ANNUAL PROGRESS REPORT-2010-11

(APRIL - 2010 TO MARCH-2011)

&

ACTION PLAN

(APRIL - 2011 TO MARCH-2012)

OF

KRISHI VIGYAN KENDRA JAMNAGAR

TO BE PRESENTED AT
ANNUAL ZONAL WORKSHOP OF ZONE-VI
(Rajasthan & Gujarat)

PREPARED/COMPILED By
Dr. K. P. Baraiya, Senior Scientist & Head
Smt. A. K. Baraiya, Scientist
Dr. N. B. Jadav, Scientist

KRISHI VIGYAN KENDRA

JUNAGADH AGRICULTURAL UNIVERSITY
AIRFORCE ROAD, OPP. DIGJAM MILL
JAMNAGAR-361 006
GUJARAT

ANNUAL PROGRESS REPORT-2010-11

(01.04.2010 TO 31.03.2011)

KRISHI VIGYAN KENDRA

JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Web address
	Office	FAX		
Krishi Vigyan Kendra Millet Research Station, JAU, Airforce Road, Opp. Digjam Mill Jamnagar- 361 006	(0288) 2710165	(0288) 2710165	kvkjamnagar@jau.in	www.jau.in

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

Address	Telephone		E-mail	Web address
	Office	FAX		
Junagadh Agricultural University, Junagadh – 362 001 (Gujarat)	PBX 2672080-90	(0285) 2672653	dee@jau.in	www.jau.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. H.R. Khafi	I/c. Programme Coordinator Krishi Vigyan Kendra Junagadh Agricultural University, Airforce Road, Opp. Digjam Mill Jamnagar- 361 006	9979207927	kvkjamnagar @jau.in

1.4. Year of sanction:

2001, Letter No. F.No. 18(4)/99-NATP Dated October 31st, 2001

1.5. Staff Position (as on 28th February 2011)

Sl. No.	Sanctioned post	Name of the incumbent	Desig-nation	Discipline	Highest qualify-cation	Pay Scale	Present basic	Date of joining	Perm-anent /Temp-orary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. H.R. Khafi (I/C)	Prog.Co-ord.	Agronomy	Ph. D	37000-67000		19-04-10	temp	Others
2	Subject Matter Specialist	Dr. N. B. Jadav	SMS	Extension Education	Ph.D.	15600 - 39100	18320	18-08-06	Temp.	OBC
3	Subject Matter Specialist	Smt. A. K. Baraiya	SMS	Home Science	M.Sc.	15600 - 39100	8000	17-08-06	Temp.	Other
4	Subject Matter Specialist	Dr. G.M. Parmar	SMS	Plant Protection	Ph. D.	15600-39100		01-01-11	Temp	OBC
5	Subject Matter Specialist	Dr. J. N. Thaker	SMS	Fisheries	Ph.D.	15600 - 39100	9100	31-08-06	Temp.	Other
6	Subject Matter Specialist	Er.V.K. Chandegara	SMS	Agril. Engineering	M.Tech	15600-39100	20590	06-01-11	Temp	OBC
7	Subject Matter Specialist	Vaccant	SMS	Horti.	-	15600 - 39100	-	-	-	-
8	Programme Assistant	Shri P. S. Gorfad	Prog. Asstt.	Extension Education	M.Sc.	9300-34800	18750	24-3-95	Temp.	OBC
9	Computer Programmer	Shri R.G. Panseria	Prog. Asstt.	Computer Operator	B.C.A., P.T.C.	5500-9000	6000	30-12-08 Pool at IT)	Fix Pay	Other
10	Farm Manager	Shri A. M. Hadiya	Prog. Asstt.	PBG	M.Sc.	5500-9000	6000	6-1-09	Fix Pay	OBC
11	Accountant / Superintendent	Shri. J. P. Bhatt	Sr. Clerk	Adm.	-	5200-2020	109700	09.02.11	Temp	Others
12	Stenographer	Vaccant	Sr. Clerk	Adm.	-	4000-6000	-	-	-	-
13	Driver	Shri R.R. Karmata	Driver	Supt.	7 STD.	4000-6000	4500	9-10-07	Temp.	S.T.
14	Driver	Shri. D.M. Chauhan	Driver	Supt. (Fix)	9 STD	2500	4500	9-10-07	Temp.	S. T.
15	Supporting staff	Shri H.G. Langa	Peon	Supt.	7 STD	2550-3200	7470	1-10-04	Temp.	OBC
16	Supporting staff	Shri P. S. Damor	Peon	Supt. (Fix)	12 STD.	1500	3500	1-9-06	Fix Pay	S. T.

1.6. Total land with KVK (in ha) : 20.44 ha

Sl. No.	Item	Area in hectare(s)*
1	Under Building and Road	-
2	Under Demonstration units	0.7
3	Under crops	13.56

4	Orchard	3.5
5	Agro-forestry	0.24
6	Others (Farm Pond & Channels)	2.00
	Total	**20.44**

1.7. Infrastructural Development:

A) Buildings

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Comp-letion Date	Plinth area (Sq.m)	Expen-diture (Rs.)	Star-ting Date	Plinth area (Sq.m)	Status of const-ruction
1.	Administrative Building	ZC	-	-	-	-	-	Work is in progress
2.	Farmers Hostel	ZC	-	-	-	-	-	
3.	Staff Quarters (6)	-	-	-	-	-	-	
4.	Demonstration Units (2)	ZC + ATMA	31-3-2007	-	--	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	ZC	31-3-2007	26m×26m (2 Ponds) 60m×60m (1 Pond)	999000	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Toytoa Quallis	2004	490200	-	Working at junagadh on pooled basis
Jeep GJ-8 A 3442	1995-96 (Dt.- 19/5/95)	2,80,000	3,45,921	Working condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Captain Mini Tractor	2001-02	166125	Working
Telephone line	2001-02	19850	Working
Multi tool carrier complete set	2001-02	6500	Working
Photocopier	2001-02	125000	Working
Over head projector	2001-02	17600	Working
Computer	2002-03	29500	Working
HP Laser printer	2002-03	20390	Working
U.P.S. (3 KVA)	2002-03	38000	Working
Qualish (GJ-10 E-288)	2004-05 (4-12-04)	490200	Working
Spectrophotometer	2005-06	89160	Working
Flame photometer	2005-06		Working
Physical balance	2005-06	10640	Working
Chemical balance	2005-06	100000	Working
Water distillation still	2005-06	96118	Working
Kieldahi digestion and distillation	2005-06	49644	Working
Shaker	2005-06	80080	Working
Grinder	2005-06		Working
Refrigerator	2005-06	16772	Working
Oven	2005-06	30550	Working
Hot plate	2005-06		Working
Aspee tractor mounted sprayer	2006-07	32000	Working
LCD Projector	2008-09	89985	Working
Projection Sceen wall type	2008-09	2650	Working
Projection Sceen wall type (Imported)	2008-09	6030	Working
Amplifier Proto wireless	2008-09	7830	
Fax Machine	2008-09	9665	Working
Computer HCL Etlon 3800	2008-09	61064	Working
Camera SONY	2008-09	16515	Working
Digital camera (Nikon)P-90 12.1	2008-09	24300	Working
Laser PrinterLBP-3000	2008-09	5650	Working
Multi function Fax machine	2009-10	14962	Working
Air assisted blower type sprayer	2009	98750	Working
Laptop computer (HCL)	2009	47500	Working
Cotton stalk shredder	2008-09	121000	Working
Groundnut digger-tractor operated	2009	78500	Working
Cultivator cum rotavator	2009	90000	Working
Groundnut decorticator	2009	95850	Working
Multi crop thresher	2009	114000	Working
Processing Unit	2009	1685000	Working

Plantar-tractor operator	2009	44000	Working

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

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	01-10-2005	21	-	-
2.	07-10-2006	30	-	-
3.	02-11-2007	31	-	-
4.	17-10-2008	30		
5.	14-09-2009	33		
6.	29-04-2010	35	As below	As below
7	07-03-2011	34		

The Sixth Scientific Advisory Committee meeting of Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar was held at Seminar Hall, K.V.K., J.A.U., Jamnagar on 29th April, 2010.

Committee made the following recommendations after active interaction.

Sl. No.	Salient Recommendations	Action Taken	Suggested by
1.	It was suggested to increase number of off campus training (i.e. 25 to 37). He also suggested providing box type solar cooker in RKVY and imparting training on its use. He advised to invite more number of farmers from each talukas in SAC meeting for effective deliberation. He suggested that emphasized on qualitative works and strengthen the demonstration unit.	Suggestation accepted and followed	Dr. N. C. Patel Hon'ble vice Chancellor, JAU, Junagadh
2.	It was suggested that to impart on campus training on seed production and storage. In addition to this, arrange training on animal science with help of animal husbandry department.	Suggestation accepted and followed	Dr. R. L. Savaliya Directors of Extension Education, JAU, Junagadh
3.	Suggestion was made to select varieties in FLDs, i.e. GHB-744 and GCH-7 instead of GHB-558 and GCH-4 in Bajra and castor crops respectively.	Suggestation accepted and followed,	Dr. C. J. Dangariya Research Scientist, Millet Research Station, JAU, Jamnagar

4.	It was suggested arranging frontline demonstration of spice and condiments like cumin, coriander and ajwan and also pointed out to publish more press note and articles with collaboration with ATMA, Jamnagar.	Suggestation accepted and followed,	Shri P.D. Rathod, Dy. Director of Agriculture (Extension)
5.	It was suggested to grow soyabean crops as an intercrop for more net returns.	Suggestation accepted and followed,	Progressive farmer Shri Kantibhai Ajudia

- SAC proceedings along with list of participants in Annexure – I.

2. DETAILS OF DISTRICT (2010-11)

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

Sr. No.	Farming system/enterprise
1	Ground-Wheat/Cumin/coriander-Til, Cotton-Summer Groundnut/pulse/Til
2	Live stock
3	Fruit and Vegetable
4	Fishries (340 km)
5	Value addition in G'nut, Til and Coriender

2.2 Description of Agro-climatic Zone & major agro ecological

S. No	Agro-climatic Zone	Characteristics
Zone – VI	North Saurashtra	The influence area of North Saurashtra Agroclimatic Zone is spread among five districts (35.2 lakh Ha). Out of total area 73.40 per cent area falls under arid an semi-arid region. The soils of this zone are shallow to moderately deep. The soils of Jamnagar districtis medium black. Monsoon commences usually by the middle of June and withdraws by middle of September. Average annual rainfall of districts is 557 mm.

Agro – Ecological situation in the District

Sl. No.	AES	Soil texture	Altitude	Principal crops	Special features	Appro. area (000ha)	Taluka Included	Charact.
AES-1	Shallow Black soils with 500-600 mm Rainfall	Sandy clay loam to clayey	75 – 150	Groundnut, wheat, sorghum, pearlmillet	Well drained soils with rapid permeability	124	Kalawad, Jamjodhpur, Bhanvad, Okha	Moisture stress, temperature stress

AES-2	Shallow Black soils with 600-700 mm Rainfall	Clayey	75 – 150	Groundnut, wheat, sorghum, pearlmillet	Slightly well drained soils with rapid permeability	180	Part of Kalyanpur, Jamnagar, Jamkhambhalia, Lalpur, Dhrol, Jodia	Moisture stress, temperature stress
AES-3	Coastal Alluvial soils with 300-400 mm Rainfall	Clayey loam to clayey	50	Groundnut, pearlmillet, sorghum, chickpea	Low nitrogen and phosphus	181	Jodia, part of Okha, Jamkhambhalia, Kalyanpur & Jamnagar	Salt affected salinity
AES-4	Coastal Alluvial soils with 500-700 mm Rainfall	Silt clay	25-50	Groundnut, pearlmillet, sorghum, chickpea	Low nitrogen and phosphorus	299	Kalyanpur, Jodia & Jamnagar, Khambhadia, Lalpur, Dwarka	Salt affected salinity
AES-5	Coastal Alluvial shallow black soils with 300-400 mm Rainfall	Sandy loam to clay loam	0-25	Sorghum, Pearlmillet Groundnut, Sesamum	Arid climate	31	Okha	Rich in flora and funa.

2.3 Soil type

S. No	Soil type	Characteristics	Area in ha
1	Shallow black soils	Light grey in colour. Soils depth varies from 30 cm to 45 cm. They are gravelly but mainly they are sandy clay loam to clayey in texture.	124000 ha (Kalawad, Jamjodhpur, Bhanvad, Okha)
2.	Medium black soils	These residual soils have basaltic trap parent materials. These soils vary in depth from 30 to 60 cm or more at few places. They are calcareous in nature	180000 ha (Part of Kalyanpur, Jamnagar, Jamkham-bhalia, Lalpur, Dhrol, Jodia)
3.	Saline alkali soils	Texturally these soils vary from sandy loam to clay. The degree of salinity and alkalinity is also highly variable. Most of these soils are low to medium in available nitrogen and phosphorus and high in available potash.	181000 ha (Jodia, part of Okha, Jamkhambhalia, Kalyanpur & Jamnagar)
4.	Costal alluvial soils	These soils are sandy clay loam to clay in texture. These soils are also affected with salts and are saline sodic in nature. The surface soil varies from 1.54 to 38.6 m.mhos/cm in Electrical conductivity, and from 9.2 to 74.64 in Exchangeable sodium percentage. The souls are normally medium in fertility	299000 ha (Kalyanpur, Jodia & Jamnagar, Khambhadia, Lalpur, Dwarka)
5.	Hilly soils	These soils are shallow to moderately deep and are coarse to find in their texture. The texture varies from loamy sand to clay loam to clay. They have under composed rock fragments and are low in fertility status.	31000 ha (Some part of Bhanvad and Jamjodhpur)

2.4. Area, Production and Productivity of major crops cultivated in the district (Year-08)

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
	Oilseeds			
1	Groundnut	378335	5675025	15
2	Sesamum	6280	22608	3.6
3	Castor	7375	192487.5	26.1
4	Soybean	8	140	17.5
	Total Oilseeds	**391998**		
	Cash Crops			
5	Cotton	180440	4150120	23
6	sugarcane	150	7500	50
	Total Cash Crops	**180590**		
	Food Grain			
7	Wheat	58600	1881060	32.1
8	Pearlmillet	3520	46112	13.1
9	Sorghum	8100	85050	10.5
10	Maize	2850	20520	7.2
	Total Food Grains	**73070**		
	Pulse Crops			
11	Greengram	4185	23436	5.6
12	Blackgram	2910	17867.4	6.14

13	Cowpea	285	1071.6	3.76
14	Pigeon pea	175	1925	11
15	Moothbean	360	1512	4.2
16	Chickpea	31300	350560	11.2
17	Cluster bean	75	1406.25	18.75
18	Other pulses	15	0	
	Total Pulses	**39305**		
	SPICES AND CONDIMENTS			
19	Cumin	27690	146757	5.3
20	Fennel	115	241.5	2.1
21	Coriander	1460	15330	10.5
22	Ajwan	1690	6929	4.1
23	Ishabgul	150	1020	6.8
24	Chilli	740	7104	9.6
25	Garlic	7000	518000	74
26	Dill seed	50	275	5.5
	Total spices	**38895**	0	
	VEGETABLE		0	
27	Onion	2980	518520	174
28	Potato	2150	49450	23
29	Brinjal	1560	173160	111
30	Tomato	1980	301950	152.5
31	Cauliflower	440	44000	100
32	Cowpea	840	34356	40.9
33	Cabbage	435	43500	100
34	Okra	1550	85715	55.3
35	Fenugreek	40	460	11.5
36	Peach	5	10	2
37	Cucurbits	42	1596	38
38	Cluster bean	1138	46999.4	41.3
39	Other vegetable	17	484.5	28.5
	Total Vegetable	**13177**	0	
	FRUIT CROPS		0	
40	Chiku	238	21658	91
41	Pomegranate	77	4004	52
42	Citrus	173	7006.5	40.5
43	Jamun	7	14.7	2.1
44	Aonla	76	2964	39
45	Guava	15	600	40
46	Custard apple	70	3605	51.5
47	Papaya	187	86955	465
48	Coconut	380	2850000	7500
49	Ber	300	15750	52.5
50	Almond	55	2200	40
51	Banana	12	1140	95
52	Mango	425	37825	89

53	Cashew nut	7	24.5	3.5
54	Other fruits	165	8250	50
	Total Fruits	**2187**	0	
	FLOWERS		0	
55	Rose	31	1798	58
56	Merry gold	52	4576	88
57	Shevanti	1	0	
58	Lilly	7	18.9	2.7
59	Other flowers	55	1540	28
	Total flowers	**146**	0	
	OTHER CORPS		0	
60	Chikori	50	4325	86.5
61	Palma Rosa	43	5375	125
	Total Other crops	**93**		
	Fodder crops			
62	Lucern	1105	132600	120
63	Sorghum	16660	2499000	150
64	Maize	2910	0	
	Total Fodder crops	**20675**		

