ANNUAL PROGRESS REPORT-2012-13

(APRIL - 2012 TO MARCH-2013)

&

ACTION PLAN

(APRIL - 2013 TO MARCH-2014)

OF

KRISHI VIGYAN KENDRA JAMNAGAR

TO BE PRESENTED AT
ANNUAL ZONAL WORKSHOP OF ZONE-VI
(Rajasthan & Gujarat)
HELD AT JAIPUR (Rajasthan)
DURING 2TH TO 4TH MAY, 2013

KRISHI VIGYAN KENDRA
JUNAGADH AGRICULTURAL UNIVERSITY
JAMNAGAR-361 006
GUJARAT

CONTENT

ANNUAL PROGRESS REPORT-2012-13

(1st APRIL - 2012 TO 31st MARCH-2013)

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@gmail.com 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. K. L. Raghvani	I/c. Programme Coordinator Krishi Vigyan Kendra Junagadh Agricultural University, Airforce Road, Opp. Digjam Mill Jamnagar- 361 006 Ph. (0288) 250180	9427497561	kvkjamnagar@gmail.com 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 31st March, 2013)

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. K.L. Raghvani	PC	Plant Protection	Ph.D	37400-67000	55700	01.02.13	Temp	OBC
2	Subject Matter Specialist	Vaccant		Crop Production		15600-39100	-	-	-	-
3	Subject Matter Specialist	Dr. K.P. Baraiya	SMS	Plant Protection	Ph.D	15600-39100	19050	17-8-06	Temp	Other
4	Subject Matter Specialist	Vaccant	SMS	Horti.	-	15600-39100	-	-	-	-
5	Subject Matter Specialist	Shri P. S. Gorfad	SMS	Extension Education	Ph.D.	15600-39100	19050	24-3-95	Temp.	OBC
6	Subject Matter Specialist	Dr. J. N. Thaker	SMS	Fisheries	Ph.D.	15600-39100	8000 (Fifth	31-08-06	Temp.	Other

							Pay)			
7	Subject Matter Specialist	Smt. A. K. Baraiya	SMS	Home Science	M.Sc.	15600-39100	8000 (Fifth Pay)	17-08-06	Temp.	Other
8	Farm Manager	Vaccant	Prog. Asstt.	-	-	9300-34800	-	-	-	-
9	Computer Programmer	Vaccant	Prog. Asstt.	Computer Operator	-	9300-34800	-	-	-	-
10	Programme Assistant	Shri A.J. Patel	Prog. Asstt.	Crop Production	M.Sc.	9300-34800	10000	22-2-2012	Fix Pay	ST
11	Accountant / Superintendent	Shri. K.G. Dhaduk	Sr. Clerk	Adm.	M.com	9300-34800	10000	12-6-08	Fix Pay	Other
12	Stenographer	Vaccant	Sr. Clerk	Adm.	-	5200-20200	-	-	-	-
13	Driver	Vacant	Driver	Supt.	-	5200-20200	-	-	-	-
14	Driver	Shri. D.M. Chauhan	Driver	Supt. (Fix)	9 STD	5200-20200	5300	9-10-07	Temp.	S. T.
15	Supporting staff	Shri H.G. Langa	Peon	Supt.	7 STD	4440-7440	7470	1-10-04	Temp.	OBC
16	Supporting staff	Shri P. S. Damor	Peon	Supt.	12 STD.	4440-7440	4440	1-9-06	Temp.	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	1.56
2	Under Demonstration units	0.70
3	Under crops	12.00
4	Orchard	3.50
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	KVK	15-8-11	550	5500000			
2.	Farmers Hostel	KVK	15-8-11	305	3000000			
3.	Staff Quarters (6)	KVK	15-8-11	400	4000000			
4.	Demonstration Units	KVK + ATMA	31-3-07	-	-	-	-	-
5	Poly House	RKVY	31-3-09	320	281602	-	-	-
	Net House	RKVY	31-3-09	150	64498	-	-	-
	Training Hall	RKVY	20-2-10	190.99	1395800	-	-	-
	Process Plant	RKVY	20-2-10	197.31	1536400	-	-	
	Implement shed	RKVY	11-2-10	77.33	297800	-	-	-
6	Rain Water harvesting system	KVK	31-3-2007	26m×26m (2 Ponds) 60m×60m (1 Pond)	999000	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Toyota 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	Partially Working

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	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
Air assisted blower type sprayer	2009	98750	Working
Laptop computer (HCL)	2009	47500	Working
Digital camera (Nikon)P-90 12.1	2009	24300	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.	29-4-2010	35		
7.	07.04.2011	37		
8.	10.04.2012	32	As below	As below
9.	02.04.2013	37		

The Eighth Scientific Advisory Committee meeting of Krishi Vigyan Kendra, JAU, Jamnagar was held at Training Hall, Krishi Vigyan Kendra, JAU, Jamnagar on 10th April, 2012

Committee made the following recommendations after active interaction.

Sl. No.	Salient Recommendations	Action Taken
1.	Dr. A.M. Parakhia, Director of Extension Education, JAU, Junagadh suggested that conclude the OFTs which completed three year and advice to underline each photographs with appropriate title. He also suggested to give specific title of training and emphasized to improve quality of trainings.	Suggestation accepted and implemented ➢ OFT Which have completed three years were concluded ➢ Specific title of training was given and quality of training was improved by teaching aids and sample.
2.	Shri R.H. Ladani, Dy. Director of Horticulture, suggested to increase horticulture training with line department (i.e. 4 to 8).	Suggestation accepted and followed
3.	Dr. A.M. Parakhia, Director of Extension Education, JAU, Junagadh stated that arrange training for farm women on animal nutrition and also suggested to conduct FLDs on component instead of varietal demonstration. He also suggested to increase training on fisheries and give specific training according to thrust area of the district and stated to give training on MIS and protected cultivation in net house / poly house.	Suggestation accepted and implemented ➢ During training more emphases given on animal nutrition for farm women. ➢ FLDs on components taken in stead of varietal ➢ According to thrust area specific training given on fisheries ➢ More training conducted on MIS in drought year and more weightage was given on protected cultivation in net/poly house.
4.	Dr. G.S. Sutaria, Research Scientist, DFRS, Targhadia, suggested to give training on seed treatment in 1st quarter and training on recycling of farm waste in 4th quarter	Suggestation accepted and followed,

❖ 9th SAC proceedings along with list of participants in Annexure – I.

2. DETAILS OF DISTRICT (2012-13)

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, PearlmilletGroundnut, 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-12)

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 (January-12 to March-13)

	Temp. C°		R.H.%		WS	BSS	Eo	Rain	Rainy
Week No	Max	Min	I	II	(kmph)	(hrs)	(mm)	(mm)	Days
1-J	24.9	11.0	79	39	1.7	8.3	4.1		
2	24.1	10.0	73	29	2.1	9.4	4.0		
3	26.0	11.3	82	40	2.3	9.6	4.1		
4	25.3	12.7	78	31	1.4	8.4	3.8		

5	26.4	10.9	75	32	2.8	9.8	4.1		
6-F	24.1	9.8	63	26	4.5	9.9	4.3		
7	26.5	13.3	70	35	3.3	9.4	4.5		
8	29.1	13.7	76	37	4.0	9.6	5.0		
9	29.5	14.7	87	35	5.2	9.5	4.9		
10-M	29.1	14.9	83	27	6.7	9.5	5.1		
11	31.1	14.9	89	24	6.2	9.8	5.3		
12	32.9	16.2	76	23	6.2	8.6	5.6		
13	36.3	20.0	87	31	7.7	9.7	6.2		
14-A	35.9	21.1	91	43	9.4	9.7	7.0		
15	34.6	22.8	89	47	9.8	9.7	7.0		
16	34.5	24.0	84	44	8.6	9.7	6.9		
17	33.8	23.9	86	45	10.7	10.5	7.1		
18	36.2	24.5	87	48	11.6	10.4	8.3		
19-M	34.8	25.3	83	59	11.5	10.9	8.4		
20	34.4	25.4	80	58	12.7	11.0	8.3		
21	34.5	26.5	81	57	14.5	10.4	8.6		
22	35.5	27.2	80	52	16.1	9.8	9.0		
23-J	36.4	27.8	82	60	14.4	7.5	9.0		
24	35.8	27.0	83	60	8.7	7.8	8.1	4.5	
25	35.8	28.1	78	55	19.0	8.2	8.8		
26	35.6	27.6	83	64	16.3	8.3	8.4		
27-J	34.5	27.1	87	66	13.0	3.7	6.5	12.1	1
28	33.4	26.7	83	65	11.5	2.2	5.8	3.0	
29	34.0	27.5	81	62	15.9	3.6	5.7	1.0	
30	33.4	27.6	77	58	18.0	1.7	5.9		
31	32.1	27.3	84	69	19.1	0.6	5.7		
32-A	32.8	26.4	88	75	16.0	4.0	5.8		
33	32.3	26.5	88	75	16.0	3.1	5.9		
34	31.4	25.2	89	77	8.8	1.1	5.0	13.0	1
35	32.7	25.8	94	67	8.6	4.2	4.5	64.9	2
36-S	31.5	25.3	96	81	6.2	2.5	3.9	186.0	5
37	30.2	25.1	93	77	11.0	2.0	4.0	63.5	4
38	32.0	24.4	89	61	8.1	7.4	4.5		
39	32.3	24.1	89	55	8.9	9.8	4.8		
40-O	34.6	23.7	88	41	6.2	8.9	4.9		
41	35.1	22.1	85	35	4.4	9.8	5.0		
42	33.8	21.7	91	35	3.3	9.5	4.9		
43	35.2	19.8	70	25	3.6	9.7	5.2		
44	33.4	16.5	54	26	4.8	9.2	5.0		
45-N	32.0	16.9	80	31	3.3	8.8	4.7		
46	31.9	17.4	78	32	3.3	9.4	4.6		
47	30.7	16.0	78	27	3.7	9.2	4.5		
48	29.2	13.6	75	27	4.0	9.6	4.5		
49-D	29.6	17.0	74	35	4.9	8.5	4.6		
50	28.8	17.2	89	45	5.1	8.2	4.4		
51	27.2	16.0	64	29	7.0	8.4	4.7		
52	26.9	12.5	63	32	6.0	9.1	4.7		
1-J	24.2	7.4	78	28	3.8	9.3	4.1		
2	27.6	11.8	75	32	4.5	9.2	4.6		
3	24.9	11.8	76	41	5.3	7.5	4.1	2.0	
4	26.6	10.8	55	23	6.4	9.9	4.8		
5	30.0	15.1	82	41	4.7	8.6	4.4		
6-F	26.0	12.8	62	28	7.5	8.7	5.0		
7	30.7	15.5	74	32	5.7	8.9	8.9		
8	29.6	16.3	78	32	6.4	9.9	5.3		
9	30.7	14.7	65	22	8.1	10.4	7.2		

10-M	35.6	17.0	65	22	6.9	10.0	8.1		
11	33.1	19.6	76	28	8.0	9.6	7.2		
12	34.0	19.8	88	31	9.1	9.7	8.2		
13	33.2	21.2	85	43	9.7	9.4	8.7		

* 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			
Poultry	38041	12.77 lakh eggs	
Hens			
Desi			
Improved			
Horse &	410		
Camels	2260		
Donkey	2577		
Total Milk			
Total egg			
Total wool			

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

Source: Assistant Directorate of Fishries, Jamnagar

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

Sl. No	Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Jodiya	Keshiya, Lakhtar, Anand, Limbuda, Manpar, Hirapar	Cotton, groundnut, sesamum, castor, greengram, wheat, Gram,	Heavy infestation of sucking pest in cotton, stem rot disease in Groundnut, Root rot in castor,	- ICM in major crops of the district - Introudction of new crop - Recycling of farm waste - Populirization of MIS
2	Dhrol	Nathuvadala, Soyal, Vankiya, Manekpar, Nana garadiya, mavapar			

3	Jamjodhpur	Kalyanpar, Udaipur, Kadbal, Vasantpar, Dhanuda, Gorkhadi	cumin, mustard, Vegetable, Soyabean, flowers, live stock	Less area under horticulture crops, Blight in cumin, salinity	- Motivation of fishries cultivation - Soil Reclamation - Farm women empowerment - Farm mechanization

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

3. TECHNICAL ACHIEVEMENTS

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

OFT				
	Number of OFTs		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
Cotton	**1**	**1**	**3**	**3**
Bajara (Summer-'13)	**1**	**1**	**3**	**3**
Home Science	**1**	**1**	**15**	**15**

FLD	**Area of FLD (ha)**		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
***Kharif* -2012-13**				
Green gram	4	4	10	10
Cotton	5	5	12	12
Sorghum	5	5	10	10
Groundnut (Trichoderma)	2	2	5	5
Groundnut (NPV)	2	2	5	5
Total	**18**	**18**	**42**	**42**
Rabi-2012-13				
Wheat	10	10	20	20
Cumin	5	5	12	12
Chickpea	6	6	15	15
Total	**21**	**21**	**47**	**47**
Grand Total	**39**	**39**	**89**	**89**

FLD conducting other than KVK Scheme during					
		Area of FLDs (Ha)		**Number of Farmers**	
Scheme	**Crops**	**Targets**	**Achievement**	**Targets**	**Achievement**
Rabi – 2012-13					
Seed Village Scheme	Wheat	58.80	58.80	294	294
	Cumin	50.00	50.00	200	200
	Total	**108.80**	**108.80**	**494**	**494**
FFS	Cotton	72.00	72.00	180	180
	Cumin	84.00	84.00	210	210
	Total	**156.00**	**156.00**	**390**	**390**
ATIC					
	Cotton	**-**	**-**	**5**	**5**
	Vegetable, Brinjal	**-**	**-**	**5**	**5**
	Ridge guard	**-**	**-**	**5**	**5**

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	72	71		3424	-	-	-	-
Rural youth	2	6		319				
Extn.Functionaries	4	5		161				
Total	**78**	**82**		**3904**	**-**	**-**	**-**	**-**

Seed Production (Kg.)		**Planting material (Nos.)**	
5		**6**	
Target	**Achievement**	**Target**	**Achievement**
	60 Sesame	-	-
	3000 Wheat		

3.B. 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	Increase the productivity of cotton	Cash crop	Sucking pest infestation	Management of sucking pest in cotton	-	Mgt. of sucking pest	-	Field day	Pesticides
2	Increase the productivity of groundnut	Oil seeds	Stem rot disease in groundnut	Biological control of *Sclerotium rolfsii* (stem rot) in groundnut	-	IDM in groundnut	-	Field day	Trichoderma

3	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-5	Integrated management of stem rot	IDM in groundnut	Field day, Radio talk, Training on IDM,	GG-5
4	Seed setering and yield	Sesamum	Seed setering and low yield	-	Synchronized maturity and high yielding variety with good quality	ICM system, IPM, IDM	-	Field day, radio talk training on ICM/ IPM/ IDM,	G.Til-2
5	Pest-Disesae & yield	Castor	Wilt,	-	IDM in castor	ICM, IPM, IDM	-	Field day, radio talk	GCH-7
6	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-577
7	Pest & disease problem	Chick pea	Wilt & pod borer problem,	-	IPM in chickpea	IPM in chickpea	-	Field day	Guj-2
8	Yield	Wheat	Low yield of wheat	-	Low yield of wheat	ICM, IDM	-	Field day, Radio talk	GW-496
9	Yield	Mustard	Low yield due to pest	-	Resistant & high yielding variety	IPM, ICM	ICM, INM, IDM,	Field day, radio talk	GM-3
10	INM	Cotton	Unjudicious use of fertilizers	Low yield in cotton	INM in cotton	INM, IPM	INM, IPM	Field day, training	Bt. Cotton
11	Pest & Disease	Cotton	Mealybug	-	IPM	IPM	IPM	Radio talk, Literature	Components

