ANNUAL PROGRESS REPORT-2013-14

(APRIL - 2013 TO MARCH-2014)

&

ACTION PLAN

(APRIL - 2014 TO MARCH-2015)

OF

KRISHI VIGYAN KENDRA JAMNAGAR

TO BE PRESENTED AT
ANNUAL ZONAL WORKSHOP OF ZONE-VI
(Rajasthan & Gujarat)
HELD AT SDAU, SARDAR KRISHINAGAR
DURING 24th TO 26th MAY, 2014

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

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

CONTENT

ANNUAL PROGRESS REPORT-2013-14

(1st APRIL - 2013 TO 31st MARCH-2014)

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. (0281) 2584848	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, 2014)

Sl. No.	Sanctioned post	Name of the incumbent	Desig-nation	Discipline	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	37400-67000	57680	02.02.1979	Temp	OBC
2	Subject Matter Specialist	Vaccant		Crop Production	15600-39100	-	-	-	-
3	Subject Matter Specialist	Dr. K.P. Baraiya	SMS	Plant Protection	15600-39100	20590	17.8.2006	Temp	Other
4	Subject Matter Specialist	Vaccant	SMS	Horti.	15600-39100	-	-	-	-
5	Subject Matter Specialist	Shri P. S. Gorfad	SMS	Extension Education	15600-39100	21810	27.6.1994	Temp.	OBC
6	Subject Matter Specialist	Dr. J. N. Thaker	SMS	Fisheries	15600-39100	20590	31.08.2006	Temp.	Other

7	Subject Matter Specialist	Smt. A. K. Baraiya	SMS	Home Science	15600-39100	15600	17.08.2006	Temp.	Other
8	Farm Manager	Shri S. N. Galani	Prog. Asstt.	Pl. Breeding	9300-34800	10000	14.2.2012	Fix Pay	Other
9	Computer Programmer	Shri C. P. Padhiyar	Prog. Asstt.	Computer Operator	9300-34800	10810	29.12.2008	Temp	Other
10	Programme Assistant	Vaccant	Prog. Asstt.		9300-34800				
11	Accountant / Superintendent	Shri. K.G. Dhaduk	Sr. Clerk	Adm.	9300-34800	9300	12.6.2008	Temp.	Other
12	Stenographer	Kum. B. N. Dave	Jr. Clerk	Adm.	5200-20200	5300	11.06.2008	Fix	Other
13	Driver	Vacant	Driver	Supt.	5200-20200	-	-	-	-
14	Driver	Shri. D.M. Chauhan	Driver	Supt. (Fix)	5200-20200	6070	9.10.2007	Temp.	S. T.
15	Supporting staff	Shri A. H. Khureshi	Peon	Supt.	4440-7440	9120		Temp.	
16	Supporting staff	Shri P. S. Damor	Peon	Supt.	4440-7440	4800	1.09.2006	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 (GJ-10G 433)	2004	490200	357651	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 G-433)	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
EPBX System	2012	44000	Working
Vertical Autoclave	2012	78190	Working
Laminar Airflow	2012	127440	Working
Electronic Balance (200 gm)	2012	12600	Working
EC/ Conductivity meter	2012	6300	Working
Portable pH Meter	2012	6300	Working
Compound microscope	2012	4410	Working
Trinocular microscope	2012	112000	Working
Digital temperature & humidity indicator cum controller	2012	34750	Working
Digital TDS meter	2012	3985	Working
Research centrifuse with accesaries	2012	42480	Working

Stabilizer	2012	10440	Working
Hot air oven	2012	41580	Working
BOD incubator	2012	46305	Working
Digital camera SLR (Canon)	2012	44750	Working
AC 1.5 tonn	2012	45990	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	-	-
9.	02.04.2013	37	-	-
10.	27.12.2013	26	As below	As below

The Tenth Scientific Advisory Committee meeting of Krishi Vigyan Kendra, JAU, Jamnagar was held at Training Hall, Krishi Vigyan Kendra, JAU, Jamnagar on 27th December, 2013.

Committee made the following recommendations after active interaction.

Sl. No.	Salient Recommendations	Action Taken
1.	Dr. N. C. Patel, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh & Chairman of the SAC suggested that the presentation should be in local language and also prepare report in Gujarati for farmers; it should be reach to the members before one week. He also advice to made generator facility in training hall and proper arrangement of sound system. He also noted to develop museum at KVK. He also advice to arrange training programme on awareness regarding malnutrition in farm women and children & nutritional balance diet. He gives emphasis on fish farming, vocational training on ornamental fish, fish preservation & value addition. He advice to recast the training title of fisheries with the help of Dr. P.C. Malli, Assistant Director of Fisheries, Jamnagar and Shri N. G. Akolkar, Research Officer, Fisheries Research Station Okha. He also suggested to change training title regarding extension discipline.	Suggestation accepted and implemented
2.	Dr. A. M. Parakhia, Director of Extension Education, JAU, Junagadh stated that training on method of soil sampling, soil fertility management and green manuring should be included in action plan.	Suggestation accepted and implemented

	He suggested to kept soil & water analysis laboratory in working condition. He noted to participate jointly in animal camp organized by Department of Animal Husbandry. He also suggested organizing training on animal husbandry to develop entrepreneurship. He suggested that FLD should be conducted on vegetable varieties released by JAU.	
3.	Dr. K. N. Akbari, Associate Director of Research (North Saurashtra Agro-climatic Zone) and Research Scientist (DF), Dry Farming Research Station, JAU, Targhadia suggested to organize training on repairs and maintenance of micro irrigation system should arrange during third quarter.	Suggestation accepted and implemented
4.	Dr. P. C. Malli, Assistant Director of Fisheries, Jamnagar suggested to organize training on importance and techniques of cage culture during first quarter. He also suggested to organize vocational training for rural youth on rearing and production of ornamental fish and fish feed.	Suggestation accepted and implemented
5	Shri N. G. Akolkar, Research Officer, Fisheries Research Station, Okha suggested to arrange training on composite fish culture during second quarter. He also suggested to organize training on sea weed culture collection and preparation of sea weed fertilizer.	Suggestation accepted and implemented
6	Shri Kantila B. Ajudia, a progressive farmer suggested to organize more umber of training on drip and sprinkler irrigation.	Suggestation accepted and implemented
7	Shri Hirabhai Nakum, a progressive farmer suggested to arrange training on food processing and value addition.	Suggestation accepted and implemented

- 10^{th} SAC proceedings along with list of participants in Annexure – I.

2. DETAILS OF DISTRICT (2013-14)

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

Sr. No.	Farming system/enterprise
1	Groundnut-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

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-13 to March-14)

Week No	Temp. C°		R.H.%		WS	BSS	Eo	Rain	Rainy
	Max	Min	I	II	(kmph)	(hrs)	(mm)	(mm)	Days
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	5.3		
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		
14-A	33.8	20.6	80	38	10.0	10.7	9.5		
15	34.4	22.7	85	40	10.4	9.4	9.8		
16	35.9	24.3	83	50	11.9	10.1	10.4		
17	36.3	24.6	79	42	10.6	10.0	10.1		
18	36.8	25.0	82	43	13.3	11.3	10.3		
19-M	36.5	24.6	83	41	13.2	10.6	10.0		
20	37.3	26.1	84	46	14.1	11.0	10.0		
21	36.6	27.4	81	50	17.2	11.2	9.9		
22	35.8	27.9	75	52	15.1	11.4	9.4		
23-J	36.7	27.0	82	58	8.5	8.0	5.8	40.5	2
24	33.8	26.4	90	73	7.0	3.8	3.0	278.5	5
25	34.1	26.7	86	57	10.5	7.1	4.6	3.0	1
26	34.7	26.9	82	66	11.4	4.3	4.5	7.5	1
27-J	33.0	26.8	85	81	12.3	2.5	4.5	14.5	2
28	30.9	25.4	94	77	11.0	1.6	3.5	143.5	4
29	31.2	25.8	92	78	10.3	2.4	3.7	31.0	4
30	30.5	25.9	92	82	9.1	0.4	3.7	24.5	2
31	29.4	24.7	95	83	8.1	0.3	2.9	85.0	2
32-A	30.6	24.7	93	82	7.6	3.3	3.1	36.5	5
33	30.6	25.0	91	76	7.6	2.5	3.3	16.0	3
34	31.8	24.5	85	67	9.5	6.7	3.9		
35	32.1	23.8	88	63	6.2	5.2	3.9	1.0	
36-S	32.3	23.5	89	64	6.3	7.1	4.1	10.5	1
37	34.7	25.5	85	55	4.8	8.3	5.0		
38	32.9	26.1	84	67	10.7	7.7	5.0	1.0	
39	29.7	24.6	95	81	11.8	2.6	2.7	432.5	5
40-O	32.9	25.5	93	72	5.2	7.7	4.1	3.5	1
41	31.7	24.6	92	66	3.0	7.5	3.6	80.0	2
42	33.8	23.7	93	56	2.6	9.6	4.1		
43	33.6	20.4	79	39	3.3	9.8	4.4		
44	32.6	19.8	87	41	2.0	9.8	4.1		
45-N	31.5	19.1	72	38	3.9	8.8	4.4		
46	29.6	15.4	66	33	4.0	9.2	4.9		
47	30.4	14.4	81	44	3.2	9.4	4.7		
48	30.3	15.3	81	36	3.5	9.2	4.8		
49-D	28.9	14.0	86	40	3.0	9.1	4.4		
50	28.2	13.0	89	41	2.5	8.8	4.4		
51	27.1	13.4	77	38	3.2	8.5	4.5		
52	24.3	11.5	63	30	5.8	8.6	4.5		
1-J	23.2	10.2	78	28	6.1	7.9	4.3		
2	24.1	11.2	73	35	6.7	8.7	4.2		
3	24.7	10.2	84	35	4.6	8.9	4.1		
4	25.8	13.3	74	42	6.0	8.6	4.7		
5	29.3	12.9	84	39	3.2	9.0	4.7		
6-F	27.2	13.1	90	38	5.0	9.5	4.4		
7	26.7	12.0	76	31	6.0	9.9	4.8		
8	28.7	15.1	75	36	6.7	8.7	4.7		
9	29.3	12.8	80	24	5.2	9.5	5.0		
10-M	32.7	17.8	72	28	6.0	9.5	6.2		
11	33.0	17.7	61	28	7.3	9.7	7.5		
12	32.4	18.3	91	36	7.6	9.8	7.3		
13	33.0	20.7	87	40	8.4	10.0	7.5		
Mean	31.13	19.47	81.28	46.60	7.36	8.10	5.54		
Highest	37.3	27.9	95	83	17.2	11.4	10.4		
Lowest	23.2	7.4	55	22	2	0.3	2.7		

* 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, cumin, mustard, Vegetable, Soyabean, flowers, live stock	Heavy infestation of sucking pest in cotton, stem rot disease in Groundnut, Root rot in castor, Less area under horticulture crops, Blight in cumin, salinity	- ICM in major crops of the district - Introudction of new crop - Recycling of farm waste - Populirization of MIS - Motivation of fishries cultivation - Soil Reclamation - Farm women empowerment - Farm mechanization
2	Dhrol	Nathuvadala, Soyal, Vankiya, Manekpar, Nana garadiya, mavapar			
3	Jamjodhpur	Kalyanpar, Udaipur, Kadbal, Vasantpar, Dhanuda, Gorkhadi			

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 2013-14

OFT				
	Number of OFTs		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
Groundnut	1	1	3	3
Okra	1	1	3	3
Home Science	1	1	15	15
Cumin	1	1	3	3
Fisheries	1	Nil	3	Nil

FLD	**Area of FLD (ha)**		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
***Kharif* -2013-14**				
Groundnut (Pod borer)	4	4	10	10
Green gram	4	4	10	10
Cotton	10	10	25	25
Groundnut (Trichoderma)	2	2	5	5
Groundnut (NPV)	2	2	5	5
Pearl Millet	8	8	20	20
Brinjal	2	2	5	5
Chilli	2	2	5	5
Total	**34**	**34**	**85**	**85**
Rabi-2013-14				
Wheat	10	9.5	20	19
Cumin	4	4	10	10
Chickpea	6	6	15	15
Farm Implementing	35	35	35	35
Total	**55**	**54.5**	**80**	**79**
Grand Total	**89**	**88.5**	**165**	**164**

FLD conducting other than KVK Scheme during					
		Area of FLDs (Ha)		**Number of Farmers**	
Scheme	**Crops**	**Targets**	**Achievement**	**Targets**	**Achievement**
Rabi – 2013-14					
Seed Village Scheme	Wheat	81	81	405	405
	Cumin	272.67	272.67	1364	1364
	Chickpea	62.33	62.33	374	374
	Coriander	44.4	44.4	178	178
	Garlic	2.43	2.43	13	13
	Groundnut	19	19	95	95
	Total	**481.83**	**481.83**	**2429**	**2429**
ATIC					
	Wheat ($ZnSO_4$)	**2**	**2**	**5**	**5**
	Chickpea (GJG-3)	**2**	**2**	**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	74	120		5850	-	-	-	-
Rural youth	2	4		121				
Extn.Functionaries	2	3		71				
Total	**78**	**127**		**6042**	**-**	**-**	**-**	**-**

Seed Production (Kg.)		**Planting material (Nos.)**	
5		**6**	
Target	**Achievement**	**Target**	**Achievement**
	2390 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-538
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	Componen ts

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 :- GROUNDNUT

1) Title :- Law yield of groundnut due to yellowing

2) Problem definition: Cost increase due to unjudicious use of fertilizer

1. Farmers are using phosphatic fertilizer as basal as well as top dressing.
2. Improper variety selection
3. High labour charges
4. Lack of proper practices knowledge
5. Plant stand per hectare
6. Monocropping
7. Continuous cropping system having no rest for soil and no soil solarization.
8. Lack of soil reclamation
9. Water quality is poor

10. Long duration crops
11. Injudicious use of fertilizers
12. Injudicious use of pesticides
13. Lack of disease management
14. Scheduling of irrigation

3) Details of technologies selected for assessment/ refinement

Category	Source of technology	Technology detail		
Technology option 1	Farmer	T_1	Farmer practices	Un balanced use of fertilizer (27 N - 69 P_2O_5 - 0 K_2O)
Technology option 2	SAU	T_2	Reco. practices	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.
Technology option 3		T_3	Refined practices	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.

4) Source of Technologoy :- Junagadh Agricultural Univiersity

5) Production system and thematic area :

- Irrigated crop with Integrated Crop Management
- Balance fertilization in Groundnut,

6) 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 [Yield (q/ha), per cent plant yellowing from each plot]					
			T_1		T_2		T_3	
			% Plant Yellowing	Yield	% Plant Yellowing	Yield	% Plant Yellowing	Yield
1	Sharadbhai Maganbhai Bhalala	Kalyanpur	32	20	12	24	4	31
2	Jentibhai Savjibhai Sapariya	Manpar	39	18	11	29	5	27
3	Jashmatbhai Nathabhai Gopani	Mavapar	43	16	13	28	3	32
		Average	**38**	**18**	**12**	**27**	**4**	**30**

8) Final recommendation for micro level situation : 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 having highest non significant yield with farmers practices.

9) Constraints identified and feedback for research:

- High incidence of sucking pests and spodoptera
- Yield increase as compare to farmers' practices.
- Soil born fungus,
- Highly related with high moisture & temperature.
- Reduce stem rot diseases
- Yield increase compare to control plot
- Good and bigger quality of pods

10) Process of farmers participation and their reaction: Farmers have good response and they have support for OFT. Recommended application of the fertilizer having low incidence of insect-pests attack as well as disease. And highest yield found in refinement treatment. 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*	Technolo gy Assessed	Parameters of assessment	Data on the parameter Q/ha	
1	2	3	4	5	6	7	8	
Ground nut	Irri-gated	INM	Law yield of groundnut due to yellowing	3	Use of balance fertilizer s	Per cent plant yellowing from each plot and yield (kg/ha)	T_1	18
							T_2	27
							T_3	30

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Groundnut	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 was found higher pod and fodder yield	Farmers have good response and they have support for OFT. Recommended application of the fertilizer having low incidence of insect-pests attack as well as disease. And highest yield found in refinement treatment. They satisfied with this trial.	(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	Mono cropping system & less availability of FYM

Crop/ enterprise	**Technology Assessed / Refined**	***Production kg/ha**	**Input cost Rs./ha**	**Gross return Rs./ha (Rate 47.50/kg**	**Net Return (Profit) in Rs. / ha**	**BC Ratio (* only OFT input cost base)**
1	**13**	**14**			**15**	**16**
Groundnut	T_1 - Farmers practices:- Un balanced use of fertilizer (27 N - 69 P_2O_5 - 0 K_2O)	1800	16000	85500	69500	4.34
	T_2 - Improved Practice:- 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	2700	17950	128250	110300	6.14
	T_3 - Refined Practices:- 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	3000	18500	142500	124000	6.70

<u>OFT – 2:- CUMIN</u> :

1) Title :- Application of *Trichoderma* against wilt disease in cumin

2) Problem definition :

- Low plant population
- Severe Disease problems
- High dew frost
- Heavy irrigation used for long time
- Lack of knowledge for use of recommended control measure

3) Detalis fo technologies for assessment/ ferinement

Category	Source of technology	Technologoy details		
Technology option 1	Farmer	T_1	Farmer practices	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.
Technology option 2	Department of Plant Pathology, JAU, Junagadh	T_2	Reco. practices	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.
Technology option 3		T_3	Refined practices	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.

