li> </ol>
<b>Treatments</b>	<ol style="list-style-type: none"> <li>1. Farmer's Practice (Control)</li> <li>2. Panacure (1.5 gm) + Vetcominforte (1 Kg)</li> <li>3. Bio-heat (1 No.) + Vetcominforte (1 Kg)</li> <li>4. Panacure (1.5 gm) + Bio-heat (1 No.)</li> </ol>

#### 4. Feeding of protein and energy rich diet to children to cure protein energy malnutrition in rural area (Age group – 1 to 3 yrs)

<b>Objective</b>	<b>To cure malnutrition in rural child of age group of 1-3 years</b>
<b>Reason for protein energy deficiency</b>	1. Lack of knowledge. 2. Poor economic condition. 3. Lack of nutritional management.
<b>Possible solutions</b>	1. Use of milk and different milk product. 2. Use of cereal, pulse and fat mixture. 3. Use of sprouted pulses, cereals and fat mixture.
<b>Treatments</b>	1. Control without any extra food (Control) 2. Use a mixture of cereals (30 gm) + pulses (10 gm) + Ghee (5 gm) for second group of children (Age group – 1 to 3 years) 3. 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)

#### Method Demonstration

Sr No.	Name of demo unit
1	Urea treatment in wheat straw
2	Vermi composting

#### Other Extension activities

Sr. No.	Activity	Proposed number
1	Kisan mela	01
2	Field day	20
3	Kisan gosthi	10
4	Radio / TV talk	07
5	Film shows	01
6	Exhibition	01
7	News paper coverage	10
8	Popular articles	10
9	Extension literature	
	1. Folder / pamphlets	07
	2 Video film show	12
10	Advisory services	<b>As &amp; when required</b>
11	Animal treatment camp	05
12	Diagnostic services	
	1. Farmers visit to KVK	--
	2. Scientists visit to farmers field	<b>As &amp; when required</b>
13	Kisan Mahila Meeting	01
14	Celebration of important days / Week	02