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	1	2							4
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		2	1	2	2					7
Integrated Disease Management		3	1	1						5
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	2	7	4	6	2					21

* *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							4
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		2	1	2	2					7
Integrated Disease Management		3	1	1						5
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	2	7	4	6	2					21

* *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 :- Cotton

1) Title: - Management of sucking pest in cotton

2) Problem diagnose/ definition:

--Improper irrigation

-No adoption of recommended practices

3) Details of technologies selected for assessment/ refinement

Category	Source of technology	Technology detail		
Technology option 1	Farmer	T_1	Farmer practices	New insectice use (Farmer practices)
Technology option 2	Milet Res. Station	T_2	Reco. practices	Use of new, old and bio control agent
Technology option 3		T_3	Refined practices	Alternate treatment one and two

4) Source of technology: Junagadh Agricultural University

5) Production system: Integrated Pest Management

6) Thematic area : Integrated Pest Management

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

Sr. No.	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed / refined (yield Q/h)		
			T_1	T_2	T_3
1	Ganesh Monabhai	Nathuvadla	20.50	21.75	21.50
2	Champaben Babubhai Pedadiya	Bhadra	18.75	23.00	20.25
3	Gordhanbhai Valjibhai Gadhiya	Manekpar	19.00	22.00	21.00
		Average	**19.41**	**22.08**	**20.92**

8) Final recommendation for micro level situation: Use of new, old and bio control agent give higher yield

9) Constraints identified and feedback for research:

--No knowledge aobut the use of particular pestices for the control of sucking pest resulted the development of resistance in the pest
-Use of higher dose of insecticide
-Improper irrigation
-Not adopting recommended schedule for spraying insecticdes
-Farmer spray insecticide as per instructions given by pesticides retailer
-Lack of knowledge about fertilizer and pesticides

10) Process of farmers participation and their reaction: Satisfactory

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 (Yield Q/ha)
1	2	3	4	5	6	7	8
Cotton	Rainfed farming	Incidenc e sucking pest in cotton	Management of sucking pest in cotton	3	Managem ent of sucking pest in cotton	New insectice use (Farmer practices)	19.41
						Use of new, old and bio control agent	22.08
						Alternate treatment one and two	20.92

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Cotton	According to parameter 7 farmers get higher yield in use of new, old and biocontrol agent	-	Use of new, old and bio control agent	-

Crop/ enterprise	**Technology Assessed / Refined**	**Production kg/ha**	**Input cost**	**Gross return Rs./ha**	**Net Return (Profit) in**	**BC Ratio**

			Rs./ha		Rs. / ha	
1	**13**	**14**	**15**	**16**	**117**	**18**
Cotton	New insectice use (Farmer practices)	1941	26520	81522	55002	2.07
	Use of new, old and bio control agent	2208	25200	92736	67536	2.68
	Alternate treatment one and two	2092	26452	87864	61412	2.32

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

Far-mer 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	Bhanabhai Nathabhai	Theba	23.72	29.12	28.30
2	Kantibhai Nathabhai	Theba	24.00	29.00	28.00
3	Mansukhbhai Nathabhai	Theba	22.30	30.75	27.30
		Average	**23.34**	**29.62**	**27.86**

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
Pearlmi llet	Irrigated	Low yield	Assessment of time of thining in pearl millet	3	Thining	T_1-No thining	23.34
						T_2-Thining 15 to 20 DAS	29.62
						T_3-Thining 25 to 30 DAS	27.86

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Pearl millet	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**
Pearl millet	T_1-No thining	2334	11000	25674	13874	2.33
	T_2-Thining 15 to 20 DAS	2962	12000	32582	20582	2.72
	T_3-Thining 25 to 30 DAS	2786	12300	30646	18346	2.49

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

1) Title :- Management of Anemia in adolescent girls

Village: Nathuvadala, Ta.- Dhrol, Dist.- Jamnagar

Period : *Sept, 2012 to Feb, 2013*

Sample Size : 15 girls

2) Problem definition :

1. Deficiency of iron/ Hemoglobin (Problem of anemia) in adolescent girls
2. Imbalance dietary pattern

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 :

Select 15 adolescent girls' age between 18 to 23 years after testing level of 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	Age (years)	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	Patel Ashmita Samjibhai	NathuVadla	21	45	45	0	12.5	12.5	0
2	Kagthara Dhara Lavjibhai	NathuVadla	20	47	47	0	12.2	13	0.8
3	Bhimani Varsha Manjibhai	NathuVadla	19	45	44.6	-0.4	13	13	0
4	Boda Jaynika Karshanbhai	NathuVadla	18	42	43	1	12.5	12.5	0
5	Vansjaliya Bhumi Chhaganbhai	NathuVadla	20	45	45	0	13.2	13.4	0.2
6	Boda Roshani Jasmatbhai	NathuVadla	19	48	48.5	0.5	13.5	13.5	0
7	Patel Pragti M.	NathuVadla	21	50	50	0	12.7	12.7	0
	T_2	**Average**		**46.00**	**46.16**	**0.16**	**12.8**	**12.94**	**0.14**
8	Bhalodiya Harsida K.	NathuVadla	21	38	39	1	12	12.5	0.5
9	Bhimani Hetal Manjibhai	NathuVadla	20	43	43	0	11.8	12.5	0.7
10	Bhalodiya Rimpal Samjibhai	NathuVadla	19	41	41.5	0.5	10.5	11.3	0.8
11	Bhalodiya Sarla Rugnathbhai	NathuVadla	21	45	45	0	11.2	12.2	1
	T_3	**Average**		**41.75**	**42.13**	**0.38**	**11.37**	**12.13**	**0.75**
12	Bhalodiya Nutan Virjibhai	NathuVadla	21	45	46	1	9.8	11.0	1.2
13	Kagthara yogita Chhaganbhai	NathuVadla	20	48	48.5	0.5	10	10.8	0.8
14	Kagthara Jignasa Lalgibhai	NathuVadla	20	43	43.5	1.5	10	11.3	1.3
15	Bhalodiya Hansaben M.	NathuVadla	21	47	47	0	9	10.5	1.5
		Average		**45.75**	**46.25**	**0.50**	**9.70**	**10.90**	**1.20**

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 seasonal fruits and Vegetable 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.

A. 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		Difference in Hemoglobi n g/100 ml
1	2	3	4	5	6	7		8
Adoles cent girls	Adole scent girls	Anem ia in adole scent girls	Manag ement of anemia in adolesc ent girls	15	Managem ent of anemia in adolescent girls	T_1	Existing dietary pattern (Control)	0 to 0.8 (0.14)
						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 1.0 (0.75)
						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	0.8 to 1.5 (1.20)

**** 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**		***Produc tion 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	T_1	Existing dietary pattern (Control)	-	-	-	-	-

girls	T_2	Iron rich nutritional diet (Sprouted Bengal gram 50 gm/day per individual in 2 equal doses) with existing dietary pattern	-	1080 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	-	1380 Rs/girl	-	-	-

**Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.*

*** Give details of the technology assessed or refined and farmer's practice*

3.2 ACHIEVEMENTS OF FRONTLINE DEMONSTRATIONS

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

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

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
	Oilseeds						
1	Groundnut	IPM	Trichoderma	Field days, Radio talk, Training and TV Progarme and demonstration	2	5	2
2	G'nut (NPV)	INM	NPV	"	5	5	2
	Pulse						
3	Chick pea	Variety	GM-4	"	5	15	6
4	Green Gram	Variety	GM-3	"	5	10	4
	Other						
5	Cotton	IPM and INM	IPM & INM	"	3	12	5
6	Wheat	Variety	GW-366	"	3	20	10
7	Sorghum	Variety	GJ-38	"	5	10	5
8	Cumin	Variety	GC-4	"	5	12	5

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

b. Details of FLDs implemented during 2011-12(Information is to be furnished in the following three tables for each category i.e. 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	IPM	Trichoderma	*Kharif* 12-13	2	2	1	4	5	-
2	G'nut (NPV)	INM	NPV	*Kharif* 12-13	2	2	3	2	5	-
	Pulse									
3	Chick pea	Variety	GM-4	*Rabi* 12-13	6	6	6	9	15	
4	Green Gram	Variety	GM-3	*Kharif* 12-13	4	4	3	7	10	
	Other									
5	Cotton	IPM and	IPM & INM	*Kharif* 12-13	5	5	4	8	12	

		INM								
6	Wheat	Variety	GW-366	*Rabi* 12-13	10	10	4	16	20	
7	Sorghum	Variety	GJ-38	*Kharif* 12-13	5	5	3	7	10	
8	Cumin	Variety	GC-4	*Rabi* 12-13	5	5	4	8	12	

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	*Kharif* 12-13	Rainfed	MB	M	M	H	G'nut, Sesamum	15 Jun to 20 July	15 to 30 Oct	348	13
G'nut (NPV)	*Kharif* 12-13	Rainfed	MB	M	M	H	G'nut, Sesamum	15 Jun to 20 July	15 to 30 Oct	348	13
Pulse											
Chick pea	*Rabi* 12-13	Irrigated	MB	M	M	H	Cotton	25 Oct to 15 Nov	10 to 25 Feb		-
Green Gram	*Kharif* 12-13	Irrigated	MB	M	M	H	Cotton	8-15 Nov	10-30 Feb	348	13
Other											
Cotton	*Kharif* 12-13	Irrigated	MB	M	M	H	Cotton	15-30 June	10-30 Feb	348	13
Wheat	*Rabi* 12-13	Irrigated	MB	M	M	H	cotton	25 Oct to 15 Nov	15 Feb to 15 Mar		
Sorghum	*Kharif* 12-13	Irrigated	MB	M	M	H	Groundnut	15 Jun to 20 July	15 to 30 Oct	348	13
Cumin	*Rabi* 12-13	Irrigated	MB	M	M	H	Groundut	25 Oct to 15 Nov	10 to 25 Feb		

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	Groundnut	IPM	GG-20	5	2	16.81	10.93	14.21	12.44	12.46	14.21	12.44
2	G'nut (NPV)	INM	GG-20	5	2	19.56	10.79	16.68	13.86	16.91	16.68	13.86
	Pulse											
3	Chick pea	Variety	GG-3	15	6	26.25	10.00	18.29	16.84	7.93	18.29	16.84
4	Green Gram	Variety	GM-4	10	4	12.60	9.70	11.15	9.20	17.49	11.15	9.20
	Other											
5	Cotton	IPM and INM	Bt.	12	5	23.91	6.71	12.13	11.14	8.16	12.13	11.14
6	Wheat	Variety	GW-366	20	10	60.00	21.25	37.19	32.98	11.32	37.19	32.98

7	Sorghum	Variety	GJ-38	10	5	113.45	92.50	109.17	97.03	11.12	109.17	97.03
8	Cumin	Variety	GC-4	12	5	15.00	7.50	10.13	8.80	13.13	10.13	8.80

*Component demonstration

Economic Impact (continuation of previous table)

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							
Groundnut	25850	36350	71050	62200	45200	25850	1.75
G'nut (NPV)	26000	26550	83400	69300	57400	42750	2.21
Pulse							
Chick pea	30000	30000	68588	63150	38588	33150	1.29
Green Gram	25000	25000	66900	55200	41900	30200	1.68
Other							
Cotton	25000	27000	60650	55700	35650	28700	1.43
Wheat	22000	25000	74380	65960	52380	40960	2.38
Sorghum	11500	11800	54585	48515	43085	36715	3.75
Cumin	23000	23000	126625	110000	103625	87000	4.51

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

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 Yield (q/ha)	Percentage increase in productivity over local check
Groundnut	*Kharif* - 2012-13	Seed (Variety)	GG-20	Rainfed	14.21	12.44	12.46
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Trichoderma,				
		Combination of Components					
Groundnut	*Kharif* - 2012-13	Seed (Variety)	GG-20	Rainfed	16.68	13.86	16.91
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	NPV, Pheromone Trape				
		Combination of Components					
Chickpea	*Rabi* 2012-13	Seed (Variety)	GG-3	Irrigated	18.29	16.84	7.93
		Bio-fertilizer					
		Fertilizer Management	DAP, Urea				
		Plant Protection	Indoxacarb, Vitavax, Pheromone Trap				
		Combination of Components	Pendimethalin4				
Green Gram	*Kharif* 2012-13	Seed (Variety)	GM-4	Irrigated	11.15	9.20	17.49
		Bio-fertilizer					

		Fertilizer Management	Urea, SSP, , Zinc Sulphate				
		Plant Protection	Mancozeb, Profenophos				
		Combination of Components	Pendimethalin				
Cotton	*Kharif* - 2012-13	Seed (Variety)	Bt. Cotton	Irrigated	12.13	11.14	8.16
		Bio-fertilizer					
		Fertilizer Management	Mineral Mixture				
		Plant Protection	imidacloprid 0.006%, Neem Oil, Verticillium				
		Combination of Components					
Wheat	*Rabi* 2012-13	Seed (Variety)	GW – 366	Irrigated	37.19	32.98	11.32
		Bio-fertilizer					
Sorghum	*Kharif* 2012-13	Seed (Variety)	GJ-38	Irrigated	109.17	97.03	11.12
		Bio-fertilizer					
		Fertilizer Management					
Cumin	*Rabi* 2012-13	Seed (Variety)	Gu.Cum.-4	Irrigated	10.13	8.80	13.13
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Mancozeb, sulpher,				
		Combination of Components					

Technical Feedback on the demonstrated technologies

Sl. No.	Crop	Technology	Farmers' Feed Back
1	Groundnut	GG-20 Trichoderma	➢ Very effective against stem rot (*Sclerotium rolfsii*) in humid and low temperature (during rainy days) ➢ It is effective as good as chemical fungicide ➢ Easy to application ➢ No hazardious ➢ Low cost
2	Groundnut	GG-20 NPV	➢ Very effective against spodoptera during low radiation ➢ It is effective as good as chemical pesticides ➢ Easy to application ➢ No hazardious ➢ Low cost
3	Chick Pea	GG-3	➢ Good pod formation ➢ High yielding variety ➢ partially wilt resistant variety ➢ It perform as per water management
4	Green Gram	GM-4	➢ Synchronise maturity ➢ High yielding & Short duration variety ➢ Good colour having high market value
5	Cotton	Bt.Cotton IPM/INM	➢ Low cost chemical control for longer time ➢ It prove that prevention is better then cure for pest management ➢ High yielding varieties require additional feed & micronutrient then desi cotton
6	Sorghum	G J -38	➢ Short duration variety