4) Source of Technology:- Junagadh Agricultural University

5) Production system : Irrigated, rabi crop, Integrated disease management

6) Thematic area : Management of wilt diseases of cumin

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

Farmer No	**Name of the farmer**	**Name of the Village**	**Data on the performance indicators of the technology assessed / refined**					
			Technology Option 1		**Technology Option 2**		**Technology Option 3**	
			% Plant infestation	Yield (q/ha)	% Plant infestation	Yield (q/ha)	% Plant infestation	Yield (q/ha)
1	Sanghani Ashok Jamanbhai	Kalyanpur	53	9.4	20	12.3	9.3	13.9
2	Ranipa Nanji Damjibhai	Vankiya	42	10.1	14	13.8	2	15.2
3	Rola Vitthal Samatbhai	Dungarani Devaliya	58	9.3	17	13.2	7.6	14.4
		Average	**51**	**9.6**	**17**	**13.1**	**6.3**	**14.5**

8) Final recommendation for micro level situation: Concluded after completion of the OFT

9) Constraints identified and feedback for research :

10) Process of farmers participation and their reaction:

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technology Assessed	Parameters of assessment	Data on the parameter (kg/ha)	
1	2	3	4	5	6	7	8	
Cumin	Irrigated	cumin wilt	Application of *Trichoderma* against wilt disease in cumin	3	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.	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.	T_1	9.6
							T_2	13.1
							T_3	14.5

Crop/ enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
Cumin	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.	It is very helpfull for reducing the infestation of wild if trichoderma is apply at sowing time and 15 days after germination	Multiple application of *Trichoderma* is very helpfull for soilborne pathogen for wilt disease.	Refinement treatment increase yield 51.04 % and 10.69 % with farmer practices and recommendation, respectively.

Crop/ enterprise	Technology Assessed / Refined	*Production kg/ha	Input cost Rs./ha	Gross return Rs./ha	Net Return (Profit) in Rs. / ha	BC Ratio (* only OFT input cost base)
1	**13**	**14**			**15**	**16**
Cumin	T_1	960	25680	86400	60720	2.36
	T_2	1310	23500	117900	94400	4.02
	T_3	1450	23000	130500	107500	4.67

OFT – 3 :- OKRA

1) Title: - Management of sucking pest in okra

2) Problem diagnose/ definition:

- Heavy incidence of jassid, thrips, mite found
- Yellowing of leaf and early maturity of okra plants due to heavy incidence of sucking pest
- 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	Un judicious of insecticides (Spray insecticides at weekly interval)
Technology option 2	SAU	T_2	Reco. practices	Use of biopesticides (*Beauveria bassiana*@ 5 g/lit of water)
Technology option 3		T_3	Refined practices 1	Alternate spray of Bearuveria bassiana @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval
Technology option 4		T_4	Refined practices 2	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.

4) Source of technology: Junagadh Agricultural University

5) Production system: Irrigated crop with Integrated Crop 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/ha), No. of sucking pests per 1x1 m^2 quadrate]																			
			T_1					T_2					T_3					T_4				
			J	T	W	M	Y	J	T	W	M	Y	J	T	W	M	Y	J	T	W	M	Y
1	Vejanand Karnabhai Chavda	Korala	12	7	15	5	52	8	8	7	12	54	2	3	2	2	65	5	3	3	3	62
2	Ambabhai Nanjibhai	Khoja Beraja	13	6	13	4	48	7	9	6	9	52	2	2	1	3	60	4	3	3	4	58

	Bhanderi																					
3	Parbat Vajshi Chavda	Korada	10	6	17	7	53	8	7	8	10	53	1	2	2	2	64	4	3	2	4	60
		Average	**11.7**	**6.33**	**15**	**5.33**	**51**	**7.67**	**8**	**7**	**10.3**	**53**	**1.67**	**2.33**	**1.67**	**2.33**	**63**	**4.33**	**3**	**2.67**	**3.67**	**60**

N.B.:- J=Jassid, T=Thrips, W=Whitefly, M=Mite and Y=Yield (Yellow vein mosaic was not foudn in any plot)

8) Final recommendation for micro level situation: Alternate spray of Bearuveria bassiana @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval reduced sucking pest population and remain higher in yield.

9) Constraints identified and feedback for research:

- Lack of knowledge about bio-control product
- Lack of pest identification
- No knowledge about the use of particular pesticides 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 insecticides
- 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	Technology Assessed	Parameters of assessment	Data on the parameter (Yield Q/ha)	
1	2	3	4	5	6	7	8	
Okra	Rainfed farming	Incidence sucking pest in okra	Management of sucking pest in okra	3	Management of sucking pest in okra	Yield (q/ha), No. of sucking pests on three leaves per 1x1 m^2 quadrate	T_1	51
							T_2	53
							T_3	63
							T_4	60

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Okra	Alternate spray of *Bearuveria bassiana* @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval reduced sucking pest population and remain higher in yield.	T3 is very effective for longer period, and also low residue effect	Use of new, old and bio control agent	Refinement treatment increase yield 23.53, 18.87 and 5.0 % with T_1, T_2 and T_4, respectively.

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**
Okra	T_1	Farmer practices	5100	33000	91800	58800	1.78
	T_2	Reco. practices	5300	28400	106000	77600	2.73
	T_3	Refined practices 1	6300	29200	126000	96800	3.32
	T_4	Refined practices 2	6000	29000	120000	91000	3.14

N.B.:- Average Rs.20/kg of okra were calculated

OFT – 4 :- HOME SCIENCE :

1) Title :- Comparison of solar cooker with traditional cooking system

2) Problem definition:

1. High cost of fuel (gas).
2. Non availability of fire wood due to deforestation
3. Lack of knowledge about value addition of farm produce
4. Lack of skill for cooking
5. Parasibility of food products
6. Lack of proper practices knowledge
7. Time consuming process

3) Details of technologies selected for assessment/ refinement

3.1) Mango murbba

Category	Source of technology	Technology detail		
Technology option 1	Farmer	T_1	Farmer practices	Preparation by traditional method (Chula/Gas)
Technology option 2	SAU	T_2	Reco. practices	Preparation by sunlight heat (Sun drying)
Technology option 3		T_3	Refined practices	Preparation by solar cooker

3.2) Sweet potato, sweet corn and roasted & salted groundnut seed

Category	Source of technology	Technology detail		
Technology option 1	Farmer	T_1	Farmer practices	Preparation by traditional method (Chulha)
Technology option 2	SAU	T_2	Reco. practices	Preparation by sunlight heat (LPG Gas)
Technology option 3		T_3	Refined practices	Preparation by solar cooker

4) Source of Technology :- State Agricultural University

5) Production system and thematic area :

- **(Mango murbba)** :- Preparation of murbba from unripe mango. Mango slices in small pieces and add same quantity of sugar in it. One tea spoon turmeric, and garam masala. Then cook it with above three method.
- **(Sweet Potato/ Sweet corn)**:- Take a pan and put the sweet potato/sweet corn in it and fill up water up to deep level, add salt as per required quantity.
- **(Roasted & salted groundnut)** :- Take 1 kg of groundnut seed kernels and pored into water, add required quantity of salt and kept for 30 minutes. Then all dry it on paper or cloth. After 2-3 hours drying proceed with above three method for roast it.
- Data recorded on time of consumption, fuel consumption, cost saving, keeping quality and organolactic test *viz*., colour, taste (sweetness), texture, consistency, overall acceptance etc.

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

6.1 Mango murbba

Farmer No. for OFT	Total No. of Farmers for OLT	Name of Village	Data on Performance indicator of the technology assessed/ refined				
			Sr. No.	Data/Observation on performance indicator	T_1 Traditional Method	T_2 Sunlight Heat	T_3 Solar Cooker
4	36	Soyal	1	Time Consumption	45 Min.	32 hrs	7.5 hrs
		Ananda	2	Fuel consu-mption	67.5 g gas	0	0
			3	Cost saving (Rs.)	21.42	32.89	0.00
			4	Organo Laptic Test			
				Colour	3.14	4.39	6.78
				Texture	4.03	5.19	5.03
				Taste	3.06	4.83	5.00

				Consistency	3.17	5.00	5.36
				Overall acceptance			√
			5	Keeping quality	240	240	240

6.2 Sweet Potato

Farmer No. for OFT	Total No. of Farmers for OLT	Name of Village	Data on Performance indicator of the technology assessed/ refined				
			Sr. No.	Data/Observation on performance indicator	T_1 Traditional Method	T_2 Sunlight Heat	T_3 Solar Cooker
4	36	Soyal	1	Time Consumption	30	60	105
		Ananda	2	Fuel consu-mption	2 kg fire wood	90 gm gas	0
			3	Cost saving (Rs.)	64.58	87.70	0.00
			4	Organo Laptic Test			
				Taste	4.08	5.14	6.11
				Consistency	3.11	4.97	6.14
				Overall acceptance	0	0	√

6.3 Sweet Corn

Farmer No. for OFT	Total No. of Farmers for OLT	Name of Village	Data on Performance indicator of the technology assessed/ refined				
			Sr. No.	Data/Observation on performance indicator	T_1 Traditional Method	T_2 Sunlight Heat	T_3 Solar Cooker
4	36	Soyal	1	Time Consumption	20 Min	30 Min	90 Min
		Ananda	2	Fuel consu-mption	1.5 kg fire wood	45 gm gas	0
			3	Cost saving (Rs.)	45.83	43.87	0.00
			4	Organo Laptic Test			
				Taste	4.94	5.11	6.08
				Consistency	3.06	4.94	6.17
				Overall acceptance	0	0	√

6.4 Khari Sing

Farmer No. for OFT	Total No. of Farmers for OLT	Name of Village	Data on Performance indicator of the technology assessed/ refined				
			Sr. No.	Data/Observation on performance indicator	T_1 Traditional Method	T_2 Sunlight Heat	T_3 Solar Cooker
4	36	Soyal	1	Time Consumption	40 Min	60 Min	240 Min
		Ananda	2	Fuel consu-mption	3 kg fire wood	90 gm	0
			3	Cost saving (Rs.)	26.19	25.06	0.00
			4	Organo Laptic Test			
				Taste	4.03	5.22	6.03
				Consistency	3.11	5.14	6.06
				Overall acceptance	0	0	√

8) Final recommendation for micro level situation : Mango murba, sweet corn, sweet potato and khari sing prepared with solar cooker was found higher acceptibility.

9) Constraints identified and feedback for research:

- High time consuming and movement is reuired in sun drying method and solar cooker.

10) Process of farmers participation and their reaction: Refinemenent treatment of solar cooker found low time consumption and fule less with lower movement as compare to farmers practices and sundrying method. There is no any change in keeping quality. Both the treatment sundrying and solar cooker found also cost less. Organolactic test having higher percentage for solar cooker. 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*	Technolo gy Assessed	Parameters of assessment	Data on the parameter (per cent overll acceptance	
1	2	3	4	5	6	7	8	
Solar cooker	Murbba, sweet potato sweet corn, khari sing	Energy consum ption	Comparison of solar cooker with traditional cooking system	4	Solalr cooker	time of consumption, fuel consumption, cost saving, keeping quality and organolactic test *viz*., colour, taste (sweetness), texture, consistency, overall acceptance etc.	T_1	-
							T_2	-
							T_3	√

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Solar cooker	Refinemenent treatment of solar cooker found low time consumption and fule less (cost saving) with lower movement as compare to farmers practices and sundrying method. There is no any change in keeping quality. Solar cooker is accepted in all the	Farm women having accepted solar cooker and it is very testy in organo lactic test. Overall acceptance is also high of solar cooker iin all product preparation.	Use of solar cooker	

Crop/ enter prise	**Technology Assessed / Refined**	***Prod uction kg/ha**	**Input cost Rs./ha**				**Gross return Rs./ha (Rate 47.50/kg**	**Net Return (Profit) in Rs. / ha**	**BC Ratio (* only OFT input cost base)**
			Murb ba	**Sweet potato**	**sweet corn**	**khari sing**			
1	**13**	**14**	**15**				**16**	**17**	**18**
Solar cooke r	T_1 - Farmers practices:- Preparation by traditional method (Chula/Gas)		138	49.4	43.8	133			
	T_2 - Improved Practice:- Preparation by sunlight heat (Sun drying)		152	56.3	43.2	131			
	T_3 - Refined Practices:- Preparation by solar cooker		114	30	30	105			

OFT – 5 :- FISHERIES

Title : Growth retardation due to over stocking of fish species in ponds/reservoirs.

The OFT could not be proforme due to late heavy rainfall and stocked seed material washed out due to overflow of pond and seed material was not available thereafter.

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 2013-14 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
	Kharif						
1	Groundnut	IPM	IPM (Pod borer)	Field days, Radio talk, Training and TV Progarme and demonstration	2	10	4
2	Green Gram	Variety	Variety	"	7	10	4
3	Cotton	IPM and INM	IPM and INM	"	4	25	10
4	G'nut (Trichoderma)	IDM	IDM	"	1	5	2
5	G'nut (NPV)	IPM	IPM	"	1	5	2
6	Pearl Millet	Varietal	Varietal	"	5	20	8
7	Brinjal	IPM	IPM	"	3	5	2
8	Chilli	IPM	IPM	"	2	5	2
	Rabi						
9	Wheat	Variety	Variety	"	2	19	9.5
10	Cumin	IDM, Variety	IDM, Variety	"	2	10	4
11	Chick pea	IPM, Variety	IPM, Variety	"	2	15	6
	Others						
12	Farm Implements	As below	As below	"			

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

b. Details of FLDs implemented during 2013-14(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	Total	
	Kharif									
1	Groundnut	IPM	IPM (Pod borer)	*Kharif* 13-14	4	4	4	6	10	-
2	Green Gram	Variety	Variety	*Kharif* 13-14	4	4	3	7	10	-
3	Cotton	IPM and INM	IPM and INM	*Kharif* 13-14	10	10	7	18	25	
4	G'nut (Trichoderma)	IDM	IDM	*Kharif* 13-14	2	2	2	3	5	
5	G'nut (NPV)	IPM	IPM	*Kharif* 13-14	2	2	3	2	5	
6	Pearl Millet	Varietal	Varietal	*Kharif* 13-14	8	8	8	12	20	
7	Brinjal	IPM	IPM	*Kharif* 13-14	2	2	2	3	5	
8	Chilli	IPM	IPM	*Kharif* 13-14	2	2	1	4	5	
	Rabi									
9	Wheat	Variety	Variety	*Rabi* 13-14	10	9.5	5	14	19	
10	Cumin	IDM, Variety	IDM, Variety	*Rabi* 13-14	4	4	3	7	10	
11	Chick pea	IPM,	IPM, Variety	*Rabi* 13-14	6	6	3	12	15	

		Variety								
	Others									
12	Farm Implements	As below	As below							

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					
Kharif											
Groundnut	*Kharif* 13-14	Rainfed	MB	M	M	H	G'nut, Sesamum	15 Jun to 20 July	15 to 30 Oct	1209	40
Green Gram	*Kharif* 13-14	Rainfed	MB	M	M	H	G'nut, Sesamum	15 Jun to 20 July	15 to 30 Oct	1209	40
Cotton	*Kharif* 13-14	Irrigated	MB	M	M	H	Cotton	1 Jun to 20 July	15 to 30 Jan	1209	40
G'nut (Trichoderma)	*Kharif* 13-14	Irrigated	MB	M	M	H	Cotton	15 Jun to 20 July	15 to 30 Oct	1209	40
G'nut (NPV)	*Kharif* 13-14	Irrigated	MB	M	M	H	Cotton	15 Jun to 20 July	15 to 30 Oct	1209	40
Pearl Millet	*Kharif* 13-14	*Rainfed*	MB	M	M	H	Groundnut	15 Jun to 20 July	15 to 30 Oct	1209	40
Brinjal	*Kharif* 13-14	Irrigated	MB	M	M	H	Groundnut	15-30 June	10-30 Feb	1209	40
Chilli	*Kharif* 13-14	Irrigated	MB	M	M	H	Groundnut	25 Oct to 15 Nov	15 Feb to 15 Mar	1209	40
Rabi											
Wheat	*Rabi* 13-14	Irrigated	MB	M	M	H	Groundut	25 Oct to 15 Nov	10 to 25 Feb		
Cumin	*Rabi* 13-14	Irrigated	MB	M	M	H	Groundut	25 Oct to 15 Nov	10 to 25 Feb		
Chick pea	*Rabi* 13-14	Irrigated	MB	M	M	H	Groundut	25 Oct to 15 Nov	10 to 25 Feb		
Others											
Farm Implements											

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**
	Kharif											
1	Groundnut	IPM	GG-20	10	4	37.50	26.88	32.69	29.36	11.34	32.69	29.36
2	Green Gram	Variety	GM-4	10	4	19.06	7.19	13.00	11.64	11.68	13.00	11.64
3	Cotton	IPM and INM	Bt.	25	10	46.25	21.25	36.38	33.88	7.38	36.38	33.88

4	G'nut (Trichoderma)	IDM	GG-20	5	2	34.38	27.50	30.14	26.35	14.38	30.14	26.35
5	G'nut (NPV)	IPM	GG-20	5	2	43.75	31.88	36.88	32.76	12.58	36.88	32.76
6	Pearl Millet	Varietal	GHB-732	20	8	31.25	10.00	17.73	15.52	14.24	17.73	15.52
7	Brinjal	IPM		5	2	362.50	336.25	347.00	320.75	8.18	347.00	320.75
8	Chilli	IPM		5	2	121.25	106.25	112.50	106.86	5.28	112.50	106.86
	Rabi											
9	Wheat	Variety	GW-366	19	9.5	57.50	37.50	49.34	43.37	13.77	49.34	43.37
10	Cumin	IDM, Variety	GC-4	10	4	15.00	11.25	12.56	11.26	11.55	12.56	11.26
11	Chick pea	IPM, Variety	GJG-3	15	6	25.00	15.63	22.29	19.86	12.24	22.29	19.86
	Others											
12	Farm Implements	As below										

