

ANNUAL PROGRESS REPORT-2008-09
(OCTOBER 2008 TO SEPTEMBER-2009)

&

ACTION PLAN
(OCTOBER 2009 TO SEPTEMBER 2010)

OF

KRISHI VIGYAN KENDRA
JAMNAGAR

TO BE PRESENTED AT
ANNUAL ZONAL WORKSHOP OF ZONE-VI
(Rajasthan & Gujarat)
HELD AT ANAND AGRICULTURAL UNIVERSITY, ANAND
DURING 6TH TO 9TH OCTOBER, 2009

PREPARED/COMPILED By
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JAMNAGAR-361 006
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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, Junagadh Agricultural University, Airforce Road, Opp. Digjam Mill Jamnagar- 361 006	(0288) 2710165 2711793	(0288) 2710165	kvk_jam@rediffmail.com kpbaraiya2006@yahoo.com	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	jau.in
Director of Extension Education Junagadh Agricultural University, Junagadh – 362 001 (Gujarat)	(0285) 2672653 Mo. 9879104662	(0285) 2672653		

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. K. P. Baraiya I/c. Programme Coordinator Krishi Vigyan Kendra Millet Research Station, Junagadh Agricultural University, Airforce Road, Opp. Digjam Mill Jamnagar- 361 006	(0288) 2710461	9427980032 kpbaraiya2006@yahoo.com	

1.4. Year of sanction:

2001, Letter No. F.No. 18(4)/99-NATP Dated October 31st, 2001**1.5. Staff Position (as on 30th September 2009)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Highest qualification	Pay Scale	Present basic	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Vaccant	Prog. Co-ord.	-	-	12000-18300	-	-	-	-
2	Subject Matter Specialist	Dr. K. P. Baraiya	SMS	Plant Protection	Ph.D.; NET	8000-13500	9925	17-08-06	Temp.	Other
3	Subject Matter Specialist	Dr. N. B. Jadav	SMS	Extension Education	Ph.D.	8000-13500	9100	18-08-06	Temp.	OBC
4	Subject Matter Specialist	Smt. A. K. Baraiya	SMS	Home Science	M.Sc.	8000-13500	8000	17-08-06	Temp.	Other
5	Subject Matter Specialist	Dr. V. J. Zizala	SMS	Crop Production	Ph.D.	8000-13500	9100	24-08-06	Temp.	OBC
6	Subject Matter Specialist	Dr. J. N. Thaker	SMS	Fisheries	Ph.D.	8000-13500	9100	31-08-06	Temp.	Other
7	Subject Matter Specialist		SMS			8000-13500		Vacant		
8	Programme Assistant	Shri P. S. Gorfad	Prog. Asstt.	Extension Education	M.Sc.	5500-9000	7775	24-3-95	Temp.	OBC
9	Computer Programmer	Shri R.G. Panseria	Prog. Asstt.	Computer Operator	B.C.A., P.T.C.	5500-9000	4500	30-12-08	Fix Pay	Other
10	Farm Manager	Shri A. M. Hadiya	Prog. Asstt.	PBG	M.Sc.	5500-9000	4500	6-1-09	Fix Pay	OBC
11	Accountant / Superintendent	Shri N. H. Vasavda	Sr. Clerk	Adm.	Old SSC	4000-6000	5800	1-07-05	Temp.	Others
12	Stenographer		Sr. Clerk	Adm.		4000-6000		Vaccant		
13	Driver	Shri A.D. Qureshi	Driver	Supt.	7 STD.	4000-6000	5400	1-10-04 (Pooled)	Temp.	OBC
14	Driver	Shri. D.M. Chauhan	Driver	Supt. (Fix)	9 STD	2500	2500	9-10-07	Temp.	S. T.
15	Supporting staff	Shri B.D. Dudakia	Peon	Supt.	7 STD	2550-3200	2720	1-10-04	Temp.	OBC
16	Supporting staff	Shri P. S. Damor	Peon	Supt. (Fix)	12 STD.	1500	1500	1-9-06	Fix Pay	S. T.