			➢ Synchronise maturity and equal height ➢ High tillering capacity ➢ Good for dietary and animal feeding purpose
7	Wheat	GW-366	➢ Seed provided was healthy with good germination ➢ Require termite and stem borer resistant variety. ➢ Good variety for Backing, ➢ High tillers, high yield with synchronise maturity ➢ Dark green colour
8	Cumin	Guj. Cum.-4	➢ Diseases resistant variety ➢ High yielding variety ➢ Cheaper to control diseases ➢ Prove that prevention is better then cure in diseases management

Farmers' reactions on specific technologies

Sl. No.	Crop	Technology	Farmers' Reaction
1	Groundnut	GG-20 Trichoderma	➢ Very effective against stem rot (*Sclerotium rolfsii*) in humid and low temperature (during rainy days) ➢ It is effective as good as chemical fungicide ➢ Easy to application ➢ No hazardious ➢ Low cost
2	Groundnut	GG-20 NPV	➢ Very effective against spodoptera during low radiation ➢ It is effective as good as chemical pesticides ➢ Easy to application ➢ No hazardious ➢ Low cost
3	Chick Pea	GG-3	➢ Good pod formation ➢ High yielding variety ➢ partially wilt resistant variety ➢ It perform as per water management
4	Greem Gram	GM-4	➢ Synchronise maturity ➢ High yielding & Short duration variety ➢ Good colour having high market value
5	Cotton	Bt. Cotton IPN/INM	➢ Bollworm resistant ➢ High yielding variety ➢ Short duration variety
6	Sorghum	G J -38	➢ High yielding, Short duration variety ➢ Synchronise maturity and equal height, ➢ High tillering capacity ➢ Good for dietary and animal feeding purpose
7	Wheat	GW-366	➢ Good variety for Backing, ➢ High tillers, high yield with synchronise maturity ➢ Dark green colou
8	Cumin	Guj. Cum.-4	➢ Diseases resistant variety ➢ High yielding variety

Extension and Training activities under FLD

Sr. No.	Activity	No. of Activity organised	No. of Participants			Remarks
			Male	Female	Total	
	Groundnut					
1	Field days	2	42	20	62	
2	Training for farmers	1	21		21	
3	Radio Talk	1				
4	Training for Extension functionaries	1	32		32	

	Groundnut (NPV)					
1	Field days	3	63	18	81	
2	Training for farmers	1	28	4	32	
3	Radio Talk					
4	Training for Extension functionaries					
	Chick Pea					
1	Field days	1	21	5	26	
2	Training for farmers	1	24	3	27	
3	Radio Talk					
4	Training for Extension functionaries					
	Green Gram					
1	Field days	1	18	4	22	
2	Training for farmers	1	28	3	31	
3	Radio Talk					
4	Training for Extension functionaries					
	Cotton					
1	Field days	1	27	8	35	
2	Training for farmers	1	38	4	42	
3	Radio Talk	1				
4	Training for Extension functionaries	1	30		30	
	Wheat					
1	Field days	3	56	14	70	
2	Training for farmers	2	36		36	
3	Media coverage (Radio Talk)	1				
4	Training for Extension functionaries	1	27		27	
	Sorghum					
1	Field days	1	18	3	21	
2	Training for farmers	1	17	5	22	
3	Media coverage (Radio Talk)					
4	Training for Extension functionaries					
	Cumin					
1	Field days	2	36	8	44	
2	Training for farmers	1	20		20	
3	Media coverage (Radio Talk)	1				
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		
Tractor Mounted Sprayer	Groundnut	350	10					
Blower	Orchard	2	120					
Coton Shredder	Cotton	400	10					
Rotavator	Cotton	150	5	-	-	-	-	-
	Wheat	250	5	-	-	-	-	-

Laser Land Levelor		250	10					
Mini Tractor Implement	Groundnut	100	5					
Chalf Cutter	Fodder	150	5					
Solar Cooker	120	10		-	-	-	-	-

** 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 and other):

A) On Campus

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	34	3	37	4	0	4	38	3	41
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Water management	1	31	2	33	3	0	3	34	2	36
Seed production	1	21	3	24	6	0	6	27	3	30
Nursery management				0			0	0	0	0
Integrated Crop Management				0			0	0	0	0
Fodder production				0			0	0	0	0
Production of organic inputs	1	24	3	27	5	0	5	29	3	32
Total	4	110	11	121	18	0	18	128	11	139
II Horticulture				0			0			0
a) Vegetable Crops				0			0	0	0	0
Production of low volume and high				0			0	0	0	0

value crops										
Off-season vegetables				0			0	0	0	0
Nursery raising	1	25	3	28	0	0	0	25	3	28
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits				0			0	0	0	0
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
c) Ornamental Plants				0			0	0	0	0
Nursery Management	1	22	6	28	0	0	0	22	6	28
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
e) Tuber crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants				0			0	0	0	0
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Total	2	47	9	56	0	0	0	47	9	56
III Soil Health and Fertility Management				0			0			0
Soil fertility management	1	27	3	30	3	0	3	30	3	33
Soil and Water Conservation	1	36	2	38	3	0	3	39	2	41
Integrated Nutrient Management	1	34	2	36	4	0	4	38	2	40
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops	1	32	3	35	3	0	3	35	3	38
Nutrient Use Efficiency	1	42	2	44	4	0	4	46	2	48
Soil and Water Testing				0			0	0	0	0
Total	5	171	12	183	17	0	17	188	12	200
IV Livestock Production and				0			0			0

Management										
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management	1	6	8	14	12	14	26	18	22	40
Feed management				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Total	1	6	8	14	12	14	26	18	22	40
V Home Science/Women empowerment				0			0			0
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	1	0	26	26	0	6	6	0	32	32
Income generation activities for empowerment of rural Women				0			0	0	0	0
Location specific drudgery reduction technologies	1	0	21	21		8	8	0	29	29
Rural Crafts				0			0	0	0	0
Women and child care	1	0	22	22	0	5	5	0	27	27
Total	3	0	69	69	0	19	19	0	88	88
VI Agril. Engineering				0			0			0
Installation and maintenance of micro irrigation systems	1	12	0	12	8	0	8	20	0	20
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Total	1	12	0	12	8	0	8	20	0	20
VII Plant Protection				0			0			0
Integrated Pest Management	4	146	12	158	33		33	179	12	191
Integrated Disease Management	4	160	16	176	38		38	198	16	214
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
Total	8	306	28	334	71	0	71	377	28	405
VIII Fisheries				0			0			0
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0

Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site				0			0			0
Seed Production	2	63	9	72	10	2	12	73	11	84
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production	1	29	3	32	7	1	8	36	4	40
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Total	3	92	12	104	17	3	20	109	15	124
X Capacity Building and Group Dynamics				0			0			0
Leadership development	1	16		16	19	0	19	35	0	35
Group dynamics				0			0	0	0	0
Formation and Management of SHGs	1	12		12	15	0	15	27	0	27
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Total	2	28	0	28	34	0	34	62	0	62
XI Agro-forestry				0			0			0
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)				0			0			0
TOTAL	29	772	149	921	177	36	213	949	185	1134
(B) RURAL YOUTH				0			0			0
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Sericulture				0			0	0	0	0

Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Value addition	2	0	74	74	0	11	11	0	85	85
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Para vets				0			0	0	0	0
Para extension workers				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
TOTAL	2	0	74	74	0	11	11	0	85	85
(C) Extension Personnel				0			0			0
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management	2	52		52	7	0	7	59	0	59
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology	1	25		25	2	0	2	27	0	27
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0

Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Any other (Pl. Specify)				0			0	0	0	0
TOTAL	3	77	0	77	9	0	9	86	0	86
Grand Total	**34**	**849**	**223**	**1072**	**186**	**47**	**233**	**1035**	**270**	**1305**

B) Off Campus

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	2	67	21	88	12	7	19	79	28	107
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification	1	31	8	39	14	3	17	45	11	56
Integrated Farming				0			0	0	0	0
Water management	1	35	9	44	9	4	13	44	13	57
Seed production	1	29	10	39	12	2	14	41	12	53
Nursery management				0			0	0	0	0
Integrated Crop Management	1	35	7	42	9	2	11	44	9	53
Fodder production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Total	6	197	55	252	56	18	74	253	73	326
II Horticulture				0			0			0
a) Vegetable Crops				0			0	0	0	0
Production of low volume and high value crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising	2	260	33	293	12	0	12	272	33	305
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits				0			0	0	0	0
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
c) Ornamental Plants				0			0	0	0	0
Nursery Management	1	99	18	117	9	0	9	108	18	126
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation crops				0			0	0	0	0
Production and Management				0			0	0	0	0

technology										
Processing and value addition				0			0	0	0	0
e) Tuber crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants				0			0	0	0	0
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Total	3	359	51	410	21	0	21	380	51	431
III Soil Health and Fertility Management				0			0			0
Soil fertility management				0			0	0	0	0
Soil and Water Conservation	1	43	14	57	16	5	21	59	19	78
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops	1	38	5	43	9	1	10	47	6	53
Nutrient Use Efficiency	1	33	4	37	7	1	8	40	5	45
Soil and Water Testing				0			0	0	0	0
Total	3	114	23	137	32	7	39	146	30	176
IV Livestock Production and Management				0			0			0
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management				0			0			0
Feed management				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment				0			0			0
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	2	0	53	53	0	14	14	0	67	67
Income generation activities for empowerment of rural Women	1	0	30	30	0	11	11	0	41	41
Location specific drudgery reduction technologies	2	0	55	55		21	21	0	76	76

Rural Crafts				0			0	0	0	0
Women and child care	2	0	60	60	0	18	18	0	78	78
Total	7	0	198	198	0	64	64	0	262	262
VI Agril. Engineering				0			0			0
Installation and maintenance of micro irrigation systems	1	12	0	12	21		21	33	0	33
Use of Plastics in farming practices	1	15	0	15	15		15	30	0	30
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Total	2	27	0	27	36	0	36	63	0	63
VII Plant Protection				0			0			0
Integrated Pest Management	4	198	48	246	38	12	50	236	60	296
Integrated Disease Management	3	146	27	173	25	9	34	171	36	207
Bio-control of pests and diseases	1	48	12	60	11	3	14	59	15	74
Production of bio control agents and bio pesticides				0			0	0	0	0
Total	8	392	87	479	74	24	98	466	111	577
VIII Fisheries				0			0			0
Integrated fish farming	2			0	28		28	28	0	28
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0	32		32	32	0	32
Composite fish culture	2			0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0	19		19	19	0	19
Shrimp farming	1			0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Total	5	0	0	0	79	0	79	79	0	79
IX Production of Inputs at site				0			0			0
Seed Production	2	70	37	107	36	14	50	106	51	157
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production	2	62	42	104	29	18	47	91	60	151
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Total	4	132	79	211	65	32	97	197	111	308

X Capacity Building and Group Dynamics				0			0			0
Leadership development	1	28	3	31	4	1	5	32	4	36
Group dynamics	2	47	7	54	8	2	10	55	9	64
Formation and Management of SHGs	1	21	2	23	6	1	7	27	3	30
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Total	4	96	12	108	18	4	22	114	16	130
XI Agro-forestry				0			0			0
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)				0			0			0
TOTAL	42	1317	505	1822	381	149	530	1698	654	2352
(B) RURAL YOUTH				0			0			0
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Sericulture				0			0	0	0	0
Protected cultivation of vegetable crops	2	48	57	105	32	23	55	80	80	160
Commercial fruit production				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Value addition	2	0	32	32	0	42	42	0	74	74
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Para vets				0			0	0	0	0
Para extension workers				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0

Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
TOTAL	4	48	89	137	32	65	97	80	154	234
(C) Extension Personnel				0			0			0
Productivity enhancement in field crops	1	32	0	32	4	0	4	36	0	36
Integrated Pest Management	1	31	0	31	8	0	8	39	0	39
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Any other (Pl. Specify)				0			0	0	0	0
TOTAL	2	63	0	63	12	0	12	75	0	75
Grand Total	**48**	**1428**	**594**	**2022**	**425**	**214**	**639**	**1853**	**808**	**2661**

C) Consolidated table (On and OFF Campus)

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	3	101	24	125	16	7	23	117	31	148
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	1	31	8	39	14	3	17	45	11	56
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Water management	2	66	11	77	12	4	16	78	15	93
Seed production	2	50	13	63	18	2	20	68	15	83
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	1	35	7	42	9	2	11	44	9	53
Fodder production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	24	3	27	5	0	5	29	3	32
Total	10	307	66	373	74	18	92	381	84	465
II Horticulture	0	0	0	0	0	0	0	0	0	0
a) Vegetable Crops	0	0	0	0	0	0	0	0	0	0
Production of low volume and high	0	0	0	0	0	0	0	0	0	0

value crops										
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	3	285	36	321	12	0	12	297	36	333
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0
b) Fruits	0	0	0	0	0	0	0	0	0	0
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Nursery Management	2	121	24	145	9	0	9	130	24	154
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Total	5	406	60	466	21	0	21	427	60	487
III Soil Health and Fertility Management	0	0	0	0	0	0	0	0	0	0
Soil fertility management	1	27	3	30	3	0	3	30	3	33
Soil and Water Conservation	2	79	16	95	19	5	24	98	21	119
Integrated Nutrient Management	1	34	2	36	4	0	4	38	2	40
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	2	70	8	78	12	1	13	82	9	91
Nutrient Use Efficiency	2	75	6	81	11	1	12	86	7	93
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Total	8	285	35	320	49	7	56	334	42	376

IV Livestock Production and Management	0	0	0	0	0	0	0	0	0	0
Dairy Management	0	0	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	1	6	8	14	12	14	26	18	22	40
Feed management	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Total	1	6	8	14	12	14	26	18	22	40
V Home Science/Women empowerment	0	0	0	0	0	0	0	0	0	0
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	3	0	79	79	0	20	20	0	99	99
Income generation activities for empowerment of rural Women	1	0	30	30	0	11	11	0	41	41
Location specific drudgery reduction technologies	3	0	76	76	0	29	29	0	105	105
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	3	0	82	82	0	23	23	0	105	105
Total	10	0	267	267	0	83	83	0	350	350
VI Agril. Engineering	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	2	24	0	24	29	0	29	53	0	53
Use of Plastics in farming practices	1	15	0	15	15	0	15	30	0	30
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Total	3	39	0	39	44	0	44	83	0	83
VII Plant Protection	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	8	344	60	404	71	12	83	415	72	487
Integrated Disease Management	7	306	43	349	63	9	72	369	52	421
Bio-control of pests and diseases	1	48	12	60	11	3	14	59	15	74
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Total	16	698	115	813	145	24	169	843	139	982
VIII Fisheries	0	0	0	0	0	0	0	0	0	0
Integrated fish farming	2	0	0	0	28	0	28	28	0	28
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	32	0	32	32	0	32

Composite fish culture	2	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	19	0	19	19	0	19
Shrimp farming	1	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Total	5	0	0	0	79	0	79	79	0	79
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Seed Production	4	133	46	179	46	16	62	179	62	241
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	3	91	45	136	36	19	55	127	64	191
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Total	7	224	91	315	82	35	117	306	126	432
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0	0
Leadership development	2	44	3	47	23	1	24	67	4	71
Group dynamics	2	47	7	54	8	2	10	55	9	64
Formation and Management of SHGs	2	33	2	35	21	1	22	54	3	57
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Total	6	124	12	136	52	4	56	176	16	192
XI Agro-forestry	0	0	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	71	2089	654	2743	558	185	743	2647	839	3486
	0	0	0	0	0	0	0			
(B) RURAL YOUTH	0	0	0	0	0	0	0			0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0

Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	2	48	57	105	32	23	55	80	80	160
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Value addition	4	0	106	106	0	53	53	0	159	159
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
TOTAL	6	48	163	211	32	76	108	80	239	319
	0	0	0	0	0	0	0			
(C) Extension Personnel	0	0	0	0	0	0	0			0
Productivity enhancement in field crops	1	32	0	32	4	0	4	36	0	36
Integrated Pest Management	3	83	0	83	15	0	15	98	0	98
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	1	25	0	25	2	0	2	27	0	27
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0

Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Any other (Pl. Specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	5	140	0	140	21	0	21	161	0	161
Grand Total	**82**	**2277**	**817**	**3094**	**611**	**261**	**872**	**2888**	**1078**	**3966**

(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		Preparation of jam, jelly and pickles	Value addition in fruit	1	0	18	18	0	4	4	0	22	22	0	0
Fruit & Vegetable	6-7-12	Preservation and home making of bakery product	Value addition in fruit	1	-	32	12	-	3	3	-	35	35	-	-
Compost pit		Preparation of compost pit	Soil fertility improvement	1	22	0	22	4	0	4	26	0	26	0	0
Vermicompost & Composting	16-08-12	Production of Vermicompost & Composting through Cotton stalks	Recycling of Farm Saste Material through Vermicompost & Compost pit	1	18	5	23	8	2	10	26	7	33	2	1
Recyclineg of farm waste		Recycling of farm waste in to compost	Soil improvement	1	28	0	28	6		6	34	0	34	0	0

*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	7.4.12	Plant Protection (IPM /IDM/ICM)	1	112	0	112	88	0	88	200	0	200	Hero Motocop.
2	8-5-12	Horticulture	1	0	27	27	0	2	2	0	29	29	FTC
3	18.06.12	Crop Production	1	12	6	18	14	4	18	26	10	36	DWDU
4	19.06.12	Plant Protection		7	2	9	4	1	5	11	3	14	DWDU

5	20.06.12	Soil Health & Nutrient Management		11	8	19	14	6	20	25	14	39	DWDU
6	21.06.12	Plant Protection		6	4	10	12	10	22	18	14	32	DWDU
7	26.6.12	Plant Protection	3	27	0	27	11	0	11	38	0	38	ATMA
8	10.7.12	Agil. Engineering	1	95	43	138	165	47	212	260	90	350	DWDU
9	21.7.12	Crop Production	1	2	6	8	17	14	31	19	20	39	TCSRD Mithapur
10	13-8-12	Pl. protection	1	36	18	54	2	0	2	38	18	56	ATMA
11	16.08.12	Pl. protection		8	6	14	13	7	20	21	13	34	DWDU
12	17.08.12	Pl. protection		12	5	17	14	7	21	26	12	38	DWDU
13	21-8-12	Empowerment of rural women	1	0	40	40		2	2	0	42	42	FTC
14	29.08.12	Crop Production	1	308	0	308	142	0	142	450	0	450	Mahindra Tractor
15	1-09-12	Crop Production	1	125	2	127	20	3	23	145	5	150	ATMA
16	2-9-12	IPM/INM	1	0	35	35	0	6	6	0	41	41	FTC
17	3-10-12	Plant Protection	1	54	8	62	4	0	4	58	8	66	ATMA
18	10.09.12	Plant Protection		9	6	15	12	7	19	21	13	34	DWDU
19	12.09.12	Plant Protection		13	8	21	11	10	21	24	18	42	DWDU
20	18-10-12	Crop Production	1	61	16	77	8	0	8	69	16	85	FTC
21	29-12-12	Plant Protection	1	46	9	55	3	0	3	49	9	58	State Depart
22	2.01.13	Crop Production		12	2	14	2	2	4	14	4	18	DWDU
23	4-1-13	Crop Production	1	48	15	63	9	0	9	57	15	72	ATMA
24	10-1-13	Empowerment of rural women	1	38	14	52	7	0	7	45	14	59	Horti
25	18-1-13	Soil Health and Fertility Management	1	58	10	68	5	0	5	63	10	73	FTC
26	15-2-13	Improved implement	1	42	0	42	60	0	60	102	0	102	JCB
27	26-2-13	Protection on summer crops	1	0	0	0	44	12	56	44	12	56	Agakhan
		Total		**1142**	**290**	**1432**	**681**	**140**	**821**	**1823**	**430**	**2253**	

Extension Programmes (including activities of FLD programmes)

Sl. No.	Nature of Extension Programme	Purpose/ topic & Date	No. of Progr-ammes	No. of Participants											
				General			SC / ST			Extension Officials			Total		
				M	F	T	M	F	T	M	F	T	M	F	T
1	Field Day														
	Groundnut (Trichoderma)		1	15	6	21	5	2	7	0	0	0	20	8	28
	Groundnut (NPV)		1	12	7	19	6	2	8	0	0	0	18	9	27
	Chickpea		2	24	13	37	10	3	13	0	0	0	34	16	50
	Green gram		1	12	6	18	5	2	7	2	0	2	19	8	27
	Cotton		2	22	10	32	9	3	12	0	0	0	31	13	44
	Wheat		2	19	12	31	11	4	15	0	0	0	30	16	46
	Sorghum		1	13	5	18	6	1	7	0	0	0	19	6	25
	Cumin		2	12	13	25	11	2	13	0	0	0	23	15	38
	Total		**12**	**129**	**72**	**201**	**63**	**19**	**82**	**2**	**0**	**2**	**194**	**91**	**285**
2	Kisan Mela	19.02.13	1	1800	1400	3200	1500	1300	2800	45	15	60	3345	2715	6060

3	Kisan Ghosthi		10	571	48	619	153	42	195	2	0	2	726	90	816
4	Exhibition		2	5000	3000	8000	4000	2000	6000	65	35	100	9065	5035	14100
5	Film Show		2	30	0	30	48	22	70	2	0	2	80	22	102
6	Method Demonstrations			0	0	0	0	0	0	0	0	0	0	0	0
7	Farmers Seminar		29	606	203	809	205	65	270	15	0	15	826	268	1094
8	Workshop			0	0	0	0	0	0	0	0	0	0	0	0
9	Group meetings		4	146	0	146	13	0	13	0	0	0	159	0	159
10	Lectures delivered as resource persons		115	2850	429	3279	344	170	514	45	0	45	3239	599	3838
11	Newspaper coverage		3	0	0	0	0	0	0	0	0	0	0	0	0
12	Radio talks		4	0	0	0	0	0	0	0	0	0	0	0	0
13	TV talks		6	0	0	0	0	0	0	0	0	0	0	0	0
14	Popular articles		5	0	0	0	0	0	0	0	0	0	0	0	0
15	Extension Literature		10	7819	3041	10860	1058	412	1470	1058	412	1470	9935	3865	13800
16	Advisory Services		10	0	0	0	0	0	0	0	0	0	0	0	0
17	Scientific visit to farmers field		38	221	0	221	72	0	72	3	0	3	296	0	296
18	Farmers visit to KVK		58	650	230	880	323	100	423	50	20	70	1023	350	1373
19	Diagnostic visits		11	23	0	23	34	0	34	0	0	0	57	0	57
20	Exposure visits			0	0	0	0	0	0	0	0	0	0	0	0
21	Ex-trainees Sammelan			0	0	0	0	0	0	0	0	0	0	0	0
22	Soil health Camp			0	0	0	0	0	0	0	0	0	0	0	0
23	Animal Health Camp			0	0	0	0	0	0	0	0	0	0	0	0
24	Agri mobile clinic		3138	2450	25	2475	1200	0	1200	547	0	547	4197	25	4222
25	Soil test campaigns			0	0	0	0	0	0	0	0	0	0	0	0
26	Farm Science Club Conveners meet			0	0	0	0	0	0	0	0	0	0	0	0
27	Self Help Group Conveners meetings			0	0	0	0	0	0	0	0	0	0	0	0
28	Mahila Mandals Conveners meetings			0	0	0	0	0	0	0	0	0	0	0	0
29	Celebration of important days (specify)			0	0	0	0	0	0	0	0	0	0	0	0
30	Female groups		7		55	55	0	30	30	0	30	30	0	115	115
31	Night Meetting		6	167	60	227	82	38	120			0	249	98	347
32	Crop Shibir/Farmer shibir		68	1126	438	1564	128	50	178	128	50	178	1382	538	1920
33	Collobrative training		45	956	372	1328	276	108	384	276	108	384	1508	588	2096
34	Training to Extension Functionaries		5	140	0	140	21	0	21	3	0	3	164	0	164
35	Any Other (Specify)			0	0	0	0	0	0	0	0	0	0	0	0
	Total		**3589**	**28082**	**9754**	**37836**	**5315**	**1891**	**7206**	**5315**	**1891**	**7206**	**33397**	**11645**	**45042**

3.5 Production and supply of Technological products (2011-12)

SEED MATERIALS

Sr.No.	Crop	Variety	Quantity (Kg.)	Value	Provided No. of farmers
1.	Sesamum	G.Til.-2	60	6000	--
2.	Wheat	GW-496	3000	1,47000	294

SUMMARY

Sl. No.	Major group/class	Quantity (Kg.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	3000	147000	294
2	OILSEEDS	60	6000	-
3	PULSES			
4	VEGETABLES			
5	OTHERS			
TOTAL		**3060**		

PLANTING MATERIALS : Nil..

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Coconut		401	14430	14
	Lemon		36	432	12
	Sapota		16	720	12
	Date Palm		33	495	5
SPICES					
VEGETABLES					
FOREST SPECIES					
ORNAMENTAL CROPS	Fen Palm		1	20	1
	Bottle Palm		2	40	1
	Rose		3	60	2
	Champo		1	10	1
	Dollar		1	10	1
	Night jashmine		1	10	1
	Ixora		5	100	3
PLANTATION CROPS	Borsali		2	20	2
	Ravana		3	30	2
	Jambu		10	100	4
Others (specify)					

SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	486	16077	43
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES			
5	ORNAMENTAL CROPS	14	250	10
6	PLANTATION CROPS	15	150	4
7	OTHERS			
	TOTAL	**515**	**16477**	**57**

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*		2000	140000	786

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*		2000	140000	786
	TOTAL					

LIVESTOCK : NIL..

Sl. No.	**Type**	**Breed**	**Quantity**		**Value (Rs.)**	**Provided to No. of Farmers**
			(Nos	**Kgs**		
Cattle	Cow	Gir	3 Cow		8020	Demo. Farm of KVK
FISHERIES						
Others (Specify)						

SUMMARY

Sl. No.	**Type**	**Breed**	**Quantity**		**Value (Rs.)**	**Provided to No. of Farmers**
			Nos	**Kgs**		
1	CATTLE	Gir	3 Cow		8020	Demo. Farm of KVK
2	FISHERIES					
3	OTHERS					
	TOTAL		**3 Cow**		**8020**	

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

Literature developed / published

Sr.No	**Name of publication**	**Author**
1		

(C) Details of Electronic Media Produced

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

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

Success story-1

PROFILE OF FARM WOMEN INNOVATORS

Personal Profile

Name of farmwomen	:	Parmaben Oghadbhai Makwana
Contact No.	:	07567879321
Address	:	At.- Makanpur, Ta.- Dwarka, Dist.- Jamnagar
Age	:	45 Year
Education(highest level and subject)	:	4
Land holding	:	--
Crops grown	:	--
Livestock	:	2 Buffalo, female calf 1

Decomposing of FYM & waste material

Makanpur comes on coastal area; there is a saline and alkaline soil, therefore, economic crops cannot take, only fodder crops can grow. Parmaben is land less but she farming contractually other farmers. Side by side she started animal keeping and induce income of her family by selling milk, ghee and FYM. She grazing the buffalo naturally and some fodder maintain from contractual farming & some purchase from other farmers. She come in contact with KVK and trained about decomposition of FYM and product organic matter.

Practical Utility of the Innovation/ Mode etc.

Present days, soil fertility degraded day by day due to inadequate FYM, and low availability of FYM because of less number of animal possess by farmers,. Therefore, value of well compost FYM is increase day by day. Parmaben produced 3 tons well compost FYM from 3 animals in a month and the revenue generate Rs. 6000/- (Rs. 72,000/- per annum). Earlier they sold collected animal waste and got income far less as compare to preparation of decompose of waste material and she increase her family socio economic status.

Success Story-2

PROFILE OF FARM WOMEN INNOVATORS

Personal Profile

Name of farmwomen	:	Jadeja Binduba
Contact No.	:	02892695216
Address	:	At.- Bhimrana , Ta.- Dwarka, Dist.- Jamnagar
Age	:	38
Education(highest level and subject)	:	8
Land holding	:	0.4 ha
Crops grown	:	Chilli, tomato, vegetables, fodder
Livestock	:	1 Cow

Preparation of Pickles from Green Chili

Bhimrana is a small village comes near coastal area near Mithapur. Jadeja Binduba is one of the farm women having very less land (0.4 ha) and she keeping one cow. Her family income is very low. Therefore, she done multipurpose business *viz.,* flour meal, cutlery selling pickles shelling etc.

Practical Utility of the Innovation/ Mode etc.

Jadeja Binduba comes from small farmer family. She has 0.4 hectare land which is very less for her family. She has done multipurpose business for increase her income. Cutlery selling, flour meal, cow keeping and selling milk and ghee etc. She grows chili and other vegetables in her farm and also purchase from market at commercial rate. Prepare pickles from this chili and packing herself in own brand rappers. Thus, Binduba get net income Rs. 8000 per month from this pickles.