* Source : DAO, & Dy.Dir.Hort., Jamnagar

2.5. Weather data (April -10 to February - 2011)

Sr. no.	Meteorological week	Rainfall	No of	Temperature °c		Remarks
		(mm)*	Rainy days *	Max.	Min.	
1	14	0	-	36.5	221.1	
2	15	0	-	37.3	23.6	
3	16	0	-	38.1	24.7	
4	17	0	-	37.0	24.6	
5	18	0	-	37.5	26.2	
6	19	0	-	37.2	26.0	
7	20	0	-	38.4	26.5	
8	21	0	-	37.2	28.4	
9	22	42.5	1	36.7	27.4	
10	23	44.0	1	35.6	26.5	
11	24	0	-	37.0	28.1	
12	25	0	-	36.6	28.7	
13	26	0	-	37.1	28.0	
14	27	136.2	6	32.8	25.6	
15	28	25.1	4	33.2	26.4	

16	29	139.5	3	32.9	26.4	
17	30	435.5	7	31.1	24.5	
18	31	279.5	3	30.6	24.9	
19	32	96.7	4	30.4	25.2	
20	33	22.0	4	31.7	25.5	
21	34	11.5	1	31.4	25.5	
22	35	142.0	6	32.0	24.4	
23	36	26.5	2	30.9	25.5	
24	37	199.0	2	30.2	24.7	
25	38	0	-	32.7	24.0	
26	39	2.7	-	33.5	23.3	
27	40	0	-	36.7	24.0	
28	41	0	-	33.3	23.6	
29	42	0	-	35.0	24.9	
30	43	0	-	33.7	22.0	
31	44	0	-	32.8	21.4	
32	45	0	-	32.8	16.7	
33	46	11.5	2	32.3	22.5	
34	47	44.0	3	26.1	18.5	
35	48	0	-	27.0	14.3	
36	49	0	-	26.7	14.8	
37	50	0	-	25.5	10.9	
38	51	0	-	26.6	10.5	
39	52	0	-	25.6	11.0	
40	1	0	-	24.1	10.1	
41	2	0	-	25.3	10.0	
42	3	0	-	26.3	9.7	
43	4	0	-	27.4	11.5	
44	5	0	-	27.7	12.8	
45	6	0	-	28.2	13.1	
46	7	0.5	1	28.4	14.3	

* Source: Meteorological observatory, Millet Research Station, JAU, Jamnagar;

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

Category	**Population**	**Production**	**Productivity**
Cattle	349229	2475.2 Qtl total milk	
Crossbred			8.585 lit/day
Indigenous			3.375 lit/day
Buffalo	209616		4.451 lit/ha
Sheep	232530	295.16 lakh kg wool	
Crossbred			
Indigenous			
Goats	173022		0.274 lit/ha
Pigs		290097.9 Qtl meat	
Crossbred			
Indigenous			
Rabbits			
Poultry	38041	12.77 lakh eggs	
Hens			

Desi			
Improved			
Ducks			
Turkey and others			
Horse &	410		
Camels	2260		
Donkey	2577		
Total Milk			
Total egg			
Total wool			

: Asstt. Dir. Fisheries, Jamnagar

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

Sl. No	Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Lalpur	Rampar,Murila, Godavari, lalpur Navi-Pipar Arikhana, Navi Veraval	Cotton, groundnut, sesamum, castor, greengram, wheat, Gram, cumin, mustard, Vegetable, Soyabean, flowers, live stock	Heavy infestation of sucking pest in cotton, stem rot disease in Groundnut, Root rot in castor, Less area under horticulture crops, Blight in cumin, salinity	- ICM in major crops of the district - Introudction of soyabean as intercropping - Recycling of farm waste - Populirization of MIS - Motivation of fishries cultiavtion
2	Kalawad	Kalawad, Nani-Vavadi, Sanala,P pipaliya Hodisang, Nana badanpar			
3	Jam-khambhadia	Viramdad, Hasthal, Nagada, Jakasia, Vadatara, khambhadiya			
4	Jamnagar	Makavana, Dhundha, Chandraga, Dodhiya, Jivapar, Dhuvav			

2.8 Priority thrust areas

Sl. No	Crop/ Enterprise	Thrust area
1.	Cotton, groundnut, castor, cumin, wheat, vegetables, fruits, etc.	Integrated Crop Management in major crops
2.	Soyabean	Introduction of new crops in the districts as sole crop and inter cropping
3.	Farm waste	Recycling of farm waste through composting, vermicompost, green manuring, etc.
4.	Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques

5.	Soil	Reclamation of saline & alkaline soils
6.	Farm Women	Farm women empowerment by training in value addition, handi crafts, and small scale enterprises
7.	Fisheries	Motivation of fisheries cultivation
8.	Improved Implements	Popularization of the mechanized technological know how
9.	Agricultural Processing	Post harvest Technologyc for cereals, pulses, oilseeds, fruits and vegetables, spices and medicinal plants.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2010-11

OFT				
	Number of OFTs		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
Pearl millet	**1**	**1**	**3**	**3**
Home science	**1**	**1**	**15**	**15**
Groundnut	**1**	**1**	**3**	**3**

FLD	Area of FLD (ha)		Number of Farmers	
	Targets	**Achievement**	**Targets**	**Achievement**
***Kharif* -2010-11**				
Pearl millet	8	8	20	20
Groundnut (Trichoderma)	2	2	5	5
Groundnut (NPV)	2	2	5	5
TOTAL	**12**	**12**	**30**	**30**
***Rabi* -2010-11**				
Wheat	10	10	20	20
Cumin	4	4	10	10
Total	**14**	**14**	**30**	**30**
Grand Total	**26**	**26**	**60**	**60**

FLD conducting other than KVK Scheme during					
		Number of FLDs (ha)		**Number of Farmers**	
Scheme	**Crops**	**Targets**	**Achievement**	**Targets**	**Achievement**
***Kharif*- 2010-11**					
Cotton Mini Mission	Cotton (Prod. Tech.)	11	11	25	25
Rastriya Krishi Vikas Yojana (RKVY)	Cotton	16	16	40	40
	Castor	8	8	20	20
	Groundnut	16	16	40	40
	Sesamum	8	8	20	20
***Rabi* – 2010-11**					
Harnesshing Pulse productivity	Chick pea	7	7	15	15
Seed Village Scheme	Wheat	20	20	20	20
	Cumin	25	25	25	25
***Summer* -2010-11**					
Harnesshing Pulse productivity	Green gram	4	4	10	10
Seed Village Scheme	Groundnut	-	-	-	-
Total		**115**	**115**	**215**	**215**

Training					**Extension Activities**			
3					**4**			
Number of Courses			**Number of Participants**		**Number of activities**		**Number of Participants**	
Clientele	**Targets**	**Achievement**	**T**	**A**	**T**	**A**	**T**	**A**
Farmers	75	65	3000	2467	**400**	**369**	**2500**	**2285**
Rural youth	7	5	200	189				
Extn. Functionaries	5	5	100	88				

Total	**87**	**75**	**3300**	**2744**	**400**	**371**	**2500**	**2287**

Seed Production (Qtl.)			
5			
Crop	**Variety**	**Target (kg)**	**Achievement (Kg)**
Groundnut	GAUG-10	1500	150
	GG-5	1500	500
Sesamum	GTil-3	360	20
	GTil-10	360	-
Wheat	GW-366	3200	-

3.B1. Abstract of interventions undertaken

S. 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	GG-20 is highly susceptible to stem rot	Groundnut	Stem rot of groundnut	Yield losses in groundnut duet to *Sclerotium* stem rot	FLD on stem rot resistant variety GG-20	Integrated management of stem rot	IDM in groundnut	Field day, Radio talk, Training on IDM,	Compnenet
2	GG-20 is highly susceptible to stem rot	Groundnut	Attack of spodeptora		Componenet FLDs on NPV	IPM	IPM in groundnut	Field day, Radio talk, Training on IDM,	Component
4	Low yield of bajara	Pearl Millet	Time of thinning	Effect of time of thinning on yield of bajara	Effect of time of thinning on yield of bajara	Importance of Thinning period,	-	Field day, radio talk, TV prog.	GHB-744
5	Pest & disease problem	Chick pea	Wilt & pod borer problem,	-	IPM in chickpea	IPM in chickpea	-	Field day	GG-3
	Yield	Cumin	Low yield of cumin	-	Low yield of cumin	ICM	-	Field day	GC-4
6	Yield	Wheat	Low yield of wheat	-	Low yield of wheat	ICM, IDM	-	Field day, Radio talk	GW-366
7	INM	Cotton	Unjudicious use of fertilizers	Low yield in cotton	INM in cotton	INM, IPM	INM, IPM	Field day, training	Component

3.1 Achievements on technologies assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Comm-ercial Crops	Veget-ables	Fruits	Flower	Plant-ation crops	Tuber Crops	TOTAL
Varietal Evaluation	1		2							3
Seed / Plant production										

Weed/Thining Management	1									1
Integrated Crop Management		1								1
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management		1								1
Integrated Disease Management		1								1
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	2	3	2							7

** Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro situation.*

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

Thematic areas	Cereals	Oilseeds	Pulses	Comm-ercial Crops	Veget-ables	Fruits	Flower	Plant-ation crops	Tuber Crops	TOTAL
Varietal Evaluation	1		2							3
Seed / Plant production										
Weed Management	1									1
Integrated Crop Management		1								1
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management		1								1
Integrated Disease Management		1								1
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	2	3	2							7

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

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

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-	-	-

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

B. Details of On Farm Trial carried out on farmers' field

A. & B. Technology Assessment/Refinement

OFT – 1:- Oilseeds (Groundnut) :

1) Title :- Biological control of *Sclerotium rolfsii* (stem rot) in groundnut

2) Problem definition :

-Low plant population

-Disease problems

-Lack of knowledge for use of recommended control measure

3) Detalis fo technologies for assessment/ refinement

Category	Source of technology	Technologoy details	
Technology option 1	Farmer	T_1	Farmers practice (Control)
Technology option 2	Main Oilseeds Res. Station, JAU, Junagadh	T_2	*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing
Technology option 3		T_3	Castor cake @ 500 kg/ha, Drenching of *Trichoderma harzeanum* @2.5 kg/ha at 30 & 45 DAG

4) Source of Technology:- Junagadh Agricultural University

5) Production system : Integrated disease management

6) Thematic area : Management of stem rot in groundnut

7) Performance of the Technology assessed / refined with performance indicators

Far-mer No	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed / refined		
			Technology Option 1	Technology Option 2	Technology Option 3
			Yield(q/ha)	Yield (q/ha)	Yield (q/ha)
1	Mulubhai Vejanandbhai Dethariya	Hasthal	16.2	20.2	17.6
2	Goganbhai Ramde	Viramdal	16.6	20.4	18.2
3	Mohanbhai Karsanbhai	Arikhana	17.2	20.6	18.9
		Average	**16.66**	**20.4**	**18.23**

8) Final recommendation for micro level situation:

Management of *Sclerotium rolfsii* in groundnut with *Trichoderma harzeanum* @ 2.5 kg/ha and castor cake @ 500kg/ha at the time of sowing having more beneficial

9) Constraints identified and feedback for research :

-Soil born fungus,

-Highly related with high moisture & temperature.

-Reduce stem rot diseases

-Yield increase compare to control plot

-Good and bigger quality of pods

10) Process of farmers participation and their reaction: Farmers have good response and they have support for OFT. They satisfied with this trial.

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technology Assessed	Parameters of assessment	Data on the parameter (kg/ha)
1	2	3	4	5	6	7	8
Groun-dnut	Rain-fed	Stem rot (*Scler-otium rolfcii*)	Yield losses in groundnut due to Sclerotium stem rot	3	Manageme nt of stem rot in groundnut through *Trichoderm a harzaneum*	T_1- Farmers practice (Control)	1666
						T_2- Improved Practice (*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2040
						T_3 – Refined Practices (Castor cake @ 500 kg/ha, Drenching of *Trichoderma harzeanum* @2.5 kg/ha at 30 & 45 DAG)	1823

**** No. of farmers***

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Groundnut	Farmers have good response and they have support for OFT. They satisfied with this trial	Farmers have good response and they have support for OFT. They satisfied with this trial	Castor cake @ 500 kg/ha, Drenching of *Trichoderma harzeanum* @2.5 kg/ha at 30 & 45 DAG	Directely comes in contact with stem in drenching

Crop/ enterprise	**Technology Assessed / Refined**	***Production kg/ha**	**Input cost Rs./ha**	**Gross return Rs./ha**	**Net Return (Profit) in Rs. / ha**	**BC Ratio (* only OFT input cost base)**
1	**13**	**14**			**15**	**16**
Ground -nut	T_1- Farmers practice (Control)	1671	2800	40104	37304	13.32
	T_2- Improved Practice (*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2048	2250	49152	46902	20.84
	T_3 – Refined Practices (Castor cake @ 500 kg/ha, Drenching of *Trichoderma harzeanum* @2.5 kg/ha at 30 & 45 DAG)	1840	2547	44160	41613	16.33

OFT – 2 :- Pearl millet

1) Title :- Assessment of time of thining in pearl millet

2) Problem diagnose/ definition:

-Compitition among plants for moisture, nutrient etc
-Weeding problem arieses
-Insect pest problem aries
-Lodging problem arises and early maturity of the crop
-Reduce the quality of seeds and grain yield

3) Details of technologies selected for assessment/ refinement

Category	Source of technology	Technology detail		
Technology option 1	Farmer	T_1	Farmer practices	No thining
Technology option 2	Milet Res. Station	T_2	Reco. practices	Thining 15 to 20 DAS
Technology option 3		T_3	Refined practices	Thining 25 to 30 DAS

4) Source of technology: Junagadh Agricultural University

5) Production system :- Recommended agricultural technologies need to be tested for its suitability in local situation and refined in order to make it location specific ones. During current season i.e. Rabi-2010-11 thinging in pearl millet after 15 to 20 DAS found higher yield.

6) Thematic area : increase yield

7) Performance of the Technology assessed / refined with performance indicators

Farmer No	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed / refined (Grain yield)		
			T_1	T_2	T_3
1	Bodar Sajanbhai Arjanbhai	Nandana	28.12	31.25	28.75
2	Kambariya Parbatbhai Virabhai	Nandana	28.3	31.2	29.00
3	Rambhai Arsibhai	Godavari	31.25	32.5	31.75
		Average	28.12	31.25	28.75

8) Final recommendation for micro level situation: thining of peal millet after 15 to 20 DAS give significant higher yield as compare to farmers practices.

9) Constraints identified and feedback for research:

-Compitition among plants in case of nutrients
-weeding problem arises
-Yield increase as compare to farmers practices.

10) Process of farmers participation and their reaction: Farmers have good response and they have support for OFT. Recommended practices thining 15 to 20 DAS significantly higher yield as compare to farmers pratices.They satisfied with this trial.

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technolog y Assessed	Parameters of assessment	Data on the parameter

							(Grain Yield Q/ha)
1	2	3	4	5	6	7	8
Pearlmillet	Irrigated	Low yield	Assessment of time of thining in pearl millet	3	Thining	T_1-No thining	28.12
						T_2-Thining 15 to 20 DAS	31.25
						T_3-Thining 25 to 30 DAS	28.75

**** No. of farmers***

Crop/ enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
Cotton	Thining in pearlmillet after 15 to 20 days after sowing having significant yield with farmers practices.	Higher yield found in recommended treatment. They satisfied with this trial.	- Thning after 15 to 20 DAS is benefited as compare to no thining	- Thining is benefitied as compare to farmers practices (no thining)

Crop/ enterprise	Technology Assessed / Refined	*Production kg/ha	Input cost Rs./ha	Gross return Rs./ha	Net Return (Profit) in Rs. / ha	BC Ratio
1	**13**	**14**	**15**	**16**	**117**	**18**
Cotton	T_1-No thining	2812	11825	30932	19107	2.61
	T_2-Thining 15 to 20 DAS	3125	12012	34375	22363	2.86
	T_3-Thining 25 to 30 DAS	2875	12300	31625	19325	2.57

<u>OFT – 3 :- Home Science (Adolescent Girls)</u> :

1) Title :- Management of Anemia in adolescent girls

Village: Arikhana, Ta.- Lalpur, Dist.- Jamnagar

Period : *June, 2010 to Dec, 2010*

Sample Size : 15 girls

2) Problem definition :

- Deficiency of iron/ Hemoglobin (Problem of anemia) in adolescent girls
- Imbalance dietary pattern
- Lack of knowledge for nutritional diet

3) Title of technology assessed/refined: Management of anemia in adolescent girls

4) Thematic area : Management of anemia in adolescent girls

5) Details of technologies for assessment/ refinement

Category	Source of technology	Technology details	
Technology option 1	Local dietary pattern	T_1	Existing dietary pattern (Control)

Technology option 2	Recommended by WHO	T_2	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses) with existing dietary pattern
Technology option 3	Refinement	T_3	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern

6) Production system and thematic area :

Fifteen adolescent girls' are selected to test hemoglobin level. There are three groups (1) optimum (12 - 15 gm/ 100 ml), (2) slightly low (10 - 12 gm/ 100 ml) and (3) very low (5 - 10 gm/ 100 ml) level of hemoglobin. Keep these groups under existing dietary pattern (control) (T_1), Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses) with existing dietary pattern (T_2), and Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern (T_3) respectively. Record level of hemoglobin and weight of girls before and after six month of treatment.