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

Sl. No.	Item	Area in hectare(s)*
1	Under Building and Road	-
2	Under Demonstration units	0.7
3	Under crops	13.56
4	Orchard	3.5
5	Agro-forestry	0.24
6	Others (Farm Pond & Channels)	2.00
	Total	20.44

* At present KVK has not separate Office building, laboratory, seminar hall and staff quarters

1.7. Infrastructural Development:**A) Buildings**

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	-	-	-	-	-	-	-
2.	Farmers Hostel	-	-	-	-	-	-	-
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Demonstration Units (2)	ZC + ATMA	31-3-2007	-	--	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	ZC	31-3-2007	26m×26m (2 Ponds) 60m×60m (1 Pond)	999000	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

* There is no separate facility available with Krishi Vigyan Kendra, Junagadh Agricultural University, Jamnagar.

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep GJ-8 A 3442	1995-96 (Dt.- 19/5/95)	2,80,000	3,05,211	Working condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Captain Mini Tractor	2001-02	166125	Working
Telephone line	2001-02	19850	Working
Multi tool carrier complete set	2001-02	6500	Working
Photocopier	2001-02	125000	Working
Over head projector	2001-02	17600	Working
Computer	2002-03	29500	Working
HP Laser printer	2002-03	20390	Working
U.P.S. (3 KVA)	2002-03	38000	Working
Qualish (GJ-10 E-288)	2004-05 (4-12-04)	490200	Working
Spectrophotometer	2005-06	89160	Working
Flame photometer	2005-06		Working
Physical balance	2005-06	10640	Working
Chemical balance	2005-06	100000	Working
Water distillation still	2005-06	96118	Working
Kieldahi digestion and distillation	2005-06	49644	Working
Shaker	2005-06	80080	Working
Grinder	2005-06		Working
Refrigerator	2005-06	16772	Working
Oven	2005-06	30550	Working
Hot plate	2005-06		Working

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	As below	As below
5.	10-09-2009	35		

The fourth Scientific Advisory Committee meeting of Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar was held at Seminar Hall, K.V.K., J.A.U., Jamnagar on 17th October, 2008.

Committee made the following recommendations after active interaction.

Sl. No.	Silant Recommendations	Action Taken	Suggested by
1.	It was suggested to plan limited on & off campus training	Suggestion accepted and followed, 125 Training instead of 200 training	House & chairman, Dr. R. L. Savaliya
2.	Suggested for arrangement of training on watermelon cultivation in Dwarka taluka.	Suggestion accepted and followed with Dy. Dir. Hort.	Dr. S. M. Dadhaniya
3.	They suggested adding bio-pesticides and split application of methyl parathion @25 kg per hectare at 15 days interval during infestation period in refined treatment of OFT on cotton mealy bug management.	Suggestion accepted and followed,	Dr. R. L. Savaliya & Dr. K. L. Raghwani
4.	In addition to OFT of groundnut, refinement treatment of castor cake @ 500 kg per hectare, it was suggested to add drenching of <i>Trichoderma harzeanum</i> @ 2.5 kg per hectare in root zone.	Suggestion accepted and followed,	House
5.	It was suggested to arrange front line demonstration for yellowing of groundnut	Suggestion accepted and followed,	House

- ❖ Attached a copy of second SAC proceedings along with list of participants in Annexure – I.

2. DETAILS OF DISTRICT (2007-08)

The district of Jamnagar is lies in North Saurashtra Agro climatic zone (VI) with an area of 35.02 lakh hectare land. The total geographical area of entire district (21.8 – 22 ON, 69.0 – 70.7 E) occupies 14125 km² i.e. 14.125 lakh ha area in the west of Gujarat state. The climate is arid (80%) and semi arid (20%) with a mean moisture index of 67.5. About 95 to 98% of annual rainfall comes during the monsoon month of June to October, July and August being the rainiest months. The co-efficient of variation ranges between 50 and 82%. The annual potential evapo-transpiration ranges between 1500 and 1650mm, three times the precipitation, resulting in no flow in the ephemeral channels for the most of the year. The district is a water scarcity area droughts are common in this region draughts of moderate to severe intensity occur once in 2 to 3 years. Although the integrated drainage system from the story/rocky/gravelly surfaces and torrential nature of precipitation generate 40 to 60% of rainfall as runoff, steeper slopes and

absence of checks allow the water to quickly flow to the sea. Being is hard rock terrain, the groundwater potential is very low, is already over exploited and mined, resulting in either the saline water ingress in the costal aquifers, or drying up of the ground water up to a depth of 100m. Consequently a need for holistic approach to water resource development in the district. Wind velocity prevailing in the district is higher order (14.1 km) ha on an annual average basis due to sea coast area.