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

1. Innovative methodology:

- Farmers to farmer dissemination
- Distributed printed leaflet to farmers
- Farm School on farmer's field

2. Innovative technology transfer:

- Use of FYM to minimize the chemical fertilizer in cotton
- Use of Trichoderma against stem rot disease of groundnut
- Tractor mounted sprayer
- Introduction of new variety i.e.GG-3
- Use of trap crop, pheromone trap etc. as a IPM component
- Cotton stalk shredder

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	Fertility Managt	Application of ash	To improve soil fertility
6	"	Sheep and goat penning	To improve soil fertility
7	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
1.	Lakhtar	7.	Nathuvadala	14.	Udepur
2.	Ananda	8.	Soyal	15.	Kadbal
3.	Limbuda	9.	Vankiya	16.	Vasantpur

4.	Keshiya	10.	Manekpar	17.	Dhanuda
5.	Manpar	11.	Nana Garadiya	18.	Gorakhadi
6.	Hirapar	12.	Mavapar	19.	Manpar
		13.	Kalyanpur	20.	Bijalpar

ii. No. of farm families selected : 1025

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 2011-12

----Nil---

4. Impact study

----Nil----

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 ➢ For collaborative off campus training ➢ For collaborative training and demonstration Programme ➢ Collaborative on campus training programme ➢ For providing hostel facilities to participants and organizing collaborative Mahila Krishi Mela
2	District Rural Development Agency, Jamnagar	
3	Deputy Director of Veterinary, Department of veterinary & Animal Husbandry, Jamnagar	
4	Deputy Director of Horticulture, Jamnagar	
5	Deputy Director of Agriculture (Training), Farmer Training Centre, Jamnagar	
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	Project Director, ATMA, Jamnagar	
14	Project Director, DWDU, 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	
11	Agakhan Rural Development Trust	

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Establishment of Agricultural Technology Information Centre (ATIC)	2005-06	State Government	287000/-
Establishment of Transfer of Technology (TOT)	2005-06	State Government	345000/-
Seed Village	2009-10	State Government	800000/-
Rastriya Krishi Vikas yojan-District Agril.Plan (RKVY-DAP Project)	2009-10	RKVY-DAP	1080890/-
Soil Health Card	2009-10	State Gov.	324379/-

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 Arrangement of Krishi Mela
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)

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	-	-	-	
					Vermi compost	-	-	-	
2	Horticulture Unit	2007-08	3.5 Ha	*Guava*	Fruit	128 kg	-	1280	
				Sapota		124kg		1240	
				Pomegranate		48		480	

6.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. kg	Cost of inputs	Gross income	
Wheat	29/10		1.00	GW-496	Grain	2390			
Til	13/7		1.00	GT-2	Grain	60			
Sorghum	3.7.12		1.5	GJ-38	Grain	594			
	3.7.12		1	Gundari	Grain	240			
	5.7.12		5	Green	Fodder	90200			
	5.7.12			Gundari	Dry Fodder	15700			
Maize	25.09.12		0.5	Local	Green fodder	15200			
Lucern	12.10.12		0.4	Annand-2	Green fodder	8520			
Carrot	12.10.12		0.25	Local	Green fodder	5660			
Groundnut	3.7.12		1	GAUG-20	Dry fodder	1000			

6.3 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Major carp	Catla	fish	68 kg	-	1496	
2.	Gir Cow	Gir Cow	Milk	10478	-	205341/-	

6.5 Rainwater Harvesting

Training programme conducted by using rain water harvesting Demo. units

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/STParticipants		
				Male	Female	Total	Male	Female	Total

6.6 Utilization of hostel facilities:

Accommodation available (No. of beds) : 25

Months	Title of the training course/ Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2012				
Total				
May 2012				
Total				
June 2012				
Total				
July 2012				
Total				
August 2012		30	90	
		1	2	
		2	2	
Total				
September 2012		35	105	
		30	90	
		28	84	
Total				
October 2012		26	78	
		30	90	
		24	72	
		3	3	
		3	9	
Total				
November 2012		28	84	
		35	105	
Total				
December 2012		2	30	
Total				
January 2013		6	6	
		1	1	
Total				
February 2013		1	2	
		10	10	

Total				
March 2013		8	8	
		14	14	
		5	5	
		2	2	
		2	2	
Total				
Grand total				

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

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 2013
	Kharif 2012-13	Rabi 2012–13	Kharif 2012-13	Rabi 2012-13	
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 2013
	Kharif 2012-13	Rabi 2012–13	Kharif 2012-13	Rabi 2012-13	
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 2013
	Kharif 2012-13	Kharif 2012-13	
Inputs			
Extension activities			
TA/DA/POL etc.			
TOTAL			

7.5 Utilization of KVK funds during the year 2012-13

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	**Recurring Contingencies**			
1	**Pay & Allowances**	**4150000**	**4150143**	**4004030**
2	**Traveling allowances**	**75000**	**75000**	**59499**
3	**Contingencies**	**850000**	**850000**	**849911**
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	190000	190000	158600
B	POL, repair of vehicles, tractor and equipments	110000	110000	110008
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	90000	90000	122500
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	100000	100000	104000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	210000	210000	225000
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	60000	60000	69703
G	Training of extension functionaries	50000	50000	50100
H	Maintenance of buildings	40000	40000	10000
I	Establishment of Soil, Plant & Water Testing Laboratory	0	0	0
J	Library	0	0	0
	TOTAL (A)	**5075000**	**5075143**	**4913440**
B.	**Non-Recurring Contingencies**	**0**	**0**	**0**
1	**Equipment and Furniture**	0	0	0
2.	**Works**	0	0	0
3.	**Vehicle**	0	0	0
4.	**Library (Purchase of assets like books & journals)**	0	0	0
	TOTAL (B)	**0**	**0**	**0**
C.	**REVOLVING FUND**	0	0	0
GRAND TOTAL (A+B+C)		**8350000**	**8350000**	**7606929**

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 2010 to March 2011	1855838	576961	96475	2336324
April 2011 to March 2012	2336324	522502	119538	2739288
April 2012 to March 2013	2739288	666821	2540	3403569

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 : Some post are vacant i.e. Horticulture, Soil Science (Crop Production), Animal Husbandy, Agricultural Engineering, Computer Operator, Programme Assistant, Stenographer, Jeep Driver

8.2 KRISHI MAHOTSAV – 2012

Mass Extension programme i.e. "Krishi Mahotsav-2012" held during 6-5-2012 to 5-6-2012

Sr. No.	Name of Block	Name of Scientist		No. of Village covered
		Team A	Team B	
		6.5.12 to 13.5.12 & 22.5.12 to 29.5.12	14.5.12 to 21.5.12 &	
1.	Jamnagar	Dr. H. r. Khafi & Shri. H. T. Chauhan	Dr. B. K. Davda & P.M. Patel	
2.	Dhrol	Dr. G. M. Parmar & Shri P.P. Patel	Shri H. K. Kandoria & Shri M. K. Bhalala	
3	Jodia	Shri R. P. Juneja & Dr. J. N. Thaker	Dr. P. R. Padhar & Dr. N. H. Joshi	
4	Kalavad	Shri N. N. Galani & Shri G. V. Maravia	Dr. K. D. Mungra & Dr. B. D. Savalia	
5	Lalpur	Dr. K. K. Dhedhi & Shri C. R. Sabale	Shri Y. H. Ghelani & Shri H. G. Vansjaliya	
6	Bhanvad	Dr. N. B. Jadav & Dr. P. S. Gorfad	Shri D. L. Kadvani & Dr. A. R. Bharodia	
7	Jamjodhpur	Shri S. D. Atara & Shri M. J. Gojia	Shri D. D. Ghonia & Dr. H. H. Savsani	
8	Jam Khambhadia	Dr. J. S. Sorathia & Shri A. J. Patel	Shri K. K. Kanjaria & Shri N. B. Parmar	
9	Jam Kalyanpur	Dr. K. P. Baraiya & Shri A. S. Kotia	Shri R. P. Vavaiya & Shri C. B. Ajudia	
10	Dwarka	Shri J. B. Solanki & Shri K. A. Pagi	Shri P. R. Tank & Shri P.R. Patel	

8.3 Celebration of Technology week

Technology week was celebrated at Krishi Vigyan Kendra, JAU, Jamnagar during 29th October to 3rd November, 2012. In which 369 farmers from different blocks were participated.

Date	Taluka	Numbers fo participants								
		General			SC/ST			Total		
		M	F	Total	M	F	Total	M	F	Total
29.10.12	Jamnagar	23	38	61	2	0	2	25	38	63
30.10.12	Dhrol	-	69	69	-	-	-	-	69	69
	Jodia									
1.11.12	Khambhalia	33	30	63	2	03	5	35	33	68
	Bhanvad									

2.11.12	Jamjodhpur	30	42	72	3	0	3	33	42	75
	Kalyanpr									
3.11.12	Lalpur	32	58	90	4	0	4	36	58	94
	Kalavad									
Total		**118**	**237**	**355**	**11**	**3**	**14**	**129**	**240**	**369**

Dr. K.P. Baraiya programme Coordinator, KVK,JAU, Jamnagar welcomed all the participants, officers and dignitaries of the technology week- 2012 and highlighted the achievements of the centre in brief.

Agricultural Technology Week was celebrated by KVK, JAU, Jamnagar during 29th October to 3rd November, 2012. The programme was chaired by Dr. A. M. Parakhia, Director of Extension Education, Junagadh Agriculture University, Junagadh and inaugurated function by lighting the lamp. In his presidential speech he told that Krishi Vigyan Kendra is work as an agricultural information hub for the district. He also said that training is the important for farmers to update their knowledge of new research and technology in agriculture. He advised farmers to participate more and more to refine their agricultural knowledge.

In this programme, Dr. P. R. Padhar, Research Scientist (Millet), Millet research Station, JAU, Jamnagar, Shri P. B. Khistariya, DAO, Jamnagar, Shri R. H. Ladani, Dy. Director (Hort.) and Manish Patel, Assistant Project Director, ATMA were also remained present and delivered introductory address with the details of schemes of their departments.

After inaugural function, different scientists of KVK have given talk on different subjects and information from the Krishi Vigyan Kendra. The day to day activities are as under.

Themes of the Technology Week:

1. **1st day:** Organic Farming and minimize cost of cultivation, integrated IPM, IDM in field crops.
2. **2nd day:** Organic manures production, reutilization of farm waste material (cotton stalks)
3. **3rd day:** integrated disease management and mechanization of farm and newer farm implements
4. **4th day:** value addition of farm products and water use efficiency through use of micro irrigation systems
5. **5th day:** integrated farming (farming, animal husbundry, fisheries, vermi compost etc.)

Following are the topics delivered 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
- Scope of horticultural crops in modern agriculture
- Recycling for farm waste material and composting
- Vermin compost and organic farming
- Emphasizes on adverse effect of climate changein agriculture

Attraction of the technology week

- Animal (Gir cow)unit
- Net House/Poly house
- Vermi compost unit
- Fisheries unit
- Agro forestry unit
- Vegetable unit
- Orchard of chiku, custard apple, guava, pomegranate and aonla

- Drip and sprinkler system in farm
- Crop cafeteria of major crop of the district
- Seed production unit
- Seed production units for hybrid castor GCH-7 production etc.
- Improved Implements viz.

8.4 OTHER SCHEME :

8.4.1 ESTABLISHMENT OF AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (ATIC) (YEAR-2012-13)

1. Name of the Scheme : Establishment of Agricultural Technology Information Centre (ATIC) B.H. 10572-03
2. Location of the scheme : Krishi Vigyan Kendra, JAU, Jamnagar
3. Officer-incharge of the scheme : Programme Coordinator, KVK, JAU, Jamnagar
4. Objectives :
   - Single window system for technology dissemination.
   - Formulation of FIGs as a process of innovativeness in technology dissemination.
   - Feedback from users to the research centre
5. Justification of the scheme :
   - The JAU has generated a large number of technologies in different disciplines of agriculture and all allied subjects.
   - Location specific technology and assessment technologies and demonstration of the technological models is planned.

Sr. No.	Name of FLD	No. of beneficiaries		
		Other	SC/ST	Total
1.	Vermin compost	-	-	-
2.	Composting	-	-	-
3.	Crop/input :- cotton	5	-	5

A. Details of farmers visit

S. No.	Name of ATIC	Purpose of visit	No. of farmers visited
1.	KVK, Jamnagar	For Agricultural information	411

B. Facilities in ATIC (Operational)

S. No.	Particulars	No. of ATIC
1.	Reception Counter	No
2.	Exhibition/technology measures	Nil
3.	Touch screen kiosk	Nil
4.	Cafeteria	Yes
5.	Sales Counter	No
6.	Farmers feed back register	Yes

1 1.Details technology information, category of information

Name of ATIC	Information Category	No. of farmers benefitted	Variety	Pest Management	Disease management	Agro tech.	SWT	PHT	AH
KVK, Jamnagar	Kisan call Centre phone	2218	260	958	490	220	230	40	60
	Letters Received	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Letter replied	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Training	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

D. 2. Publication (Print & Electronic media)

S.No.	Name of ATIC	Particular	No. sold/distributed	Revenue generate	No. of farmers benefitted
1.	KVK, Jamnagar	Tech. bulletin	Nil	Nil	Nil
2.		Leaflet	Nil	Nil	Nil
3.		Books	Nil	Nil	Nil
4.		Folders	10	--	875
5.		CDs	Nil	Nil	Nil
6.		DVDs	Nil	Nil	Nil
7.		Others	Nil	Nil	Nil

E. Technology products provided.

S.No.	Particular	Quantity	Unit of quantity	Value in Rs.	No. of farmers benefitted
1.	Seeds				
1	Sesamum GT-2	60	Kg.	6000	--
2.	Plants	Nil	Nil	Nil	Nil
3.	Vermi Culture	Nil	Nil	Nil	Nil
4.	Fruits	128	Kg.	2000	13
5.	Vegetable	Nil	Nil	Nil	Nil
6.	Milk	7066.80	Lit.	143986	15

F. Technology services provided

Name of ATIC	Particulars	No. of farmers benefitted
	SW testing	Nil
	Plant diagnosis	24
	Services to line department	Nil
	Others (if any)	NIl

Activity done under FFS Scheme (RKVY)

Season	**Crop**	**Component supplied**	**Quantity of component**	**No. of FFS**	**No. of Farmer covered**	**Training conducted**
Kharif	Cotton	*Brauveria bassiana*	1 kg	6	180	Nil
		Sardar Micro Mix	250 gm			
		Books Supplied *1. Pasupalan Panchamrut* *2. Jaminnut Amrut* *3. Telibiya pakoni kheti*	1 set			
Rabi	Cumin	Sardar Micro mix	250 gm	7	210	6

		Regent	250 ml			
		Bavistin	500 gm			
		Sulphur	500 gm			
		Books Supplied *1. Pasupalan Panchamrut* *2. Jaminnut Amrut* *3. Telibiya pakoni kheti*	1 set			

8.4.2 Establishment of modern nursery for propagation and popularization of planting materials (RKVY DAP)

Progress Report for April 2012 to March-2013						
Name of Implementing agency :-		**Krishi Vigyan Kendra, JAU, Jamnagar**				
Sr. No	**Description**	**Remarks**				
01	Name of Project	**Establishment of modern nursery for propagation and popularization of planting materials**				
06	Major activities of the Project	Establishment of modern nursery, raising the sampling, seedling and distributed with training				
07	Month & Year of Commencement	Nov, 2009				
08	Month and Year of Completion	31-3-2012				
09	Target	Year	Unit	Component	Physical Target	Financial Outlay
		2007-08		Conservatory unit with all facilities, training furniture and tools, propagation and training, purchase of horticultural plant and ornamental plant.		
		2008-09				
		2009-10				8.83
		2010-11				7.32
		2011-12				10.80
10	Current Status- Physical and Financial achievements	2007-08		Conservatory unit with all facilities, training furniture and tools, propagation and training, purchase of horticultural plant and ornamental plant. Training to horticultural farmers		
		2008-09				
		2009-10				0.85
		2010-11				4.5
		2011-12				10.80
		2012-13				1.85
12	Expected Outcome (In terms of benefits such enhancement of production, productivity, farm employment and income etc	Establishment of Conservatory unit, production and supply of Sapling and plant to the horticultural farmers and training to farmers about nursery management and production of horticultural plant. ➢ Supply 511 sapling to 26 farmers in the Jamnagar district ➢ Two Training conducted for 102 horticultural farmers				
13	Quantifiable Physical and Financial Achievements (in terms of benefits)	Target				
		Physical		Financial Rs.In Lakhs		
		Establishment of conservatory Unit and popularization of planting material through training		Target	Achievement	Balance
				18.0	18.0	Nil
14	Remarks if any	-				