7) Raw data about the performance of the Technology assessed / refined with performance indicators

Sr. No	Name of the adolescent girl	Name of the Village	Data on the performance indicators of the technology assessed / refined					
			Weight (kg)			Hemoglobin gm/100ml		
			Before	After 6 month	Difference	Before	After 6 month	Difference
	T_1							
1	Jignaben Bhagwanjibhai Dobariya	Arikhana	47	47	0	13.1	13	-0.1
2	Kinjalben Hanshrajbhai Dobariya	Arikhana	49	49.3	0.3	13	13.2	0.2
3	Manishaben Vallabhbhai Mungara	Arikhana	45	44.6	-0.4	14	13.9	-0.1
4	Minaben Jayeshbhai Vaishnani	Arikhana	56	56	0	13.1	13.1	0
5	Miraben Haribhai Dobariya	Arikhana	45	45	0	13.8	13.8	0
6	Ilaben Bhanjibhai Vaishnav	Arikhana	50	50	0	13.8	13.8	0
7	Bhumiben Govindbhai Mungara	Arikhana	40	42	0	12.5	13.0	0.5
	T_2	**Average**	**47.43**	**47.7**	**1.9**	**13.33**	**13.40**	**0.07**
8	Shitalben Rameshbai Vaishnav	Arikhana	38	40	2	12	12.5	0.5
9	Parulben Hirjibhai Vadi	Arikhana	35	35.4	0.4	12	12.5	0.5
10	Kajalben Jentibhai Dobariya	Arikhana	41	41.0	0	11.8	12.3	0.5
11	Artiben Vitthalbhai Vaishnani	Arikhana	52	52	0	11.6	12	1.4
	T_3	**Average**	**41.50**	**42.1**	**0.6**	**11.85**	**12.58**	**0.73**
12	Shilpa Vinodbhai Dobariya	Arikhana	45	46	1	9.8	11.8	2

13	Bhavnaben Hiteshbhai Dobariya	Arikhana	52	53	1	10	11.6	1.6
14	Alpaben Bhanjibhai Vaishnav	Arikhana	60	60	0	10	12	2
15	Jalpaben Virjibhai Vaishnav	Arikhana	45	47	2	9	11.5	2.5
		Average	**50.50**	**51.50**	**1.00**	**9.70**	**11.72**	**2.02**

8) Final recommendation for micro level situation : Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern is more beneficial for management of anemia in adolescent girls.

9) Constraints identified and feedback for research :

- Imbalanced dietary pattern
- No use of vegetable and fruits in their daily diet
- Lack of knowledge for nutritional diet

10) Process of farmers (girls) participation and their reaction: Adolescent girls have good response and they have support for OFT. They satisfied with this trial. And they have realized the importance of iron in their diet.

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technology Assessed	Parameters of assessment		Difference in Hemoglobin g/100 ml
1	2	3	4	5	6	7		8
Adolescent girls	Adolescent girls	Anemia in adolescent girls	Management of anemia in adolescent girls	12	Management of anemia in adolescent girls	T_1	Existing dietary pattern (Control)	-0.1 to 0.5 (0.07)
						T_2	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses) with existing dietary pattern	0.5 to 1.4 (0.73)
						T_3	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern	1.6 to 2.5 (2.02)

**** No. of farmers***

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Adolescent girls	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern	Increase in hemoglobin level of adolescent girls	-	-

Crop/ enterprise	Technology Assessed / Refined		*Production kg/ha	Input cost Rs./ha	Gross return Rs./ha	Net Return (Profit) in Rs. / ha	BC Ratio (* only OFT input cost base)
1	13		14			15	16
Adolescent girls	T_1	Existing dietary pattern (Control)	-	-	-	-	-
	T_2	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses) with existing dietary pattern	-	720 Rs/girl	-	-	-
	T_3	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern	-	900 Rs/girl	-	-	-

3.2 ACHIEVEMENTS OF FRONTLINE DEMONSTRATIONS

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

List of technologies demonstrated during previous year and popularized during 2010-11 and recommended for large scale adoption in the district

Sr. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Groundnut	IPM	NPV	Control of Spodepater	2	10	12
2	Groundnut	IDM	Trichoderma	Control of stem rot	2	8	10
3	Green gram	Verital	GM-4	High Yielding	3	20	15
4	Chick pea	Verital	GG-3	High or new variety	5	18	22
5	Wheat	Varietal	GW-366	High yielding	6	27	26
6	Cumin	Varietal	GC-4	High yielding	2	8	12
7	Pearl millet	Verital	GHB-744	DM resistance & High yielding	4	42	18

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

b. Details of FLDs implemented during 2010-11(Information is to be furnished in the following three tables for each category i.e. Oil seed, Pulse and Other)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Pro.	Actual	SC/ ST	Others	T	
	Oilseeds									
1	Groundnut	Pest management	NPV	*Kharif* 10-11	2	2	1	4	5	-
2	Groundnut	Disease management	Trichoderma	*Kharif* 10-11	2	2	1	4	5	-
	Pulse									
3	Green gram	Varietal	Variety	*Summar* 10-11	4	4	2	8	10	
4	Chick pea	Verital	GM-3	*Rabi 10-11*	7	7	3	12	15	

	Others									
5	Pearlmillet	Varietal	Variety	*Kharif* 10-11	8	8	3	17	20	
6	Wheat	Variety	GW-366	*Rabi-10-11*	10	10	4	16	20	
7	Cumin	Variety	GC-4	*Rabi-10-11*	4	4	2	8	10	

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					
Oilseeds											
Groundnut (Component)	*Kharif*	Rainfed	MB	M	M	M	G'nut,	1st to 20 th July	15 to 30 Oct	573.7	21
Groundnut (Compoent)	*Kharif*	Rainfed	MB	M	M	M	Fodder Jowar	1st to 20 th July	15 to 30 Oct	573.7	21
Pulse											
Green gram	*Rabi*	Irrigated	MB	M	M	M	Jowar	1st to 20 th July	20 to 30 Sept	573.7	21
Chick pea	*Rabi*	*Irrigated*	MB	M	M	M	G'nut	8 Nov to 15 Nov	10 to30 Feb	573.7	21
Other											
Wheat	*Rabi*	Irrigated	MB	M	M	M	Groundnut	10 Nov to 20 Nov	10 to30 Feb	573.7	21
Cumin	*Rabi*	Irrigated	MB	M	M	M	Groundnut	5 Nov to 15 Nov	10 to30 Feb	573.7	21
Pearlmillet	*Kharif*	Rainfed	MB	M	M	M	Wheat	1st to 20 th July	20 to 30 Sept	573.7	21

a) Performance of FLD

Sl. No.	Crop	Technology Demo.	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
	Oilseeds											
1	G'nut	Trichoderma	G-20	5	2	20	16.25	18.12	15	17.24	18.12	15.0
2	G'nut	NPV	G-20	5	2	18.75	16.87	17.81	16.25	8.77	17.81	16.25

	Pulse											
3	Chick pea	Variety	GG-3	15	8	14.50	17.00	16.25	13.12	19.23	16.25	13.12
4	*Green gram	Variety	GM-4	10	5	7.5	6.87	7.18	6.5	9.56	7.18	6.5
	Other											
5	**Wheat	Variety	GW-366	40	20	55	52.50	53.75	45	16.27	53.75	45
6	Cumin	Variety	GC-4	10	4	11.87	9.00	10.44	8.75	16.16	10.44	8.75
7	Pearl millet	Varietal	GHB-744	20	8	33.75	27.5	30.62	26.25	14.28	30.62	26.25

b) Economic Impact

Crop	Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio
	Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
	14	15	16	17	18	19	20
Oilseeds							
G'nut (Tri)	18500	22650	39500	36093	21000	13443	2.13
G'nut (NPV)	20650	22423	41250	34375	20600	11952	2.00
Pulse							
Chick pea	11432	11200	42250	32812	30818	21612	3.70
Green gram	10300	9400	23437	20312	13137	10912	2.27
Other							
Wheat	13400	15000	60468	50625	47068	35625	3.51
Cumin	22140	21240	97250	84000	75110	62760	4.39
Pearl miilet	14250	13244	40500	36250	26250	23006	2.84

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
Groundnut	Kharif	NPV	Rainfed	18.12	15	17.24
Groundnut	Kharif	Trichoderma	Rainfed	17.81	16.25	8.77
Chick pea	Rabi	Variety	Irrigated	16.25	13.12	19.23
Green gram	Summar	Variety	Irrigated	-	-	-
Wheat	Rabi	Variety	Irrigated	-	-	-
Cumin	Rabi	Variety	Irriaged	10.44	8.75	16.16
Pearl miilet	Kharif	Variety	Rainfed	33.75	26.25	14.28

Technical Feedback on the demonstrated technologies

Sl. No.	Crop	Variety/ Technology	Farmers' Feed Back
1	Groundnut	NPV	-Control of Spodeptera effectively -Good results when temperature is low
2	Groundnut	Trichoderma	-Trichoderma control seclerotium effectively -Imidaclorprid effiective for sucking pest
3	Chick pea	Variety	-Good variety for less irrigation
4	Green gram	Variety	"
5	Wheat	Variety	"
6	Cumin	Variety	High yielding variety
7	Pearl miilet	Variety	- Early maturity - Attractive seed color and best for making "Rotala" - Suitable for rainfed

Farmers' reactions on specific technologies

Sl. No.	Crop	Variety/ Technology	Farmers' Reaction
1	Groundnut	NPV	-Good management of spodeptera whenever temp low
2	Groundnut	Trichoderma	-Trichoderma controlled stem rot effectively and impact on yiedl
3	Chick pea	Variety	Good variety for less irrigation
4	Green gram	Variety	"
5	Wheat	Variety	"
6	Cumin	Variety	High yield variety
7	Pearl miilet	Variety	-High yielding variety and suitable for Kharif (rainfed season)

Extension and Training activities under FLD

Sr. No.	Activity	No. of Activity organised	Date	No. of Participants			Remarks
				Male	Female	Total	
	Groundnut						
1.	Field days	2		56	22	78	
2.	Training for farmers	1		20	-	20	
3.	Radio Talk						
	Pearl millet						
1.	Field days	2		60	20	80	
2.	Training for farmers	1		38	4	42	
3.	Radio Talk						
4	Training for Extension functionaries						
	Green gram						
1.	Field days	1		23	7	30	
2.	Training for farmers	1		28	4	32	
3.	Radio Talk						
4	Training for Extension functionaries						
	Chick pea						
1.	Field days	1		28	12	40	
2.	Training for farmers	1		26	5	31	

3.	Radio Talk						
4	Training for Extension functionaries						

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
					Demon.	Local check		
-	-	-	-	-	-	-	-	-

** Field efficiency, labour saving etc.*

(ii) Livestock Enterprises

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

** Milk production, meat production, egg production, reduction in disease incidence etc.*

(iii) Other Enterprises

Enterprise	Variety/ breed/ Species/ others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom								
Apiary								
Sericulture								
Vermi compost								

3.3 ACHIEVEMENTS ON TRAINING (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		M	F	Total	M	F	Total	M	F	T
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	27	5	32	5	-	5	32	5	37
Resource Conservation Technologies										
Integrated Farming										
Water management	1	32	-	32	2	-	2	34	-	34
Seed production	1	25	-	25	5		5	30	-	30
Nursery management										
Integrated Crop Management	2	90	10	100	15	-	15	105	10	115
Fodder production										
Production of organic inputs										
Total	**5**	**174**	**15**	**189**	**27**	**-**	**27**	**201**	**15**	**216**
II Horticulture										
a) Vegetable Crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables like Broccoli										
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
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										
e) Tuber crops										
Processing and value addition										
f) Spices										

Processing and value addition										
g) Medicinal and Aromatic Plants										
Nursery management										
Total										
III Soil Health and Fertility Management										
Soil fertility management	1	35	7	42	6	-	6	41	7	48
Soil and Water Conservation										
Integrated Nutrient Management										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency	1	28	-	28	6	-	6	34	-	34
Soil and Water Testing										
Total	**2**	**63**	**7**	**70**	**12**	**-**	**12**	**75**	**7**	**82**
IV Livestock Production and Management										
Dairy Management										
Production of quality animal products										
Total										
V Home Science/Women empowerment										
Gender mainstreaming through SHGs										
Value addition	-	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	1	-	22	22	-	5	5	-	27	27
Total	**1**	-	**22**	**22**	-	**5**	**5**	-	**27**	**27**
VI Agril. Engineering										
Small scale processing and value addition										
Post Harvest Technology										
Total										
VII Plant Protection										
Integrated Pest Management	2	85	-	85	7	-	7	92	-	92
Integrated Disease Management	1	25	-	25	5	-	5	30	-	30
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Total	**3**	**110**	**-**	**110**	**12**	**-**	**12**	**122**	**-**	**122**
VIII Fisheries										
Integrated fish farming	2	20	-	20	32	-	32	52	-	52
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										

Total	2	20	-	20	32	-	32	52	-	52
IX Production of Inputs at site										
Seed Production	1	28	-	28	8	-	8	36	-	36
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production	1	34	12	46	4	2	6	38	14	52
Organic manures production										
Production of Fish feed										
Total	**2**	**62**	**12**	**74**	**12**	**2**	**14**	**74**	**14**	**88**
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Total										
XII Others (Pl. Specify)										
TOTAL										
(B) RURAL YOUTH										
Integrated farming	1	32	8	40	7	0	7	39	8	47
Seed production										
Production of organic inputs										
Integrated Farming										
Planting material production										
Vermi-culture										
Sericulture										
Rural Crafts										
TOTAL	**1**	**32**	**8**	**40**	**7**	**0**	**7**	**39**	**8**	**47**
(C) Extension Personnel										
Productivity enhancement in field crops										
Integrated Pest Management	2	38	0	38	6	0	6	44	0	44
Integrated Nutrient management										
Any other (Pl. Specify)										

TOTAL	**2**	**38**	**0**	**38**	**6**	**0**	**6**	**44**	**0**	**44**
Grand Total	**18**	**499**	**64**	**563**	**108**	**7**	**115**	**607**	**71**	**678**

OFF Campus

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		M	F	T	M	F	T	M	F	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	3	81	14	95	18	5	23	99	19	118
Resource Con.Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management	3	65	4	69	12	2	14	77	6	83
Seed production	3	58	16	74	25	4	29	83	20	103
Integrated Crop Management	2	90	10	100	15	0	15	105	10	115
Nursery Management	2	43	10	53	8	2	10	51	12	63
Production of organic inputs										
Total	**13**	**337**	**54**	**391**	**78**	**13**	**91**	**415**	**67**	**482**
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops										
Nursery raising	2	49	17	66	10	2	12	59	19	78
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning										
Micro irrigation systems of orchards										
c) Ornamental Plants										
Nursery Management										
Propagation techniques of Ornamental Plants										
d) Plantation crops										
Production and Management technology										
e) Tuber crops										
Processing and value addition										
f) Spices										
Production and Management technology										
g) Medicinal and Aromatic Plants										
Nursery management										
Total	**2**	**49**	**17**	**66**	**10**	**2**	**12**	**59**	**19**	**78**
III Soil Health and Fertility Management										
Soil fertility management	3	102	15	117	22	5	27	124	20	144

Soil and Water Conservation	3	59	6	65	3	-	3	62	6	68
Integrated Nutrient Management										
Nutrient Use Efficiency	3	97	6	103	8	1	9	105	7	112
Soil and Water Testing										
Total	**9**	**258**	**27**	**285**	**33**	**6**	**39**	**291**	**33**	**324**
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Total										
V Home Science/Women empowerment										
Gender mainstreaming through SHGs										
Value addition	3	-	65	65	-	15	15	-	80	80
Income generation activities for empowerment of rural Women	1	-	25	25	-	5	5	-	30	30
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	2	-	38	38	-	5	5	-	43	43
Total	**6**	-	**128**	**128**	-	**25**	**25**	-	**153**	**153**
VI Agril. Engineering										
Post Harvest Technology										
Total										
VII Plant Protection										
Integrated Pest Management	4	174	28	202	27	7	34	201	35	236
Integrated Disease Management	3	127	15	142	26	3	29	153	18	171
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Total	**7**	**301**	**43**	**344**	**53**	**10**	**63**	**354**	**53**	**407**
VIII Fisheries										
Integrated fish farming	2	12	-	12	26	0	26	38	-	38
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Total	2	12	-	12	26	-	26	38	-	38
IX Production of Inputs at site										
Seed Production	3	73	-	73	17	-	17	90	-	90
Bio-fertilizer production										
Vermi-compost production	3	99	22	121	25	7	32	124	29	153
Organic manures production										
Production of fry and fingerlings										