According to physiographically, major portion of the area in the district have an altitude ranging between 25 to 150 meters, which consists ten taluka having gentle slope to moderate slope. The district is marked by radical drainage pattern. Deccan trap basalt occupies a major part of the district. The Quaternary formations include milliolite, limestone, alluvium and Geolian sediments. The dominant land forms are colluvial plains and rocky uplands. Low hills occur in the southern part of district and are dissected by numerous large and small seasonal streams, most of which drain towards north and form potential drainage basins. The district is characterized by shallow, black soil and coastal alluvial soils with large variations in depth, texture, structure salinity, and water erosion. Nearly two third area of the district is under cultivation. The major factors of land degradation are accelerated water erosion and Salinization.

Basic information of operational district, jamnagar:

1	Total geographical area	10.15 lakh ha.	
2	Total cultivable area	6.70 lakh ha.	
3	Net cultivated area	5.91 lakh ha.	
4	Total area under forest	0.43 lakh ha.	
5	Total irrigated area	1.17 lakh ha.	
6	Number of holdings	1.77 lakh	
7	Average annual rainfall	550 mm.	
8	Soil type	Medium black	
9	Total number of villages	754 (18 city)	
10	Total population	15.63 lakh (1991)	
	(a) Male	8.02 lakh .	
	(b) Female	7.61 lakh	
11	Literacy percentage	Rural	Urban
	a. Male	53.09	67.09
	b. Female	32.94	50.95
12	Number of talukas	10 (Ten),	

	Jamnagar	Jodiya
	Dhrol	Kalavad
	Lalpur	Jamjodhpur
	Bhanvad	Jamkhambhalia
	Jamkalyanpur	Okha Mandal (Dwarka)

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

S. No	Farming system/enterprise		
1	Crops	Cereals	: Pearl millet, Sorghum, Wheat, Maize
		Pulses	: Greengram, Blackgram, Chickpea, pigeonpea
		Oilseeds	: Groundnut, Sesamum, Castor, Mustard,
		Cash crops	: Cotton,
		Spices and condiments	: Cumin, Fennel, Coriander, ajwan, Ishabgul
		Vegetables	: Onion, garlic, potato, chilli, binjal, tomato, cauliflower, Cowpea, cabbage, okra, peach, cucurbits etc
		Horticulture	: Chiku, pomegranate, lemon (Citrus), Jamun, Aonla, guava, custard apple, papaya, coconut, ber, Almond, Banana
		Floriculture	: Rose, merry gold, vevanti, etc
		Other Crops	: Chikori, Fenugreek
2	Live stock	Bullocks and cows	
		Buffaloes	
		Sheep	
		Goats	
		Horse and camel	
		Poultry	
		Others animals	
3.	Fishery	340 km coastal belt	4832 tonnes fish production

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
Zone - VI	North Saurashtra	The influence area of North Saurashtra Agroclimatic Zone is spread among five districts viz., Amreli (7 talukas out of 10), Bhavnagar (7 talukas out of 14), Jamnagar (all the 10 talukas), Rajkot (9 talukas of 13) and Surendranagar (6 talukas out of 9) covering 39 talukas in all. The influence area of the zone lies between 21°-02' to 23°-16' North

		<p>Latitude and 68°-56' to 72°-12' East Longitude. It is founded in the north by the Gulf of Kutch and parts of Rajkot as well as Surendranagar districts, in the East by the Ahmedabad district and ncoastal part of Bhavnagar district, on the South by the Junagadh district and parts of Amreli as well as Rajkot district, to the west by Arabian sea.</p> <p>The North Saurashtra region which comprises the peninsular part of Gujarat has low to medium rainfall and shallow to medium black soils and also coastal saline alluvial soils. In this Agro-climatic zone, cotton (Bt), groundnut, pearl millet, wheat are the major crops which contribute considerably to the economy of the state. In Saurashtra, among this zone taking in to consideration the rainfall pattern, the topography, soil characteristics, the climate and the cropping pattern have been identified in Gujarat. The North Saurashtra zone have five main / sub station cum testing centre of University like Dry Farming Research Station with KVK, Targhadia (Rajkot District), Main Millet Research Station with KVK, Jamnagar, Oilseeds Research Station (Sesamum, Mustard, Sunflower) with KVK, Amreli, Dry Farming Research Station, Nanakandhasar, (Surendranagar District) and Dry Farming Research Station, Jamkhambhalia (Jamnagar District).</p>
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Agro – Ecological situation in the District

The advent of southwest monsoon greatly influences seasonal patterns of rainfall distribution in the district. Thus, mean annual rainfall provides useful comparison of agricultural potential of a given situation in the district. The mean rainfall in the district 539.17mm

The physiography of entire region of district is more or less flat. However, the region is undulating with slopes having little hilly areas from 25 to 150 meters Physical features of the area vary from flat land to 150 meters above mean sea level. Most of the area falls in the range of 25m to 150m above mean sea level.