8.4.3 DEVELOPMENT AND STRENGTHENING OF INFRASTRUCTURE FACILITIES FOR PRODUCTION AND DISTRIBUTION OF QUALITY SEEDS (SEED VILLAGE)

PROFORMA FOR SUBMISSION OF PHYSICAL AND FINANCIAL PROGRESS REPORT OF SEED VILLAGE PROGRAMME

Name & Address of implementing agency	:	DIRECTOR OF EXTENSION EDUCATION, JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH (Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, JAMNAGAR)
Season & Year of Implementation	:	Rabi 2012-13

A. SEED DISTRIBUTION :

S. No.	State/ Agency Name	Crop/ Variety	Area (ha)		Qty. of Foundation/ certified seed supplied (Qtl.)		Qty. of Seeds Produced (Qtl.)	No. of Seed Village Organized *		No. of Farmers Covered*	Financial Progress (Amt. Rs. in Lakh) for foundation seed/ Certified seed distribution			Remarks crop-variety wise 50% cost of seed per kg
			Target	Achievement	Target	Achievement		Target	Achievement	Total	Fund Received	Fund Utilised	Balance	
1	2	3	4	5	6	7	8	9	10	14	15	16	17	18
1.	Gujarat/ Director of Extension Education, Junagadh Agricultural Unviersity, Junagadh	Wheat GW-496	58.80	58.80	58.80	58.80	2572.50	25	39	296	1.33770	1.33770	0	-
		Cumin GC-4	50	50	6.00	6.00	375	30	34	200	1.11	1.11	0	-

B. FARMERS TRAINING :

S. No.	Crop / Variety	Place of Training	Date	No. of farmers participated *					Financial progress for farmers training (Amt. Rs. in Lakh)			Remarks
				Target	Achievement				Fund received	Fund utilized	Balance	
					Gen.	SC/ST /OBC	Women	Total				
1	2		4	5	6	7	8	9	10	11	12	13
1	Cumin	On Campus	15.10.12	Rabi-2012-13 40 farm families	22	6	2	30	0.41115	0.41115	0.00	
2	Cumin	On Campus	29.10.12		14	9	0	23				
3	Cumin	On Campus	1.11.12		15	8	5	28				
4	Wheat	On Campus	29.11.12		21	8	6	35				
5	Wheat	On Campus	1.12.13		23	6	4	33				
6	Cumin	On Campus	15.12.13		11	4	0	15				
7	Cumin	Bhatia	8.1.13		28	15		43				
8	Cumin	Haripur	11.1.13		34	13	6	53				

9	Cumin	Lalpur	24.1.13		65	37	0	102				
10	Wheat	On Campus	29.1.13		56	28	8	92				
11	Wheat	On Campus	15.2.13		78	24	0	102				
12	Wheat	Lavadia	16.2.13		14	2	0	16				
13	Wheat	Chandraga	16.2.13		12	2	0	14				
14	Wheat	Hadmatia	26.2.13		36	12	10	58				
15	Wheat	Gorakhadi	13.3.13		42	18		60				
16	Wheat	Mansar	14.3.13		43	32		75				
17	Cumin	Jamjodhpur	17.3.13		69	52	24	145				
					583	276	65	924				

C. DISTRIBUTION OF SEED STORAGE BINS (IF ANY): As per Annexure-A : NIL

Sr. No.	Capacity of Seed Bin	No. of Seed Storage Bins distributed*					Financial Progress (Amount Rs. in lakhs)			Cost of seed bins	Remarks
		Target	Achievement								
			General	SC/ST	Women	Total	Fund received	Fund Utilized	Balance		
1	***2***	***3***	***4***	***5***	***6***	***7***	***8***	***9***	***10***	***11***	***12***
1	**----NIL----**										

Budget Information

TOTAL OF ALL THREE ABOVE COMPONANT (AMT. IN RS.) (A+B+C)		TOTAL FUNDS RECEIVED FROM GOI (AMT. RS. IN LAKHS)	FUNDS UTILIZED (AMT. IN RS.)	BALANCE (AMT. IN RS.)	Reason for unspent grants
Rabi (Seed, Storage bins & Training)	245900	11.52500	245900	865485	Most of the farmers not ready to grow Rabi/summer crop due to unavailability of irrigation water facility in this drought year
Summer (Input Seed & Training)	0		0		
Other Contingency Expenditure	41115		41115		
TOTAL (Up to 31-3-2013)	**287015**		**287015**	**865485**	

ANNEXURE – I

PROCEEDING OF THE 8th SCIENTIFIC ADVISORY COMMITTEE MEETING OF KRISHI VIGYAN KENDRA, JAU, JAMNAGAR HELD ON 10th APRIL, 2012

The Eighth Scientific Advisory Committee meeting of Krishi Vigyan Kendra, JAU, Jamnagar was held at Training Hall, Krishi Vigyan Kendra, JAU, Jamnagar on 10th April, 2012.

The following members were remain present in the meeting.

Sr. No.	Name & Designation	Position
1	**Dr. A.M. Parakhia** Director of Extension Education, JAU, Junagadh	Chairman
2	**Dr. M.N. Popat** Associate Director of Extension Education, JAU, Junagadh	Member
3	**Dr. V.N. Patel** Representative of Associate Director of research, Main Dry Farming Research Station, JAU, Targhadia	Member
4	**Dr. K.L Raghvani** Research Scientist (Millet), Main Millet Research Station, JAU, Jamnagar	Member
5	**Shri B.C. Pattani** Director, District Rural Development Agency, Jamnagar	Member
6	**Shri C.H. Gujjar** Project Director, District Water Development Unit, Sardar Bhavan, Jamnagar	Member
7	**Shri S.A. Sinojia** Representative of Dy. Director of Agriculture (Extension), Jamnagar	Member
8	**Shri P.B. Khistaria** District Agriculture Officer, District Panchayat ,Jamnagar	Member
9	**Shri R.H. Ladani** Dy. Director of Horticulture, Jamnagar	Member
10	**Dr. H.R. Jadav** Project Director (ATMA) & Dy. Director of Agriculture (Training), Farmers Training Centre, Jamnagar	Member
11	**Shri A.K. Sharma** Deputy Director , Gujarat Land Development Corporation, Jamnagar	Member
12	**Dr. G.S. Sutaria** Research Scientist, Dry Farming Research Station, Targhadia (Rajkot)	Member
13	**Shri Ashok Paliwal** Gujarat Land Development Corporation,Jam Khambhalia Dist. Jamnagar	Member
14	**Shri Kantilal Bhagwanjibhai Ajudia** At.& post; Makwana, Ta. & Dist.; Jamnagar.	Member
15	**Valjibhai Govindbhai Parmar** At.& post; Jivapar, Ta&Dist, Jamnagar	Member
16	**Shri Amrsibhai Dhanjibhai Dalsania** At. & post; Lakhtar, Ta.; Dhrol. & Dist.; Jamnagar	Member

17	**Smt. Chandrikaben Amrsibhai Dalasania** At. & post; Lakhtar, Ta.; Dhrol, Dist; Jamnagar	Member
18	**Dr. K.P. Baraiya** Programme Coordinator, KVK, JAU, Jamnagar	Member Secretary
19	**Dr. G.M. Parmar** SMS, KVK, JAU, Jamnagar	Member
20	**Dr. N.B.Jadav** SMS, KVK, JAU, Jamnagar	Member
21	**Smt. Anjanaben K. Baraiya** SMS, KVK, JAU, Jamnagar	Member
22	**Dr. J.N. Thaker** SMS, KVK, JAU, Jamnagar	Member
23	**Shri P.S. Gorfad** Agril. Officer, KVK, JAU, Jamnagar	Member
24	**Shri A.J. Patel** Agril. Officer, KVK, JAU, Jamnagar	Member

Dr. K.P. Baraiya, Programme Coordinator, Krishi Vigyan Kendra, JAU, Jamnagar welcomed all the members of the Scientific Advisory Committee meeting and highlighted the achievements of the centre in brief.

Dr. N.C. Patel, Hon'ble Vice-Chancellor and Chairman of Scientific Advisory Committee meeting were busy in another programme. On behalf of him Dr. A.M. Parakhia, Director of Extension Education, JAU, Junagadh chaired the meeting.

After welcome of the guests and dignitaries through garland and inauguration Dr. K.L. Raghvani, Research Scientist, Millet Research Station, JAU, Jamnagar brief the KVK mandatory activities. He also highlited latest research spread through KVK.

Shri B.C. Pattani, Director, District Rural Development Agency, Jamnagar presented scope of district in brief. He also noted how to reduce production cost with optimum yield.

Dr. M.N. Popat, Associate Directorate of Extension Education, JAU, Junagadh delivered introductory speech. He told about the activities and mandatory activities of KVK.

Dr. K.P. Baraiya, Programme Coordinator, Krishi Vigyan Kendra, JAU, Jamnagar presented action taken report of the minutes of 7th SAC meeting, progress report (April- 2011 to March-2012) and Action Plan (April 12 to March- 2013).

Suggestions made by committee members during presentation:

1.	Dr. A.M. Parakhia, Director of Extension Education, JAU, Junagadh suggested that conclude the OFTs which completed three year and advice to underline each photographs with appropriate title. He also suggested to give specific title of training and emphasized to improve quality

	of trainings..
2.	Shri R.H. Ladani, Dy. Director of Horticulture, suggested to increase horticulture training with line department (i.e. 4 to 8).
3.	Dr. A.M. Parakhia, Director of Extension Education, JAU, Junagadh stated that arrange training for farm women on animal nutrition and also suggested to conduct FLDs on component instead of varietal demonstration. He also suggested to increase training on fisheries and give specific training according to thrust area of the district and stated to give training on MIS and protected cultivation in net house / poly house.
4.	Dr. G.S. Sutaria, Research Scientist, DFRS, Targhadia, suggested to give training on seed treatment in 1st quarter and training on recycling of farm waste in 4th quarter

After above suggestions from the house, Directorate of Extension Education, JAU, Junagadh Dr. A.M. Parakhia delivered the keynote address to the house. He emphasized to improve quality of trainings.

Member Secretary, SAC &
Programme Coordinator
Krishi Vigyan Kendra
Junagadh Agricultural University
Jamnagar

Director of Extension Education,
Junagadh Agricultural University
Junagadh

Note: Proceeding for approval please.

Vice Chancellor
Junagadh Agricultural University
Junagadh

ANNEXURE – II
DETAILS OF TRAINING PROGRAMMES

Date	Cliental	Title of Training	Discipline	Thematic Area	Duration in Days	Venue (On/ Off)	No. of Courses	No. of Participants								
								Others			SC/ST			Total		
								M	F	T	M	F	T	M	F	T
7.6.12	PF	Weed Management khrif crops	Crop Production	Weed Management	3	ON	1	34	3	37	4	0	4	38	3	41
14.9.12	PF	Water management groundnut & cotton	Crop Production	Water management	3	ON	1	31	2	33	3	0	3	34	2	36
11.10.12	PF	Seed production self pollinted crops	Crop Production	Seed production	3	ON	1	21	3	24	6	0	6	27	3	30
13.2.13	PF	Production of organic inputs	Crop Production	Production of organic inputs	3	ON	1	24	3	27	5	0	5	29	3	32
26.10.12	PF	Nursery raising	Horticulture	Nursery raising	2	ON	1	25	3	28	0	0	0	25	3	28
2.2.13	PF	Nursery Management	Horticulture	Nursery Management	3	ON	1	22	6	28	0	0	0	22	6	28
25.5.12	PF	Soil fertility management	Soil Health and Fertility Management	Soil fertility management	3	ON	1	27	3	30	3	0	3	30	3	33
18.6.12	PF	Soil and Water Conservation	Soil Health and Fertility Management	Soil and Water Conservation	3	ON	1	36	2	38	3	0	3	39	2	41
19.7.12	PF	Integrated Nutrient Management in kharif crops	Soil Health and Fertility Management	Integrated Nutrient Management	3	ON	1	34	2	36	4	0	4	38	2	40
7.8.12	PF	Micro nutrient deficiency in crops	Soil Health and Fertility Management	Micro nutrient deficiency in crops	3	ON	1	32	3	35	3	0	3	35	3	38
18.8.12	PF	Nutrient Use Efficiency	Soil Health and Fertility Management	Nutrient Use Efficiency	3	ON	1	42	2	44	4	0	4	46	2	48
22.6.12	PF	Disease Management	Livestock Production and Management	Disease Management	3	ON	1	6	8	14	12	14	26	18	22	40
8.5.12	PF	Value addition in fruit & vegetables	Home Science	Value addition	3	ON	1	0	26	26	0	6	6	0	32	32
18.10.12	PF	Location specific drudgery reduction technologies	Home Science	Location specific drudgery reduction technologies	3	ON	1	0	21	21		8	8	0	29	29
16.10.12	PF	Women and child care	Home Science	Women and child care	3	ON	1	0	22	22	0	5	5	0	27	27
16.5.12	PF	Installation and maintenance of micro irrigation systems	Agril. Engineering	Installation and maintenance of micro irrigation systems	3	ON	1	12	0	12	8	0	8	20	0	20
11.7.12	PF	Integrated Pest Management	Plant Protection	Integrated Pest Management	3	ON	1	36	3	39	9		9	45	3	48
28.8.12	PF	Integrated Pest Management	Plant Protection	Integrated Pest Management	3	ON	1	37	3	40	9		9	46	3	49
3.9.12	PF	Integrated Pest Management	Plant Protection	Integrated Pest Management	3	ON	1	36	3	39	7		7	43	3	46

12.11.12	PF	Integrated Pest Management	Plant Protection	Integrated Pest Management	3	ON	1	37	3	40	8		8	45	3	48
2.7.12	PF	Integrated Disease Management	Plant Protection	Integrated Disease Management	3	ON	1	40	4	44	9		9	49	4	53
1.8.12	PF	Integrated Disease Management	Plant Protection	Integrated Disease Management	3	ON	1	38	4	42	10		10	48	4	52
22.10.12	PF	Integrated Disease Management	Plant Protection	Integrated Disease Management	3	ON	1	39	4	43	9		9	48	4	52
20.11.12	PF	Integrated Disease Management	Plant Protection	Integrated Disease Management	3	ON	1	43	4	47	10		10	53	4	57
21.5.12	PF	Seed Production	Production of Inputs at site	Seed Production	3	ON	1	31	4	35	5	2	7	36	6	42
1.11.12	PF	Seed Production	Production of Inputs at site	Seed Production	3	ON	1	32	5	37	5	0	5	37	5	42
14.1.13	PF	Organic manures production	Production of Inputs at site	Organic manures production	3	ON	1	29	3	32	7	1	8	36	4	40
7.3.13	PF	Leadership development	Capacity Building and Group Dynamics	Leadership development	3	ON	1	16		16	19	0	19	35	0	35
12.4.12	PF	Formation and Management of SHGs	Capacity Building and Group Dynamics	Formation and Management of SHGs	3	ON	1	12		12	15	0	15	27	0	27
16.4.12	RY	Value addition	Home Science	Value addition	3	ON	1	0	36	36	0	6	6	0	42	42
10.12.12	RY	Value addition	Home Science	Value addition	3	ON	1	0	38	38	0	5	5	0	43	43
4.6.12	Ext. Func.	Integrated Pest Management	Plant Protection	Integrated Pest Management	3	ON	1	26		26	3	0	3	29	0	29
5.11.12	Ext. Func.	Integrated Pest Management	Plant Protection	Integrated Pest Management	3	ON	1	26		26	4		4	30	0	30
24.1.13	Ext. Func.	Protected cultivation technology	Horticulture	Protected cultivation technology	3	ON	1	25		25	2	0	2	27	0	27
				Grand Total			**34**	**849**	**223**	**1072**	**186**	**47**	**233**	**1035**	**270**	**1305**