*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	Demonstration	Local Check
		14	15	16	17	18	19	20	21
	Kharif								
1	Groundnut	34947	35735	114406	102747	79459	67012	3.27	2.88
2	Green Gram	23045	23045	61750	55307	38705	32262	2.68	2.40
3	Cotton	56452	57076	174206	103835	117754	46759	3.09	1.82
4	G'nut (Trichoderma)	32300	34345	105481	92225	73181	57880	3.27	2.69
5	G'nut (NPV)	33780	35045	129062	114668	95282	79623	3.82	3.27
6	Pearl Millet	9180	9630	26597	23283	17417	13653	2.90	2.42
7	Brinjal	80980	85400	520500	481125	439520	395725	6.43	5.63
8	Chilli	65580	70920	233125	240441	167545	169521	3.55	3.39
	Rabi								
9	Wheat	25634	25829	86349	75900	60715	50071	3.37	2.94
10	Cumin	24661	25880	113062.5	101318	88401.5	75438	4.58	3.91
11	Chick pea	431325	438780	1337500	752920	906175	314140	3.10	1.72
	Others								
12	Farm Implements								

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 (Podborer)	*Kharif* - 2013-14	Seed (Variety)	GG-20	Rainfed	32.69	29.36	11.34
		Bio-fertilizer					
		Fertilizer Management					

		Plant Protection	Trichoderma,				
		Combination of Components					
Green Gram	*Kharif* - 2013-14	Seed (Variety)	GM-4	Rainfed	13.00	11.64	11.68
		Bio-fertilizer					
		Fertilizer Management	Urea, SSP, , Zinc Sulphate				
		Plant Protection	Mancozeb, Profenophos				
		Combination of Components	Pendimethalin				
Cotton	*Kharif* - 2013-14	Seed (Variety)	Bt. Cotton	Irrigated	36.38	33.88	7.38
		Bio-fertilizer					
		Fertilizer Management	Mineral Mixture				
		Plant Protection	imidacloprid 0.006%, Neem Oil, Verticillium				
		Combination of Components					
Groun dnut	*Kharif* - 2013-14	Seed (Variety)	GG-20	Rainfed	30.14	26.35	14.38
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Trichoderma,				
		Combination of Components					
Groun dnut	*Kharif* - 2013-14	Seed (Variety)	GG-20	Rainfed	36.88	32.76	12.58
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	NPV, Pheromone Trape				
		Combination of Components					
Pearl Millet	*Kharif* - 2013-14	Seed (Variety)	GHB-732	Rainfed	17.73	15.52	14.24
		Bio-fertilizer					
		Fertilizer Management	DAP, UREA				
		Plant Protection					
		Combination of Components					
Brinjal	*Kharif* - 2013-14	Seed (Variety)		Irrigated	347.00	320.75	8.18
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Imidacloprid 0.006%, Carbendazim 0.05%				
		Combination of Components					
Chilli	*Kharif* - 2013-14	Seed (Variety)		Irrigated	112.50	106.86	5.28
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Imidacloprid 0.006%, Carbendazim 0.05%				
		Combination of					

		Components					
Wheat	*Rabi* 2013-14	Seed (Variety)	GW – 366	Irrigated	49.34	43.37	13.77
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection					
		Combination of Components					
Cumin	*Rabi* 2013-14	Seed (Variety)	Gu.Cum.-4	Irrigated	12.56	11.26	11.55
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Mancozeb, sulpher,				
		Combination of Components					
Chickpea	*Rabi* 2013-14	Seed (Variety)	GJG-3	Irrigated	22.29	19.86	12.24
		Bio-fertilizer					
		Fertilizer Management	DAP, Urea				
		Plant Protection	Indoxacarb, Vitavax, Pheromone Trap				
		Combination of Components	Pendimethalin4				

Technical Feedback on the demonstrated technologies

Sl. No.	Crop	Technology	Farmers' Feed Back
	Kharif		
1	Groundnut (Pod borer)	Pest management	➢ Effective to control pod borer ➢ Also reduce the damage of white grub ➢ Easy to apply ➢ Low cost and seed quality improe
2	Green Gram	Variety GM-4	➢ Synchronise maturity ➢ High yielding & Short duration variety ➢ Good colour having high market value ➢ Good test for dal and khichadi making
3	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 ➢ Biopesticide saves useful insects ➢ Effectiive against sucking and chewing pest
4	G'nut (Trichoderma)	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
5	G'nut (NPV)	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

6	Pearl Millet	Variety GHB-732	➢ Higher yield of grain and fodder ➢ Quality of fodder is good ➢ Good against drought spell ➢ Sweet taste of rotla
7	Brinjal	IPM	➢ Biopesticide is eco friently and do not harmful to useful insects ➢ No residual harmful effect ➢ Lower incidence of whitefly as well as fruit and shoot borer
8	Chilli	IPM	➢ Biopesticide is less harmful to health and donot affect to useful insect ➢ The curling of leaf was not found in treated plot
	Rabi		
9	Wheat	Variety 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
10	Cumin	Guj. Cum.-4	➢ Diseases resistant variety ➢ High yielding variety ➢ Cheaper to control diseases ➢ Prove that prevention is better then cure in diseases management
11	Chick pea	GJG-3	➢ Good pod formation ➢ High yielding variety ➢ partially wilt resistant variety ➢ It perform as per water management
	Others		
12	Farm Implements		

Farmers' reactions on specific technologies

Sl.No.	Crop	Technology	Farmers' Reaction
	Kharif		
1	Groundnut	Pest management	➢ Effective to control pod borer ➢ Also reduce the damage of white grub ➢ Easy to apply ➢ Low cost and seed quality improe
2	Green Gram	Variety GM-4	➢ Synchronise maturity ➢ High yielding & Short duration variety ➢ Good colour having high market value ➢ High feed and fodder value
3	Cotton	Bt.Cotton IPM/INM	➢ High yielding varieties require additional feed & micronutrient then desi cotton ➢ Biopesticide saves useful insects ➢ Effectiive against sucking and chewing pest
4	G'nut (Trichoderma)	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 hazardous ➢ Low cost
5	G'nut (NPV)	GG-20 NPV	➢ Very effective against spodoptera during low radiation ➢ It is effective as good as chemical pesticides ➢ Easy to application ➢ No hazardous ➢ Low cost

6	Pearl Millet	Variety GHB-732	➢ Higher yield of grain and fodder ➢ Quality of fodder is good ➢ Good against drought spell ➢ Sweet taste of rotla
7	Brinjal	IPM	➢ Biopesticide is eco friently and do not harmful to useful insects ➢ No residual harmful effect ➢ Lower incidence of whitefly as well as fruit and shoot borer
8	Chilli	IPM	➢ Biopesticide is less harmful to health and donot affect to useful insect ➢ The curling of leaf was not found in treated plot
	Rabi		
9	Wheat	Variety GW-366	➢ Good variety for Backing, ➢ High tillers, high yield with synchronise maturity ➢ Dark green colou
10	Cumin	Guj. Cum.-4	➢ Diseases resistant variety ➢ High yielding variety
11	Chick pea	GJG-3	➢ Good pod formation ➢ High yielding variety ➢ partially wilt resistant variety ➢ It perform as per water management
	Others		
12	Farm Implements		

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	
	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	
	Groundnut (Trichoderma)					
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					
	Pearl Millet					
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					
	Brinjal					
1	Field days	1	18	4	22	
2	Training for farmers	1	28	3	31	
3	Radio Talk					
4	Training for Extension functionaries					
	Chilli					
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	
	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					
	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					

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	Open field	250	10					
Mini Tractor Implement	Groundnut	100	5					
Chalf Cutter	Fodder	150	5					
Solar Cooker		120	10	-	-	-	-	-

** Field efficiency, labour saving etc.*

(ii) Livestock, Fisheries, etc.

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																		
Cow																		
Buffalo																		
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and goat																		
Duckery																		
Others (pl.specify)																		
Total																		

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																		
Mussels																		
Ornamental fishes																		
Others (pl.specify)																		
		Total																

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	
Total																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Pregnant women						
Adolescent Girl						
Other women						
Children						
Neonats						
Infants						
Children						

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)			
						Demonstration	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											

Technical Feedback on the demonstrated technologies

S. No	**Feed Back**
1	
2	

Farmers' reactions on specific technologies

S. No	**Feed Back**
1	
2	

Extension and Training activities under FLD

Sl.No.	**Activity**	**No. of activities organised**	**Date**	**Number of participants**	**Remarks**
1	Field days				
2	Farmers Training				
3	Media coverage				
4	Training for extension functionaries				

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

A) On Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	7		7	23		23	30	0	30
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems	1	35		35	22		22	57	0	57
Crop Diversification				0			0	0	0	0
Integrated Farming	1	66	4	70			0	66	4	70
Water management	1	39		39			0	39	0	39
Seed production	1	7		7	11		11	18	0	18
Nursery management				0			0	0	0	0
Integrated Crop Management	2	72		72			0	72	0	72
Fodder production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
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										
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										
Nursery Management				0			0	0	0	0
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										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants										
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

III Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Soil and Water Conservation				0			0	0	0	0
Integrated Nutrient Management	1	27		27			0	27	0	27
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				0			0	0	0	0
Nutrient Use Efficiency	1	25		25			0	25	0	25
Soil and Water Testing				0			0	0	0	0
IV Livestock Production and Management										
Dairy Management	1	50		50			0	50	0	50
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management	1	45		45			0	45	0	45
Feed management				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
V Home Science/Women empowerment										
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	30		30	1		1	31	0	31
Income generation activities for empowerment of rural Women	1		18	18			0	0	18	18
Location specific drudgery reduction technologies	1	20		20	6		6	26	0	26
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	1	48	0	48	2		2	50	0	50
Use of Plastics in farming practices	2	66		66	11		11	77	0	77
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
VII Plant Protection										
Integrated Pest Management	7	216	18	234	86	4	90	302	22	324
Integrated Disease Management	7	182	3	185	90		90	272	3	275
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
VIII Fisheries										
Integrated fish farming	1			0	7	8	15	7	8	15
Carp breeding and hatchery management	1	0	0	0	6	6	12	6	6	12
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	1			0	5	13	18	5	13	18
IX Production of Inputs at site										
Seed Production	1	40		40	5		5	45	0	45
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				0			0	0	0	0
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
X Capacity Building and Group Dynamics										
Leadership development	1	5	13	18			0	5	13	18
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital	1	28		28			0	28	0	28
Entrepreneurial development of farmers/youths	1	35		35	1		1	36	0	36
WTO and IPR issues				0			0	0	0	0
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
TOTAL	38	1043	56	1099	276	31	307	1319	87	1406
(B) RURAL YOUTH										
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	1		40	40			0	0	40	40
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				0			0	0	0	0
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	1	0	40	40	0	0	0	0	40	40
(C) Extension Personnel										
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management	2	39	11	50	7	2	9	46	13	59
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
TOTAL	2	39	11	50	7	2	9	46	13	59
Grand Total	41	1082	107	1189	283	33	316	1365	140	1505

B) Off Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification	1	17	1	18	5		5	22	1	23
Integrated Farming				0			0	0	0	0
Water management	1	70		70			0	70	0	70
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	1	18		18			0	18	0	18
Fodder production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0

II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	20		20			0	20	0	20
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
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										
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										
Nursery Management				0			0	0	0	0
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										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants										
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
III Soil Health and Fertility Management										
Soil fertility management	1			0	180	65	245	180	65	245
Soil and Water Conservation				0			0	0	0	0
Integrated Nutrient Management	1	21		21			0	21	0	21
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				0			0	0	0	0
Nutrient Use Efficiency	1	45		45	7		7	52	0	52
Soil and Water Testing				0			0	0	0	0
IV Livestock Production and 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				0			0	0	0	0
Feed management				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	34		34	66		66	100	0	100

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	5	36	48	84	24		24	60	48	108
Value addition	2	0	25	25	0	25	25	0	50	50
Income generation activities for empowerment of rural Women	2	55	20	75	3		3	58	20	78
Location specific drudgery reduction technologies	1	0	22	22		2	2	0	24	24
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	3	209	7	216	9		9	218	7	225
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
VII Plant Protection										
Integrated Pest Management	12	322	12	334	114	2	116	436	14	450
Integrated Disease Management	13	966	95	1061	254	6	260	1220	101	1321
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management	1	18		18			0	18	0	18
Carp fry and fingerling rearing	1	16		16			0	16	0	16
Composite fish culture	2	23		23	18		18	41	0	41
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	1	28		28			0	28	0	28
Shrimp farming	1	16	4	20			0	16	4	20
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
IX Production of Inputs at site										
Seed Production	3	77		77	31		31	108	0	108
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				0			0	0	0	0
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
X Capacity Building and Group Dynamics										

Leadership development	1	25		25			0	25	0	25
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
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
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
TOTAL	57	2016	234	2250	711	100	811	2727	334	3061
(B) RURAL YOUTH										
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	64	64		5	5	0	69	69
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	64	64	0	5	5	0	69	69
(C) Extension Personnel										
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management				0			0	0	0	0
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
TOTAL	0	0	0	0	0	0	0	0	0	0
Grand Total	59	2016	298	2314	711	105	816	2727	403	3130

C) Consolidated table (On and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	7	0	7	23	0	23	30	0	30
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	1	35	0	35	22	0	22	57	0	57
Crop Diversification	1	17	1	18	5	0	5	22	1	23
Integrated Farming	1	66	4	70	0	0	0	66	4	70
Water management	2	109	0	109	0	0	0	109	0	109
Seed production	1	7	0	7	11	0	11	18	0	18
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	3	90	0	90	0	0	0	90	0	90
Fodder 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
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	20	0	20	0	0	0	20	0	20
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
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										
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										

Nursery Management	0	0	0	0	0	0	0	0	0	0
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										
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										
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										
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										
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
III Soil Health and Fertility Management										
Soil fertility management	1	0	0	0	180	65	245	180	65	245
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	2	48	0	48	0	0	0	48	0	48
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	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	2	70	0	70	7	0	7	77	0	77
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
IV Livestock Production and Management										
Dairy Management	1	50	0	50	0	0	0	50	0	50
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	45	0	45	0	0	0	45	0	45
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
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	34	0	34	66	0	66	100	0	100
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	5	36	48	84	24	0	24	60	48	108
Value addition	3	30	25	55	1	25	26	31	50	81
Income generation activities for empowerment of rural Women	3	55	38	93	3	0	3	58	38	96
Location specific drudgery reduction technologies	2	20	22	42	6	2	8	26	24	50
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	4	257	7	264	11	0	11	268	7	275
Use of Plastics in farming practices	2	66	0	66	11	0	11	77	0	77
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and	0	0	0	0	0	0	0	0	0	0

implements										
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
VII Plant Protection										
Integrated Pest Management	19	538	30	568	200	6	206	738	36	774
Integrated Disease Management	20	1148	98	1246	344	6	350	1492	104	1596
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
VIII Fisheries										
Integrated fish farming	1	0	0	0	7	8	15	7	8	15
Carp breeding and hatchery management	2	18	0	18	6	6	12	24	6	30
Carp fry and fingerling rearing	1	16	0	16	0	0	0	16	0	16
Composite fish culture	2	23	0	23	18	0	18	41	0	41
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	1	28	0	28	0	0	0	28	0	28
Shrimp farming	1	16	4	20	0	0	0	16	4	20
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	1	0	0	0	5	13	18	5	13	18
IX Production of Inputs at site										
Seed Production	4	117	0	117	36	0	36	153	0	153
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	0	0	0	0	0	0	0	0	0	0
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
X Capacity Building and Group Dynamics										
Leadership development	2	30	13	43	0	0	0	30	13	43
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	1	28	0	28	0	0	0	28	0	28
Entrepreneurial development of farmers/youths	1	35	0	35	1	0	1	36	0	36
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry										
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	95	3059	290	3349	987	131	1118	4046	421	4467
(B) RURAL YOUTH										
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	1	0	40	40	0	0	0	0	40	40
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
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	2	0	64	64	0	5	5	0	69	69
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	3	0	104	104	0	5	5	0	109	109
(C) Extension Personnel										
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	2	39	11	50	7	2	9	46	13	59
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	0	0	0	0	0	0	0	0	0	0
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
TOTAL	2	39	11	50	7	2	9	46	13	59
	100	3098	405	3503	994	138	1132	4092	543	4635

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Dura-tion (days)	No. of Participants			Seelf Employed after trainig			Empl-oyed else where
					M	F	T	Type of unit	No. of Unit	No. of persons employed	
Fruit & Vegetable	25.6.13	Preservation of Mango pulp	Value addition	1	0	38	38	0	3	3	0
Fruit & Vegetable	21.3.14	Preservation of Vegatable and Fruit	Value addition	1	0	31	31	-	2	2	-
Fruit & Vegetable	6.6.13	Value adition in fruit and vegetable	Value addition	1	25		25	1	0	2	0
Women empowerment	13.8.13	Income generation activities for empowerement of rural women.	Women empowerment	1	14	2	16	8	2	10	1
Women empowerment	28.1.14	Role of women in Agricultural development	Women empowerment	1	0	40	40	6		6	0
Fisheries	31.3.14	Setup a small scale ornamental fish hatchery	Fisheries	1	0	31	31	1	2	6	3