Based on the soil survey information of the zone, the soils of the district hence been broadly classified in to fine categories Available information about the properties of these soils and their textures has been considered. The types of soils categories are as under: -

- Shallow black soils
- Medium black soils
- Saline alkali soils
- Costal alluvial soils

Hilly soils

While delineating the zone into district agro ecological situations, there major factors including various soil types, altitude and the rainfall patterns have primarily been considered. The district can be delineated into five agro ecological situations.

Although, each of the situations has rainfed and irrigated condition, but irrigation has not been considered in identification of the agro ecological situations. While deciding the major crops, cropping patterns and constraints in production, mention has been made of both these conditions one or the other agro ecological situation occurs in the influence area of the district. The fact that this does not preclude the existence of more than one agro ecological situations within the same area.

Sl. No.	Agro Ecological Situation	Soil texture	Altitude	Principal crops	Special features	Approximate area (000ha)	Taluka included	Characteristics
AES-1	Shallow Black soils with 500-600 mm Rainfall	Sandy clay loam to clayey	75 – 150	Groundnut, wheat, sorghum, pearl millet	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, pearl millet	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, pearl millet, sorghum, chickpea	Low nitrogen and phosphorus	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, pearl millet, 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, Pearl millet, Groundnut, Sesamum	Arid climate	31	Okha	Known salinity for genus ephedra seacoast very rich in Alghl flor and fanner of economic importance.

2.3 Soil type

As the geographical formation of Saurashtra is to volcanic origin, the soils are generally derived from basaltic rock known as Deccan trap. This is the commonest rock in India and due to its extensive occurrence in south is called “Deccan Traps”. In many parts, they have flat top features and hence, are also known as plateau basalt. The trap rocks, which occupy a large part of western coast of India, is also covering North Saurashtra zone. The most common colour of the trap rock in the region is dark grey. On weathering,

trap rock form a ferruginous gravelly material known as murrum, which under lie-soil formed in situ. Soils, thus derived are either brown red in colour or regular, the black soil. In district black or brown colour is predominant. The soils are shallow to moderately deep. The detailed soil survey information for the soils of Jamnagar district are as under.

S. No	Soil type	Characteristics	Area in ha
1	Shallow black soils	<p>These soils have developed from basaltic trap especially from granite and gneiss parent materials. They light grey in colour. Taxonomically, they are classified as <i>Ustorthents</i> and <i>Ustochrepts</i>. Soils depth varies for cm to 45 cm. They are gravelly but mainly they are sandy clay loam to clayey in texture. The clay on tent in surface soil varies from 20% to 77.49% and calcium carbonate content varies from 3.76 to 26.71 per cent. The soil structure is weak, mainly sub angular blocky and occasionally crumb. Since these soils lack district profile layering and are shallow, capacity to retain moisture is not sufficient.</p> <p>The soils are neutral to alkaline in reaction p^H ranges from 7.3 – 8.4) and from fertility point of view, these are medium in available nitrogen, low to medium in available phosphorus and adequate in availability of potash.</p>	124000 ha (Kalawad, Jamjodhpur, Bhanvad, Okha)
2.	Medium black soils	<p>The major portion of Jamnagar (Some part of Kalyanpur, KHambhaliya & Jamnagar, major part of Lalpur, Dhrol, Jodia taluka is covered under 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. A layer of murrum (Unconsolidated material of decomposed trap and limestone) is generally found in sub soil layer. The drainage does not pose any problem, because of porous sub soil layer.</p> <p>Morphologically, the profile of these soils has A-C horizon characteristics, having moderate sub angular blocky structure. They are plastic and sticky and hard in consistency on drying. The colour of these soils varies from very dark brown to light grey. Taxonomically, these soils are classified as <i>Ustochrepts</i> in <i>Inceptisol</i> order. The soils are dominated by smectite group of clay minerals which give to mild cracking in dry season, due to which these are further classified as <i>Vertic – Ustochrepts</i> at sub group level.</p> <p>The soils are clay loam to clayey in texture. The souls are highly retentive of moisture because higher percentage of clay content. The percentage of clay content in the surface varies from 31.79 to 73.27 per cent, while no definite</p>	180000 ha (Part of Kalyanpur, Jamnagar, Jamkham-bhaliya, Lalpur, Dhrol, Jodia)