Small tools and implements										
Production of Fish feed										
Total	**6**	**172**	**22**	**194**	**42**	**7**	**49**	**214**	**29**	**243**
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs	2	33	10	43	8	3	11	41	13	54
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Total	**2**	**33**	**10**	**43**	**8**	**3**	**11**	**41**	**13**	**54**
XI Agro-forestry										
Production technologies										
Total										
XII Others (Pl. Specify)										
TOTAL										
(B) RURAL YOUTH										
Integrated Farming	3	57	12	69	14	1	15	71	13	84
Vermi-culture	1	34	8	42	12	4	16	46	12	58
Training and pruning of orchards										
Value addition										
Production of quality animal products										
Ornamental fisheries										
Para vets										
Composite fish culture	1	10	-	10	22	-	22	32	-	32
Freshwater prawn culture										
Tailoring and Stitching										
Rural Crafts										
TOTAL	**5**	**101**	**20**	**121**	**48**	**5**	**53**	**149**	**25**	**174**
(C) Extension Personnel										
Productivity enhancement in field crops										
Integrated Pest Management	3	38	-	38	6	-	6	44	-	44
Integrated Nutrient management										
Any other (Pl. Specify)										
TOTAL	**3**	**38**	**-**	**38**	**6**	**-**	**6**	**44**	**-**	**44**
Grand Total	**57**	**1351**	**331**	**1682**	**308**	**76**	**384**	**1659**	**407**	**2066**

C) Consolidated table (On and OFF Campus)

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	4	108	19	127	23	5	28	131	24	155
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management	4	97	4	101	14	2	16	111	6	117
Seed production	4	83	16	99	30	4	34	113	20	133
Nursery management										
Integrated Crop Management	6	230	30	260	34	5	39	264	35	299
Fodder production										
Production of organic inputs										
Total	**18**	**518**	**69**	**587**	**101**	**16**	**117**	**619**	**85**	**704**
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops										
Off-season vegetables										
Nursery raising	2	49	17	66	10	2	12	59	19	78
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning										
c) Ornamental Plants										
Nursery Management	2	43	10	53	8	2	10	51	12	63
Propagation techniques of Ornamental Plants										
d) Plantation crops										
Production and Management technology										
e) Tuber crops										

Production and Management technology										
f) Spices										
Processing and value addition										
g) Medicinal and Aromatic Plants										
Nursery management										
Total	**4**	**92**	**27**	**119**	**18**	**4**	**22**	**110**	**31**	**141**
III Soil Health and Fertility Management										
Soil fertility management	4	137	22	159	28	5	33	165	27	192
Soil and Water Conservation	3	59	6	65	3	-	3	62	6	68
Integrated Nutrient Management										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency	4	125	6	131	14	1	15	139	7	146
Soil and Water Testing										
Total	**11**	**321**	**34**	**355**	**45**	**6**	**51**	**366**	**40**	**406**
IV Livestock Production and Management										
Dairy Management										
Production of quality animal products										
Total										
V Home Science/Women empowerment										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	3	-	65	65	-	15	15	-	80	80
Income generation activities for empowerment of rural Women	1	-	25	25	-	5	5	-	30	30
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	3	-	60	60	-	10	10	-	70	70
Total	**7**	-	**150**	**150**	-	**30**	**30**	-	**180**	**180**
VI Agril. Engineering										
Small scale processing and value addition										
Post Harvest Technology										
Total										
VII Plant Protection										
Integrated Pest Management	6	259	28	287	34	7	41	293	35	328
Integrated Disease Management	4	152	15	167	31	3	34	183	18	201
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Total	**10**	**411**	**43**	**454**	**65**	**10**	**75**	**476**	**53**	**529**

VIII Fisheries										
Integrated fish farming	4	32	-	32	58	-	58	90	-	90
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture	1	10	-	10	22	-	22	32	-	32
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Total	**5**	**42**	**-**	**42**	**80**	**-**	**80**	**122**	**-**	**122**
IX Production of Inputs at site										
Seed Production	4	102	-	102	25	-	25	127	-	127
Planting material production										
Bio-fertilizer production										
Vermi-compost production	4	132	34	166	29	9	38	161	43	204
Organic manures production										
Production of livestock feed and fodder										
Production of Fish feed										
Total	**8**	**234**	**34**	**268**	**54**	**9**	**63**	**288**	**43**	**331**
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs	2	33	10	43	8	3	11	41	13	54
Mobilization of social capital										
WTO and IPR issues										
Total	2	33	10	43	8	3	11	41	13	54
XI Agro-forestry										
Production technologies										
Total										
XII Others (Pl. Specify)										
TOTAL										
(B) RURAL YOUTH										
Production of organic inputs										
Integrated Farming	4	89	20	109	21	1	22	110	21	131
Planting material production										
Vermi-culture	1	34	8	42	12	4	16	46	12	58
Sericulture										
Training and pruning of orchards										
Value addition										
Production of quality animal products										
Ornamental fisheries										
Para vets										

Para extension workers										
Composite fish culture										
Freshwater prawn culture										
TOTAL	**5**	**123**	**28**	**151**	**33**	**5**	**38**	**156**	**33**	**189**
(C) Extension Personnel										
Productivity enhancement in field crops										
Integrated Pest Management	5	76	-	76	12	-	12	88	-	88
Integrated Nutrient management										
Any other (Pl. Specify)										
TOTAL	**5**	**76**	**-**	**76**	**12**	**-**	**12**	**88**	**-**	**88**
Grand Total	**75**	**1850**	**395**	**2245**	**416**	**83**	**499**	**2266**	**478**	**2744**

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Dura-tion (days)	No. of Participants									No. of persons emp-loyed	Empl-oyed else where
					General			SC/ST			Total				
					M	F	T	M	F	T	M	F	T		
Fruit	27-8-10	Preparation of jam, jelly and pickles	Value addition in fruit	1	-	14	14	-	3	3	-	44	44	-	-
Vegetable	29-6-10	Value addition in fruit and Vege	Value addition in fruit	1	-	14	14	-	4	4	-	18	18	-	-
Vermi compost	15-10-010	Production off varmi compost	Self emploment	1	8	3	11	4	-	4	12	3	15	2	1

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes
(Details of training is given in Annexure-V)

Sr. No.	Date	Discipline	Dura-tion	Total No. of participants									Sponsoring Agency
				Other			SC/ ST			Total			
				M	F	T	M	F	T	M	F	T	
1	1-7-10	Agron	1	12	4	16	9	2	11	21	6	27	DAO
2	26-7-10	Animal	2	42	8	50	10	2	12	52	10	62	GVK trust
3	17-9-10	Pl.Prot	1	32	0	32	8	-	8	40	-	40	Mahindra
4	21-9-10	Pl.Prot	1	88	14	102	6	2	8	94	16	110	ATMA
5	24-9-10	Pl.Prot	1	52	-	52	12		12	64	-	64	GNFC
6	28-9-10 Ttoo 30-9-10	Dairy Farming	3	80	-	80	20	-	20			100	GVT
9	25-10-10	Agron	1	18	4	22	5	-	5	23	4	27	Jain irri.
10	28-10-10	Pl.Prot	1	32	-	32	9	-	9	41	-	41	DAO
11	30-10-10	Agron	1	32	-	32	5	-	5	37	-	37	DAO
12	7-12-10	Pl.Prot	1	60	7	67	7	-	7	67	7	74	ATMA
13	30-12-10	Agron	1	20	-	20	5	-	5	25	-	25	DAO

14	26-11-10	Agron	1	45	6	51	11	-	11	56	6	62	DAO
15	31-12-10	Fishery	1	25	-	25	25	-		25	-	25	Fishery Deptt

3.4. Extension Programmes (including activities of FLD programmes)

Sr. No.	Nature of Extension Activity	No. of activities	Participants								
			Farmers (Others)			Farmers (SC/ST)			Grand Total		
			M	F	T	M	F	T	M	F	T
1	**2**	**4**	**5**	**6**	**7**	**8**	**9**	**11**	**12**	**13**	**14**
1	Field Day	3	118	12	130	26	-	26	144	12	156
2	Kisan Ghosthi	2	125	-	125	19	-	19	144	-	144
3	Film Show	2	28	-	52	4	2	6	32	-	58
4	M. Demo	3	-	-	-	-	-	-	-	-	-
5	Farmers Seminar	2	72	8	80	8	-	8	80	8	88
6	Group meetings	4	72	-	72	3	-	3	75	-	75
7	Lectures delivered	11	727	-	910	100	13	113	827	-	1023
8	News paper	3	-	-	-	-	-	-	-	-	-
9	Popular articles	2	-	-	-	-	-	-	-	-	-
10	Advisory Services	5	-	-	-	-	-	-	-	-	-
11	Scientific visit to farmers fields	14	78		78	6		6	84	-	84
12	Farmers visit to KVK	22	325	47	372	48	25	73	373	-	445
13	Diagnostic visits	12	-	-	-	-	-	-	-	-	-
14	Agri mobile Service	275	-	-	-	-	-	-	-	-	-
15	Soil test campaigns	5342	-	-	-	-	-	-	-	-	-
16	Night meeting	-	-	-	-	-	-	-	-	-	-
17	Collobrativ training	6	125		125	27		27	152	-	152
18	Training to ext.functi	2	42		42	4		4	46	-	46
19	Radio talk	2	-	-	-	-	-	-	-	-	-
	Total	**371**	**2025**	**465**	**2490**	**354**	**126**	**480**	**2402**	**591**	**2287**

3.5 Production and supply of Technological products (2010-11)

SEED MATERIALS

Sr. No	Crop	Variety	Quantity (kg.)	Value (Rs.)	Provided to No. of farmers
1	Groundnut	GG-5 (Grade - A)	510	18360	

		GG-5 (Grade - B)	1441	36962	
		GG-6 (Grade - A)	419	15084	
		GG-6 (Grade - B)	450	11543	
		TPG- 41 (Grade - A)	239	8604	
		TPG- 41 (Grade - A)	275	7054	
		TPG -41	1250	39003	
2	Wheat	GW-366	2680	53600	
3	Castor	GCH-7 (Grade - A)	348.85	32269	
		GCH-7 (Grade - B)	1490	54547	
4	Cumin	G-4	8	1280	

SUMMARY

Sr. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	2680	53600	
2	OILSEEDS	6433	223426	-
3	PULSES			
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS	8	1280	
TOTAL				

PLANTING MATERIALS : Nil..

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

SUMMARY

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

BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
BIOFERTILIZERS						
BIO PESTICIDES	Savaj	*Trichoderma harzianum*		135	11475	105

SUMMARY						
Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE	*Trichoderma harzianum*		135	11475	105
	TOTAL					

LIVESTOCK : NIL..

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle						
FISHERIES						
Others (Specify)						

SUMMARY						
Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE					
2	FISHERIES					
3	OTHERS					
	TOTAL					

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

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

KVK is already part of JAU newsletter, which is periodically

(B) Literature developed/published

Item	Title	Authors name	Number
1	2	3	4
Research Paper	-Adoption of salinity management practices by farmers of coastal area of western Gujarat - Development of ecofriendly management stratagies for stor grain pest management in pearl millet	N.B. Jadav,M.B. Viradiya and K.A. Khunt K.L. Ragwani, G.M. Parmar, R.P. Juneja and C.J. Dangaria	NA
Total	**2**		

Technical Reports	Montly Progress Report, Quarterly Progress report Moniterable quarterly Progress report and Annual Progress reports	KVK, Jamnagar	NA
Total	2		
Popular articles	-Khedutoni rudhigat paddatio/ manyataonu mulyankan ane tena adhare sansodhan	N.B. Jadav, A.C. Mehta, P.S. Gorfad and G.M. Parmar	NA
Total	**1**		
Extension literature			
Total	**3**		
Grand Total	**5**		

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

Nil

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

Farmers to farmer dissemination

Distributed printed leaflet through farmers

Farm School on farmer's field

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Chilly	Use castor as a trap crop	For controlling thrips and jassids
2	Crop husbandry	Crop rotation and mixed cropping	Control weed
3	"	Mixing of ash with pulse/millet grains	While storing to protect from pest
4	"	Vegetable seeds placed inside cowdung	Use for next year
5	Sorghum	Early sowing	Avoid shoot fly attack
6	Fertility Management	Application of ash	To improve soil fertility
7	"	Sheep and goat penning	To improve soil fertility
8	Harvesting	Harvest pulse crop in the morning hours	To reduce shattering

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

- Identification of courses for farmers/farm women

- Group discussion

❖ Rural Youth
- Filling up research based questionnaires
- Identification of leader (Sociometric method)

❖ Inservice personnel
- Knowledge test (Interview schedule)

3.11 Field activities

i. Number of villages adopted : 24

Sr. No	Name of village	Sr. No.	Name of Village	Sr. No.	Name of Village	Sr. No.	Name of Village
1.	Dharampur	7.	Shaktinagar	13.	Rampar,	19.	Hodisang
2.	Haripar	8.	Kalyanpur	14.	Navi-Pipar	20.	Gokulpur
3.	Sidhdhpur	9.	Kanuda	15.	Butavadar	21.	Ramnagar
4.	Harshadpur	10.	Jakasia	16.	Kalawad	22.	Madhavpur
5.	Juvangadh	11.	Bhinda	17.	Nani-Vavadi	23.	Beraja
6.	Vadatra	12.	Datrana	18.	Sanala	24.	Viramdad

ii. No. of farm families selected : 625

iii. No. of survey/PRA conducted: 1

3.12 Activities of Soil and Water Testing Laboratory

1. Status of establishment of lab : Working
2. Year of establishment **:** 2005-06
3. List of equipments purchased with amount **:**

Sl. No	Name of the Equipment	Qty.	Cost
1	Spectrophotometer	1	89160
2	Flame photometer	1	
3	Physical balance	1	10640
4	Chemical balance	1	100000
5	Water distillation still	1	96118
6	Kieldahi digestion and distillation	1	49644
7	Shaker	1	80080
8	Grinder	1	16772
9	Refrigerator	1	
10	Oven	1	30550
11	Hot plate	1	
Total		11	472964

Details of samples analyzed during 2010-11

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	***5342**	**5342**	97	
Water Samples	-	-	-	

Total	**5342**	**5342**	97	

*Sample analysed under 'Soil Health Card" Project

4. Impact study

Krishi Vigyan Kendra are innovative scientific training institutes which have been established throughout the country with the mandates to impart need based and skill oriented trainings to practicing farmers, in-service field level extension workers and to those who wish to go for self employment. The basic objective of Krishi Vigyan Kendra are focused on demonstrating the recent technology at the farmers field and imparting skill oriented vocational trainings to the farmers. The Krishi Vigyan Kendra at Jamnagar was established on 2001, the main aim of establishing the Krishi Vigyan Kendra was to bring about improvement in production and economy of the farmers. In order to achieve this objective, the Krishi Vigyan Kendra Jamnagar carries out a number of training programmes and various other activities on crop production and allied fields. The specific objective of the present paper was to assess the impact of KVK activities in Jamnagar districts.

METHODOLOGY

The present investigation was undertaken in Jamnagar district of Gujarat state. The district consist of total 10 panchayat samiti out of which Jamnagar was identified based on maximum activities carried out by Krishi Vgyan Kendra. Ten adopted villages of Krishi Vigyan Kendra were selected for the study sample. For selection of respondents, 10 respondents were selected randomly from each adopted villages. Thus, total numbers of respondents were 120. The data were collected by using simple structured scheduled developed by Chandra (1991) with some modification.

DISCUSSIONS

The data presented in Table 1 revealed that 22.50 per cent of the beneficiaries were high responses towards the KVK activities, whereas 63.33 per cent of the respondents had a medium response towards activities. There were only 14.17 per cent who had least responded towards KVK activities.

Table 1: Distribution of respondents on the basis of degree of response towards activities carried out by Krishi Vigyan Kendra.

Sr. No.	Responses	Frequency	Percentage
1	High responses (above 80.52)	27	22.50
2	Medium responses (between 80.52 to 35.21)	76	63.33
3	Least responses (Below 35.21)	17	14.17
	Total	120	100

It is concluded that the respondents under study had positive response towards the activities of Krishi Vigyan Kendra. Table 2 revealed that there were 20 statements for measuring responses of clientele towards various activities of Krishi Vigyan Kendra, which were weighed on five point continum.

Responses of clientele toward activities:

It is apparent from the table 2 that most of the respondents strongly agreed with the act that "change in attitude" with a MPS 80.00 per cent and ranked 1st. This was followed by "extent of spread of technology" and "extent of awareness" ranked 2nd and 3rd respectively in the table.

Similarly, "increase in production"; "gain in knowledge"; "increase in income" and "introduction of new varieties" were realized as important statements given by ranked 4th, 5th, 6th and 7th respectively. Nine statement of remaining thirteen statement fall in between MPS 65.00 to MPS 50.00 viz, “extent of adoption”, “increase in SHGs/FIGs”, “decrease in yield gap”, “increase in productivity”, “increase in crop area”, “improvement in work skill”, “generation of employment”, “formation of cooperative” and “expansion of enterprise”.

Table 2: Responses of clientele towards various activities carried out by KVK.