*training title should specify the major technology /skill transferred

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

	Date	Title of Training Programme	Discipline	Thematic area	Dura tion (day s)	Client (PF/ RY/ EF)	No. of Co urs e	No. of Participant									Sponsori ng Agency	Amou nt of fund receiv ed (Rs.)
								General			SC/ST			Total				
								M	F	T	M	F	T	M	F	T		
1	24.4.13	Importance of MIS	Agril. Engineering	Water use efficiency	1	PF	1	42	0	42	0	0	0	42	0	42	Mahindra	
2	17-20.6.13	Kharif crop protection and production technology	Crop Production	ICM	1	PF	1	7	0	7	23	0	23	30	0	30	ATMA, Porbandar	
3	30.11.13	INM and MIS in rabi crops	Crop Production	ICM	1	PF	1	42	0	42	0	0	0	42	0	42	GSK Bhatiya	
4	30.11.13	Integrated pest and diseases management in cumin	Plant Protection	IPM, IDM	1	PF	1	35	0	35	5	0	5	40	0	40	GSK Bhatiya	
5	28.6.13	IPM & IDM in groundnut, cotton crops	Plant Protection	IPM, IDM	1	PF	1	8	0	8	11	0	11	19	0	19	Mahindra	
6	5.7.13	IPM, IDM, INM in groudnnut and cotton	Plant Protection	IPM, IDM	1	PF	1	31	0	31	8	0	8	39	0	39	Mahindra	
7	8-10.7.13	IPM & IDM in kharif crop	Plant Protection	IPM, IDM	1	PF	1	22	0	22	6	0	6	28	0	28	NHM	
8	3.8.13	IPM, IDM, INM in Horticultural Crops	Plant Protection	IPM, IDM	1	PF	1	34	16	50	16	4	20	50	20	70	NHM	
9	14.8.13	IPM, IDM, INM in Horticultural Crops	Plant Protection	IPM, IDM	1	PF	1	10	0	10	4	0	4	14	0	14	NHM	
10	16-17.8.13	IPM & IDM in kharif crop	Plant Protection	IPM, IDM	1	PF	1	23	0	23	4	0	4	27	0	27	ATMA, Porbandar	

11	17-18.6.13	Werehousing structures and mangement of storage pests	Plant Protection	IPM, IDM	1	PF	1	16	0	16	29	0	29	45	0	45	Central Werehousing corporation	
12	24.7.13	IPM and IDM in kharif crops	Plant Protection	IPM, IDM	1	PF	1	32	8	40	15	6	21	47	14	61	ATMA, Jamnagar	
13	18.12.13	IPM and IDM in rabi crops	Plant Protection	IPM, IDM	1	PF	1	15	0	15	6	0	6	21	0	21	DAO	
14	22.11.13	Plant protection in horticultural and spices crops	Plant Protection	IPM, IDM	1	PF	1	66	0	66	34	0	34	100	0	100	ATMA, Jamnagar	
15	22-24.7.13	IPM and IDM in kharif crops	Plant Protection	IPM, IDM	1	PF	1	23	0	23	7	0	7	30	0	30	ATMA Amreli	
16	21.4.13	Crop arrangement and nutrient management	Soil Health	Fertility Management	1	PF	1	0	0	0	180	65	245	180	65	245	GNFC	
17	4.7.13	Balanced use of fertilizer for higher yield	Soil Health	Fertility Management	1	PF	1	45	0	45	7	0	7	52	0	52	Mahindra	
18	17.4.13	Scientific approach towards increase the milk production and productivity in cattle	Animal Husbandary	Animal Health & clean milk production	1	PF	1	35	0	35	0	0	0	35	0	35	ATMA, Dhrol	
19	18.4.13	Scientific approach towards increase the milk production and productivity in cattle	Animal Husbandary	Animal Health & clean milk production	1	PF	1	39	0	39	0	0	0	39	0	39	ATMA, Jodia	
20	20.4.13	Scientific approach towards increase the milk production and productivity in cattle	Animal Husbandary	Animal Health & clean milk production	1	PF	1	66	4	70	0	0	0		4	70	ATMA, Kalawad	
21	22.4.13	Scientific approach towards increase the milk production and productivity in cattle	Animal Husbandary	Animal Health & clean milk production	1	PF	1	55	0	55	0	0	0		0	55	ATMA, Bhanvad	
22	24.4.13	Scientific approach towards increase the milk production and productivity in cattle	Animal Husbandary	Animal Health & clean milk production	1	PF	1	54	0	54	0	0	0		0	54	ATMA, Khambhadiya	
23	25.4.13	Animal disease and its prevention	Animal Husbandary	Animal Health & clean milk production	1	PF	1	45	0	45	0	0	0		0	45	ATMA, Dwarka	
24	26.4.13	Animal disease and its prevention	Animal Husbandary	Animal Health & clean milk production	1	PF	1	50	0	50	0	0	0		0	50	ATMA, Jamnagar	
25	29.4.13	Animal disease and its prevention	Animal Husbandary	Animal Health & clean milk production	1	PF	1	48	0	48	2	0	2	50	0	50	ATMA, Lalpur	
26	6.1.14	Seed Production technology and IPM in these crops	Extension Personel	IPM, Seed Production	1	EF	1	17	10	27	1	2	3	18	12	30	DWDU	
27	10.3.14	Storage Techniques and IPM in summer crops	Extension Personel	IPM	1	EF	1	22	1	23	6	0	6	28	1	29	ATMA Jamnagar	
28	10.12.13	Importance of communication skiil	Extension Personel	Communication	1	EF	1	12	0	12	0	0		12	0	12	DAO	

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		35	570	63	633	139	20	159	3	0	3	712	83	795
2	Kisan Mela		0	0	0	0	0	0	0	0	0	0	0	0	0
3	Kisan Ghosthi		9	525	80	605	175	35	210	0	0	0	700	115	815
4	Exhibition		1	11000	5000	16000	13000	6000	19000	1100	200	1300	25100	11200	36300
5	Film Show		25	1292	150	1442	546	67	613	7	3	10	1845	220	2065
6	Method Demonstrations		7	69	64	133	16	3	19	0	0	0	85	67	152
7	Farmers Seminar		15	2874	444	3318	168	0	168	5	0	5	3047	444	3491
8	Workshop		1	295	0	295	45	0	45	20	0	20	360	0	360
9	Group meetings		16	264	50	314	52	25	77	5	0	5	321	75	396
10	Lectures delivered as resource persons		72	5512	851	6363	1586	506	2092	138	16	154	7236	1373	8609
11	Newspaper coverage		1	0	0	0	0	0	0	0	0	0	0	0	0
12	Radio talks		1	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		8	6	0	6	3	0	3	0	0	0	9	0	9
15	Extension Literature		65	2120	111	2231	6	86	92	0	0	0	2126	197	2323
16	Advisory Services		103	26	0	26	21	0	21	0	0	0	47	0	47
17	Scientific visit to farmers field		178	391	4	395	60	2	62	14	0	14	465	6	471
18	Farmers visit to KVK		147	4406	82	4488	156	93	249	0	0	0	4562	175	4737
19	Diagnostic visits		38	59	0	59	35	0	35	0	0	0	94	0	94
20	Exposure visits		1	42	0	42	8	0	8	1	0	1	51	0	51
21	Ex-trainees Sammelan		0	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	0
23	Animal Health Camp		0	0	0	0	0	0	0	0	0	0	0	0	0
24	Agri mobile clinic		6520	3499	139	3638	792	38	830	52	1	53	4343	178	4521
25	Soil test campaigns		0	0	0	0	0	0	0	0	0	0	0	0	0
26	Farm Science Club Conveners meet		1	0	0	0	0	0	0	0	0	0	0	0	0
27	Self Help Group Conveners meetings		1	0	34	34	0	4	4	0	0	0	0	38	38
28	Mahila Mandals Conveners meetings		0	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	0
30	Female groups		2	0	41	41	0	2	2	0	0	0	0	43	43
31	Night Meetting		5	207	4	211	267	7	274	6	0	6	480	11	491
32	Crop Shibir/Farmer shibir		1	360	40	400	12	6	18	7	0	7	379	46	425
33	Collobrative training		4	99	8	107	51	6	57	3	0	3	153	14	167
34	Training to Extension Functionaries		4	0	0	0	0	0	0	85	16	101	85	16	101
35	Any Other (Specify)		5	248	2	250	210	0	210	8	4	12	466	6	472
	Total		**7272**	**33864**	**7167**	**41031**	**17348**	**6900**	**24248**	**1454**	**240**	**1694**	**52666**	**14307**	**66973**

TECHNOLOGY WEEK

Number of Technology weeks celebrated	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
1	Gosthies	5	460	**1st day:** Organic Farming and minimize cost of cultivation, ICM, IPM, IDM in field crops**. ; 2nd day:** Integrated farming (farming, animal husbundry, fisheries, vermi compost etc.); **3rd day:** Value addition of farm products and water use efficiency through use of micro irrigation systems ;**4th day:** Export oriented farming and value addition of spices crop, Integrated disease management and mechanization of farm and newer farm implements ;**5th day:** Organic manures production, reutilization of farm waste material

				(cotton stalks)
	Lectures organised	25	460	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 ;Export oriented farming of spices crop ;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
	Exhibition	1		Farm implements were put for exhibition cum demonstration pupbose
	Film show	5	460	
	Fair			
	Farm Visit	5		During farm visit farmers were demonstrate reaper demonstration for sorghum cutting.
	Diagnostic Practicals			
	Distribution of Literature (No.)	5	460	
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week		460	

KISAN MOBILE ADVISORY

No. of Farmers registered : _2000__

Details of SMSs

Content Category	**No. of Messages**	**No. of Farmers**	**Feed back of farmers if any**	
Crop Production	2	200		
Crop Protection	4	1889		
Livestock & Fisheries Advisory				
Weather Advisory				
Market Information				
Events Information				
Input availability	1	500		
Others (specify)				
Total	**7**	**2589**		

INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

State	**Crops/cultivars**	**Area (ha)**	**Number of beneficiaries**

Major area coverage under alternate crops/varieties

Crops	**Area (ha)**	**Number of beneficiaries**
Oilseeds		
Pulses		

Cereals		
Vegetable crops		
Tuber crops		
Total		

Farmers-scientists interaction on livestock management

State	**Livestock components**	**Number of interactions**	**No.of participants**
Total			

Animal health camps organised

State	**Number of camps**	**No.of animals**	**No.of farmers**
Total			

Seed distribution in drought hit states

State	**Crops**	**Quantity (qtl)**	**Coverage of area (ha)**	**Number of farmers**
Total				

Large scale adoption of resource conservation technologies

State	**Crops/cultivars and gist of resource conservation technologies introduced**	**Area (ha)**	**Number of farmers**
Total			

Awareness campaign

KVK	**Meetings**		**Gosthies**		**Field days**		**Farmers fair**		**Exhibition**		**Film show**	
	No.	**No.of farmers**	**No.**	**No.of farmers**	**No.**	**No.of farmers**	**No.**	**No.of farmers**	**No.**	**No.of farmers**	**No.**	**No.of farmers**
Total												

3.5 PRODUCTION AND SUPPLY OF TECHNOLOGICAL PRODUCTS (2013-14)

SEED MATERIALS

Sr.No.	**Major group/ class**	**Crop**	**Variety**	**Quantity (Kg.)**	**Value**	**Provided No. of farmers**
1	CEREALS	Sesamum	G.Til.-2	60	6000	--
2	OILSEEDS	Wheat	GW-496	3000	1,47000	294
3	PULSES					
4	VEGETABLES					
5	OTHERS					

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						
BIO FERTILIZERS						
BIO PESTICIDE	Savaj	*Trichoderma harzianum*				
TOTAL						

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*				
	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
SHEEP & GOAT						
POULTRY						
FISHERIES						
OTHERS						
TOTAL						

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	SHEEP & GOAT					
3	POULTRY					
4	FISHERIES					
5	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

Item	Title	Authors name	Number of copies
Research papers	Effect of abiotic factor on population dynamics of major insect pests of okra	B. K. Damasiya, Dr. K. L. Raghvani, B.B. Kabariya, D. A. Saradva	Published in Journal of Pestology
Total	1		
Technical reports	Annual Progress Report	KVK, JAU, Jamnagar	
	9th ZREAC Report		
	10th ZREAC Report		
Popular articles	Management of white grub in groundnut.	Dr. K. P. Baraiya & Dr. K. L. Raghvani	
	Pests of Pearl millet	Dr. K. L. Raghvani	
	Pest of Sorghum	Dr. K. L. Raghvani	
	Pest of Maize	Dr. K. L. Raghvani	
	Scientific farming of summer pearl millet	Dr. K. K. Dhedhi, Dr. K. L. Raghvani, Dr. C. J. Dangariya	
Leaflets/folders	Pesticide classification and its identical application	Dr. K P. Baraiya	200
	Vermicompost	Dr. K P. Baraiya	150
Total	10		
GrandTOTAL	**11**		**300**

(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)

PROFILE OF FARM WOMEN INNOVATORS

Personal Profile

Name of farmwomen	:	Jashuben Hirabhai Khara
Contact No.	:	9099171789
Address	:	At.- Khatiya, Ta.- Lalpur, Dist.- Jamnagar
Age	:	34 Years
Education(highest level and subject)	:	Non Educated (Adult Education)
Land holding	:	-
Crops grown	:	-
Livestock	:	-
Business	:	House wife/ Farm Labour
Special recognition	:	Preparation of Juice, Shyrap and Jam of prickly pear.

Preparation of "Prickly pear (Hathla) Juice"

Jamnagar to Jamjodhpur via Samana road, Khatia village of Lalpur taluka which comes between mountains. Smt. Jashuben Hirabhai Khara is an innovative farm woman. Who is landless, farm labour. She is illiterate. She works in her family as house wife and she spare time for collection of Hathla (Prickly pear)

She made juice, syrup and jam from prickly pear and gets additional income.

Practical Utility of the Innovation/ Mode etc.

Smt. Jashuben Hirabhai Khara is an innovative woman. She is landless family and works as farm labour. But the mountain or hilly area have low rainfall area, where farming is very poor. Therefore, labour works cannot do continuously. Jashuben is a house wife and she sapre time for collection of fruit of "Hathla" (Prickly pear) [*Scientific Name:-Opuntia tuna* (L.) Mill. (tuna) and *Opuntia ficus-indica* (L.) Mill.]. Prickly pear is widely cultivated naturally and commercially used in juices, jellies, candies, teas, and alcoholic drinks. Its use in treating diabetes, high cholesterol, obesity, hangovers, lipid disorders, inflammation, and ulcers, as well as its other pharmacologic effects. Smt. Jashuben collect average 40 to 50 kg fruits of prickly pear daily and prepare juice. She has done value addition in prickly pear and made juice, syrup as well as jam and pack attractively. She sold 1 litre bottle @ Rs. 200 and total earned Rs. 10000 per month. She sold her product through "Gram Hut" and she received award from

Collection of Prickly pear fruits

Extraction of Prickly pear juice

Prickly pear plants with fruit

Prickly pear fruits

Packaging of Prickly pear Juice & Jelly

Selling her self of Prickly pear Juice & Jelly

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 so far

----Nil---

4.0 IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

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

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

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

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/-
Seed Village	2009-10	State Government	800000/-

5.3 Details of linkage with ATMA

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

S. No.	Programme	Nature of linkage	Remarks
1	District Level Training	Impart Training on Agricultural Aspects	Celeberate Technology week 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.)		Rem arks
				Variety	Type of Produce	Qty. kg	Cost of inputs	Gross income	
Cereals									
Wheat	29/10		1.00	GW-496	Grain	2390			
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	25.9.12		0.5	Local	Green fodder	15200			
Pulses									
Oilseeds									
Til	13/7		1.00	GT-2	Grain	60			
Groundnut	3.7.12		1	GAUG-20	Dry fodder	1000			
Fibers									
Spices & Plantation crops									
Floriculture									
Fruit									
Vegetable									
Others (Fodder) (Specify)									
Lucern	12.10.12		0.4	Annand-2	Green fodder	8520			
Carrot	12.10.12		0.25	Local	Green fodder	5660			

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	

6.4 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 2013				
Total				
May 2013	Management of mealybug and whitegrub during kharif season	26	2	
Total		**26**		
June 2013	Kharif crop protection and production technology	31	2	
Total		**31**		
July 2013	IPM & IDM in kharif crop	27	2	
	IPM and IDM in kharif crops	28	2	
Total		**55**		
August 2013	MIS for agriculture	27	2	
Total		**27**		
September 2013	IPM & MIS in groundnut	14	2	
	IPM in cotton and improved iplements for farming	14	2	
	White grub control	13	2	
Total		**41**		
October 2013				
Total				
November 2013				
Total				

December 2013				
Total				
January 2014	Role of women in Agricultural development	11	2	
	IPM in rabi crops and Use of improved implements	18	2	
Total		**29**		
February 2014	Solar energy in agriculture and use of MIS in agriculture	14	2	
Total		**14**		
March 2014	Value adition in fruit & vegetable and nutritive value	14	2	
	Storage techniques for farm produce and IMP in Summer crops	16	2	
	Importance of Vermicompost and value addition in agricultural production	20	2	
	INM & MIS for higher crop production	10		
Total		**60**		
Grand total		**283**		

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 2014
	Kharif 2013-14	Rabi 2013–14	Kharif 2013-14	Rabi 2013-14	
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 2014
	Kharif 2013-14	Rabi 2013–14	Kharif 2013-14	Rabi 2013-14	
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 2013-14	Kharif 2013-14	
Inputs			
Extension activities			