		<p>trend of clay content in different horizon of the profile is observed.</p> <p>The chemical composition of these soils is neutral to alkaline reaction (p^H 7.4 to 8.9). Calcium is the dominant exchangeable cation followed by magnesium. The soils are generally low to medium in available nitrogen, phosphorus and adequately supplied with potassium. The calcium carbonate contents various from 5.26 to 20.36 per cent in these soils.</p>	
3.	Saline alkali soils	<p>Saline alkali soils are extensively distributed on the coastal areas as well as inland. These soils are located in the districts of Jamnagar (Jodia, part of Okha mandal, Kalyanpur, Jamkhambhaliya and Jamnagar talukas). These soils are originated as a result of higher water table, low rainfall and high evaporation losses during summer months resulting into upward movement of salts, poor drainage, use of saline ground water and ingress of sea water (in coastal areas). The soils are classified as <i>Fluvaquents</i>, <i>Halaquents</i>, and <i>Haplaquents</i> (Entisol); <i>Haplaquents</i> and <i>Haptaquepts</i> in order – <i>Inceptisol</i>. Texturally these soils vary from sandy loam to clay. The degree of salinity and alkalinity is also highly variable.</p> <p>In Jamnagar district, the saline and alkali soils are widely distributed mainly termed as coastal soil. The soils are sandy loam to clay loam in texture. The EC varies from 1.54 to 38.6 m.mhos/cm and ESP ranges from 9.2 to 74.64% in surface soil. The p^H varies from 7.6 to 9.00 in surface soils and normally calcareous in nature. Most of these soils are low to medium in available nitrogen and phosphorus and high in available potash.</p>	181000 ha (Jodia, part of Okha, Jamkhambhaliya, Kalyanpur & Jamnagar)
4.	Costal alluvial soils	<p>these soils are located in the district of Jamnagar consisting Kalyanpur, Jodia and Jamnagar, Jamkhambhadiya, Lalpur, Dwarka (Okha Mandal) and Dhrol, talukas. 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 soil reaction varies with situation ranging from moderately alkaline to highly alkaline (p^H 7.6 to 9.0). The soils are normally medium in fertility. Taxonomically, these soils are classified as <i>Halaquents</i> and <i>Haplaquents</i> – Entisol and <i>Helaquepts</i> and <i>Hapdaquents</i> in Inceptisol order.</p>	299000 ha (Kalyanpur, Jodia & Jamnagar, Khambhadiya, Lalpur, Dwarka)
5.	Hilly soils	<p>These soils occur in some parts Bhanvad and Jamjodhpur talukas of Jamnagar district. Because of the steep slope and erosion, the profile is not developed. These soils are developed because of weathering of parent materials existing basaltic trap limestone and sand stone.</p>	31000 ha (Some part of Bhanvad and Jamjodhpur)

	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. These soils are placed in to <i>Ustorthents</i> and those near foothills and valley are comparatively deeper can be placed under <i>Ustochrepts</i> and can be classified under <i>estisol</i> and <i>Inceptisol</i> orders respectively.	
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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

Month	Temperature ° C		Relative Humidity (%)		Rainfall (mm)	Rainy days
	Maximum	Minimum	Morning	Evening		
Jun-09	33.63	26.78	86.50	64.00	326.00	6.00
Jul-09	31.86	25.96	88.60	67.80	71.00	6.00
Aug-09	30.24	24.58	93.00	71.40	85.00	7.00
Sep-09	32.10	24.80	91.25	64.25	207.50	5.00