Date	Clental	Title of Training	Discipline	Thematic Area	Duration in Days	Venue (On/ Off)	No. of Courses	M								
								Others			SC/ST			Total		
								M	F	T	M	F	T	M	F	T
28.6.12	PF	Weed Management	**Crop Production**	Weed Management	1	Off	1	33	10	43	6	4	10	39	14	53
29.10.12	PF	Weed Management	**Crop Production**	Weed Management	1	Off	1	34	11	45	6	3	9	40	14	54
2.6.12	PF	Crop Diversification	**Crop Production**	Crop Diversification	1	Off	1	31	8	39	14	3	17	45	11	56
7.9.12	PF	Water management	**Crop Production**	Water management	1	Off	1	35	9	44	9	4	13	44	13	57
8.11.12	PF	Seed production	**Crop Production**	Seed production	1	Off	1	29	10	39	12	2	14	41	12	53
20.4.12	PF	Integrated Crop Management	**Crop Production**	Integrated Crop Management	1	Off	1	35	7	42	9	2	11	44	9	53

19.12.12	PF	Nursery raising	Horticulture	Nursery raising	1	Off	1	120	12	132	6	0	6	126	12	138
19.3.13	PF	Nursery raising	Horticulture	Nursery raising	1	Off	1	140	21	161	6	0	6	146	21	167
25.2.13	PF	Nursery Management	Horticulture	Nursery Management	1	Off	1	99	18	117	9	0	9	108	18	126
29.5.13	PF	Soil and Water Conservation	Soil Health and Fertility Management	Soil and Water Conservation	1	Off	1	43	14	57	16	5	21	59	19	78
27.7.12	PF	Micro nutrient deficiency in crops	Soil Health and Fertility Management	Micro nutrient deficiency in crops	1	Off	1	38	5	43	9	1	10	47	6	53
30.8.12	PF	Nutrient Use Efficiency	Soil Health and Fertility Management	Nutrient Use Efficiency	1	Off	1	33	4	37	7	1	8	40	5	45
23.11.12	PF	Value addition	Home Science	Value addition	1	Off	1	0	26	26	0	6	6	0	32	32
28.11.12	PF	Value addition	Home Science	Value addition	1	Off	1	0	27	27	0	8	8	0	35	35
11.1.13	PF	Income generation activities for empowerment of rural Women	Home Science	Income generation activities for empowerment of rural Women	1	Off	1	0	30	30	0	11	11	0	41	41
7.12.12	PF	Location specific drudgery reduction technologies	Home Science	Location specific drudgery reduction technologies	1	Off	1	0	25	25	0	9	9	0	34	34
13.12.12	PF	Location specific drudgery reduction technologies	Home Science	Location specific drudgery reduction technologies	1	Off	1	0	30	30	0	12	12	0	42	42
3.1.13	PF	Women and child care	Home Science	Women and child care	1	Off	1	0	28	28	0	9	9	0	37	37
6.2.13	PF	Women and child care	Home Science	Women and child care	1	Off	1	0	32	32	0	9	9	0	41	41
28.4.12	PF	Installation and maintenance of micro irrigation systems	Agril. Engineering	Installation and maintenance of micro irrigation systems	1	Off	1	12	0	12	21		21	33	0	33
12.5.12	PF	Use of Plastics in farming practices	Agril. Engineering	Use of Plastics in farming practices	1	Off	1	15	0	15	15		15	30	0	30
20.8.12	PF	Integrated Pest Management	Plant Protection	Integrated Pest Management	1	Off	1	46	12	58	9	4	13	55	16	71
24.9.12	PF	Integrated Pest Management	Plant Protection	Integrated Pest Management	1	Off	1	48	12	60	10	4	14	58	16	74
10.8.12	PF	Integrated Pest Management	Plant Protection	Integrated Pest Management	1	Off	1	53	12	65	9		9	62	12	74
26.12.12	PF	Integrated Pest Management	Plant Protection	Integrated Pest Management	1	Off	1	51	12	63	10	4	14	61	16	77
11.9.12	PF	Integrated Disease Management	Plant Protection	Integrated Disease Management	1	Off	1	45	9	54	8	3	11	53	12	65
14.8.122	PF	Integrated Disease Management	Plant Protection	Integrated Disease Management	1	Off	1	48	8	56	8	3	11	56	11	67
3.12.12	PF	Integrated Disease Management	Plant Protection	Integrated Disease Management	1	Off	1	53	10	63	9	3	12	62	13	75
12.6.12	PF	Bio-control of pests and diseases	Plant Protection	Bio-control of pests and diseases	1	Off	1	48	12	60	11	3	14	59	15	74

23.2.13	PF	Integrated fish farming	Fisheries	Integrated fish farming	1	Off	1			0	14		14	14	0	14
28.2.13	PF	Integrated fish farming	Fisheries	Integrated fish farming	1	Off	1			0	14		14	14	0	14
14.3.13	PF	Composite fish culture	Fisheries	Composite fish culture	1	Off	1			0	14		14	14	0	14
14.3.13	PF	Composite fish culture	Fisheries	Composite fish culture	1	Off	1			0	18		18	18	0	18
26.3.13	PF	Shrimp farming	Fisheries	Shrimp farming	1	Off	1			0	19		19	19	0	19
31.5.12	PF	Seed Production	Production of Inputs at site	Seed Production	1	Off	1	35	18	53	18	8	26	53	26	79
20.10.12	PF	Seed Production	Production of Inputs at site	Seed Production	1	Off	1	35	19	54	18	6	24	53	25	78
22.12.12	PF	Organic manures production	Production of Inputs at site	Organic manures production	1	Off	1	30	22	52	15	8	23	45	30	75
29.12.13	PF	Organic manures production	Production of Inputs at site	Organic manures production	1	Off	1	32	20	52	14	10	24	46	30	76
4.3.13	PF	Leadership development	Capacity Building and Group Dynamics	Leadership development	1	Off	1	28	3	31	4	1	5	32	4	36
15.3.13	PF	Group dynamics	Capacity Building and Group Dynamics	Group dynamics	1	Off	1	22	3	25	4	2	6	26	5	31
16.2.13	PF	Group dynamics	Capacity Building and Group Dynamics	Group dynamics	1	Off	1	25	4	29	4	0	4	29	4	33
26.2.13	PF	Formation and Management of SHGs	Capacity Building and Group Dynamics	Formation and Management of SHGs	1	Off	1	21	2	23	6	1	7	27	3	30
4.10.12	RY	Protected cultivation of vegetable crops	Horticulture	Protected cultivation of vegetable crops	1	Off	1	22	25	47	14	11	25	36	36	72
10.11.12	RY	Protected cultivation of vegetable crops	Horticulture	Protected cultivation of vegetable crops	1	Off	1	26	32	58	18	12	30	44	44	88
23.4.12	RY	Value addition	Home Science	Value addition	1	Off	1	0	14	14	0	20	20	0	34	34
2.5.12	RY	Value addition	Home Science	Value addition	1	Off	1	0	18	18		22	22	0	40	40
8.7.12	Ext. Func.	Productivity enhancement in field crops	Crop Production	Productivity enhancement in field crops	1	Off	1	32	0	32	4	0	4	36	0	36
25.10.12	Ext. Func.	Integrated Pest Management	Plant Protection	Integrated Pest Management	1	Off	1	31	0	31	8	0	8	39	0	39
	Ext. Func.			**TOTAL**			48	1428	594	2022	425	214	639	1853	808	2661

ANNEXURE – III

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 :- Integrated Pest Management
4) Thematic area :- Integrated Disease Management
5) Year of release of the technology or Year of assessment :- Year - 1999
6) Source of technology :- Oil seed research station, JAU, Jamnagar
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	Kalubhai Kalabhai	Lakhtar	1938
2	Rameshbhai Kanjibhai	Lakhtar	2056
3	Vijyaben Manshukhbhai	Vankiya	1625
4	Tejabhai Nathabhai Gadhiya	Manekpar	1344
5	Kagthra Kantibhai Punjabhai	Mansar	1375

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 Sucking pest
3) Title of the technology demonstrated :- Integrated Pest Management
4) Thematic area :- Integrated Pest Management
5) Year of release of the technology or Year of assessment :- Year - 1999
6) Source of technology :- Oil seed research station, JAU, Jamnagar
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	Bhimani Vashrambhai Arjanbhai	Vankiya	12.25
2	Baraiya Harsukhbhai Karsanbhai	Mansar	13.44
3	Keshubhai Babubhai Changani	Theba	15.31
4	Changani Bhavesh Jamanbhai	Theba	16.81
5	Gordhanbhai Valjibhai Gadhiya	Manekpar	13.25

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. Chick pea

1) Production system :-Irrigated
2) Problem Definition :-Low yield of chickpea
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	Dlsaniya Nareshbhai Bachubhai	Soyal	15.63
2	Dlsaniya Harsukhbhai Madhavajibhai	Soyal	17.50
3	Jayantilal Laljibhai	Kharva	17.19
4	Jayeshbhai Jadavajibhai	Kharva	15.31
5	Rameshbhai Dayabhai	Keshiya	16.25
6	Vijyaben Rameshbhai	Keshiya	18.75
7	Bhavji Ramji	Lakhtar	12.50
8	Gangarambhai Makanbhai	Lakhtar	22.50
9	Manojbhai Gangarambhai	Lakhtar	18.75
10	Sureshbhai Ganeshbhai	Nathu Vadla	16.25
11	Govindbhai Vashrambhai	Moti Gop	10.00
12	Nanjibhai Rudabhai	Moti Gop	18.75
13	Vijaybhai Bachubhai	Moti Gop	25.00
14	Hirabhai Anandbhai	Moti Gop	23.75
15	Rudabhai Vashrambhai	Moti Gop	26.25

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

4. Green gram

1) Production system :-Irrigated
2) Problem Definition :-Low yield of green gram
3) Title of the technology demonstrated :-Variety and integrated crop management
4) Thematic area :-Integrated Crop Management
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	Bhalodiya Shamjibhai Nagjibhai	Nathu Vadla	15.63
2	Bhalodiya Vallabhbhai N.	Nathu Vadla	12.81
3	Bhalodiya Amarshibhai Nagjibhai	Nathu Vadla	14.31
4	Patel Raghavajibhai N.	Nathu Vadla	12.81
5	Vagh Chanabhai Hirabhai	Verad	6.88
6	Vagh Amrabhai Munjabhai	Verad	7.81
7	Vagh Bhimabhai Munjabhai	Verad	6.44
8	Dalsaniya Amarshibhai Dhanjibhai	Keshiya	15.38
9	Dalsaniya Dharmendrabhai Kanjibhai	Lakhtar	15.56
10	Khureshi Hajraben Jumabhai	Luvasar	11.56

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.Cotton

1) Production system :-Rainfed
2) Problem Definition :-INM & IPM
3) Title of the technology demonstrated :-Integrated Crop Management
4) Thematic area :-Pest and Disease infestation
5) Year of release of the technology or Year of assessment :-Year - 2006
6) Source of technology :- Cotton 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	Bhimani Tarshibhai Varsharambhai	Vankiya	1156.25
2	Rameshbhai Ambabhai Bhimani	Vankiya	893.75
3	Devjibhai Pragjibhai Santoki	Vankiya	1318.75
4	Atulkumar Karmashibhai Bhimani	Vankiya	1088.75
5	Ashokbhai Thakarashibhai Gadhiya	Manekpar	731.25
6	Gadhiya Mohanbhai Vasharambhai	Manekpar	887.5
7	Ranchhodbhai Lakhamanbhai Barambhiya	Manekpar	945
8	Gadhiya Ghirajbhai Hansrajbhai	Manekpar	750
9	Amrutlal Kanjibhai Nagpara	Limbuda	2391.25
10	Sorthiya Sanatbhai Arajanbhai	Limbuda	1937.5
11	Gopalbhai Nathubhai Sorthiya	Limbuda	1431.25
12	Pitambarbhai Laljibhai Nagpara	Limbuda	1018.75

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	Nandasana Rameshbhai Kanjibhai	Limbuda	46.25
2	Nandasana Girdharbhai Kanjibhai	Limbuda	50.00
3	Kagathara Arvind Chhaganbhai	Nathu Vadla	25.00
4	Vasantbhai Hansrajbhai	Dhrol	33.75
5	Mansukhbhai Dhanjibhai	Soyal	48.75
6	Gadhiya Jaysukhbhai Mohanbhai	Mavapar	41.25
7	Vallabhbhai Karshanbhai	Mota Intala	40.00
8	Khureshi Ishabhai Lakhiyarbhai	Luvasar	22.50
9	Khureshi Sumarbhai Suvalibhai	Luvasar	21.25
10	Khureshi Lakhiyarbhai Jumabhai	Laloi	23.75
11	Umarbhai Kasambhai	Sakhpur	25.00
12	Ismailbhai Alarakhabhai	Luvasar	25.00
13	Ramoliya Arvindbhai K.	Vasantpur	58.75
14	Mohanbhai Karshanbhai	Vasantpur	37.50
15	Bhimani Dharshibhai motibhai	Anda	60.00
16	Raghavaji Ladhubhai	Anda	42.50
17	Zunza Laljibhai Ladhubhai	Anda	37.50
18	Bhimani Chhaganbhai Ravjibhai	Anda	36.25
19	Muriben Arjanbhai	Anda	31.25
20	Jyotsnaben Hasmukhbhai	Anda	37.50

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. Sorghum

1) Production system :-Rainfed
2) Problem Definition :- Low yield of Sorghum
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	Gadhiya Vallabhbhai Hansrajbhai	Manekpar	11250
2	Bhandery Tarshibhai Bhanjibhai	Manekpar	10625
3	Thakarshibhai Juthabhai Gadhiya	Manekpar	10250
4	Narshibhai Bhagvanjibhai Mungra	Dodhiya	10500
5	Ikbal Ibharam Khanpara	Jaga	11125
6	Jadeja pruthveeraj sinh D.	Jaga	10250
7	Lakhamanbhai Bhalabhai Thunga	Jaga	10125
8	Mahendrabhai R. Vachhani	Lalpur	11000
9	Mukeshbhai Popatbhai Vachhani	Lalpur	10625
10	Mahendrabhai B. Ghetiya	Lalpur	10375

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

8. 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	Jentilal Nathabhai	Soyal	9.81
2	Amrutlal Madhavajibhai	Soyal	9.19
3	Chikani Nandlal Shamjibhai	Nathu Vadla	10.63
4	Chikani Hansaben Nandlal	Nathu Vadla	10.00
5	Amarshibhai Dhanjibhai	Lakhtar	9.38
6	Ramoliya Govindbhai Karshanbhai	Vasantpur	6.88
7	Ramoliya Jayantilal Karshanbhai	Vasantpur	7.50
8	Sorathiya Arjanbhai Becharbhai	Limbuda	13.75
9	Gambhva Ramjibhai Vashrambhai	Limbuda	9.38
10	Gambhva Devshibhai Vashrambhai	Limbuda	10.00