TA/DA/POL etc.			
TOTAL			

7.5 Utilization of KVK funds during the year 2013-14

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	**Recurring Contingencies**			
1	**Pay & Allowances**	**6000000**	**6000703**	**5994484**
2	**Traveling allowances**	**125000**	**125000**	**124009**
3	**Contingencies**	**1250000**	**1250000**	**1249389**
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	400000	400000	394580
B	POL, repair of vehicles, tractor and equipments	100000	100000	105220
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	250000	250000	247930
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	75000	75000	74620
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	250000	250000	262724
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	100000	100000	96784
G	Training of extension functionaries	70000	70000	65501
H	Maintenance of buildings	5000	5000	2030
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)	**7375000**	**7375703**	**7367882**
B.	**Non-Recurring Contingencies**	**0**	**0**	**0**
1	**Works**	0	0	0
2.	**Equipment including SWTL & Furniture**	0	0	0
3.	**Vehicle** (Four wheeler/ Two wheeler, please specify)	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)		**7375000**	**7375703**	**7367882**

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 2011 to March 2012	2336324	522502	119538	2739288
April 2012 to March 2013	2739288	666821	2540	3403569
April 2013 to March 2014	3403569	564600	455445	3512724

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 – 2013

Mass Extension programme i.e. "Krishi Mahotsav-2012" held during 14-5-2013 to 30-5-2013

Sr. No.	Name of Block	Name of Scientist		No. of Village covered	No. of participant		
		Team A	Team B				
		14.5.13 to 17.5.13 & 22.5.13 to 26.5.13	18.5.13 to 21.5.13 & 27.5.13 onword		Male	Female	Total
1.	Jamnagar	Dr. G. V. Maraviya & Shri. H. T. Chauhan	Dr. K. L. Raghvani & Shri M. P. Patel	101	8435	2456	10890
2.	Dhrol	Dr. G. M. Parmar & Shri P. R. Davra	Shri H. K. Kandoria & Shri M. K. Bhalala	54	3694	677	4371
3	Jodia	Shri R. P. Juneja & Dr. J. N. Thaker	Dr. P. R. Borkhatriya & Dr. N. H. Joshi	47	2151	830	2981
4	Kalavad	Shri N. N. Galani & Shri A. L. Vadher	Dr. K. D. Mungra & Dr. S. S. Patil	96	3106	441	3547
5	Lalpur	Dr. K. K. Dhedhi & Shri C. R. Sabale	Shri Y. H. Ghelani & Shri H. G. Vansjaliya	79	4244	762	5006
6	Bhanvad	Dr. N. B. Jadav & Dr. N. J. Ardesana	Shri D. L. Kadvani & Dr. A. R. Bhadaniyia	67	4826	1079	5905
7	Jamjodhpur	Shri S. D. Atara & Shri M. J. Gojia	Dr. H. H. Savsani & Shri D. D. Ghonia	59	5793	368	6161
8	Jam Khambhadia	Dr. J. S. Sorathia & Shri A. J. Patel	Shri K. K. Kanjaria & Shri N. B. Parmar	83	3283	579	3862
9	Jam Kalyanpur	Dr. K. P. Baraiya & Shri R. P. Vavaiya	Dr. P. S. Gorfad & Shri C. B. Ajudia	62	4143	187	4330
10	Dwarka	Shri N. J. Akolkar & Shri K. A. Pagi	Shri V. M. Chavada & Shri P.R. Patel	39	2100	421	2521
				687	41775	7800	49574

8.3 OTHER SCHEME :

8.3.1 ESTABLISHMENT OF AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (ATIC) (YEAR-2013-14)

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 JAU has generated a large number of technologies in different disciplines

	the scheme		of agriculture and all allied subjects. ➢ Location specific technology and assessment technologies and demonstration of the technological models is planned.

A. Details of ATIC:

Sr. No.	Name of ATIC	Name of host institute	Name of ATIC manager	Telephone No.			E-mail address
				Office	Fax	Mobile	
1.	KVK, Jamnagar	Junagadh Agricultural University, Junagadh	Programme Coordinator	(0288) 2710165	(0288) 2710165	+91 9427497561	Kvkjamnagar @jau.in

B. Details of farmers visit:

Sr. No.	Name of ATIC	Purpose of visit	No. of farmers visited
1.	KVK, Jamnagar	For Agricultural information	427

C. Facilities in ATIC (Operational):

Sr. 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

D. 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/ Fish
KVK, Jamnagar	Kisan call Centre phone	227	52	52	28	28	-	5	62
	Letters Received	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Letter replied	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Training	215	148	31	36	-	-	-	-

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	2	100	2
4.		Folders	108	Nil	108
5.		CDs	Nil	Nil	Nil
6.		DVDs	Nil	Nil	Nil
7.		Others(PA)	1	Nil	published in magazine

E. Technology products provided:

S.No.	Particular	Quantity	Unit of quantity	Value in Rs.	No. of farmers benefitted
1.	**Seeds**				
(i)	Wheat GW-496	1654	Kg.	42084	41
(ii)	Sesamum GT-2	49	Kg.	7080	4
(iii)	Chickpea (GG-3)	125	Kg.	5600	5

2.	**Plants**	5	No.	56	2
3.	**Vermi Culture**	Nil	Kg.	Nil	-
4.	**Fruits**	Nil	Kg.	Nil	Nil
5.	**Vegetable**	Nil	Kg.	Nil	-
6.	**Milk**	506.9	Lit.	14698	15
7.	**Fish**	Nil	Kg.	Nil	-

F. Technology services provided:

Name of ATIC	Particulars	No. of farmers benefitted
KVK, Jamnagar	SW testing	Nil
	Plant diagnosis	38
	Services to line department	2
	Others (if any)	NIl

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

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 2013-14

A. SEED DISTRIBUTION :

S. No.	*State*	*District*	*Crop*	*Variety*	*Crop / Variety wise 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*	Gen.	SC/OBC	ST	Women	Total	Fund Received	Fund Utilised	Balance	
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*	*18*	*19*	*20*	*21*
1	Gujarat	Jamnagar	Wheat	GW-496	81	81	81	81	3968.8	28	28	120	255	0	30	405	15	15	Nil	-
2			Cumin	GC-4	272.67	272.67	40.9	40.9	3230	52	52	580	620	20	144	1364				
3			Chickpea	GJG-3	62.33	62.33	46.75	46.75	1348.5	21	21	114	234	0	26	374				
4			Coriander	G.Cor.-2	44.4	44.4	88.8	88.8	896.1	30	30	83	90	0	5	178				
5			Garlic	G.G.-4	2.43	2.43	17	17	203.6	12	12	9	4	0	0	13				
6			Groundnut	TAG-24	19	19	19	19	731.4	15	15	39	46	0	10	95				

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/ OBC	ST	Women	Total				
1	2		4	5	6	7		8	9	10	11	12	13
1	Wheat, Cumin, Chickpea, Coriander, Garlic,	Mavapar	22.8.13	Rabi-2013-14 40 farm families	22	6		2	30				
2	- " -	Kalyanpur	18.10.13	- " -	59	16			75				
3	- " -	On Campus	25.10.13	- " -	120	70		6	196				
4	- " -	On Campus	28.10.13	- " -	55	12			67				
5	- " -	Sortha	29.10.13	- " -	13	8			21				
6	- " -	On Campus	29.10.13	- " -	78	23		7	108				
7	- " -	On Campus	30.10.13	- " -	63	24		5	92				
8	- " -	Bhimkata	31.10.13	- " -	8	12			20				
9	- " -	On Campus	1.11.13	- " -	43	12		7	62				
10	- " -	On Campus	2.11.13	- " -	34	32		8	74				
11	- " -	On Campus	6.11.13	- " -	46	22		12	80				
12	- " -	On Campus	8.11.13	- " -	54	34		20	108				
13	- " -	On Campus	9.11.13	- " -	67	22		5	94				
14	- " -	On Campus	11.11.13	- " -	32	44		6	82				
15	- " -	On Campus	12.11.13	- " -	16	58		4	78				
16	- " -	On Campus	15.11.13	- " -	49	32		7	88				
17	- " -	On Campus	16.11.13	- " -	62	26		8	96				
18	- " -	On Campus	22.11.13	- " -	57	42		4	103				
19	- " -	Charakla	18.12.13	- " -	15	6			21				
20	- " -	Katada	7.1.14	- " -	56	11			67				
21	- " -	Anandpar	8.1.14	- " -	32	6			38				
22	- " -	Keshiya	9.1.14	- " -	180	20		50	250				
23	- " -	Pipartoda	13.1.14	- " -	240	80		30	350				
24	- " -	Patameghpar	16.1.14	- " -	50	15			65				
25	- " -	Juvanpar	16.1.14	- " -	82	8			90				
26	- " -	Hadiyana	30.1.14	- " -	112	65			177				
27	Groundnut	On Campus	6.2.14	- " -	17	22		4	43				
28	- " -	On Campus	7.2.14	- " -	12	7			19				
29	- " -	On Campus	8.2.14	- " -	34	16			50				
30	- " -	On Campus	15.2.14	- " -	12	2		4	18				
31	Wheat, Cumin, Chickpea, Coriander,	Memana	6.3.14	- " -	12	2			14				

	Garlic,												
32		Falla	7.3.14	- " -	9	4			13				
33		Mavapar	7.3.14	- " -	8	5		4	17				
34		Dhuvav	8.3.14	- " -	6	9		6	21				
					1755	**773**		**199**	**2727**	**0.29860**	**0.29860**	**Nil**	

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)	1308640	15.00	1308640	Nil	- Nil -
Summer (Input Seed & Training)	161500		161500		
Other Contingency Expenditure	29860		29860		
TOTAL (Up to 13-2-2014)	**1500000**		**1500000**	**Nil**	

ANNEXURE-1

PROCEEDING OF THE 10th SCIENTIFIC ADVISORY COMMITTEE (SAC) MEETING OF KRISHI VIGYAN KENDRA, JAU, JAMNAGAR HELD ON 27th DECEMBER, 2013

The Tenth Scientific Advisory Committee meeting of Krishi Vigyan Kendra, JAU, Jamnagar was held at Training Hall, Krishi Vigyan Kendra, JAU, Jamnagar on 27th December, 2013.

The following members were remain present in the meeting.

Sr. No.	Name & Designation	Position
1	Dr. N. C. Patel, Vice Chancellor, Junagadh Agricultural University, Junagadh.	Chairman
2	Dr. A. M. Parakhia, Director of Extension Education, Junagadh Agricultural University, Junagadh -362001.	Member
3	Dr. C. J. Dangaria, Director of Research, Junagadh Agricultural University, Junagadh (Representative Dr. I. U. Dhruj, ADR)	Member
4	Dr. K. N. Akbari, Associate Director of Research, Main Dry Farming Research Station, Junagadh Agricultural University, Targhadia (Rajkot).	Member
5	Dr. P. R. Padhar, Research Scientist (Millet), Main Millet Research Station, Junagadh Agricultural University, Jamnagar- 361 006.	Member
6	Shri S. N. Bhanderi, I/c. District Agricultural Officer, District Panchayat, Jamnagar	Member
7	Shri A. H. Gadhvi, Project Director, District Watershed Development Unit, District Rural Development Agency, Sardar Bhavan, Rameshwarnagar, Jamnagar (Navagam Ghed). (Representative)	Member
8	Dr. A. M. Patel, Dy. Director of Animal Husbandry, Dept. of Veterinary & Animal Husbandry, District Panchayat, Jamnagar (Representative)	Member
9	Shri C. K. Thakkar, Dy. Conservation of Forest, Forest Department,(Extension), Nagnath Gate, Ganjiwad, Jamnagar (Representative)	Member
10	Shri A. M. Sharma, Deputy Director, Gujarat Land Development Corporation Ltd., Near: Shubhash Market, Jamnagar. (Representative)	Member
11	Shri P. C. Malli, Asstt. Director of Fisheries, Sumer club road, Jamnagar	Member
12	Shri V. K. Dholariya, Station Director, All India Radio, B/h. Galaxy Cinema, Rajkot (Representative)	Member
13	Shri N. G. Akolkar, Research Officer, Fisheries Research Station, Okha	Member
14	Dr. B. B. Kabaria, Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Tadghadiya (Rajkot), Rajkot-Ahmedabad Highway	Member
15	Progressive farmer (G): Shri. Mahendrabhai Ramjibhai Vachhani, "Shani Krupa" Bhagat Plot Main Road, AT & Po. Lalpur, Ta.:- Lalpur, Dist. Jamnagar.	Member
16	Progressive farm women (G): Smt Shitalben Mahendrabhai Vachhani, "Shani Krupa" Bhagat Plot Main Road, AT & Po. Lalpur, Ta.:- Lalpur, Dist. Jamnagar.	Member
17	Progressive farmer (SC): Shri Arjanbhai Khetabhai Makwana, At:- Dadiya, Ta & Dist.- Jamnagar	Member

18	Progressive farm women (SC): Smt. Sumiben Arjanbhai Makwana, At:- Dadiya, Ta & Dist.- Jamnagar	Member
19	Progressive farmer (Horticulture) : Shri Hirabhai Veljibhai Nakum, At.:- Dharampur, Ta;- Khambhadia, Dist:- Jamnagar	Member
20	Progressive farmer (Animal Husbandry) : Shri. Kantilal Bhagwanjibhai Ajudia, At. Makwana, Ta. & Dist.- Jamnagar.	Member
21	Dr. K. L. Raghvani, Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Jamnagar	Member Secretary
22	Dr. K.P. Baraiya SMS, Plant Protection, KVK, JAU, Jamnagar	Member
23	Shri P.S. Gorfad SMS, KVK, JAU, Jamnagar	Member
24	Smt. Anjanaben K. Baraiya SMS, KVK, JAU, Jamnagar	Member
25	Dr. J.N. Thaker SMS, KVK, JAU, Jamnagar	Member
26	Shri S. N. Galani Agril. Officer, KVK, JAU, Jamnagar	Member

Dr. P. R. Padhar, Research Scientist (Pearl Millet), Pearl Millet Research Station, JAU, Jamnagar welcomed the dignitaries and all the members of the Scientific Advisory Committee and highlighted the brief achievements of the centre.

Dr. N. C. Patel, Hon'ble Vice-Chancellor and Chairman of Scientific Advisory Committee chaired the meeting.

After garlanding the guests and dignitaries on the Dias, and inaugurating the meeting by lightening a lamp. Dr. A.M. Parakhia, Directorate of Extension Education, JAU, Junagadh delivered the introductory address. He gives more emphases on the convergence of KVK activity with other line department. He also suggested that there should be a strong convergence of KVK with ATMA, create awareness in ATMA FIG group for mechanized farming. He also noted that training which is given to the farmers should be highly effective. Farmers as well as line department are expecting more regarding modern technology of agriculture from Krishi Vigyan Kendra.

Dr. K. L. Raghvani, Programme Coordinator, Krishi Vigyan Kendra, JAU, Jamnagar presented action taken report of the minutes of 9th SAC meeting, progress report (April- 2013 to December-2013) and Action Plan (April 14 to March- 2015).

Suggestions made by committee members during presentation:

1.	Dr. N. C. Patel, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh & Chairman of the SAC suggested that the presentation should be in local language and also

	prepare report in Gujarati for farmers; it should be reach to the members before one week. He also advice to made generator facility in training hall and proper arrangement of sound system. He also noted to develop museum at KVK. He also advice to arrange training programme on awareness regarding malnutrition in farm women and children & nutritional balance diet. He gives emphasis on fish farming, vocational training on ornamental fish, fish preservation & value addition. He advice to recast the training title of fisheries with the help of Dr. P.C. Malli, Assistant Director of Fisheries, Jamnagar and Shri N. G. Akolkar, Research Officer, Fisheries Research Station Okha. He also suggested to change training title regarding extension discipline.
2.	Dr. A. M. Parakhia, Director of Extension Education, JAU, Junagadh stated that training on method of soil sampling, soil fertility management and green manuring should be included in action plan. He suggested to kept soil & water analysis laboratory in working condition. He noted to participate jointly in animal camp organized by Department of Animal Husbandry. He also suggested organizing training on animal husbandry to develop entrepreneurship. He suggested that FLD should be conducted on vegetable varieties released by JAU.
3.	Dr. K. N. Akbari, Associate Director of Research (North Saurashtra Agro-climatic Zone) and Research Scientist (DF), Dry Farming Research Station, JAU, Targhadia suggested to organize training on repairs and maintenance of micro irrigation system should arrange during third quarter.
4.	Dr. P. C. Malli, Assistant Director of Fisheries, Jamnagar suggested to organize training on importance and techniques of cage culture during first quarter. He also suggested to organize vocational training for rural youth on rearing and production of ornamental fish and fish feed.
5.	Shri N. G. Akolkar, Research Officer, Fisheries Research Station, Okha suggested to arrange training on composite fish culture during second quarter. He also suggested to organize training on sea weed culture collection and preparation of sea weed fertilizer.
6.	Shri Kantila B. Ajudia, a progressive farmer suggested to organize more umber of training on drip and sprinkler irrigation.
7.	Shri Hirabhai Nakum, a progressive farmer suggested to arrange training on food processing and value addition.

Dr. I. U. Dhruj, Associate Directorate of Research, JAU, Junagadh delivered special remarks on scope of potato cultivation particularly in Jamnagar and Jam Khambhadia taluka and short duration pea in Jamnagar district. According to him crop diversification on coriander is found in this district. There is good breed of buffalo is available in Lalpur, Jam Kalyanpur and Jam Khambhadia for development of animal husbandry.