Oct-09	34.26	21.38	83.60	45.20	0.00	0.00
Nov-09	30.53	17.20	71.75	39.50	8.50	2.00
Dec-09	27.20	16.83	82.75	52.50	0.00	0.00
Jan-10	26.46	13.96	78.80	41.60	0.00	0.00
Feb-10	30.50	15.00	86.25	32.25	0.00	0.00
Mar-10	34.15	19.00	86.50	30.75	0.00	0.00
Apr-10	0.00	0.00	0.00	0.00	0.00	0.00
May-10	37.93	26.65	81.50	48.50	0.00	0.00
Jun-10	35.75	27.15	83.25	59.50	36.50	3.00
Jul-10	32.62	26.12	90.20	71.60	417.00	14.00
Aug-10						0
Sep-10						

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

** Weekly weather data is given in the Appendix-II

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

Category	Population	Production	Productivity
Cattle	349229	2475.2 qtl total milk	
<i>Crossbred</i>			8.585 lit/day
<i>Indigenous</i>			3.375 lit/day
Buffalo	209616		4.451 lit/ha
Sheep	232530	295.16 lakh kg wool	
<i>Crossbred</i>			
<i>Indigenous</i>			
Goats	173022		0.274 lit/ha
Pigs		290097.9 Qtl meat	
<i>Crossbred</i>			
<i>Indigenous</i>			
Rabbits			
Poultry	38041	12.77 lakh eggs	
Hens			
<i>Desi</i>			
<i>Improved</i>			
Ducks			
Turkey and others			
Horse & camels	410		
Donkey	2260		
Total Milk	2577		
Total egg			
Total wool			

Category	Area	Production	Productivity
Fish			

	<i>Marine</i>	342 km		
	<i>Inland</i>			
Prawn				
Scampi				
Shrimp				

* Source : Asstt. Dir. Fisheries, Jamnagar

2.7 Details of Operational area / Villages (2006-07)

Sl. No	Taluka /Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Lalpur	Rampar, Navi-Pipar	Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM in cotton & groundnut IPM/IDM/INM Vermi compost Organic farming
2	Jamjodhpur	Butavadar	Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM Flower cultivation Value addition in flower Scope for export of flowers
3	Kalawad	Kalawad, Nani-Vavadi, Sanala, Hodisang	Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM Reclamation of soil Value addition in field crop
4	Jamkhambhadia	Gokulpur, Beraja, Viramdad, Dharampur, Haripar, Sidhdhpur, Vadatra, Jakasia, Madhavpur,	Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard, Vegetable	IPM IDM INM	IPM/IDM/INM Organic farming Green house technology Vermi compost Water harvest technology Crop production
5	Jamkhambhadia	Ramnagar, Shaktinagar, Kalyanpur, Harshadpur, Juvangadh, Bhinda, Kanuda	Vegetable, Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM Bio-fertilizer Dry farming technology Value addition in field crops

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.	Farm waste	Recycling of farm waste through composting, vermicompost, green manuring, etc.

3.	Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques
4.	Soil	Reclamation of saline & alkaline soils
5.	Farm Women	Farm women empowerment by training in value addition, handi crafts, and small scale enterprises
6.	Fisheries	Motivation of fisheries cultivation
7.	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 2007-08

OFT				
1				
	Number of OFTs		Number of Farmers	
	Targets	Achievement	Targets	Achievement
Cotton	2	2	6	6
Groundnut	1	1	3	3

1. FLD	Area of FLD (ha)		Number of Farmers	
	Targets	Achievement	Targets	Achievement
Kharif -2008-09				
Groundnut (GG-5)	10	10	20	20
Cotton (Bt. Cotton)	10	10	20	20
Chilli (Reshampatto)	5	5	10	10
Brinjal (PLR-1)	5	5	10	10
Tomato (TP-3)	5	5	10	10
TOTAL				
Rabi -2008-09				
Wheat (GW-366)	20	20	40	40
Cumin (Guj.Cum.-4)	10	10	20	20
Total	65	65	130	130

FLD conducting other than KVK Scheme during					
Kharif-2008-09		Number of FLDs		Number of Farmers	
Scheme	Crops	Targets	Achievement	Targets	Achievement
Kharif-2008-09					
ATIC	Sesamum (Guj.-3)	10	10	20	20
TOT	Mung (GM-4)	5	5	10	10
Cotton Mini Mission	Cotton (Prod. Tech.)	25 Acr.	25 Acr.	25	25
	Cotton (INM)	25 Acr.	25 Acr.	25	25
Total		65	65	80	80