N= 120

Sr. No.	Statement	Mean score	MPS	Rank
1	Gain in knowledge	3.42	68.33	V
2	Extent of awareness	3.78	75.67	III
3	Change in attitude	4.00	80.00	I
4	Improvement in work performance / skill	2.73	54.67	XIII
5	Extent of spread of technology	3.97	79.33	II
6	Increase in SHGs / FIGs	3.08	61.50	IX
7	Formation / establishment of cooperative	2.58	51.67	XV
8	Introduction of new varieties	3.27	65.33	VII
9	Increase in yield / productivity	2.88	57.50	XI
10	Increase in area	2.78	55.50	XII
11	Increase in production	3.54	70.83	IV
12	Extent of adoption	3.18	63.50	VIII
13	Increase in income	3.28	65.50	VI

14	Generation of employment	2.68	53.67	XIV
15	Expansion of an enterprise	2.58	51.67	XVI
16	Introduction of new enterprise	2.16	43.17	XVII
17	Increase in marketable farm produce	1.51	30.17	XIX
18	Creation of infrastructure	2.16	42.00	XVIII
19	Opening of farm school	1.38	27.67	XX
20	Decrease yield gaps	2.93	58.50	X

While, least MPS in case of "opening of farm school", “increase marketable farm produce", "creation of infrastructure" and "introduction of new varieties" were ranked 20th, 19th, 18th and 17th respectively. This result is in conformity with the result of Kumar *et al.* (2006) and Patel (1989).

CONCLUSION

From the above findings, it may be concluded that majority of the respondents showed positive responses towards various activities being carried out by the KVK. This institution helped in acquiring these kill of new agricultural technology by the farmers, due to which, the selected farmers have adopted the recommended technology and obtained higher agricultural production.

In view of the findings, it is further concluded that due weightage given to the opening of farm school, increase marketable farm produce, creation of infrastructure and introduction of new varieties.

5. Linkage

5.1 Functional linkage with different organizations

Sr.	Name of organization	Nature of linkage
A	**State corporation and state deptt.**	
1	District Agricultural Officer, Deptt. Of Agriculture, District Panchayat, Jamnagar	➢ Joint diagnostic team visit at farmers field ➢ Organizing collaborative training to farmers
2	District Rural Development Agency, Jamnagar	➢ For collaborative off campus training
3	Deputy Director of Veterinary, Department of veterinary & Animal Husbandry, Jamnagar	➢ For collaborative training and demonstration Programme
4	Deputy Director of Horticulture, Jamnagar	➢ Collaborative on campus training programme
5	Deputy Director of Agriculture (Training), Farmer Training Centre, Jamnagar	➢ For providing hostel facilities to participants and organizing collaborative Mahila Krishi Mela
6	Deputy Director of Agriculture (Extension), Jamnagar	
7	Asstt. Director of Fisheries, Jamnagar	
8	Range Forest Officer, Jamnagar	
9	Asstt. Director of GLDC, Jamnagar	
10	Estate Engineer, Department of Irrigation, Jamnagar	

11	All Taluka Development Officers, and their team at Taluka level	
12	Rajkot-Jamnagar Gramin Bank, Jamnagar	
13	ATMA, Jamnagar	
B	**Private Corporation**	
1	Territory Manager, GSFC, Jamnagar	➢ Impart training on Agril. Aspects ➢ Collaborative on/off campus training programme ➢ Sponsor training programme
2	Territory Manager, GNFC, Jamnagar	
3	Territory Manager, IFFCO, Jamnagar	
4	Reliance Industries, Dept. of Green Belt, Jamnagar	
C	**NGOs**	
1	Murlidhar Trust, Opp. Trajitpara Branch School, Bhanvad	➢ Impart training on Agril. Aspects ➢ Collaborative on/off campus training programme
2	V.D.R.F. Trust, Momai Xerox, B.P. Road, Bhanvad	
3	Late J.V. Nariya Educational and Charitable Trust, 49, Modern Market, First Floor, Nr. Amber Cinema	
4	Jay Ashapura Charitable Society, Madhav Nivas, Karmachari Society, Trikonban, Dhrol (Dist.-Jamnagar)	
5	Shekhpat Jalstrav Vikas Mandal, At.-Shekhpat, Post-Aliyabada, Ta.&Dist.- Jamnagar	
6	Lakhtar Jalstrav Gram Vikas Trust, 55, Shiv Complex, At.-Bhadra (Patiya), Ta.-Jodia, Dist.- Jamnagar	
7	Umiya Mataji Mandir Trust, At.- Sidsar, Ta.-Jamjodhpur, Dist.-Jamnagar	
8	Shardapith Education Trust, 104-Shrusti complex, Nr. Gurudwara, Jamnagar	
9	Chachara Education & Charitable Trust, 104- Shrusti complex, Nr. Gurudwara, Jamnagar	
10	Tata Chemical Society for Rural Development Foundation, At. Mithapur, Ta.-Dwarka, Dist.-Jamnagar	

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

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

a.

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Establishment of Agricultural Technology Information Centre (ATIC)	2005-06	State Government	32000/-
Establishment of Transfer of Technology (TOT)	2005-06	State Government	73000/-
Transfer of technology by adoption of villages	2008-09	RKVY	2081600/-
Rastriya Krishi Vikas yojan-District Agril.Plan (RKVY-DAP Project)	2009-10	RKVY-DAP	580000/-
Soil Health Card	2009-10	State Gov.	800000 /-

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district (Yes/No) :- Yes

S. No.	Programme	Nature of linkage	Remarks
1	District Level Training	Impart Training on Agricultural Aspects	Celeberate Technology week
2.	Block level training	Lecture delivered	
3.	Village level training		

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	-	-	District is not inovolve in NHM

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
1.	-	-	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm 2010-11)

Sl. No.	Demonstra-tion Units	Year of Establi-shment	Area	Details of production			Amount (Rs.)		Remark
				Variety	produce	Quantity (Qtl)	Cost of inputs	Gross income	
1	Vermi compost Unit	2007-08	150 sq. m	*Icenea fatida*	Vermi culture	0.02	-	400	
				Icenea fatida	Vermi compost	1000	-	3000	

6.2 Performance of instructional farm (Crops) including seed production (2010-11)

Name Of the crop	Date of sowing	Area (ha)	Details of production			Amount (Rs.)		Remarks
			Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals (Wheat)	20-11-10 01-12-10	2.00	GW-366	Grain				
Oilseeds (Castor)	28-08-09	1.00	GCH-7	Grain				
G'nut	9/10-07-10	3.50	GG-5	Grain				
G'nut	14-07-09	0.90	GG-6	Grain				
G'nut	14-07-09	2.84	TPG-41	Grain				
G'nut	14-07-09	0.70	TG-37A	Grain				

6.3 Performance of instructional farm (livestock and fisheries production)

Sl.	Name	Details of production	Amount (Rs.)	Remarks

No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Major carp	Rohu/ Marigal	-	3000 6000	139000	2200	
2.	Gir Cow	Gir Cow	Milk	10143	-	114195	

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the Bank	Location	Account Number
With Host Institute	---	--	---
With KVK	State Bank of India	Super Market Jamnagar	10319002389

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2010
	Kharif 2010-11	Rabi 2010-11	Kharif 2010-11	Rabi 2010-11	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
TOTAL	-	-	-	-	-

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2010
	Kharif 2010-11	Rabi 2010-11	Kharif 2010-11	Rabi 2010-11	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
TOTAL	-	-	-	-	-

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2010
	Kharif 2010-11	Rabi 2010-11	Kharif 2010-11	Rabi 2010-11	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
TOTAL	-	-	-	-	-

7.5 Utilization of KVK funds during the year 2010-2011

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	**Recurring Contingencies**			
1	**Pay & Allowances**	4100000	4100000	4100000
2	**Traveling allowances**	100000	100000	40000
3	**Contingencies**	**700000**	**700000**	**697778**
A	Stationery, telephone, postage and other expenditure on office running, publication of	160000	160000	159950

	Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments	100000	100000	94950
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	70000	70000	69995
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	80000	80000	78898
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	190000	190000	189010
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	60000	60000	60000
G	Training of extension functionaries	40000	40000	39981
H	Maintenance of buildings	-	-	-
I	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-
J	Library	-	-	-
	TOTAL (A)	**7000000**	**7000000**	**7000000**
B.	**Non-Recurring Contingencies**			
1	**Works**	8800000	8800000	8800000
2	**Equipments including SWTL & Furniture**	755000	755000	696039
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	50000	50000	47241
4	**Library** (Purchase of assets like books & journals)	10000	10000	9961
	TOTAL (B)	**9615000**	**9615000**	**8960000**
C.	**REVOLVING FUND**	-	-	-
GRAND TOTAL (A+B+C)		**14515000**	**14515000**	**13800000**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April -08 to March -09	998617	848257	847807	999067
April -09 to March-10	999067	1222757	365986	1855838
April -10 to February -11	1855838	576961	96475	2336324

8.0 PLEASE INCLUDE INFORMATION, WHICH HAS NOT BEEN REFLECTED ABOVE (WRITE IN DETAIL).

8.1 Constraints

(a) Administrative : Administrative post are vaccanrt

(b) Fianacial : Grant released on time (FLDs)

(c) Technical : 2 SMS post are vacant i.e. Horticulture and crop protection

8.2 KRISHI MAHOTSAV – 2010 held during 16-05-10 to 14-06-10

Programmes for the Krishi Mahotsav was arranged on Taluka place of the each block/Taluka of Jamnagar District..

Following Scientists have participated in KRISHI MAHOTSAV – 2010 and give lecture to differnt topics related to agriculture farming for upliftment of rural farmer.

Sr. No.	Name of Scientist	Designation	Date	Name of Block
1.	Dr. H.R. Khafi	Programme Co-ordinator	**16-05-10 to 14-06-10**	Jamnagar
2.	Dr. K. P. Baraiya	SMS	**--do--**	Khambhaliaya
3.	Dr. N.B. Jadav	SMS	**--do--**	Jamnagar
4.	Dr. J. N. Thakar	SMS	**--do--**	Dhrol
5.	Dr. V. J. Zinzala	SMS	**--do--**	Lalpur
6.	Mr. P. S. Gorfad	Programme Assistant	**--do--**	Bhanvad
7.	Shri. A. M. Hadiya	Programme Assistant	**--do--**	Jamnagar

8.3 Celebration of Technology week

Technolgy week was celebrated at Krishi Vigyan Kendra, JAU, Jamnagar during 27th September to 1st October 2010. In which following different 215 farmers from different block were participated.

Date	Taluka	Numbers fo participants								
		General			SC/ST			Total		
		M	F	Total	M	F	Total	Male	Female	Total
27-9-10	Jamnagar, Kalavad	42	-	42	8	-	8	50	-	50
28-9-10	Jamnagar, Jodiya,	18	-	18	3	-	3	21	-	21
29-9-10	Bhanvad, Jamnagar Jamjodhpur	29	32	61	3	4	7	32	36	68
30-9-10	Jamnagar, Bhanvad, Khambhaliya, Kalyanpur, Lalpur	28	-		7	-	7	35	-	35
01-10-11	Khambhaliya, Kalavad Jamnagar	36	-	36	5	-	5	41	-	41
Total		153	32	157	26	4	22	179	36	215

Following are the topics deleveried by scientist

- Integrated Pest and disease of major crops
- Importance of micronutrients and fertilizers in agriculture

- Importance of micro irrigation system
- Animal care and maintenance with agriculture
- Value addition in farm products
- Farm women empowerment
- Scrope of horticultural crops in modern agriculture
- Recycling fo farm waste
- Vermin compost and organic farming
- Awarness of climate change and global warming

Attraction of the technology week

- Animal unit
- Net House/Poly house
- Vermi compost unit
- Fisheries unit
- Horticultural orchard
- Drip and sprinkler sytem
- Crop cafeteria of major crop
- Seed production unit of groundnut
- Demonstration of improved farm implements.

ANNEXURE – I

PROCEEDING OF THE 6th SCIENTIFIC ADVISORY COMMITTEE MEETING OF KRISHI VIGYAN KENDRA, JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR HELD ON 29th April, 2010

The Sixth Scientific Advisory Committee meeting of Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar was held at Training Hall, Krishi Vigyan Kendra, JAU, Jamnagar on 29th April, 2010.

The following members were present in the meeting.

Sr. No.	Name & Designation	Position
1	Dr. N. C. Patel Hon. Vice Chancellor Junagadh Agricultural University, Junagadh	Chairman
2	Dr. R. L. Savaliya Director of Extension Education, Junagadh Agricultural University, Junagadh -362001.	Member
3	Dr. J. P. Khunti Associate Director of research, Main Dry Farming Research Station, JAU, Targhadia	Member
4	Dr. C. J. Dangariya Research Scientist (Millet), Main Millet Research Station, Junagadh Agricultural University, Jamnagar- 361 006.	Member
5	Mr. Prakesh Patel (Representative) Research Officer Fisheries Research Centre, Junagadh Agricultural University, Okha, Dist: Jamnagar.	Member
7	Shri. B. J. Patel Dy. Director of Agriculture (Extension), Lalbunglow, Nr. Trazery Office, Jamnagar	Member
8	Dr. N.B. Bhalodia Dy. Director of Animal Husbandry, Dept. of Veterinary & Animal Husbandry, District Panchayat, Jamnagar	Member
9	Shri.R.H. Ladani Dy. Director of Horticulture, 30, Digvijay Plot, Jodiyawala Building, Jamnagar	Member
10	Shri. P. D. Rathod Dy. Director of Agriculture, Farmers Training Centre, Air Force Road, Opp. Digjam Mill, Jamnagar.	Member
11	District Manager, State Bank of India, lead Bank, Ranjit Road, Jamnagar	Member
12	Shri B.V. Daslaniya Prog. Executive, Station Director, All India Radio, B/h. Galaxy Cinema Rajkot	Member
13	Shri. Kantilal Bhagwanjibhai Ajudia At. Makwana, Ta. & Dist.- Jamnagar.	Member

14	Jumabhai Sulemanbhai Shekh, At. Jamnagar Dist: Jamnagar	Member
15	Shri. Narsibhai Bhagwanjibhai Mungara At. Dodhiya, Ta & Dist: Jamnagar	Member
16	Madhuben Narsibhai Munagra, At. Dodhiya, Ta & Dist: Jamnagar	Member
17	Dr. B.B. Kabariya Programme Coordinator, Krishi Vigyan Kendra, JAU, Targhadiya (Rajkot)	Member
18	Shri. R. K. Odedra (Representative) Programme Coordinator, Krishi Vigyan Kendra, JAU, Khapat (Porbander)	Member
19	Shri. V.B. Gadhiya (Representative) Programme Coordinator, Krishi Vigyan Kendra, JAU, Nana Khandhasar	Member
20	Dr. H. R. Khafi Programme Coordinator, Krishi Vigyan Kendra, JAU, Jamnagar	Member Secretary
21	Dr. K. P. Baraiya, SMS, KVK, JAU, Jamnagar - 361006	Member
22	Dr. N. B. Jadav, SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
23	Dr. V. J. Zizala SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
24	Dr. J. N. Thaker SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
25	Smt. Anjanben K. Baraiya SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
26	Dr. K. L. Ragwani, RS (Plant Protection), Millet Res. Station, JAU, Jamnagar	Invitee
27	Dr. H.J. Joshi, RS (Seed tech), Millet Res. Station, JAU, Jamnagar	Invitee
28	Shri. P. S. Gorfad, Programme Assistant, KVK, JAU, Jamnagar	Invitee
29	Mr. A. M. Hadiya, Programme Assistant, KVK, JAU, Jamnagar	Invitee

After garlanding the guests and dignitaries on the Dias, meeting was inaugurated by lightening the lamp by Hon'ble Vice Chancellor. Dr. C. J. Dangariya, Research Scientist, Millet Research Station, J.A.U., Jamnagar welcomed all the members of the Scientific Advisory Committee and highlighted the achievements of the centre in brief.

Dr. R.L. Savaliya, Directorate of Extension Education J.A.U. Junagadh delivered introductory speech. He told about the activities and mandates of KVK and highlights the achievements.

Dr. H. R. Khafi, Programme Coordinator, Krishi Vigyan Kendra, J.A.U., Jamnagar presented action taken report of the minutes of 5th SAC meeting, progress report (Oct, 2009 to March,10) and Action Plan (April 10 to Sept,10).

Suggestions made by committee members during presentation:

1. Hon'ble vice Chancellor, JAU, Junagadh Dr. N. C. Patel suggested to increase number of off campus training (i.e. 25 to 37). He also suggested providing box type solar cooker in RKVY

and imparting training on its use. He advised to invite more number of farmers from each talukas in SAC meeting for effective deliberation.

2. Dr. R. L. Savaliya, Directors of Extension Education, JAU, Junagadh suggested that to impart on campus training on seed production and storage. In addition to this arrange training on animal science with help of animal husbandry department.
3. Dr. C. J. Dangariya Research Scientist, Millet Research Station, JAU, Jamnagar suggested to select varieties in FLDs, i.e. GHB-744 and GCH-7 instead of GHB-558 and GCH-4 in Bajra and castor crops respectively.
4. Shri P.D. Rathod, Dy. Director of Agriculture (Extension) suggested arranging frontline demonstration of spice and condiments like cumin, coriander and ajwan and also pointed out to publish more press note and articles with collaboration with ATMA, Jamnagar.
5. Progressive farmer Shri Kantibhai Ajudia suggested to grow soyabean crops as an intercrop for more net returns.