After above suggestions from the house Dr. N. C. Patel, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh, delivered the chairmen's remarks. He suggested to review the impact on entrepreneur development through vocational training. He emphasize on documentation and publication of work done by KVK and suggested to published by press note.

The meeting ended with the vote of thanks by Dr. K. P. Baraiya, Subject Matter Specialist, KVK, J.A.U., Jamnagar.

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.

Chairman, SAC
KVK, JAU, Jamnagar
&
Vice Chancellor
Junagadh Agricultural University
Junagadh

ANNEXURE-II

DETAILS OF TRAINING PROGRAMMES CONDUCTED DURING 2013-14

Sr. No.	Date	Client	Title of Training Programme	Discipline	Thematic area	Duration	Vanue (On / Off Campus)	No. of Participant								
								General			SC/ST			Total		
								M	F	T	M	F	T	M	F	T
1	17.4.13	PF	Role of scientific technique in Agricultural Development	Capacity Building	Capacity Building	1	ON	35	0	35	1	0	1	36		36
2	18.4.13	PF	Judicious use of fertilizer, irrigation water and pesticides for higher yield	Crop Production	INM, MIS, IPM	1	ON	39		39				39		39
3	20.4.13	PF	Importance of latest technology in Agricultural development	Crop Production	ICM, IPM	1	ON	66	4	70				66	4	70
4	21.4.13	PF	Crop arrangement and nutrient management	Soil Health	INM	1	OFF	0	0		180	65	245	180	65	245
5	22.4.13	PF	IPM in Vegetable crops	Plant Protection	IPM, IDM	1	ON	42	0	42	13	0	13	55		55
6	24.4.13	PF	Importance of MIS	Agril. Engineering	MIS	1	OFF	42		42				42		42
7	25.4.13	PF	Animal disease and its prevention	Animal Husbandary	Animal Husbandry	1	ON	45		45			0			45
8	26.4.13	PF	Animal disease and its prevention	Animal Husbandary	Animal Husbandry	1	ON	50		50			0			50
9	29.4.13	PF	MIS, INM, IPM for higher yield	Agril Engg	MIS	1	ON	48		48	2		2	50		50
10	1.5.13	PF	Management of mealybug and whitegrub during kharif season	Plant Protection	IPM, IDM	1	ON	12	0	12	18		18	30		30
11	2.5.13	PF	Seed treatment in kharif crop	Plant Protection	IPM, IDM	1	ON	12	0	12	18	0	18	30		30
12	3.6.13	PF	Use of solar cooker	Home Science	Solar Energy	1	OFF	0	31	31				0	31	31
13	5.6.13	PF	IPM & IDM in groundnut, cotton crops	Plant Protection	IPM, IDM	1	OFF	45	0	45	0	0		45		45
14	6.6.13	RY	Value adition in fruit and vegetable	Home Science	Value addition	1	OFF	0	23	23		2	2	0	25	25
15	13.6.13	PF	Use of wasteland in shrimp farming	Fisheries	Fisheries	1	OFF	16	4	20				16	4	20
16	16.6.13	PF	Pre-seasonal trainng on kharif crops	Crop Production	ICM, IPM	1	OFF	17	1	18	5		5	22	1	23
17	17-18.6.13	PF	Werehousing structures and mangement of storage pests	Plant Protection	IPM, IDM	3	ON	16	0	16	29	0	29	45		45
18	17.6.13	PF	Quality production through scientiic technology	Production of input at a site	ICM, IPM	1	ON	40		40	5		5	45		45
19	17-20.6.13	PF	Kharif crop protection and production technology	Crop Production	ICM, IPM	3	ON	7	0	7	23	0	23	30		30
20	18.6.13	PF	Judicious use of fertilizer	soil Health	INM	1	ON	25		25				25		25
21	25.6.13	PF	Preservation of Mango pulp	Vocational	Value addition	1	OFF	0	34	34		4	4	0	38	38
22	26.6.13	PF	IPM & IDM in groundnut, cotton crops	Plant Protection	IPM, IDM	1	OFF	23	12	35	3	2	5	26	14	40
23	27.6.13	PF	IPM & IDM in groundnut, cotton crops	Plant Protection	IPM, IDM	1	OFF	18	0	18	12	0	12	30		30

24	28.6.13	PF	After care for better production in kharif crops	Crop Production	ICM, IPM	1	OFF	18		18				18		18
25	28.6.13	PF	Protective Cultivation	Horticulture	Protected cultivation	1	OFF	20		20				20		20
26	28.6.13	PF	IPM & IDM in groundnut, cotton crops	Plant Protection	IPM, IDM	1	OFF	8	0	8	11	0	11	19		19
27	29.6.13	PF	To create awarness about Environment Protection among fishermen of Jamnagar District	Fisheries	Fisheries	1	ON	0			7	8	15	7	8	15
28	30.6.13	PF	To create awareness about Environment protection among fishermen of Jamnagar District	Fisheries	Fisheries	1	OFF	18		18				18		18
29	4.7.13	PF	Balanced use of fertilizer for higher yield	Soil Health	INM	1	OFF	45		45	7		7	52		52
30	5.7.13	PF	IPM, IDM, INM in groudnnut and cotton	Plant Protection	IPM, IDM	1	OFF	31	0	31	8		8	39		39
31	6.7.13	PF	After care in kharif crops	Crop Production	ICM, IPM	1	ON	30		30				30		30
32	8-10.7.13	PF	IPM & IDM in kharif crop	Plant Protection	IPM, IDM	3	ON	22	0	22	6	0	6	28		28
33	9.7.13	PF	Integrated nutrient management	soil Health	INM	1	ON	27		27				27		27
34	17.7.13	PF	Management of whitegrub in groundnut	Plant Protection	IPM, IDM	1	OFF	23		23	2		2	25		25
35	22-24.7.13	PF	IPM and IDM in kharif crops	Plant Protection	IPM, IDM	3	ON	23	0	23	7	0	7	30		30
36	23.7.13	PF	Upliftment of farmers through latest technology	Capacity Building	Capacity Building	1	ON	28		28				28		28
37	24.7.13	PF	IPM and IDM in kharif crops	Plant Protection	IPM, IDM	1	OFF	32	8	40	15	6	21	47	14	61
38	25.7.13	PF	IPM in cotton and groundnut	Plant Protection	IPM, IDM	1	OFF	32		32	7		7	39		39
39	25.7.13	PF	IPM, IDM, INM in kharif crops	Plant Protection	IPM, IDM	1	OFF	8	0	8	36	0	36	44		44
40	26.7.13	PF	IPM in cotton and groundnut	Plant Protection	IPM, IDM	1	OFF	35		35				35		35
41	29.7.13	PF	IPM, IDM, INM in kharif crops	Plant Protection	IPM, IDM	1	OFF	61	0	61	11	0	11	72		72
42	3.8.13	PF	IPM, IDM, INM in Horticultural Crops	Plant Protection	IPM, IDM	1	ON	34	16	50	16	4	20	50	20	70
43	7.8.13	PF	Plant protection in groundnut	Plant Protection	IPM, IDM	1	OFF	14	7	21				14	7	21
44	12.8.13	PF	IPM, IDM, INM in Horticultural Crops	Plant Protection	IPM, IDM	1	ON	9	2	11	5	0	5	14	2	16
45	13.8.13	RY	Income generation activities for empowerement of rural women.	Home Sci	Empowerment	1	ON		18	18				0	18	18
46	14.8.13	PF	IPM, IDM, INM in Horticultural Crops	Plant Protection	IPM, IDM	1	ON	10	0	10	4	0	4	14		14
47	15.8.13	PF	IPM, IDM, INM in kharif crops	Plant Protection	IPM, IDM	1	OFF	93	0	93	17	0	17	110		110
48	16.8.13	PF	MIS for agriculture	Agril Engg	MIS	1	ON	26		26	1		1	27		27
49	16-17.8.13	PF	IPM & IDM in kharif crop	Plant Protection	IPM, IDM	2	ON	23	0	23	4	0	4	27		27
50	16.8.13	PF	IPM and IDM in kharif crops	Plant Protection	IPM, IDM	1	ON	23	0	23	4	0	4	27		27
51	22.8.13	PF	IPM, IDM, INM in kharif crops	Plant Protection	IPM, IDM	1	OFF	26	0	26	6	0	6	32		32
52	4.9.13	PF	IPM & MIS in groundnut	Agril.	IPM, MIS	1	OFF	19	7	26				19	7	26

				Engineering												
53	4.9.13	PF	Pest management in groundnut and cotton	Plant Protection	IPM, IDM	1	OFF	9		9	16		16	25		25
54	7.9.13	PF	Drudgery reduction technology	Home Science	Drudgery reduction	1	OFF	0	2	2		23	23	0	25	25
55	19.9.13	PF	IPM in cotton and micro irrigation system	Plant Protection	IPM, IDM	1	OFF	29		29	8		8	37		37
56	19.9.13	PF	White grub control	Plant Protection	IPM, IDM	1	OFF	31	0	31				31		31
57	26.9.13	PF	Insect Pest of onion and garlic	Plant Protection	IPM, IDM	1	ON	85	0	85	10	0	10	95		95
58	16.10.13	PF	Iportance of MIS in rabi crops	Agril. Engineering	IPM, MIS	1	OFF	148		148	9		9	157		157
59	18.10.13	PF	IPM in cotton and improved iplements for farming	Plant Protection	IPM, IDM	1	OFF	59	0	59	16	0	16	75		75
60	23.10.13	PF	Youths and environment conservation	Capacity Building	Capacity Building	1	ON	5	13	18				5	13	18
61	23.10.13	PF	Scope and value addition in fisheries sector	Fisheries	Fisheries	1	ON				5	13	18	5	13	18
62	28.10.13	PF	IPM and seed producyiton technology	Plant Protection	IPM, IDM	1	ON	21	3	24	8	0	8	29	3	32
63	29.10.13	PF	Seed production and IPM in rabi crops	Production of input at a site	ICM, IPM	1	OFF	13	0	13	8	0	8	21		21
64	31.10.13	PF	Seed production and IPM in rabi crops	Production of input at a site	ICM, IPM	1	OFF	8	0	8	12	0	12	20		20
65	22.11.13	PF	Plant protection in horticultural and spices crops	Plant Protection	IPM, IDM	1	ON	66	0	66	34	0	34	100		100
66	27.11.13	PF	Kitchen gardening and its major constraints	Home Science	Kitchen gardening	1	OFF	23	0	23	59	0	59	82		82
67	28.11.13	PF	Kitchen gardening and its major constraints	Home Science	Kitchen gardening	1	OFF	11	0	11	7	0	7	18		18
68	30.11.13	PF	INM and MIS in rabi crops	Crop Production	INM	1	ON	42		42				42		42
69	2.12.13	PF	Integrated nutrition management in rabi crops	Soil Health	INM	1	OFF	21		21				21		21
70	5.12.13	PF	Importance of vermicompost	Home Sci	Empowerment	1	ON	20		20	6		6	26		26
71	10.12.13	PF	Production technology of Cotton	Crop Production	ICM, IPM	1	ON	35	0	35	22	0	22	57		57
72	14.12.13	PF	Trainin on importance of composite fish culture of Indian major carp & exotic carp.	Fisheries	Fisheries	1	OFF	23		23				23		23
73	17.12.13	PF	Preservation of fruit and vegetable	Home Science	Empowerment	1	OFF		20	20				0	20	20
74	18.12.13	PF	IPM and IDM in rabi crops	Plant Protection	IPM, IDM	1	OFF	15	0	15	6	0	6	21		21
75	20.12.13	PF	Value addition through crab fattening	Fisheries	Fisheries	1	OFF	16		16				16		16
76	26.12.13	PF	Important techniques for cage culture & pen culture	Fisheries	Fisheries	1	OFF	28		28				28		28
77	6.1.14	EF	Seed Production technology and IPM in these crops	Extension Personel	Seed production	1	ON	17	10	27	1	2	3	18	12	30
78	7.1.14	PF	Seed production and IPM in rabi crops & Vermicompost	Production of input at a site	ICM, IPM	1	OFF	56	0	56	11		11	67		67
79	8.1.14	PF	IPM in rabi crops and Use	Plant	IPM, IDM	1	OFF	32		32	6		6	38		38

			of improved implements	Protection												
80	9.1.14	PF	IPM in rabi crops and Use of improved implements	Plant Protection	IPM, IDM	1	OFF	180	50	230	20		20	200	50	250
81	13.1.14	PF	IPM in rabi crops and Use of improved implements	Plant Protection	IPM, IDM	1	OFF	240	30	270	80		80	320	30	350
82	16.1.14	PF	IPM in rabi crops and Use of improved implements	Plant Protection	IPM, IDM	1	OFF	50		50	15		15	65		65
83	16.1.14	PF	IPM in rabi crops and Use of improved implements	Plant Protection	IPM, IDM	1	OFF	82		82	8		8	90		90
84	28.1.14	RY	Role of women in Agricultural development	Rural Youth	Empower ment	1	ON	0	40	40				0	40	40
85	29.1.14	PF	Leadership development among rural youth	Capacity Building	Capacity Building	1	OFF	25		25				25		25
86	30.1.14	PF	IPM in rabi crops and Use of improved implements	Plant Protection	IPM, IDM	1	OFF	112		112	65		65	177		177
87	14.02.14	PF	Importance of Vermicompost	Home Science	Empower ment	1	OFF	55		55	3		11	18	0	18
88	15.2.14	PF	Seed Production technology and IPM in these crops	Crop Production	ICM, IPM	1	ON	7	0	7	11			70		70
89	15.2.14	PF	INM & MIS for higher crop production	Crop Production	INM, MIS, IPM	1	OFF	70		70			3	58		58
90	26.2.14	PF	Solar energy in agriculture and use of MIS in agriculture	Agril Engg	Solar Energy	1	ON	40	0	40	10		10	50		50
91	3.3.14	PF	Value adition in ruit & vegetable and nutritive value	Home Science	Value addition	1	OFF		22	22		2	2	0	24	24
92	6.3.14	PF	Storage techniques for farm produce and IMP in Summer crops	Home Science	ICM, IPM	1	OFF	12		12	2		2	14		14
93	7.3.14	PF	Storage techniques for farm produce and IMP in Summer crops	Home Science	ICM, IPM	1	OFF	8	4	12	5		5	13	4	17
94	8.3.14	PF	Storage techniques for farm produce and IMP in Summer crops	Home Science	ICM, IPM	1	OFF	6	6	12	9		9	15	6	21
95	10.3.14	PF	Storage Techniques and IPM in summer crops	Extension Personel	Seed productio n	1	ON	22	1	23	6	0	6	28	1	29
96	12.3.14	PF	Importance of Vermicompost and value addition in agricultural production	Home Sci	Empower ment	1	ON	30		30	1		1	31		31
97	20.3.14	PF	Training on mix culture of carp spp. With fresh water prawn	Fisheries	Fisheries	1	OFF	0	0	0	18		18	18	0	18
98	21.3.14	PF	Preservation of Vegatable and Fruit	Vocational	Value addition	1	OFF	0	30	30		1	1	0	31	31
99	26.3.14	PF	Storage techniques for farm produce and IMP in Summer crops	Home Science	ICM, IPM	1	OFF	10	7	17	8		8	18	7	25
100	31.3.14	RY	Fabrication and maintanance of aquarium and culture technique of some common ornamental fishes	Fisheries	Fisheries	1	ON	0	0	0	6	6	12	6	6	12
								3098	**405**	**3503**	**994**	**138**	**1132**	**3997**	**543**	**4635**

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 (Pod Borer)

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 Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Bhagvanji Dharamsibhai	Kunad	Jodiya	9537578222	22^{0}39'17.9"	070^{0}19'11.6"
2	Baldevbhai Lavjibhai	Kunad	Jodiya	9979293133	22^{0}38'45.6"	070^{0}18'46.6"
3	Govindbhai Gandubhai	Kunad	Jodiya	9979627154	22^{0}39'45.0"	070^{0}18'33.8"
4	Kishanbhai Nathabhai	Kunad	Jodiya	9727018038	22^{0}39'23.4"	070^{0}19'11.2"
5	Rameshbhai Gopalbhao	Kunad	Jodiya	9428988372	22^{0}39'14.6"	070^{0}18'33.5"
6	Ranmalbhai Sidabhai	Datrana	Khambhaliya	-	22^{0}11'04.8"	069^{0}24'53.5"
7	Karabhai Rambhai	Datrana	Khambhaliya	9725528741	22^{0}11'01.1"	069^{0}24'53.0"
8	Pithabhai Bhimsibhai	Datrana	Khambhaliya	9913116676	22^{0}11'02.0"	069^{0}24'50.2"
9	Alabhai Devanandbhai	Datrana	Khambhaliya	9898918364	22^{0}11'03.0"	069^{0}24'54.3"
10	Arsibhai Karshanbhai	Datrana	Khambhaliya	9723318640	22^{0}10'55.8"	069^{0}24'56.3"

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. 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 Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Vallabhbhai Khimabhai	Nathuvadla	Dhrol	9978561093	22^{0}34'49.0"	070^{0}20'39.6"
2	Karshanbhai Jasabhai	Nathuvadla	Dhrol	9737875929	22^{0}34'32.5"	070^{0}21'03.1"
3	Virambhai Dudabhai	Ladva	Dwarka	9638662444	22^{0}15'07.4"	069^{0}00'54.8"
4	Mansibha Raydharbha	Dwarka	Dwarka	9638036138	22^{0}14'23.5"	069^{0}01'00.6"
5	Mayabha Visabha	Mota Bhavda	Dwarka	7600100872	22^{0}14'31.5"	069^{0}05'11.2"
6	Punjabha Kumbhabha	Gorinja	Dwarka	8141815085	22^{0}10'02.4"	069^{0}03'22.3"
7	Dhanabhai Pethabhai	Khirasara	Kalyanpur	9925477367	21^{0}58'41.3"	069^{0}37'02.4"