Training				
3				
	Number of Courses		Number of Participants	
	Targets	Achievement	Targets	Achievement
Farmers	109	99	2700	2976
Rural Youth	12	16	200	300
Extension Functionaries	4	4	100	111
Total	125	119	3000	3387

Extension Activities				
4				
	Number of activities		Number of Participants	
	Targets	Achievement	Targets	Achievement

Groundnut (GG-5)	4	3	80	98
Cotton (Bt. Cotton)	5	5	100	147
Chilli (Reshampatto)	2	2	40	62
Brinjal (GBL-1)	2	2	40	71
Tomato (GT-2)	2	2	40	77
Wheat (GW-366)	7	7	200	222
Cumin (Guj.Cum.-4)	4	4	80	86

Seed Production (Qtl.)			
5			
Crop	Variety	Target	Achievement
Wheat	GW-366	200	400.00
Groundnut	GG-5	50	58.93
Groundnut	GG-6	3	3.23
Groundnut	TPG-41	5	11.03
Groundnut	TG-37A	3	3.32
Groundnut	GG-16	3	3.07

Planting material (Nos.)		
6		
	Target	Achievement
	Nil	Nil

3.B1. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	GG-20 is highly susceptible to stem rot	Groundnut	Stem rot of groundnut	Yield losses in groundnut due to <i>Sclerotium</i> 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
2	Seed sowing and yield	Sesamum	Seed sowing 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
3	Pest-Diseases & yield	Castor	Wilt,	-	IDM in castor	ICM, IPM, IDM	-	Field day, radio talk	GCH-7
4	Low yield of bajara	Pearl Millet	Time of thinning	Effect of time of thinning on yield of bajara	Effect of time of thinning on yield of bajara	Importance of Thinning period,	-	Field day, radio talk, TV prog.	GHB-577
5	Pest & disease problem	Chick pea	Wilt & pod borer problem,	-	IPM in chickpea	IPM in chickpea	-	Field day	Guj-2
6	Yield	Wheat	Low yield of wheat	-	Low yield of wheat	ICM, IDM	-	Field day, Radio talk	GW-496
7	Yield	Mustard	Low yield due to pest	-	Resistant & high yielding variety	IPM, ICM	ICM, INM, IDM,	Field day, radio talk	GM-3
8	INM	Cotton	Unjudicious use of fertilizers	Low yield in cotton	INM in cotton	INM, IPM	INM, IPM	Field day, training	Bt. Cotton
9	Pest & Disease	Cotton	Mealybug	-	IPM	IPM	IPM	Radio talk, Literature	Components

3.1 Achievements on technologies assessed and refined

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

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

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

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

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

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

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

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

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

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

3.B2 List of Technology Assessed during 2008-09

S. No	Thematic area	Name of the technology assessed	Area (ha.)	Number of trials	Remarks if any
1	IDM in groundnut	IDM, Variety	5	10	Groundnut (GG-5)
2	ICM in cotton	Variety, IPM	20	40	Cotton (Bt. Cotton)
3	IPM in chilli	IPM	5	10	Chilli (Reshampatto)
4	IPM in brinjal	IPM	5	10	Brinjal (GBL-1)
5	INM in tomato	INM	5	10	Tomato (GT-2)
6	INM in tomato	INM	10	20	Cabbage/ Cauliflower
7	Varietal Evaluation of wheat	Variety	20	40	Wheat (GW-366)
8	IDM in cumin	IDM	10	20	Cumin (Guj.Cum.-4)
Total (Wherever applicable)			80	160	

3.B3 List of Technology Refined during 2008-09

S. No	Thematic area	Name of the technology refined	Area (ha.)	Number of trials	Remarks if any
1	Weed management	Time of thinning in bajara	3	3	(2006-07)
2	Integrated Disease management	Castor cake @ 500 kg/ha, Drenching of <i>Trichoderma harzeanum</i> @2.5 kg/ha at 30 & 45 DAG	3	3	2007-08
3	INM in cotton	Use of balance fertilizers, Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 60)	3	3	2007-08

4.	Mealybug in Cotton	sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides	3	3	2008-09
Total (wherever applicable)			12	12	

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

A. & B. Technology Assessment/Refinement

OFT – 1 :- Cotton

1) Title :- MANAGEMENT OF MEALY BUG INFESTATION IN COTTON

2) **Problem diagnose/ definition:-** Heavy infestation of mealybug is found, now a days Mealy bug becomes haddock in cotton.