After above suggestions from the house, hon'ble Vice Chancellor, Dr. N. C. Patel Junagadh Agricultural University, Junagadh, delivered the keynote address to the house. He suggested that emphasized on qualitative works and strengthen the demonstration unit.

It is concluded that number of off campus training should be increased and include training area in the field of seed storage, seed production, horticultural training. In demonstration, include spice and condiments demonstration viz. coriander, ajwan, cumin etc. and involve more numbers of farmers in SAC meeting representing all blocks of the district.

Director of Extension Education
Junagadh Agricultural University
Junagadh

Note: Proceeding for approval of Hon'ble Vice Chancellor, JAU, Junagadh

Vice Chancellor
Junagadh Agricultural University
Junagadh

ANNEXURE – II

FRONT LINE DEMONSTRATION:

Details of each technology demonstrated through Front Line Demonstration to be furnished in the following format separately along with raw data

To be furnished for every technology separately for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton, commercial crops, farm implements, livestock and fishery enterprises, home science technologies, other enterprise.

1. Groundnut (Trichoderma)

1) Production system :- Rainfed
2) Problem Definition :- Management of stem rot
3) Title of the technology demonstrated :- Trichoderma
4) Thematic area :- Integrated Disease Management
5) Year of release of the technology or Year of assessment :- Year - 1999
6) Source of technology :- Junagadh Agricultural University, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Jagabhai Bhurabhai Popaniya	Godavari	16.90
2	Rakeshbhai Devsibhai Karangiya	Godavari	16.25
3	Markhibhai Aibhabhai Karnagiya	Godavari	18.20
4	Bhikhabhai Hirabhai Kapuriya	Golaniya	20.00
5	Tulsibhai Damjibhai Kapuriya	Golaniya	19.20

Please specify the indicators 1,2,3 and 4 in addition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Final recommendation for micro level situation
9) Constraints identified and feedback for research
10) Process of farmers participation and their reaction

2. Groundnut (NPV)

1) Production system :- Rainfed
2) Problem Definition :- Management of Spodeptera
3) Title of the technology demonstrated :- NPV
4) Thematic area :- Integrated Pest Management
5) Year of release of the technology or Year of assessment :- -
6) Source of technology :- Junagadh Agricultural University, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Bharatbhai Devsibhai	Godavari	16.87
2	Rukviben Savdasbhai Karangiya	Godavari	17.25
3	Kesurbhai Jesabhai	Godavari	17.6

4	Devjibhai Khimabhai Thesiya	Golaniya	18.75
5	Manibhai Palabhai Vadi	Golaniya	18.25

Please specify the indicators 1,2,3 and 4 in addition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Final recommendation for micro level situation
9) Constraints identified and feedback for research
10) Process of farmers participation and their reaction

3. Green gram

1) Production system :-Irrigation
2) Problem Definition :- Low yield
3) Title of the technology demonstrated :-High yielding variety
4) Thematic area :-Increase yield
5) Year of release of the technology or Year of assessment :-Year - 2006
6) Source of technology :- Pulse Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Ranchodbhai Jethabhai	Nava nagana	Awaiting
2	Harjibhai Becharbhai	Khimrana	"
3	Arsibhai Sajanbhai Karena	Renta Kalawad	"
4	Keshubhai Hirabhai Karena	Renta Kalawad	"
5	Keshv Kanjibhai Kamani	Vodisang	"
6	Girdharbhai Ramjibhia	Vodisang	"
7	Navalbhai Vallabhbhai	Vodisang	"
8	Bhagwanjibhai Karabhai	Karana	"
9	Karabhai Khimabhai	Karana	"
10	Chaganbhai Becharbhai	Khimrana	"

Please specify the indicators 1,2,3 and 4 in addition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Final recommendation for micro level situation
9) Constraints identified and feedback for research
10) Process of farmers participation and their reaction

4. Chick pea

1) Production system :-Irrigated
2) Problem Definition :- Low yield of chick pea
3) Title of the technology demonstrated :-Varietal difference
4) Thematic area :-Variety
5) Year of release of the technology or Year of assessment :-Year - 2008
6) Source of technology :- Pulse research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Chavada Meru Dhana	Vadatra	14.75
2	Arjan Mulu Chavada	Vadatra	14.5
3	Ambabhai Karanabhai	Vadatra	15.25
4	Hebhabhai Samantbhai Chavada	Vadatra	16
5	Parbhatbhai Dhanabhai	Vadatara	15.75
6	Zapada Batukbhai Gobarbhai	kalawad	16.5
7	Babubhai Panchabhai	Kalawad	17
8	Fatemamad Nurmamad	Nana badanpar	16.5
9	Abdul Hamidbhai	Nana badanpar	17
10	Jamanbhai Lavabhai	Vodisang	16.5
11	Ranmal Vera	Moorila	15.2
12	Dhana Kana	Moorila	15.25
13	Karshan Khoda	Moorila	15
14	Parbat Lakha	Moorila	15.2
15	Devanand Arsi	Moorila	15.8

Please specify the indicators 1,2,3 and 4 in addition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Final recommendation for micro level situation
9) Constraints identified and feedback for research
10) Process of farmers participation and their reaction

5. Wheat

1) Production system :-Irrigated
2) Problem Definition :- Low yield of wheat
3) Title of the technology demonstrated :-varietal difference
4) Thematic area :-Variety assessment
5) Year of release of the technology or Year of assessment :-Year - 2007
6) Source of technology :- Wheat Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Mahendrabhai Laljibhai	Lalpur	Awaiting
2	Vasantbhai Ramjibhai	Lalpur	"
3	Mukeshbhai Popatbhai	Lalpur	"
4	Virsodiya Ishwarbhai Naranbhai	Lalpur	"
5	Hasmukbhai Maganbhai	Lalpur	"
6	Muktaben Devrajbhai	Lalpur	"
7	Karubhai Meramanabhai	Datrana	"
8	Dharmendrasingh Nagjibhai	Bhatel	"

9	Keshubha Ramsang	Bhatel	"
10	Jivraj Mahend Harijan	Kalawad	"
11	Amipara Dayabhai Gokalbhai	Sarvadiya	"
12	Ginoya Kadavabhai Hasrajbhai	Kalawad	"
13	Durmamad Valimamad	Nana badnpar	"
14	Yunusbhai Hurmamad	Nanabadanpar	"
15	Virani Babubhai Chaganbhai	Kalawad	"
16	Nanjibhai Chaganbhai	Kalawad	"
17	Vikarambhai Arsibhai	Viramdal	"
18	Dhanabhai Lakhabhai	Keshod	"
19	Arjanbhai Khimabhai	Vijalpur	"
20	Keshavjibhai Ramjibhai	Viramadal	"

Please specify the indicators 1,2,3 and 4 in addition to yield other parameters should be indicated

In case of more indicators, please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Final recommendation for micro level situation
9) Constraints identified and feedback for research
10) Process of farmers participation and their reaction

6. Cumin

1) Production system :-Irrigated
2) Problem Definition :- Low yield ofcumin
3) Title of the technology demonstrated :-varietal difference
4) Thematic area :-Variety assessment
5) Year of release of the technology or Year of assessment :-Year - 2007
6) Source of technology :- Spices research station, Jagudan
7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Samatbhai Harjibhai	Fotadi	10.9
2	Narsibhai Nanjibhai Chikaliya	Makvanan	11.5
3	Arjanbhai Kadavabhai	Lavadiya	9.5
4	Vajubhai Jadavbhai Patodiya	Lavadiya	9.1
5	Rajeshbhai Vittalbhai Thakrar	Bhangor	9.8
6	Harjibhai Jasabhai Rabadiya	Pipertoda	11.25
7	Subhasbhai Chakubhai	Chandraga	11.87
8	Jesabhai Harjibhai	Bodaki	9.8
9	Chotubhai Parbatbhai	Bodaki	9.9
10	Rameshbhai Hirabhai	Bodaki	10

Please specify the indicators 1,2,3 and 4 in addition to yield other parameters should be indicated

In case of more indicators, please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Final recommendation for micro level situation

9) Constraints identified and feedback for research
10) Process of farmers participation and their reaction

7. Pearl millet

1) Production system :-Rainfed
2) Problem Definition :- Low yield of pearlmillet
3) Title of the technology demonstrated :-varietal difference
4) Thematic area :-Variety assessment
5) Year of release of the technology or Year of assessment :-Year - 2007
6) Source of technology :- millet Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Bhagwanjibhai Ravjibhai Hadiyal	Dhuvav	28.5
2	Dayabhai Pragjibhai Nakum	Dhuvav	29.3
3	Kodabhai Bhanabhai Kanjariya	Dhuvav	27.9
4	Harjibhai Khodabhai Kanjariya	Dhuvav	28
5	Thakarsibhai Bhimjibhai Chavad	Dhuvav	29
6	Ghansyambhai Bhanubhai Kanjaria	Dhuvav	27.5
7	Bhanubhai Ambabhai	Dhuvav	28.3
8	Oghabhai Pitamberbhai	Dhuvav	28.3
9	Raghubhai Virjibhai Nakum	Dhuvav	29.5
10	Lavjibhai Ambabhai Kanjarai	Dhuvav	28.2
11	Nathabhai Mavabhai Savaliya	Madhupur	33.5
12	Ganpatbhai Nagjibhai	Madhupur	32.52
13	Naradbhai Limbabhai	Madhupur	32.9
14	Ashokbhai Rajpariya	Madhupur	33.75
15	Bhagwanjibhai Nathabhai Savaliya	Madhupur	31.32
16	Arvindbhai Jamanbhai Pansuriya	Madhupur	32.1
17	Rameshbhai Devjibhai	Madhupur	32.3
18	Damjibhai Vasharambhai	Morkanda	33.25
19	Rameshbiah Nagjibhai Bhatti	Madhupur	32
20	Narendrasingh Parmar	Vasai	32

Please specify the indicators 1,2,3 and 4 in addition to yield other parameters should be indicated

In case of more indicators, please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Final recommendation for micro level situation
9) Constraints identified and feedback for research
10) Process of farmers participation and their reaction

ANNEXURE – III

WORKSHOP/SEMINAR/CONFERENCE/MEETING ETC ATTENDED BY KVK STAFF

Sr. No.	Period	Name of Officer	Place	Subject
1	20-4-2010 to 21-4-2010	Dr. N. B. Jadav	NAU, Navsari	Group meeting on FLD cotton
2	22-11-2010 to 23-11-2010	Dr. N. B. Jadav	RAU, Bikaner	Training on Kisan mobile advisory service
3	24-11-2010 to 26-11-2010	Dr.N.B. Jadav	JAU, Junagadh	National symposium on Innovations in plant pathology research and human resource development
4	22-9-210 to 24-9-2010	Dr.N.B. Jadav	Jhunjune, Rajsthan	Annunal zonal workshop of KVK
5	15-06-2010 to 16-06-2010	Dr. N. B. Jadav	ICAR, JNKVV Campus, Adhartal, Jabalpur	Training on "Technology demonstration for harnessing pulses production"
6	18-09-2010 to 20-09-2010	Dr. N. B. Jadav	Udaipur	International Conference on "Traditional Practices in Conservation Agriculture
7	18-09-2010 to 20-09-2010	Dr.G.M. Parmar	Udaipur	International Conference on "Traditional Practices in Conservation Agriculture
8	24-11-2010 to 26-11-2010	Dr.G.M. Parmar	JAU, Junagadh	National symposium on Innovations in plant pathology research and human resource development

9	18-09-2010 to 23-09-2010	Dr. H. R. Khafi	ARS, Kalai, COA Gwalior, ZRS Morena, Aligarh, Agra, Eglas Centers	Attending monitoring of AICPMIP Kharif-2010 trails at ARS, Kalai, COA Gwalior, ZRS Morena, Aligarh, Agra, Eglas Centers.
10	24-11-2010 to 26-11-2010	Shri P.S.Gorfad	JAU, Junagadh	National symposium on Innovations in plant pathology research and human resource development
11	22-12-2010 to 24-12-2010	Dr. H. R. Khafi	MPAUT, Udaipur	National conference of KVK

SUMMARY TABLES OF ANNUAL PROGRESS REPORT – 2010-11

(APRIL 2010 TO MARCH - 2011)

STAFF POSITION

KVK	PC			SMS			PA			ADMN			AX			SUPP			TOTAL		
	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V
KVK, JAU, Jamnagar	1	1	0	6	4	2	3	3	0	2	1	1	2	2	0	2	2	0	16	13	3

S- Sanctioned F- Filled V- Vacant

REVOLVING FUND

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2010 to February 2011	2206582	133441	**274160**	**2065863**

SCIENTIFIC ADVISORY COMMITTEE

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	01-10-2005	21	-	-
2.	07-10-2006	30	-	-
3.	02-11-2007	31	-	-
4.	17-10-2008	30		
5.	14-09-2009	33		
6	19-04-2010	35	As below	As below
7	07-03-2011			

1 Details of Technologies assessed and refinement

List of Technology Assessed

S. No	Enter prise	Crop/ Animal/ Species	Name of the technology assessed	Thematic area	Area (ha.)	Number of trials	Remarks if any
1		Groundnut	IDM	IDM in groundnut	2	5	Tricoderma

	Oilseeds crops	Groundnut	IPM	IPM in groundnut	2	5	NPV
2	Fibre crops	Cotton	Full package	INM and ICM in cotton	11	25	Component
3	Cereals	Wheat	Variety	Varietal Evaluation of wheat	10	20	Wheat (GW-366)
		Pearl millet	Variety	Varietal Evaluation of wheat	8	20	GHB 744
4	Others	Cumin	Variety	Varietal evaluation	4	10	Cumin (Guj.Cum.-4)
	Total (Wherever applicable)				**37**	**85**	

List of Technology Refined

S. No	Enter prise	Crop/ Animal/ Species	Name of the technology assessed	Thematic area	Area (ha.)	Number of trials	Remarks if any
1	Oilseeds crops	Groundnut	IDM	IDM in groundnut	2	5	Tricoderma
		Groundnut	IPM	IPM in groundnut	2	5	NPV
2	Fibre crops	Cotton	Full package	INM and ICM in cotton	11	25	Component
3	Cereals	Wheat	Variety	Varietal Evaluation of wheat	10	20	Wheat (GW-366)
		Pearl millet	Variety	Varietal Evaluation of pearl millet	8	20	GHB 744
4	Others	Cumin	Variety	Varietal evaluation	4	10	Cumin (Guj.Cum.-4)
	Total (Wherever applicable)				**37**	**85**	

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

Thematic areas	Cereals	Oilseeds	Pulses	Comm -ercial Crops	Veget -ables	Fruits	Flower	Plant - ation crops	Tuber Crops	TOTAL
Varietal Evaluation	1		1							2
Seed / Plant production										
Weed/Thining Management	1									1
Integrated Crop Management		1		1						2
Integrated Nutrient Management					2					2
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										

Farm machineries										
Value addition										
Integrated Pest Management			1		2					3
Integrated Disease Management		2	1	1						4
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	2	3	3	2	4					14

** Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro situation.*

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

Thematic areas	Cereals	Oilseeds	Pulses	Comm-ercial Crops	Veget-ables	Fruits	Flower	Plant-ation crops	Tuber Crops	TOTAL
Varietal Evaluation	1		1							2
Seed / Plant production										
Weed Management	1									1
Integrated Crop Management		1		1						2
Integrated Nutrient Management					2					2
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management			1		2					3
Integrated Disease Management		2	1	1						4
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	2	3	3	2	4					14

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								

Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

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

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

PERFORMANCE OF IMPORTANT TECHNOLOGIES

A. & B. Technology Assessment/Refinement

OFT – 1:- Oilseeds (Groundnut) :

1) Title :- Biological control of *Sclerotium rolfsii* (stem rot) in groundnut

2) Problem definition :

-Low plant population

-Disease problems

-Lack of knowledge for use of recommended control measure

3) Detalis fo technologies for assessment/ ferinement

Category	Source of technology	Technologoy details	
Technology option 1	Farmer	T_1	Farmers practice (Control)
Technology option 2	Main Oilseeds Res. Station, JAU, Junagadh	T_2	*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing
Technology option 3		T_3	Castor cake @ 500 kg/ha, Drenching of *Trichoderma harzeanum* @2.5 kg/ha at 30 & 45 DAG

4) Source of Technology:- Junagadh Agricultural University

5) Production system : Integrated disease management

6) Thematic area : Management of stem rot in groundnut

7) Performance of the Technology assessed / refined with performance indicators

Far-mer No	**Name of the farmer**	**Name of the Village**	**Data on the performance indicators of the technology assessed / refined**		
			Technology Option 1	**Technology Option 2**	**Technology Option 3**
			Yield(q/ha)	**Yield (q/ha)**	**Yield (q/ha)**
1	Mulubhai Vejanandbhai Dethariya	Hasthal	16.2	20.2	17.6
2	Goganbhai Ramde	Viramdal	16.6	20.4	18.2

3	Mohanbhai Karsanbhai	Arikhana	17.2	20.6	18.9
		Average	**16.66**	**20.4**	**18.23**

8) Final recommendation for micro level situation:

Management of *Sclerotium rolfsii* in groundnut with *Trichoderma harzeanum* @ 2.5 kg/ha and castor cake @ 500kg/ha at the time of sowing having more beneficial

9) Constraints identified and feedback for research :

-Soil born fungus,

-Highly related with high moisture & temperature.