8	Goganbhai Hamirbhai	Khirasara	Kalyanpur	9725317925	21^{0}59'16.9"	069^{0}35'45.8"
9	Pradipsinh Mansang	Dhichda	Jamnagar	9979089159	22^{0}29'22.1"	070^{0}00'11.4"
10	Bhimjibhai Vajsibhai	Dhichda	Jamnagar	9737832008	22^{0}29'18.8"	070^{0}00'10.4"

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.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 Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Bhagvanji Lakhmanbhai	Vasantpur	Jamjodhpur	9925399493	21^{0}55'41.2"	070^{0}00'12.3"
2	Tapubhai Khimabhai	Vasantpur	Jamjodhpur	9924339932	21^{0}55'04.8"	069^{0}58'55.6"
3	Sanjaybhai Chanabhai	Vasantpur	Jamjodhpur	9925754518	21^{0}55'43.2"	069^{0}59'52.1"
4	Kishorbhai Rajabhai	Vasantpur	Jamjodhpur	9978818409	21^{0}56'27.1"	069^{0}58'44.0"
5	Nagabhai Samatbhai	Vasantpur	Jamjodhpur	9978560431	21^{0}55'39.7"	070^{0}00'08.6"
6	Rajabhai Bavanjibhai	Vasantpur	Jamjodhpur	9099662850	21^{0}56'54.4"	069^{0}58'53.8"
7	Nathabhai Valabhai	Vasantpur	Jamjodhpur	9537842514	21^{0}56'53.4"	069^{0}58'52.6"
8	Parbatbhai Rudabhai	Vasantpur	Jamjodhpur	9726793286	21^{0}55'49.8"	069^{0}59'42.7"
9	Kanjibhai Laljibhai	Limbuda	Jodiya	02777703	22^{0}37'06.8"	070^{0}18'56.8"
10	Mansukhbhai Narshibhai	Limbuda	Jodiya	9429272846	22^{0}36'37.1"	070^{0}18'35.6"
11	Gopalbhai Nathubhai	Limbuda	Jodiya	9426124295	22^{0}37'01.7"	070^{0}18'05.0"
12	Amrutlal Kanjibhai	Limbuda	Jodiya	9979646433	22^{0}37'06.7"	070^{0}18'55.8"
13	Harkhabhai Dosabhai	Limbuda	Jodiya	-	22^{0}37'06.2"	070^{0}18'51.5"
14	Nathabhai Kurjibhai	Limbuda	Jodiya	-	22^{0}36'39.9"	070^{0}18'35.1"
15	Pitambarbhai Laljibhai	Limbuda	Jodiya	8980702397	22^{0}37'06.2"	070^{0}18'51.0"
16	Gijubhai Jadavbhai	Ghunda	Jamjodhpur	9426568316	22^{0}04'03.8"	069^{0}58'29.6"
17	Balvantbhai Bhojabhai	Ghunda	Jamjodhpur	9979686558	22^{0}03'29.4"	069^{0}58'37.9"
18	Amrutlal Kanjibhai	Ghunda	Jamjodhpur	9328417775	22^{0}03'33.1"	069^{0}58'36.0"
19	Jadavbhai Harjibhai	Ghunda	Jamjodhpur	9687945292	22^{0}04'02.8"	069^{0}58'58.1"
20	Maheshbhai Ghelabhai	Soyal	Dhrol	9426970602	22^{0}33'17.2"	070^{0}20'55.8"
21	Chunilal Thakarshibhai	Soyal	Dhrol	8980241933	22^{0}33'43.9"	070^{0}21'16.3"
22	Bhaveshbhai Bachubhai	Soyal	Dhrol	9913925300	22^{0}33'51.6"	070^{0}21'09.6"
23	Madhavjibhai Kalabhai	Soyal	Dhrol	9913987033	22^{0}33'46.0"	070^{0}21'09.5"
24	Mangabhai Devshibhai	Soyal	Dhrol	9714018093	22^{0}33'35.0"	070^{0}20'43.3"
25	Pethabhai Devshibhai	Soyal	Dhrol	9099219526	22^{0}33'39.7"	070^{0}20'42.2"

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. Groundnut (Trichoderma)

6) Production system :- Rainfed
7) Problem Definition :- Management of stem rot
8) Title of the technology demonstrated :- Integrated Pest Management
9) Thematic area :- Integrated Disease Management
10) 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 Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Vallabhbhai Khimabhai	Nathuvadla	Dhrol	9978561093	22^{0}34'49.0"	070^{0}20'39.6"
2	Karshanbhai Jasabhai	Nathuvadla	Dhrol	9737875929	22^{0}34'32.5"	070^{0}21'03.1"
3	Virambhai Dudabhai	Ladva	Dwarka	9638662444	22^{0}15'07.4"	069^{0}00'54.8"
4	Mansibha Raydharbha	Dwarka	Dwarka	9638036138	22^{0}14'23.5"	069^{0}01'00.6"
5	Mayabha Visabha	Mota Bhavda	Dwarka	7600100872	22^{0}14'31.5"	069^{0}05'11.2"
6	Punjabha Kumbhabha	Gorinja	Dwarka	8141815085	22^{0}10'02.4"	069^{0}03'22.3"
7	Dhanabhai Pethabhai	Khirasara	Kalyanpur	9925477367	21^{0}58'41.3"	069^{0}37'02.4"
8	Goganbhai Hamirbhai	Khirasara	Kalyanpur	9725317925	21^{0}59'16.9"	069^{0}35'45.8"
9	Pradipsinh Mansang	Dhichda	Jamnagar	9979089159	22^{0}29'22.1"	070^{0}00'11.4"
10	Bhimjibhai Vajsibhai	Dhichda	Jamnagar	9737832008	22^{0}29'18.8"	070^{0}00'10.4"

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. 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 Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Kanjibhai Khimjibhai	Nathuvadla	Dhrol	-	22^{0}35'08.7"	070^{0}20'34.8"
2	Divyeshbhai Maganbhai	Nathuvadla	Dhrol	9638330015	22^{0}34'33.5"	070^{0}20'51.2"
3	Laljibhai Shanjibhai	Nathuvadla	Dhrol	9978563484	22^{0}34'33.2"	070^{0}20'13.4"
4	Rameshbhai Becharbhai	Nathuvadla	Dhrol	9977186336	22^{0}35'09.6"	070^{0}20'37.5"
5	Hansrajbhai Khimjibhai	Nathuvadla	Dhrol	9899464374	22^{0}34'50.4"	070^{0}20'39.1"

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

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

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

6. Pearl millet

1) Production system :-Rainfed
2) Problem Definition :- Low yield of Pearl millet
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 - 2009
6) Source of technology :- Pearl Millet Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Derajbha Radharbha	Dwarka	Dwarka	9979495811	22^{0}14'25.3"	069^{0}00'58.9"
2	Harji Devshi	Dwarka	Dwarka	9722872539	22^{0}14'22.1"	069^{0}00'55.6"
3	Virabha Munjabha	Mota Bhavda	Dwarka	9725475081	22^{0}14'32.6"	069^{0}05'12.4"
4	Gangadharbha Nandhabha	Mota Bhavda	Dwarka	9904071731	22^{0}13'55.1"	069^{0}04'41.3"
5	Bhayabha Varjangbha	Mota Bhavda	Dwarka	9723943942	22^{0}13'26.4"	069^{0}05'59.9"
6	Balubha Nathubha	Mota Bhavda	Dwarka	9558653213	22^{0}13'56.4"	069^{0}03'51.0"
7	Budhabha Mumayabha	Mota Bhavda	Dwarka	9978584749	22^{0}14'08.2"	069^{0}03'53.5"
8	Bhojabha Karshanbha	Mota Bhavda	Dwarka	9275228459	22^{0}13'25.0"	069^{0}06'02.3"
9	Virambha Polabha	Mota Bhavda	Dwarka	9601966409	22^{0}13'24.4"	069^{0}06'06.1"
10	Navghanbha Oghabha	Mota Bhavda	Dwarka	-	22^{0}13'23.2"	069^{0}06'14.8"
11	Ranmalbha Rajabha	Mota Bhavda	Dwarka	9974149070	22^{0}14'07.3"	069^{0}03'52.2"
12	Davubha Karubha	Gorinja	Dwarka	9909662204	22^{0}09'50.4"	069^{0}03'21.8"
13	Rajeshbhai Bhimabhai	Dhichda	Jamnagar	9737832008	22^{0}29'18.4"	070^{0}00'14.8"
14	Jentilal Bhagvanjibhai	Dwarka	Dwarka	9714449211	22^{0}14'31.7"	069^{0}01'11.1"
15	Hirabhai Virambhai	Ladva	Dwarka	9638662444	22^{0}15'05.8"	069^{0}00'56.9"
16	Lakhmanbhai Dudabhai	Ladva	Dwarka	9638662653	22^{0}15'14.3"	069^{0}00'56.1"
17	Ashabhai Dudabhai	Ladva	Dwarka	9924199329	22^{0}15'11.5"	069^{0}00'43.5"
18	Ghelabhai Dudabhai	Ladva	Dwarka	9638662444	22^{0}15'16.6"	069^{0}00'46.8"
19	Varjangbhai Lakhmanbhai	Ladva	Dwarka	9638662653	22^{0}15'19.2"	069^{0}00'48.7"
20	Motiben Myajarbha	Gorinja	Dwarka	-	22^{0}10'11.0"	069^{0}03'25.6"

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

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

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

7. Chillli

1) Production system :-Irrigated
2) Problem Definition :-Title of the technology demonstrated Integrated pest Management in chillie
3) Thematic area :-Integrated Pest Management
4) Year of release of the technology or Year of assessment :-Year - 2001
6) Source of technology :- Vegetable Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Dineshbhai Premjibhai	Devgadh	Lalpur	9879404632	22^{0}13'06.6"	070^{0}04'26.5"
2	Pradumansinh H. Jadeja	Memana	Lalpur	9979372422	22^{0}14'40.3"	070^{0}02'24.5"
3	Devabhai Virabhai	Dudhala	Bhanvad	9429273381	21^{0}51'38.4"	069^{0}39'00.9"

4	Samatbhai Lakhabhai	Dudhala	Bhanvad	9724427085	21^{0}51'42.2"	069^{0}38'38.9"
5	Hirabhai Samatbhai	Dudhala	Bhanvad	8469943150	21^{0}51'30.5"	069^{0}38'39.4"

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. Brinjal

6) Production system :-Irrigated
7) Problem Definition :-
8) Title of the technology demonstrated :-Integrated pest Management in brinjal
9) Thematic area :-Integrated Pest Management
10) Year of release of the technology or Year of assessment :-Year - 2006
6) Source of technology :- Vegetable Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Jagdishsinh Bapubha	Memana	Lalpur	9979022802	22^{0}15'14.5"	070^{0}02'15.9"
2	Bhagvatsinh M. Jadeja	Memana	Lalpur	9427256664	22^{0}15'22.5"	070^{0}01'57.6"
3	Maldebhai Rajsibhai	Fotdi	Bhanvad	9428863280	22^{0}01'40.1"	069^{0}51'43.3"
4	Khengarbhai Jesangbhai	Mokhana	Jamnagar	9723126664	22^{0}23'46.1"	070^{0}07'14.1"
5	Ranabhai Haribhai	Mokhana	Jamnagar	9879278595	22^{0}23'40.8"	070^{0}07'16.3"

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

9. 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 Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Dangar Gandubhai Punabhai	Kadbal	Jamjodhpur	9924402810	21^{0}58'17.4"	70^{0}02'40.3"
2	Harijan Valiben Naranbhai	Kadbal	Jamjodhpur	--	21^{0}58'10.9"	70^{0}02'30.2"
3	Varu Kesurbhai Fogabhai	Kadbal	Jamjodhpur	9427247936	21^{0}58'21.5"	70^{0}02'55.5"
4	Gordhanbhai Bhanabhai	Kadbal	Jamjodhpur	9904365793	21^{0}58'12.8"	70^{0}02'47.8"
5	Aher Dhanabhai Karshanbhai	Kadbal	Jamjodhpur		21^{0}58'08.7"	70^{0}02'26.9"
6	Vadecha Punitbhai Ranabhai	Kadbal	Jamjodhpur	9904691582	21^{0}58'15.5"	70^{0}02'46.8"
7	Varaniya Amratben Dharamsi	Kadbal	Jamjodhpur	9924245198	21^{0}58'17.4"	70^{0}02'37.9"

8	Parbatbhai Bhanabhai	Kadbal	Jamjodhpur	9904480741	21^{0}58'11.7"	70^{0}02'39.8"
9	Barai Murubhai Karshanbhai	Kadbal	Jamjodhpur	9578008496	21^{0}57'58.5"	70^{0}02'20.1"
10	Vadecha Ashokbhai Bhanabhai	Kadbal	Jamjodhpur	9737018717	21^{0}58'09.8"	70^{0}02'42.8"
11	Vala Taraba Keshubha	Gorakhadi	Jamjodhpur	8511947715	21^{0}58'18.7"	70^{0}08'22.2"
12	Vala Mansang Nathubha	Gorakhadi	Jamjodhpur	-	21^{0}58'14.9"	70^{0}08'24.0"
13	Vagh Shamjibhai Nathabhai	Gorakhadi	Jamjodhpur	8511568566	21^{0}58'19.5"	70^{0}08'18.0"
14	Hirpara Pravinbhai Hirjibhai	Gorakhadi	Jamjodhpur	9998872181	21^{0}58'17.1"	70^{0}08'17.7"
15	Hirapara Chhaganbhai Hirabhai	Gorakhadi	Jamjodhpur	--	21^{0}58'14.1"	70^{0}08'17.3"
16	Hirapara Nanjibhai Dharamsi	Gorakhadi	Jamjodhpur	9998772718	21^{0}58'10.0"	70^{0}08'18.2"
17	Hirapara Panchiben Ramjibhai	Gorakhadi	Jamjodhpur	--	21^{0}58'12.6"	70^{0}08'18.0"
18	Jadeja Kishorsinh Shaktubha	Gorakhadi	Jamjodhpur	9558351351	21^{0}58'52.5"	70^{0}08'10.4"
19	Jadeja Krushnapalsinh Jayendrasinh	Gorakhadi	Jamjodhpur	9427510749	21^{0}58'58.5"	70^{0}07'44.9"

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

10. 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 Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Chavda Manjibhai Arjanbhai	Vankiya	Dhrol	9979292481	22^{0}34'36.5"	70^{0}23'10.3"
2	Chavda Premjibhai Mavjibhai	Vankiya	Dhrol	9825271257	22^{0}33'40.8"	70^{0}22'49.2"
3	Kasturben Ambabhai	Vankiya	Dhrol	9925064400	22^{0}32'45.7"	70^{0}23'23.5"
4	Rameshkumar Gangarambhai	Vankiya	Dhrol	9537933108	22^{0}34'14.7"	70^{0}23'10.7"
5	Rameshbhai Ambabhai	Vankiya	Dhrol	9909165041	22^{0}34'21.7"	70^{0}23'03.7"
6	Chauhan Nathabhai Mesurbhai	Lakhtar	Jodiya	9879292303	22^{0}37'41.9"	70^{0}22'55.2"
7	Tarsibhai Dharsibhai	Lakhtar	Jodiya	9898725324	22^{0}37'46.1"	70^{0}22'56.0"
8	Becharbhai Motibhai	Lakhtar	Jodiya	9427226092	22^{0}38'33.3"	70^{0}23'22.1"
9	Mansukhbhai Dhanjibhai	Lakhtar	Jodiya	9824928525	22^{0}37'51.4"	70^{0}23'40.1"
10	Sukhdevbhai Kanjibhai	Lakhtar	Jodiya	9662199575	22^{0}37'50.3"	70^{0}23'36.0"

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

11. 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 Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Raghvani Vashrambhai Mohanbhai	Balambha	Jodiya	9099431108	$22^0$45'32.6"	$70^0$26'17.6"
2	Dalvadi Rameshbhai Nanjibhai	Balambha	Jodiya	9624548657	$22^0$44'10.6"	$70^0$26'48.1"
3	Chothani Labhuben Naranbhai	Balambha	Jodiya	9624085161	$22^0$45'52.4"	$70^0$26'48.4"
4	Kacha Amratlal Harjibhai	Balambha	Jodiya	9427510923	$22^0$45'26.8"	$70^0$26'32.9"
5	Bharatbhai Mohanbhai	Balambha	Jodiya	09096442331	$22^0$45'32.0"	$70^0$26'15.5"
6	Kacha Damjibhai Devsibhai	Balambha	Jodiya	8128460472	$22^0$44'10.9"	$70^0$26'48.7"
7	Dalvadi Maganlal Chhaganbhai	Balambha	Jodiya	7698104518	$22^0$44'07.7"	$70^0$26'43.1"
8	Chavda Arjanbhai Jethabhai	Manekpar	Dhrol	8154826160	$22^0$36'02.0"	$70^0$25'54.9"
9	Chavda Devjibhai Jivabhai	Manekpar	Dhrol	9898660364	$22^0$37'09.2"	$70^0$26'30.7"
10	Prakashbhai Gandubhai	Manekpar	Dhrol	9825519806	$22^0$36'12.9"	$70^0$26'17.2"
11	Gadhiya Gandulal Valjibhai-	Manekpar	Dhrol	9978819700	$22^0$35'53.2"	$70^0$26'17.3"
12	Kothiya Vasantben Vastabhai	Manekpar	Dhrol	9879239248	$22^0$37'17.0"	$70^0$25'42.2"
13	Gadhiya Tapubhai Nathabhai	Manekpar	Dhrol	9925085894	$22^0$36'42.4"	$70^0$26'58.6"
14	Ashwinbhai Karamshibhai	Manekpar	Dhrol	9726773913	$22^0$36'24.4"	$70^0$27'01.0"
15	Thakarshibhai Juthabhai	Manekpar	Dhrol	9229774574	$22^0$35'51.9"	$70^0$26'07.6"