11	Viramgama Rameshchandra Mohanbhai	Anda	15.00
12	Bhanderi Chhaganbhai Naranbhai	Anda	10.00

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
TRAINING CUM WORKSHOP ATTENDED BY KVK STAFF

Sr. No.	Period	Name of Officer	Place	Subject
1	12.6.2012 to 14.6.2012	Dr.K.P.Baraiya	NAU, Navsari	Annunal zonal workshop of KVK
2	8.8.12 to 9.8.12	Dr.K.P.Baraiya	JAU, Junagadh	Bimonthly workshop of Saurashtra
3	26.9.12 to 27.8.12	Dr.K.P.Baraiya	JAU, Junagadh	Ravi Purva Mosami Talim
4	23.10.12	Dr.K.P.Baraiya	DFRS, Thargahdia	17th ZREAC meeting
5	19.11.12 to 23.11.12	Dr.K.P.Baraiya	PAU, Ludhiana	National conference of KVK
6	31.1.13 to 2.2.12	Dr.K.P.Baraiya	DEE, JAU, Junagadh	Officers Training for KVK Staff
7	31.1.13 to 2.2.12	Dr. J. N. Thaker	DEE, JAU, Junagadh	Officers Training for KVK Staff
8	31.1.13 to 2.2.12	Dr. P. S. Gorfad	DEE, JAU, Junagadh	Officers Training for KVK Staff
9	8.2.13	Dr. G. M. Parmar	DFRS, Thargahdia	18th ZREAC meeting
10	20.2.13 to 21.2.13	Dr. K. P. Baraiya	JAU Junagadh	9th AGRESCO on Social Science
11	6.3.12 to 7.3.13	Dr. K. P. Baraiya	DEE, JAU, Junagadh	Bimonthly workshop of Saurashtra
12	6.3.12 to 7.3.13	Dr. K. L. Raghvani	DEE, JAU, Junagadh	Bimonthly workshop of Saurashtra
13	7.3.13 to 8.3.13	Dr. K. P. Baraiya	JAU Junagadh	9th AGRESCO on PPSC
14	7.3.13 to 8.3.13	Dr. K. L. Raghvani	JAU Junagadh	9th AGRESCO on PPSC

ACTION PLAN

(APRIL – 2013 TO MARCH – 2014)

It is proposed to organize 79 batches of training programmes for farmers, farmwomen, rural youth and extension functionaries during period from April 2013 to March 2014.

1. Training Programmes :

A.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, 2013)				
Crop Poduction	➢ Weed Management	1	25	Farmers
	➢ Integrated farming system	1	25	Farmers
	➢ Seed Production	1	25	Farmers
	➢ Organic Farming	1	25	Farmers
Soil health and fertility mangt.	➢ Soil testing and fertility management	1	25	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	1	25	Farmers
	➢ Diseases Management	1	25	Farmers
Home Science	➢ Income generation activities for empowerment of rural women	1	25	Rural women
Agril. Engineering	➢ Fertigation through micro irrigation system	1	25	Farmers
	➢ Use of Plastick mulch in farming practices	1	25	Farmers
Plant Protection	➢ Management of mealybug in cotton	1	25	Farmers
	➢ IPM in vegetable crops	1	25	Farmers
	➢ Seed treatment	1	25	Farmers
Fisheries	➢ Cage farming	1	25	Fishermen
Extension	➢ Leadership development	1	25	Farmers
II. Quarter : (1st July to 30th September, 2013)				
Crop production	➢ Water management through micro irrigation system	1	25	Farmers
	➢ Integrated crop management of chikori & ajwain	1	25	Farmers
	➢ Organic Farming	1	25	Farmers
Soil health and fertility mangt.	➢ Integrated Nutrient management	1	25	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	1	25	Farmers
	➢ Diseases Management	1	25	Farmers
Home science	➢ household food securities by kitchen gardening and nutrion gardening	1	25	Farm Women
Agril. Engineering	➢ Fertigation through micro irrigation system	1	25	Farmers
Plant protection	➢ Integrated pest management kharif major crops (G'nut, cotton, castor, sesamum)	1	25	Farmers
	➢ Pest management in vegetable crops	1	25	Farmers
	➢ Bio control of pest and disease of cotton	1	25	Farmers
Fishries	➢ Composite fish culture	1	25	Farmers
Extension	➢ Strengthing of selfhelp groups	1	25	Rural youth
III. Quarter (1st Oct to 31st Dec, 2013)				
Crop production	➢ Water management through micro irrigation system	1	25	Farmers
	➢ Weed management	1	25	Farmers
	➢ Seed Production	1	25	Farmers
	➢ Organic Farming	1	25	Farmers
Horticulture	➢ Production & Management practices of spices	1	25	Farmers

Soil health and fertility mangt.	➢ Nutrient use efficency	1	25	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	1	25	Farmers
Home Science	➢ Women and child care	1	25	Rural women
Agril. Engineering	➢ Fertigation through micro irrigation system	1	25	Farmers
	➢ Use of plastics mulch in farming practices	1	25	Farmers
Plant Protection	➢ Interated pest management in oil seed crops	1	25	Farmers
	➢ IDM in Cumin crop	1	25	Farmers
	➢ IPM in brinjal and chilli	1	25	Farmers
Fisheries	➢ Fresh water prawn farming	1	25	Fish farmers
Ext.Education	➢ Development of enerpreniurship among rural youths	1	25	Rural youth
IV. Quarter (1st Jan to 31st March, 2014)				
Crop Production	➢ Organic Farming	1	25	Farmers
Horticulture	➢ Protective cultivation (Green House, shed net etc.)	1	25	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	1	25	Farmers
Home science	➢ Value addition in agricultural production	1	25	Rural Girls
Agril. Engineering	➢ Fertigation through micro irrigation system	1	25	Farmers
	➢ Operation and maintance of MIS	1	25	Farmers
Plant protection	➢ Pest management of vegetable crops	1	25	Farmers
	➢ Seed treatment in summer crop	1	25	Farmers
	➢ Pest and disease management in cumin	1	25	Farmers
Fishries	➢ Crab fattening	1	25	Fish Farmers
Extension	➢ Leadership development among rural youths	1	25	rural youth

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, 2013)				
Crop Production	➢ Weed Management	1	50	Farmers
	➢ Integrated farming	1	50	Farmers
	➢ Water management through micro irrigation system	1	50	Farmers
	➢ Organic Farming	1	50	Farmers
Soil health and fertility mangt.	➢ Soil fertility management	1	50	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	1	50	Farmers
Home Science	➢ Value addition in mango	1	50	Rural Girls
	➢ Use of Solar cooker	1	50	Rural girls
Agril. Engineering	➢ Fertigation through micro irrigation system	1	50	Farmers
	➢ Use of Plastick mulch in farming practices	1	50	Farmers
Pl. Protection	➢ Integrated pest and disease management in field crops	1	50	Farmers
	➢ management of store grain pest in groundnut and pulse crop	1	50	Farmers
Fisheries	➢ Shrimp farming	1	50	Fish farmer
	➢ Cage farmining			Fisher men
Extension	➢ Leadership development among rural youths	1	50	Rural youth
II. Quarter : (1st July to 30th September, 2013)				
Crop production	➢ Water management through imcro irrigation system	1	50	Farmers

	➢ Organic Farming	1	50	Farmers
Soil health and fertility mangt.	➢ Integrated Nutrient management	1	50	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	1	50	Farmers
Home science	➢ women and child care	1	50	Farm Women
	➢ Location specific drudegry reduction technologies	1	50	Farm women
Agril. Engg.	➢ Fertigation through micro irrigation system	1	50	Farmers
Pl. Protection	➢ Management of sucking pest in cotton	1	50	Farmers
	➢ Management of diseases in Kharif crops	1	50	Farmers
	➢ IDM in cotton and sesame	1	50	Farmers
Fishries	➢ Composite fish culture	1	50	Fish farmers
	➢ Feed management in fish farming	1	50	Fish farmers
Extension	➢ Group dynamics	1	50	Farmers
III. Quarter (1st Oct to 31st Dec, 2013)				
Crop production	➢ Water management through micro irrigation system	1	50	Farmers
	➢ Weed management	1	50	Farmers
	➢ Seed Production	1	50	Farmers
	➢ Organic Farming	1	50	Farmers
Horticulture	➢ Production & Management practices of spices	1	50	Farmers
Soil health and fertility mangt.	➢ Nutrient use efficency	1	50	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	1	50	Farmers
Agril. Engg.	➢ Fertigation through micro irrigation system	1	50	Farmers
	➢ Use of plastics mulch in farming practices	1	50	Farmers
Home Science	➢ Rural crafts	1	50	Rural women
	➢ Value addition in fruits and vegetables through jam, jelly, catchup, pickles, etc.	1	50	Rural women
Pl. Protection	➢ Diesease and pest management in cumin and gram	1	50	Farmers
	➢ Management of pest in rabi crops	1	50	Farmers
	➢ IPM in gram and mustard crop	1	50	Farmers
Fisheries	➢ Sea weed farming ➢ Fresh water prawn farming	1	50	Fish Farmers Fish Farmers
Extension Education	➢ Capacity building of SHGs.	1	50	Rural youth
IV. Quarter (1st Jan to 31st March, 2014)				
Crop Production	➢ Recycling of Farm Waste material	1	50	Farmers
	➢ Organic Farming	1	50	Farmers
Horticulture	➢ Protective cultivation (Green House, shed net etc.)	1	50	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	1	50	Farmers
Home science	➢ Value addition in aonla and nutritive value	1	50	Rural women
Agril. Engineering	➢ Fertigation through micro irrigation system	1	50	Farmers
	➢ Operation and maintance of MIS	1	50	Farmers
Pl. Protection	➢ Integrated diseases management in gram and mustard crop	1	50	Farmers
	➢ Integrated disease management in cumin	1	50	Farmers
Fishries	➢ Crab fattaning	1	50	Fish farmers
Extension	➢ Leadership development among rural youth	1	50	Rural youth

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

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
		Quater					Quater					
		I	II	III	IV	Total	I	II	III	IV	Total	
1	Crop production	3	1	1	0	5	1	1	1	**0**	**3**	**8**
2	Soil Health and Fertility Management	1	1	1	0	3	1	1	1	0	3	**6**
3	Plant Protection	3	3	3	3	12	2	3	3	2	10	**22**
4	Fisheries	1	1	1	1	4	2	2	2	1	7	**11**
5	Extension Edu.	1	1	1	1	4	1	1	1	1	4	**8**
6	Horticulture	0	0	1	1	2	0	0	1	1	2	**4**
7	Home Science	1	1	1	1	4	2	2	2	1	7	**11**
8	Agri engineering	0	0	1	1	2	0	0	1	1	2	**4**
	Animal Science	0	0	0	0	0	0	0	0	0	0	**0**
	Total	**10**	**8**	**10**	**8**	**36**	**9**	**10**	**12**	**7**	**38**	**74**

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
Oilseeds					
1	Groundnut	GG-20	IPM (Pod borer)	10	4
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-905	To test yield potentiality of pearl millet	20	8
4	Cotton		INM & IPM	25	10
5	Brinjal		IPM	5	2
6	Chilli		IPM	5	2
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
7.	Solar cooker (Box Type)	-	Popularization of alternate use of solar energy	5	5
			Total	**150**	**104**

3. ON FARM TESTING (OFTs)

OFT-1

Title : Law yield of groundnut due to yellowing

Objective : To reduce problem of yellowing in groudnut

Treatments :

1. Un balanced use of fertilizer (21 N - 69 P_2O_5 - 0 K_2O). ***(Farmers Practices).***
2. Recommended dose of fertilizer (25 N - 50 P_2O_5 - 0 K_2O) + $FeSO_4$ @ 100 g/10 lit of water along with citric acid. ***(*Recommendationed practices*).***
3. Recommended dose of fertilizer (25 N - 50 P_2O_5 - 0 K_2O) + $ZnSO_4$ @ 20 kg/ha as a basal dose and three spay of multi mix micro nutrient @ 30 g/10 lit of water at 30, 45 and 60 days after germination. **(Refinement)**.

No. of Replication :- 3 (Farmers)

Observations :-

1. Record per cent plant yellowing from each plot
2. Yield data.

OFT-2

Title : Application of *Trichoderma* against wilt disease in cumin

Objective : Application of biological control agent *Trichoderma* for managing the disease problem in cumin.

Treatments :

1. No use of trichoderma or fungicide at the time of sowing. But they use fungicides *viz.,* carbendazim, hexaconazole, difenconazole, fosetyl-AL, tebuconazole, proticonazole, tridemorph, etc after of initiation of diseases. ***(Farmers Practices).***
2. Application of *Trichoderma* @ 2.5 kg/ha with castor cake @ 500 kg/ha at the time of sowing with the help of multi purpose seed drill. ***(*Recommendationed practices*).***
3. Application of *Trichoderma* @ 2.5 kg/ha along with compost or castor cake 500 kg/ha at the time of sowing and second applicaton with compost/ castor cake at 15 days after germination. **(Refinement)**.

No. of Replication :- 3 (Farmers)

Observations :-

1. Record population at 30, 40 and 50 days after germination
2. Record per cent plant infestation within 1x1 m^2 quadrate from each plot
3. Record yield per hectare.

OFT-3

Title : Management of sucking pests in Okra.

Objective: To minimize the sucking pest in cotton.

Treatments :

1. Un judicious of insecticides (Spray insecticides at weekly interval) **(Farmers practices)**
2. Use of biopesticides (*Beauveria bassiana*@ 5 g/lit of water) **(Recommendationed practices)**
3. Alternate spray of Bearuveria bassiana @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval **(Refinement - 1)**
4. Seed treatment with thiomethoxam 30% FS @ 6 ml/kg seed followed by folior application of *Beuveria bassiana* at 15 days interval starting from 30 days after sowing. **(Refinement - 2)**

No. of Replication :- 3 (Farmers)

Observations :-

1. Record pest population from 1x1 m^2 quadrate from each plot at 7 days after spray
2. Record yield at every picking.
3. Record yellow vein mosaic.

OFT- 4

Title :- Comparison of solar cooker with traditional cooking system

Items:-

1. Murbba,
2. sweet potato,
3. sweet corn,
4. Salted -Roasted groundnut

Objective:-

1. To improve quality of Prepared items
2. To reduce drudgery of farm women
3. To reduce time and fuel consumption

Treatment: - Item no. 1

1. Preparation by traditional method
2. preparation by sunlight heat
3. preparation by solar cooker

Treatment: - Item no. 2-4

1. Preparation by traditional method
2. Preparation by roasting
3. Preparation by solar cooker

No. of Replications: - 4

Observations:-

1. Time consumption
2. Fuel consumption
3. Movement
4. Cost saving
5. Organo laptic test
   a. Colour
   b. Texture,
   c. Test
   d. Consistency
   e. Overall acceptance
6. Keeping quality

4. Extension Activities:

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