-Reduce stem rot diseases

-Yield increase compare to control plot

-Good and bigger quality of pods

10) Process of farmers participation and their reaction: Farmers have good response and they have support for OFT. They satisfied with this trial.

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technology Assessed	Parameters of assessment	Data on the parameter (kg/ha)
1	2	3	4	5	6	7	8
Groun-dnut	Rain-fed	Stem rot (*Scler-otium rolfcii*)	Yield losses in groundnut due to Sclerotium stem rot	3	Manageme nt of stem rot in groundnut through *Trichoderm a harzaneum*	T_1- Farmers practice (Control)	1666
						T_2- Improved Practice (*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2040
						T_3 – Refined Practices (Castor cake @ 500 kg/ha, Drenching of *Trichoderma harzeanum* @2.5 kg/ha at 30 & 45 DAG)	1823

**** No. of farmers***

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Groundnut	Farmers have good response and they have support for OFT. They satisfied with this trial	Farmers have good response and they have support for OFT. They satisfied with this trial	Castor cake @ 500 kg/ha, Drenching of *Trichoderma harzeanum* @2.5 kg/ha at 30 & 45 DAG	Directely comes in contact with stem in drenching

Crop/ enterprise	Technology Assessed / Refined	*Production kg/ha	Input cost Rs./ha	Gross return Rs./ha	Net Return (Profit) in Rs. / ha	BC Ratio (* only OFT input cost base)
1	13	14			15	16
Ground -nut	T_1- Farmers practice (Control)	1671	2800	40104	37304	13.32
	T_2- Improved Practice (*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2048	2250	49152	46902	20.84
	T_3 – Refined Practices (Castor cake @ 500 kg/ha, Drenching of *Trichoderma harzeanum* @2.5 kg/ha at 30 & 45 DAG)	1840	2547	44160	41613	16.34

OFT – 2 :- Pearl millet

1) Title :- Assessment of time of thining in pearl millet

2) Problem diagnose/ definition:

-Compitition among plants for moisture, nutrient etc
-Weeding problem arieses
-Insect pest problem aries
-Lodging problem arises and early maturity of the crop
-Reduce the quality of seeds and grain yield

3) Details of technologies selected for assessment/ refinement

Category	Source of technology	Technology detail		
Technology option 1	Farmer	T_1	Farmer practices	No thining
Technology option 2	Milet Res. Station	T_2	Reco. practices	Thining 15 to 20 DAS
Technology option 3		T_3	Refined practices	Thining 25 to 30 DAS

4) Source of technology: Junagadh Agricultural University

5) Production system :- Recommended agricultural technologies need to be tested for its suitability in local situation and refined in order to make it location specific ones. During current season i.e. Rabi-2010-11 thinging in pearl millet after 15 to 20 DAS found higher yield.

6) Thematic area : increase yield

7) Performance of the Technology assessed / refined with performance indicators

Farmer No	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed / refined (Grain yield)		
			T_1	T_2	T_3
1	Bodar Sajanbhai Arjanbhai	Nandana	28.12	31.25	28.75
2	Kambariya Parbatbhai Virabhai	Nandana	28.3	31.2	29
3	Rambhai Arsibhai	Godavari	31.25	32.5	31.75

		Average	28.12	31.25	28.75

8) Final recommendation for micro level situation: thining of peal millet after 15 to 20 DAS give significant higher yield as compare to farmers practices.

9) Constraints identified and feedback for research:

-Compitition among plants in case of nutrients

-weeding problem arises

-Yield increase as compare to farmers practices.

10) Process of farmers participation and their reaction: Farmers have good response and they have support for OFT. Recommended practices thining 15 to 20 DAS significantly higher yield as compare to farmers pratices.They satisfied with this trial.

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technology Assessed	Parameters of assessment	Data on the parameter (Grain Yield Q/ha)
1	2	3	4	5	6	7	8
Pearlmil let	Irrigate d	Low yield	Assessment of time of thining in pearl millet	3	Thining	T_1-No thining	28.12
						T_2-Thining 15 to 20 DAS	31.25
						T_3-Thining 25 to 30 DAS	28.75

**** No. of farmers***

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Cotton	Thining in pearlmillet after 15 to 20 days after sowing having significant yield with farmers practices.	Higher yield found in recommended treatment. They satisfied with this trial.	- Thning after 15 to 20 DAS is benefited as compare to no thining	- Thining is benefitied as compare to farmers practices (no thining)

Crop/ enterprise	**Technology Assessed / Refined**	***Production kg/ha**	**Input cost Rs./ha**	**Gross return Rs./ha**	**Net Return (Profit) in Rs. / ha**	**BC Ratio**
1	**13**	**14**			**15**	**16**
Cotton	T_1-No thining	2812	2812	11825	30932	1:2.61
	T_2-Thining 15 to 20 DAS	3125	3125	12012	34375	1:2.86
	T_3-Thining 25 to 30 DAS	2875	2875	12300	31625	1:2.57

<u>OFT – 3 :- Home Science (Adolescent Girls)</u> :

1) Title :- Management of Anemia in adolescent girls

Village: Arikhana, Ta.- Lalpur, Dist.- Jamnagar

Period : *June, 2010 to Dec, 2010*

Sample Size : 15 girls

2) Problem definition :

- Deficiency of iron/ Hemoglobin (Problem of anemia) in adolescent girls
- Imbalance dietary pattern

- Lack of knowledge for nutritional diet

3) Title of technology assessed/refined: Management of anemia in adolescent girls

4) Thematic area : Management of anemia in adolescent girls

5) Details of technologies for assessment/ refinement

Category	Source of technology	Technology details	
Technology option 1	Local dietary pattern	T_1	Existing dietary pattern (Control)
Technology option 2	Recommended by WHO	T_2	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses) with existing dietary pattern
Technology option 3	Refinement	T_3	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern

6) Production system and thematic area :

Fifteen adolescent girls' are selected to test hemoglobin level. There are three groups (1) optimum (12 - 15 gm/ 100 ml), (2) slightly low (10 - 12 gm/ 100 ml) and (3) very low (5 - 10 gm/ 100 ml) level of hemoglobin. Keep these groups under existing dietary pattern (control) (T_1), Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses) with existing dietary pattern (T_2), and Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern (T_3) respectively. Record level of hemoglobin and weight of girls before and after six month of treatment.

7) Raw data about the performance of the Technology assessed / refined with performance indicators

Sr. No	Name of the adolescent girl	Name of the Village	Data on the performance indicators of the technology assessed / refined					
			Weight (kg)			Hemoglobin gm/100ml		
			Before	After 6 month	Difference	Before	After 6 month	Difference
	T_1							
1	Jignaben Bhagwanjibhai Dobariya	Arikhana	47	47	0	13.1	13	-0.1
2	Kinjalben Hanshrajbhai Dobariya	Arikhana	49	49.3	0.3	13	13.2	0.2
3	Manishaben Vallabhbhai Mungara	Arikhana	45	44.6	-0.4	14	13.9	-0.1
4	Minaben Jayeshbhai Vaishnani	Arikhana	56	56	0	13.1	13.1	0
5	Miraben Haribhai Dobariya	Arikhana	45	45	0	13.8	13.8	0

6	Ilaben Bhanjibhai Vaishnav	Arikhana	50	50	0	13.8	13.8	0
7	Bhumiben Govindbhai Mungara	Arikhana	40	42	0	12.5	13.0	0.5
	T_2	**Average**	**47.43**	**47.7**	**1.9**	**13.33**	**13.40**	**0.07**
8	Shitalben Rameshbai Vaishnav	Arikhana	38	40	2	12	12.5	0.5
9	Parulben Hirjibhai Vadi	Arikhana	35	35.4	0.4	12	12.5	0.5
10	Kajalben Jentibhai Dobariya	Arikhana	41	41.0	0	11.8	12.3	0.5
11	Artiben Vitthalbhai Vaishnani	Arikhana	52	52	0	11.6	12	1.4
	T_3	**Average**	**41.50**	**42.1**	**0.6**	**11.85**	**12.58**	**0.73**
12	Shilpa Vinodbhai Dobariya	Arikhana	45	46	1	9.8	11.8	2
13	Bhavnaben Hiteshbhai Dobariya	Arikhana	52	53	1	10	11.6	1.6
14	Alpaben Bhanjibhai Vaishnav	Arikhana	60	60	0	10	12	2
15	Jalpaben Virjibhai Vaishnav	Arikhana	45	47	2	9	11.5	2.5
		Average	**50.50**	**51.50**	**1.00**	**9.70**	**11.72**	**2.02**

8) Final recommendation for micro level situation : Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern is more beneficial for management of anemia in adolescent girls.

9) Constraints identified and feedback for research :

- ❖ Imbalanced dietary pattern
- ❖ No use of vegetable and fruits in their daily diet
- ❖ Lack of knowledge for nutritional diet

10) Process of farmers (girls) participation and their reaction: Adolescent girls have good response and they have support for OFT. They satisfied with this trial. And they have realized the importance of iron in their diet.

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technology Assessed	Parameters of assessment		Difference in Hemoglobin g/100 ml
1	2	3	4	5	6	7		8
Adolescent girls	Adolescent girls	Anemia in adolescent girls	Management of anemia in adolescent girls	12	Management of anemia in adolescent girls	T_1	Existing dietary pattern (Control)	-0.1 to 0.5 (0.07)
						T_2	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses) with existing dietary pattern	0.5 to 1.4 (0.73)
						T_3	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern	1.6 to 2.5 (2.02)

**** No. of farmers***

Crop/ enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
Adolescent girls	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern	Increase in hemoglobin level of adolescent girls	-	-

Crop/ enterprise	Technology Assessed / Refined		*Production kg/ha	Input cost Rs./ha	Gross return Rs./ha	Net Return (Profit) in Rs. / ha	BC Ratio (* only OFT input cost base)
1	**13**		**14**			**15**	**16**
Adolescent girls	T_1	Existing dietary pattern (Control)	-	-	-	-	-
	T_2	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses) with existing dietary pattern	-	720 Rs/girl	-	-	-
	T_3	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses + 25 gm of jaggery) with existing dietary pattern	-	900 Rs/girl	-	-	-

FRONTLINE DEMONSTRATIONS

Crop/enterprise	No.of demonstrations	Area (ha)
Oilseeds	10	4
Pulses		
Cereals	40	18
Millets		
Cash crops		
Fodder crops		
Fruit crops		
Vegetable crops		
Plantation crops		
Spices and condiments (Cumin)	10	4

Flowers and ornamental crops		
Medicinal and aromatic plants		
Fishery		
Total		
		Units (No.)
Dairy		
Sheep and goat		
Poultry		
Piggery		
Rabbitary		
Apiculture		
Mushroom units		
Total		
Grand total	**60**	**26**

OILSEEDS

Crop	Season	Name of technology	No.of farmers	Area (ha)	Performance of technology on different parameters*						Result **
					1		2		3		
					Dem	Local Check	Dem	Local Check	Demo	Local Check	
G'nut	Kharif	Trichoderma	5	2	18.12	15.0					17.24
G'nut	Kharif	NPV	5	2	17.81	16.25					8.77

* Include the data on related observations and yield

** Efficacy of technology demonstrated and its impact on yield

PULSES

Crop	Season	Name of technology	No. of farmers	Area (ha)	Performance of technology on different parameters*						Result **
					1		2		3		
					Demo.	Local Check	Demo.	Local Check	.	Local Check	
Chick pea	Rabi	GG-3	15	7	16.87	15.00					11.11
Green gram	Summer	GM-4	10	4	7.18	6.5					9.56

* Include the data on related observations and yield

** Efficacy of technology demonstrated and its impact on yield

Cotton

Crop	Season	Name of technology	No.of farmers	Area (ha)	Performance of technology on different parameters*						Result **
					1		2		3		
					Demo	Local Check	Demo	Local Check	Demo	Local Check	
Cotton	Kharif	INM	25	11	21.20	18.60					11.76

* Include the data on related observations and yield

** Efficacy of technology demonstrated and its impact on yield

CEREALS, HORTICULTURE AND OTHER CROPS

Crop	Season	Name of technology	No.of farmers	Area (ha)	Performance of technology on different parameters*			Result **
					1	2	3	

					Demo	Local Check	Demo	Local Check	Demo	Local Check	
Pearl millet	Kharif	Varietal	20	8	30.62	26.25					14.28
Wheat	Rabi	Varietal	20	10	53.75	45					16.27
Cumin	Rabi	Varietal	4	10	12.5	10					20.00

* Include the data on related observations and yield

** Efficacy of technology demonstrated and its impact on yield

ENTERPRISES

Enterprise	Name of technologies	No.of farmers	No. of Units	Performance of technology on different parameters *						Result**
				1		2		3		
				Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
Apiculture										
Bio-feed (Azolla)										
Dairying										
Duckery										
Mushroom										
Piggery										
Poultry										
Quail farming										
Sheep and Goat production										

* Include the data on related observations and yield

** Efficacy of technology demonstrated and its impact on yield

Demonstrations on Hybrid varieties of different crops

Crop	Season	Name of the Hybrid variety	No. of farmers	Area (ha)	Performance of technology on different parameters*						Result **
					1		2		3		
					Demo	Local Check	Demo	Local Check	Demo	Local Check	

* Include the data on related observations and yield

** Efficacy of technology demonstrated and its impact on yield

3. DETAILS OF TRAINING PROGRAMMES CONDUCTED:

Table – 3 A Area-wise distribution of On + Off Campus Training Courses for Farmers and Farm Women, Rural Youth & Extension Personnel (regular + sponsored)

Thematic Area	No. of	No. of Participants		
		Others	SC/ST	Total

	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	4	108	19	127	23	5	28	131	24	155
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	4	97	4	101	14	2	16	111	6	117
Seed production	4	83	16	99	30	4	34	113	20	133
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	6	230	30	260	34	5	39	264	35	299
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Total	**18**	**518**	**69**	**587**	**101**	**16**	**117**	**619**	**85**	**704**
II Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	2	49	17	66	10	2	12	59	19	78
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	2	43	10	53	8	2	10	51	12	63
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	-	-	-	-	-	-	-	-	-	-
Total	**4**	**92**	**27**	**119**	**18**	**4**	**22**	**110**	**31**	**141**
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Soil fertility management	4	137	22	159	28	5	33	165	27	192
Soil and Water Conservation	3	59	6	65	3	0	3	62	6	68
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	1	12	2	14	3	2	5	15	4	19
Nutrient Use Efficiency	4	125	6	131	14	1	15	139	7	146
Soil and Water Testing	-	-	-	-	-	-	-	-	-	-
Total	**11**	**321**	**34**	**355**	**45**	**6**	**51**	**366**	**40**	**406**
IV Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	-	-	-	-	-	-	-	-	-	-
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-

Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	3	-	65	65	-	15	15	-	80	80
Income generation activities for empowerment of rural Women	1	-	25	25	-	5	5	-	30	30
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	3	0	60	60	0	10	10	0	70	70
Total	**7**	**0**	**150**	**150**	**0**	**30**	**30**	**0**	**180**	**180**
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
VII Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	6	259	28	287	34	7	41	293	35	328
Integrated Disease Management	4	152	15	167	31	3	34	183	18	201
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Total	**10**	**411**	**43**	**454**	**65**	**10**	**75**	**476**	**53**	**529**
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
Integrated fish farming	4	32	-	32	58	-	58	90	-	90
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	1	10	-	10	22	-	22	32	-	32
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-

Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
Total	**5**	**42**	**0**	**42**	**80**	**0**	**80**	**122**	**0**	**122**
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Seed Production	4	102	0	102	25	0	25	127	0	127
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	4	132	34	166	29	9	38	161	43	204
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	-	-	-	-	-	-	-	-	-	-
Total	**8**	**234**	**34**	**268**	**54**	**9**	**63**	**288**	**43**	**331**
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	2	33	10	43	8	3	11	41	13	54
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Total	2	33	10	43	8	3	11	41	13	54
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-
TOTAL	**65**	**1651**	**367**	**2018**	**371**	**78**	**449**	**2022**	**445**	**2467**
	-	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	4	89	20	109	21	1	22	110	21	131
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-

Vermi-culture	1	34	8	42	12	4	16	46	12	58
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-
Para vets	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	1	12	12	24	3	4	7	15	16	31
TOTAL	**5**	**123**	**28**	**151**	**33**	**5**	**38**	**156**	**33**	**189**
(C) Extension Personnel										
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	5	76	0	76	12	0	12	88	0	88
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	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-	-
TOTAL	**5**	**76**	**0**	**76**	**12**	**0**	**12**	**88**	**0**	**88**
Grand Total	**75**	**1850**	**395**	**2245**	**416**	**83**	**499**	**2266**	**478**	**2744**