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

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10) Process of farmers participation and their reaction

ANNEXURE – IV

TRAINING CUM WORKSHOP ATTENDED BY KVK STAFF

Sr. No.	Period	Name of Officer	Title	Venue or Place
1	5.4.13	Dr. K. L. Raghvani	Capacity Building meet with DWDU	BISAG, Gandhinagar
2	31.7.13	Dr. K. L. Raghvani	Capacity Building meet with DWDU	BISAG, Gandhinagar
3	20.9.13	Dr. K. L. Raghvani	Pest management in fruit and vegetable	Auditorium Hall, Junagadh Agricultural University, Junagadh
4	16.11.13	Dr. K. L. Raghvani	Bi-monthly workshop	Director of Extension Educaion, Junagadh Agricultural University , Junagadh
5	6.3.14	Dr. K. L. Raghvani	Bi-monthly workshop	Director of Extension Educaion, Junagadh Agricultural University , Junagadh
6	4.5.2013	Dr. K. P. Baraiya	Orientation workshop on "Krishi Mahotshav"	Auditorium Hall, Junagadh Agricultural University, Junagadh
7	20.9.2013	Dr. K. P. Baraiya	Plant protection on Vegetable and oilseeds crop	Auditorium Hall, Junagadh Agricultural University, Junagadh
8	5 to 7 December, 2013	Dr. K. P. Baraiya	New Dimension in Agricultural Extension Management	Director of Extension Education, Junagadh Agricultural University, Junagadh
9	4.5.2013	Dr. P. S. Gorfad	Orientation workshop on "Krishi Mahotshav"	Auditorium Hall, Junagadh Agricultural University, Junagadh
10	5 - 7.12.2013	Dr. P. S. Gorfad	New Dimension in Agricultural Extension Management	Director of Extension Education, Junagadh Agricultural University, Junagadh
11	23.12.13	Dr. P. S. Gorfad	Workshop on "Production technoogy of pomegranate & its management"	Townhall, Jamnagar
12	17th to 19th February, 2014	Dr. P. S. Gorfad	Recent Advances in Agricultural Technology	Conference Hall, ATIC Building, JAU, Junagadh
13	4.5.13	Dr. J. N. Thaker	Orientation programme for Krishi Mahotshav-2013	Auditorium Hall, Junagadh Agricultural University, Junagadh
14	15-20.7.13	Dr. J. N. Thaker	Recent advances in Acuaculture popularization through KVK's	CMFRI, (Central Marine Cochin Fishereis Research Institute)
15	17th to 19th February, 2014	Smt. A. K. Baraiya	Recent Advances in Agricultural Technology	Conference Hall, ATIC Building, JAU, Junagadh

ACTION PLAN
(APRIL – 2014 TO MARCH – 2015)

It is proposed to organize 69 batches of training programmes for farmers, farmwomen, rural youth and extension functionaries during period from April 2014 to March 2015.

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, 2014)**			
Crop Poduction	➢ Techniques of weed Management in major *kharif* crops	3	25	Farmers
Soil health and fertility mangt.	➢ Importance of Soil testing and fertility management	3	25	Farmers
Plant Protection	➢ IPM in vegetable and summer crops	3	25	Farmers
Fisheries	➢ Importance and Techniques of Cage Culture and Pen culture	3	25	Fishermen
Extension	➢ Use of ICT in agriculture	3	25	Farmers
II. Quarter :	**(1st July to 30th September, 2014)**	3		
Crop production	➢ Water management through micro irrigation system	3	25	Farmers
Soil health and fertility mangt.	➢ Integrated Nutrient management	3	25	Farmers
Plant protection	➢ IPM and IDM in vegetable and field crops	3	25	Farmers
Fisheries	➢ Importance of composite fish culture of Indian Major Carp and Exotic Carp Spp.	3	25	Farmers
Extension	➢ Leadership Development	3	25	Rural youth
Agril. Engineering	➢ Use of MIS in field crops	3	25	Farmers
III. Quarter	**(1st Oct to 31st Dec, 2014)**	3		
Crop production	➢ Organic Farming	3	25	Farmers
Horticulture	➢ Production & Management practices of spices	3	25	Farmers
Soil health and fertility mangt.	➢ Importance of major and micro nutrient in crops production	3	25	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	3	25	Farmers
Home Science	➢ Women and child care	3	25	Rural women
Agril. Engineering	➢ Use of plastics mulch in farming practices	3	25	Farmers
Plant Protection	➢ IPM and IDM in rabi crops	3	25	Farmers
Fisheries	➢ To create awareness about environment protection among fishermen	3	25	Fish farmers
Ext.Education	➢ Entrepreneurial Development of farmers / rural youths	3	25	Rural youth
IV. Quarter	**(1st Jan to 31st March, 2015)**	3		
Horticulture	➢ Protected cultivation (Green House, shed net etc.)	3	25	Farmers
Livestock Prod.	➢ Animal Nutrition and feed management	3	25	Farmers
Home science	➢ Value addition in agricultural produce	3	25	Rural Girls
Agril. Engineering	➢ Food processing and value addition	3	25	Farmers
Plant protection	➢ Pest management of vegetable crops	3	25	Farmers
Fisheries'	➢ Development of Small Scale ornamental fish hatchery	3	25	Fish Farmers
Extension	➢ Group dynamics	3	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, 2014)**			
Crop Production	➢ Water management through micro irrigation system	1	50	Farmers
Soil health and fertility mangt.	➢ Soil sampling methods and 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	➢ Use of Plastick mulch in farming practices	1	50	Farmers
Pl. Protection	➢ Integrated pest and disease management in summer crops	1	50	Farmers
	➢ Management of store grain pest in groundnut and pulse crop	1	50	Farmers
Fisheries	➢ Mix culture of Crap spp. with fresh water prawn.	1	50	Fish farmer
	➢ Value addition through Crab fattening	1	50	Fisher men
Extension	➢ Leadership development among rural youths	1	50	Rural youth
II. Quarter :	**(1st July to 30th September, 2014)**			
Crop production	➢ Weed management techniques	1	50	Farmers
Soil health and fertility mangt.	➢ Integrated Nutrient management	1	50	Farmers
Home science	➢ Women and child care	1	50	Farm Women
	➢ Location specific drudgery reduction technologies	1	50	Farm women
Agril. Engg.	➢ Installation, maintenance and fertigation through MIS	1	50	Farmers
Pl. Protection	➢ IPM in cotton and sesame	1	50	Farmers
	➢ Management of diseases in *kharif* crops	1	50	Farmers
Fisheries	➢ Fishing technology for Ghol and Dhara Spp.	1	50	Fish farmers
	➢ Create awareness about environment protection among fishermen	1	50	Fish farmers
Extension	➢ Information sources for Agricultural development	1	50	Farmers
III. Quarter	**(1st Oct to 31st Dec, 2014)**			
Crop production	➢ Production technology of major *rabi* crops	1	50	Farmers
Horticulture	➢ Production & Management practices of spices	1	50	Farmers
Soil health and fertility mangt.	➢ Nutrient use efficiency	1	50	Farmers
Livestock Prod.	➢ Higher milk production by improving of breed, nutrition and feed management	1	50	Farmers
Agril. Engg.	➢ Use of plastics mulch MIS in farming practices	1	50	Farmers
	➢ Repairs and maintenance of farm implements	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	➢ Integrated Disease and pest management in cumin and gram	1	50	Farmers
	➢ IPM in vegetable crops	1	50	Farmers
Fisheries	➢ Use of waste land in shrimp farming	1	50	Fish Farmers
	➢ Importance of composite fish culture of Indian Major Carp and Exotic Carp Spp.	1	50	Fish Farmers
Extension	➢ Development of entrepreneurship among rural youths	1	50	Rural youth

Education				
IV. Quarter	**(1st Jan to 31st March, 2015)**			
Crop Production	➢ Recycling of Farm Waste material	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 fruit and vegetable	1	50	Rural women
Agril. Engineering	➢ Operation and maintenance of farm implements	1	50	Farmers
Pl. Protection	➢ Integrated diseases management in rabi crops	1	50	Farmers
	➢ Integrated pest management in fruit and vegetable	1	50	Farmers
Fishries	➢ Skill development for value addition in fisheries sector	1	50	Fish farmers
	➢ Importance and techniques for cage culture and pen culture	1	50	Fish farmers
Extension	➢ Capacity building of self help group	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
3.	Repairs and maintenance of tractor and farm implements	1	25	Rural Youth
4	Rearing Techniques of ornamental fish, fish production & value aditon	1	25	Rural Youth
5	Propogation of sea weed culture & Preparation of sea weed fertilizer	1	25	Rural Youth

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	1	1	1	0	**3**	1	1	1	1	**4**	**7**
2	Soil Health and Fertility Management	1	1	1	0	**3**	1	1	1	0	**3**	**6**
3	Plant Protection	1	1	1	1	**4**	2	2	2	2	**8**	**12**
4	Fisheries	1	1	1	1	**4**	2	2	2	2	**8**	**12**
5	Extension Edu.	1	1	1	1	**4**	1	1	1	1	**4**	**8**
6	Horticulture	0	0	1	1	**2**	2	2	2	1	**7**	**9**
7	Home Science	0	0	1	1	**2**	0	0	1	1	**2**	**4**
8	Agri engineering	0	1	1	1	**3**	1	1	2	1	**5**	**8**
	Animal Science	0	0	1	1	**2**	1	0	1	1	**3**	**5**
	Total	**5**	**6**	**9**	**7**	**27**	**11**	**10**	**13**	**10**	**44**	**71**

2. Front Line Demonstrations (Proposed)

Sr. No.	Crop	Season	Variety/ Component	Title	No. of Demons.	Area (ha)
	FLD - Pulses					
1	Green gram	Summer	G-4	Package of Practices	10	4.0
2	Chick pea	Rabi	GJG-3	Package of Practices	15	6.0
	Oilseeds					
1	Groundnut	Kharif	GG-20	IPM (White grub)	25	10
	Other Crops					
1	Wheat	Rabi		INM in wheat	20	10
2	Cumin	Rabi	Guj.Cumin-4	Package of practices, IDM	10	4
3	Pearl millet	Summer	GHB-538	To test yield potentiality of pearl millet	10	4
4	Cotton			IPM	25	10
5	Okra	Summer		IPM	5	2
6	Tomato	Rabi		IPM	5	2
	Component Demonstration					
1.	Groundnut	Kharif	Triechoderma	-Reduce infestation of stem rot	5	2
2.	Groundnut	Kharif	NPV	– Reduce pest attack	5	2
3.	Farm implement		-	–	5	5
4.	Tractor operated sprayer		-	–	5	5
5.	Groundnut digger		-	–	10	10
6.	Aeroblast sprayer		-	–	15	15
7.	Solar cooker (Box Type)		-	Popularization of alternate use of solar energy	5	5
	Total				**175**	**96**

3. ON FARM TESTING (OFTs)

OFT-1

Title : Management of whitegrub in groundnut

Objective : To manage the whitegrub incidence

Treatments :

1. Injudicious use of pesticides. ***(Farmers Practices).***
2. Recommended dose of Pesticide as chlorpyriphos or quinalphos @ 25 ml/kg seed. Drenching of Chlorpyriphos or quinalphos @ 4 lit/ha as iniciation of pest incidence. ***(*Recommended practices*).***
3. Application of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 2.5 gl/kg seed. Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 250 g/ha as iniciation of pest incidence. **(Refinement)**.
4. Soil application of *Beauveria bassiana* @ 5 kg/ha

No. of Replication :- 3 (Farmers)

Observations :-

1. Record no.of grub per 1 metre row lenth.
2. Yield data.

OFT-2

Title : Use of *Trichoderma* for 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. ***(*Recommended 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 by broadcasting method at 15 days after germination. **(Refinement)**.

No. of Replication :- 3 (Farmers)

Observations :-

4. Per cent plant infestation within 1x1 m^2 quadrate from each plot at 45 days after germination
5. Record yield per hectare.

OFT-3

Title : Management of sucking pests in Okra.

Objective: To minimize the sucking pest in cotton.

Treatments :

1. Injudicious of insecticides (Spray insecticides at weekly interval) **(Farmers practices)**
2. Use of bio-pesticides (*Beauveria bassiana*@ 5 g/lit of water) **(Recommended 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 35% 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 : Spoilage in mango pickle

Objective:

1. To prevent soft and slippery pickle
2. To increase self life of pickle
3. Cost saving

Treatments :

Common ingredients use for all treatments:- Mango 1 kg, turmeric powder 5 gm, jaggari/sugar 600 gm, fenugreek 50 gm, mustard 30 gm, asafoetida (hing) 5 gm, coriander 30 gm, funnel 30 gm,red chilly powder 30 gm.

1. Solt 12% (120 gm) + Oil 800ml/ kg mango **(Farmers practices)**
2. Solt 15% (150 gm) + Oil 250ml/ kg mango **(Recommended practices)**
3. Solt 20% (200 gm) + Oil 200ml/ kg mango **(Refinement)**

No. of Replication :- 3 (Farm women)

Observations :-

1. Self life (days)
2. Colour
3. Texture
4. Cost

OFT-5

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. Organo laptic test
   a. Colour
   b. Texture,
   c. Test
   d. Overall acceptance
5. Self life

OFT-6

Title : Growth retardation due to over stocking of fish species in ponds/reservoirs.

Objective: To increase overall production of fish by increasing fish growth.

Experimental Animal : Indian Major Carp Species

Treatments :

1. Fish farmers practices : Over stocking of fish species (1,25,000 to 1,50,000 fingerlings per hector
2. **Recommendation :** 75,000 to 80,000 fingerlings per hector stocking density
3. **Refinement** : 1,00,000 fingerlings per hector stocking density

No. of Replication :- 3 (Farmers)

Observations :-

1. Growth development (Length x width x weight) at regular interval
2. Total No. of fish (approximately) survive in the pond.
3. Total production (in kg.)

OFT-7

Title : Low yield of fish

Objective: To increase growth and total yield of fish by application of organic and inorganic fertilizer in pond.

Problem: Due to insufficient live food in pond at the time of stalking the growth become slow at earlier stage

Intervention: Due to manuaring or applicaton of organic and inorganic fertilizer, before stocking, th eproductivity of pond will incease and suficient live fee (micro algae, planktons, diatons, etc.)containing high protein level, increase the fish body growth.

Treatments :

1. Farmers Practices
2. Application of organic manure (Cow dung@ 10 tonns/ha at three split. (***Recommendation*****)**
3. Organic manure @ 5 tonn/ha + urea @ 50 kg/ha, SSP @ 250 kg/ha, MOP @ 40 kg/ha in three split at monthly interval (***Refinement*****)**

No. of Replication :- 3 (Farmers)

Observations :-

1. Measure Growth rate (size & weight of fish) at monthly interval
2. Total production (in kg.)

OFT-8

Title : Nutrient management in wheat crop

Objective : To increase yield of wheat

Treatments :

1. Injudicious use of fertilizer (200 N - 90 P_2O_5 - 0 K_2O). ***(Farmers Practices).***
2. Recommended dose of fertilizer (120 N - 60 P_2O_5 - 0 K_2O) + $ZnSO_4$ @ 25 kg/ha ***(*Recommendationed practices*).***
3. Recommended dose of fertilizer (120 N - 60 P_2O_5 - 0 K_2O) + $ZnSO_4$ @ 25 kg/ha and two spay of multi mix micro nutrient @ 30 g/10 lit of water at 30, and 45 days after germination. **(Refinement)**.

No. of Replication :- 3 (Farmers)

Observations :-

1. Grain and fodder yield of wheat.

4. EXTENSION PROGRAMMES (including activities of FLD programmes)

Sl. No.	Nature of Extension Programme	Praposed No. of Activity
1	Field Day	15
2	Kisan Mela	0
3	Kisan Ghosthi	4
4	Exhibition	1
5	Film Show	10
6	Method Demonstrations	2
7	Farmers Seminar	5
8	Workshop	0
9	Group meetings	5
10	Lectures delivered as resource persons	20
11	Newspaper coverage	2
12	Radio talks	1
13	TV talks	1
14	Popular articles	4
15	Extension Literature	5
16	Advisory Services	50
17	Scientific visit to farmers field	20
18	Farmers visit to KVK	50
19	Diagnostic visits	10
20	Exposure visits	1
21	Ex-trainees Sammelan	1
22	Soil health Camp	0
23	Animal Health Camp	0
24	Agri mobile clinic	1000
25	Soil test campaigns	0
26	Farm Science Club Conveners meet	1
27	Self Help Group Conveners meetings	0
28	Mahila Mandals Conveners meetings	0
29	Celebration of important days (specify)	0
30	Female groups	1
31	Night Meetting	5
32	Crop Shibir/Farmer shibir	1
33	Collobrative training	4
34	Training to Extension Functionaries	3
35	Any Other (Specify)	5
	Total	

* Other extension activity will be carried out as per need bases.