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Dura-tion (days)	No. of Participants									No. of persons emp-loyed	Empl-oyed else where
					General			SC/ST			Total				
					M	F	T	M	F	T	M	F	T		
Fruit	27-8-10	Preparation of jam, jelly and pickles	Value addition in fruit	1	-	14	14	-	3	3	-	44	44	-	-
Vegetable	29-6-10	Value addition in fruit and Vege	Value addition in fruit	1	-	14	14	-	4	4	-	18	18	-	-
Vermi compost	15-10-10	Production off varmi compost	Self emploment	1	8	3	11	4	-	4	12	3	15	2	1

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

Sr. No.	Date	Discipline	Dura-tion	Total No. of participants									Sponsoring Agency
				Other			SC/ ST			Total			
				M	F	T	M	F	T	M	F	T	
1	1-7-10	Agron	1	12	4	16	9	2	11	21	6	27	DAO
2	26-7-10	Animal	2	42	8	50	10	2	12	52	10	62	GVK trust
3	17-9-10	Pl.Prot	1	32	-	32	8	-	8	40	-	40	Mahindra
4	21-9-10	Pl.Prot	1	88	14	102	6	2	8	94	16	110	ATMA
5	24-9-10	Pl.Prot	1	52	-	52	12		12	64	-	64	GNFC
6	28-9-10 to 30-9-10	Dairy Farming	3	80	-	80	20	-	20			100	GVT
9	25-10-10	Agron	1	18	4	22	5	-	5	23	4	27	Jain irri.
10	28-10-10	Pl.Prot	1	32	-	32	9		9	41	-	41	DAO

11	30-10-10	Agron	1	32	-	32	5	-	5	37	-	37	DAO
12	7-12-10	Pl.Prot	1	60	7	67	7	-	7	67	7	74	ATMA
13	30-12-10	Agron	1	20	-	20	5		5	25	-	25	DAO
14	26-11-10	Agron	1	45	6	51	11	-	11	56	6	62	DAO
15	31-12-10	Fishery	1	25	-	25	25	-		25	-	25	Fishery Deptt

Table 4. Extension Programmes (including activities of FLD programmes)

Sr. No.	Nature of Extension Activity	No. of activities	Participants								
			Farmers (Others)			Farmers (SC/ST)			Grand Total		
			M	F	T	M	F	T	M	F	T
1	**2**	**4**	**5**	**6**	**7**	**8**	**9**	**11**	**12**	**13**	**14**
1	Field Day	3	118	12	130	26	-	26	144	12	156
2	Kisan Ghosthi	2	125	0	125	19	-	19	144	0	144
3	Film Show	2	28	24	52	4	2	6	32	26	58
4	M. Demo	3	-	-	-	-	-	-	-	-	-
5	Farmers Seminar	2	72	8	80	8	0	8	80	8	88
6	Group meetings	4	72	0	72	3	0	3	75	0	75
7	Lectures delivered	11	727	183	910	100	13	113	827	196	1023
8	News paper	3	-	-	-	-	-	-	-	-	-
9	Popular articles	2	-	-	-	-	-	-	-	-	-
10	Advisory Services	5	-	-	-	-	-	-	-	-	-
11	Scientific visit to farmers fields	14	78		78	6		6	84	0	84
12	Farmers visit to KVK	22	325	47	372	48	25	73	373	72	445
13	Diagnostic visits	12	-	-	-	-	-	-	-	-	-
14	Agri mobile Service	275	-	-	-	-	-	-	-	-	-
15	Soil test campaigns	5342	-	-	-	-	-	-	-	-	-
16	Night meeting	0	-	-	-	-	-	-	-	-	-
17	Collobrativ training	6	125		125	27		27	152	0	152
18	Training to ext.functi	2	42		42	4		4	46	0	46
19	Radio talk	2	-	-	-	-	-	-	-	-	-
	Total	**371**	**2025**	**465**	**2490**	**354**	**126**	**480**	**2402**	**591**	**2287**

Table 5 Production and supply of Technological products (2007-08)

Table 5A SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Groundnut	GW-366	2680	53600	
OILSEEDS	Groundnut	GG-5 (Grade - A)	510	18360	
	Groundnut	GG-6 (Grade - A)	419	15084	
	Groundnut	TPG- 41 (Grade - A)	239	8604	
	Castor	GCH-7 (Grade - A)	348.85	32269	
PULSES					
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)	Cumin	G-4	8	1280	

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	2680	53600	
2	OILSEEDS	6433	223426	
3	PULSES			
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS (Vermi Culture)	8	1280	
	Vermi compost			
TOTAL		**9121**	**278306**	

Table 5B PLANTING MATERIALS Nil

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)		Provided to No. of Farmers
				Per plant	Total	
FRUITS						
SPICES						
VEGETABLES						
FOREST SPECIES						
ORNAMENTAL CROPS						
PLANTATION CROPS						
Others (specify)						

SUMMARY

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

Table 5C BIO PRODUCTS

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS	-	-	-	-	-	-
BIOFERTILIZERS	Rhizobium culture					
BIO PESTICIDES	Trichoderma		70	150	10500	

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		

1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE Trichoderma	-	70	150	10500	
	TOTAL					

Table 5D LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle	-	-	-	-	-	-
SHEEP AND GOAT	-	-	-	-	-	-
POULTRY	-	-	-	-	-	-
FISHERIES	-	-	-	-	-	-
Others (Specify)	-	-	-	-	-	-

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE	-	-	-	-	-
2	SHEEP & GOAT	-	-	-	-	-
3	POULTRY	-	-	-	-	-
4	FISHERIES	-	-	-	-	-
5	OTHERS	-	-	-	-	-
	TOTAL	-	-	-	-	-

ACTION PLAN

(APRIL – 2011 TO MARCH – 2012)

It is proposed to organize 82 batches of training programmes for farmers, farmwomen, rural youth and extension functionaries during period from April 2010 to September 2010.

1. Training Programmes :

III. On Campus training (For practicing farmers, farm women and rural youth):

Subject	Title of Training	Dura Days	No.of Parti.	Type of Parti.
I. Quarter : (1st April to 30th June, 2011)				
Crop Production	– Weed management in Kharif crops	1	25	Farmers
Soil science	– Soil fertility management in major kharif crops	1	25	Farmers
Plant Protection	– Integrated pest/disease in major kharif crops – Bio control of pest/disease management in vegetable crops	1 1	25 25	Farmers Farmers
Fisheries	– Integrated fish farming	1	25	Fishermen
Extension	– Formation and management of SHGs	1	25	Farmers
Horticulture	– Protective cultivation (Green house, net house)	1	25	Farmers
Home Science	– Value addition	1	25	Rural Girls
Agril. Engg.	– Processing of cereals crops	1	25	Farmers
II. Quarter : (1st July to 30th September, 2011)				
Crop production	– Package of practices of castor crops – Weed management in standing crops	1 1	25 25	Farmers Farmers
Soil science	– Nutrient management in Kharif crops	1	25	Farmers
Plant protection	– Integrated pest management kharif major crops (G'nut, cotton, castor, sesamum) – Bio control of pest and disease	1 1	25 25	Farmers Farmers
Fishries	– Ornamental fish	1	25	Farmers
Extension	– Capacity building of SHGs	1	25	Rural youth

Home science	– Women and child care	1	25	Farm Women
Horticulture	– Post harvest of horticultural crops	1	25	Farmers
Ag. Engi.	– Processing of pulses	1	25	Farmers
III. Quarter (1st Oct to 31st Dec, 2011)				
Crop Prod.	– Crop production technology in rabi crops	1	25	Farmers
Soil science	– INM in major rabi crops (Wheat, Gram, Cumin, coriander etc.	1	25	Farmers
Plant Protection	– Interated pest management in castor	1	25	Farmers
Fisheries	– Ornamental fish culture	1	25	Fish farmers
Ext.Education	– Entrepreneurial development of farm youth	1	25	Farm youth
Horticulture	– Prouction and management of potato	1	25	Farmers
Home Science	– Women and child care	1	25	Rural women
Agril. Engg.	– Processing of fruits and vegetables	1	25	Farmers
IV. Quarter (1st Jan to 31st March, 2012)				
Crop production	– Water management in rabi crops	1	25	Farmers
Soil science	– Nutrient management in standing crops	1	25	Farmers
Plant protection	– Bio control of pest and diseases	1	25	Farmers
Fishries	– Integrated fish farming	1	25	Fish Farmers
Extension	– Capacity building SHGs	1	25	Rural youth
Home science	– Health and hygine through nutritive food	1	25	Rural women
Horticulture	– Management practices in Ber and Guava	1	25	Farmers
Ag. Engi.	– Processing of spices and medicinal crops	1	25	Farmers

B. Off Campus training (For practicing farmers, farm women and rural youth)

Subject	Title of Training	Dura Days	No.of parti.	Type of Parti.
I. Quarter : (1st April to 30th June, 2011)				
Crop Production	– Tillage and its importance – Importance of organic farming	1 1	25 25	Farmers Farmers
Soil Science	– Role of micro nutrient			
Pl. Protection	– Integrated pest and disease management in major crops	1	25	Farmers
Horticulture	– Production technology vegetable crops	1	25	Farmers

Animal Science	– Care and management of Gir cow	1	25	Farmers
Fisheries	– Prawn farming	1	25	Fish farmer
Home Science	– Use of solar cooker	1	25	Farm women
Agril. Engg.	– Post harvest technology and its importance	1	25	Farmers
II. Quarter : (1st July to 30th September, 2011)				
Crop Production	– Water management in kharif crops	1	25	Farmers
	– Production technology of cotton	1	25	Farmers
Soil Science	– Soil fertility management in major crops			
Pl. Protection	– Management of pest in Kharif crops	1	25	Farmers
	– Management of diseases in Kharif crops	1	25	Farmers
Extension	– Group dynamics	1	25	Farmers
	– Capacity building of SHGs	1	25	Farmers
Animal Science	– Care and management of Gir cow	1	25	Farmers
Horticulture	– Different propagation methods for fruit crops suitable for arid and semi arid region	1	25	Farmers
Home Science	– Formation of SHGs	1	25	Farm Women
	– Preparation of jam, jelly and sarbat	1	25	Farm Women
Fishries	– Composite fish culture	1	25	Fish farmer
Agril. Engg.	– Rain water harvesting and their efficient use for crop production	1	25	Farmers
III. Quarter (1st Oct to 31st Dec, 2011)				
Crop Production	– Production technology of rabi crops i.e. wheat, cumin, gram etc	1 1	25 25	Farmers Farmers
Soil Science	– Soil fertility management in rabi crops	1	25	Farmers
Pl. Protection	– Diesease and pest management in cumin and gram	1	25	Farmers
	– Management of pest in rabi crops	1	25	Farmers
Horticulture	– Production technology in vegetables crops	1	25	Farmers
Animal Science	– Care and management in Gir cows	1	25	Farm women
Extension Education	– Capacity building of SHGs.	1	25	Rural youth
Fisheries	– Prawn Farming	1	25	Fish Farmers
	– Sea weed fertilizer	1	25	Fish Farmers
Home Science	– Gender mainstreaming through SHGs	1	25	Farmers
Agril. Engg.	– Value addition through processing of crops	1	25	Farmers

IV. Quarter (1st Jan to 31st March, 2012)				
Crop Production	– Garading and storage of produce	1	25	Farmers
	– Harvesting of major crops	1	25	Farmers
Soil Science	– Recycling of farm waste	1	25	Farmers
Pl. Protection	– Integrated pest management in gram	1	25	Farmers
	– Integrated disease management in cumin	1	25	Farmers
Extension	– Capacity building of SHGs	1	25	Rural youth
Animal Science	– Dairy farming	1	25	Farmers
Horticulture	– Management of young plant in orchard	1	25	Farmers
Home Science	– Rural craft for income generating activities	1	25	Rural women
Fishries	– Shrimp culture	1	25	Fish farmers
	– Integarated fish farming	1	25	Fish farmers
Agril. Engg.	– Efficient use of farm implements	1	25	Farmers

C. Vocational Training:

Sr. No.	Title of Training	Dura.Days	No. of parti	Type of Parti.
1.	- Preservation of vegetables and fruits	1	25	Rural Girls
2.	- Preservation of mango pulp	1	25	Farm women
3	– Production of varmi compost	1	25	Farmers
4.	– Preparation of compost pit	1	25	Rural Youth
5.	– Recycling of farm waste in to compost	1	25	Farmers

D. Extension Functionaries:

Sr. No.	Title of Training	Dura. Days	No. of parti.	Type of Parti.
1.	– Pre-seasonal training on kharif crops	1	20	Extension workers
2.	– Integrated Disease management in Kharif crops	1	20	Extension Workers
3.	– Production technology in rabi crops	1	20	Extension workers

E.Training Programme : Quarter wise Summary :

Sr. No.	Subject	On-Campus					Off-Campus					GT
		I Quater	II Quater	III Quater	IV Quater	Total	I Quater	II Quater	III Quater	IV Quater	Total	
1	Crop production/Soil Science	2	3	2	2	9	3	3	3	3	12	**21**
2	Plant Protection	2	2	1	1	6	1	2	2	2	7	**13**
3	Fishery	1	1	1	1	4	1	1	2	2	6	**10**
4	Extension Edu.	1	1	1	1	4	0	2	1	1	4	**8**
5	Horticulture	1	1	1	1	4	1	1	1	1	4	**8**

6	Home Science	1	1	1	1	4	1	2	1	1	5	**9**
7	Agri engineering	0	1	0	1	2	1	1	0	0	2	**4**
	Total	**8**	**10**	**7**	**8**	**33**	**8**	**12**	**10**	**10**	**40**	**73**

F. Summary of Training programme :

Sr. No.	Subject	On Campus	Off campus	Grant Total
		Total	**Total**	
1	Crop production/Soil Science	9	12	21
2	Plant Protection	6	7	13
3	Fishery	4	6	10
4	Extension Education	4	4	8
5	Horticulture	4	4	8
6	Home Science	4	5	9
7	Agri engineering	2	2	4
	Total	**33**	**40**	**73**
1	Vocational Training	5		3
2	Extension Functionries	1	2	3
3	Sponsored Training	0	10	3
	Total	**39**	**52**	**82**

2. Front Line Demonstrations (Proposed)

Sr. No.	Crop	Variety	Title	No. of Demons.	Area (ha)
FLD - Pulses					
1	Green gram	G-4	To test yield potentiality of green gram	10	4.0
2	Chick pea	GG-3	To test yield potentiality of gram	15	6.0
Other Crops					
1	Wheat	GW-366	To test yield potentiality	20	10
2	Cumin	Guj.Cumin-4	To test yield potentiality	10	4
3	Pearl millet	GHB-744	To test yield potentiality of pearl millet	20	8
4	Cotton	INM & IPM	-	25	10
Component Demonstration					
1.	Groundnut	Triechoderma	-Reduce infestation of stem rot	5	2
2.	Groundnut	NPV	– Reduce pest attack	5	2
3.	Vermi composting	-	–	5	5
4.	Farm implement	-	–	5	5
5.	Rotavator	-	–	10	10
6.	Aeroblast sprayer	-	–	15	15

Total	**145**	**81.00**

3. ON FARM TESTING (OFTs)

OFT- 1

Title : Time of thining in pearl millet
Objective: To increase yield potentiality
Treatments :

1. Control (No thining)
2. 15 to 20 DAS
3. 25 to 30 DAS

OFT-2

Title : Application methods of Trichoderma against stem rot disease in groundnut
Objective : Application method of biological control agent Trichoderma for managing the disease problem in groundnut.
Treatments :

1. Mix Trichoderma @ 2.5 kg /ha with 50 kg fine sand or organic manure and soil application in side the groundnut row at 30 days after sowing in moist condition (General Recommendation- Farmers Methods)
2. Mixing Trichoderma @ 2.5 kg/ha with castor cake @ 500 kg/ha at the time of sowing with the help of multi purpose seed drill . (Recommended Practice by JAU).
3. Trichoderma @ 2.5 kg/ha along with compost or castor cake 50 kg/ha at the time of after Sowing

OFT-3

Title : Management of sucking pests in cotton.
Objective: To minimize the sucking pest in cotton.

Treatments :

1. New insecticide use (Farmers practice)
2. Use of new, old and bio control agent (Recommended practice)
3. Alternate treatment one and two

OFT- 4

Title : Management of Anemia in adolescent girls.
Objective: Improving the hemoglobin percentage in rural adolescent girls
Treatments :

1. Control: Existing dietary pattern
2. Iron rich nutritional diet (sprouted Bengal gram 50 gm/day per individual in 2 equal doses0 with existing dietary pattern
3. Iron rich nutritional diet (sprouted Bengal gram 50 gm/day per individual in 2 equal doses0 + 25 gram of jiggery) with existing dietary pattern

No. of replications : 10 girls

4. Extension Activities:

Sr. No.	Activities	Proposed No.
1	Kisan Mela	1
2	Field Day	15
3	Kisan Ghosthi	8
4	Radio Talk	As and when require
5	TV Show	As and when require
6	Film Show	5
8	Khedut shibir	15
9	Kisan mahila meeting	2
10	New paper Coverage	As and when require
11	Popular Articles	2
12	Extension Literature	12
13	Advisory Service	As and when require
14	Ex-Trainee Sammelan	2
15	Others- Seminar	7
17	Exhibition	2