- ❖ More number of host range
- ❖ Dispersion is very fast
- ❖ Mealy like powder covered on the body
- ❖ Leaving in gregarious phase
- ❖ Ability to laid eggs in pouch
- ❖ Eggs are hibernating in unfavorable condition
- ❖ Symbiotic relation with ants
- ❖ Low incidence of natural enemies
- ❖ High capacity of migration and climbing of crawlers.

3) Details of technologies selected for assessment/ refinement

Category	Source of technology	Technology detail		
Technology option 1	Farmer	T ₁	Farmer practices	Application of conventional insecticides after infestation on Mealy bug
Technology option 2	Main Oilseeds Res. Station, JAU, Junagadh	T ₂	Recommended practices	Pre-sowing application of Methyl parathion, Application of insecticides at the time of infestation
Technology option 3		T ₃	Refined practices	Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides (<i>Beauveria</i> spp. or <i>Verticillium</i> spp.)

4) **Source of technology:** Junagadh Agricultural University

5) **Production system :-**

Irrigated & rainfed condition having heavy infestation of mealy bug

Variety : B.t. cotton (Government approved variety)

Season : *Kharif*–2008, irrigated

Size of the plot : 0.40 ha.

6) **Thematic area** : IPM for suppression of Mealy bug

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 (% Plant infested with mealybug)
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			T ₁	T ₂	T ₃
1	Oodhavaji Kanjibhai	Makwana	65	34	13
2	Ratilal Devrajbhai Sangani	Badanpar	62	31	9
3	Krishi Vigyan Kendra	Jamnagar	53	25	8
		Average	60	30	10

8) Final recommendation for micro level situation : Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides (*Beauveria* spp. or *Verticillium* spp.) having highest non significant yield with farmers practices.

9) Constraints identified and feedback for research:

- ❖ High incidence of sucking pests and spodoptera
- ❖ Found initiation of mealybug incidence
- ❖ Yield increase compare to farmers practices.

10) Process of farmers participation and their reaction: Farmers have good response and they have support for OFT. Recommended application of the pesticides having low infestation of mealybug attack as well as disease. And highest yield found in refinement treatment. They satisfied with this trial.

11) Results of On Farm Trials

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter (% Plant infested)
1	2	3	4	5	6	7	8
Cotton	Irrigated	Mealy bug	Management of mealy bug infestation	3	Mangt. Through insecticides	T ₁ - Farmers practices Application of conventional insecticides	60
						T ₂ - Improved Pre-sowing application of Methyl parathion	30
						T ₃ - Refined Practices Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides	10

* No. of farmers

Crop/enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
Cotton	Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides (<i>Beauveria</i> spp. or <i>Verticillium</i> spp.) having highest	Farmers have good response and they have support for OFT. Recommended application of the pesticides having low infestation of mealybug attack as well as disease. And highest yield found in refinement treatment. They satisfied with this trial.	Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer	Earlier Mealybug was sporadic pest. Now it becomes regular polyphagous pest and breeding continuously.

	non significant yield with farmers practices.		insecticides/bio-pesticides	
--	---	--	-----------------------------	--

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
Cotton	T ₁ - Farmers practices Application of conventional insecticides	3078	4500	84645	80145	1:17.81
	T ₂ - Improved Pre-sowing application of Methyl parathion	2243	3500	61683	58183	1:16.62
	T ₃ - Refined Practices Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides	3085	4200	84838	80638	1:19.20

OFT – 2 :- Cotton :

1) Title :- JUDICIOUS USE OF FERTILIZER IN COTTON

2) Problem definition:

- ❖ Farmers are using phosphatic fertilizer as basal as well as top dressing.
- ❖ Plant needs more phosphorus at initial growth stage.
- ❖ Improper variety selection
- ❖ High labour charges
- ❖ Lack of proper practices knowledge
- ❖ Plant stand per hectare
- ❖ Monocropping
- ❖ Long duration crops
- ❖ Injudicious use of fertilizers
- ❖ Injudicious use of pesticides
- ❖ Lack of disease management
- ❖ Scheduling of irrigation

3) Details of technologies selected for assessment/ refinement

Treatment			Period of application	N (kg/ha)	P ₂ O ₅ (kg/ha)	K ₂ O (kg/ha)	Source
T ₁	Farmer practices	Farmer	Basal	22.5	57.5	0	DAP
			Split-1(30 DAS)	57.5	0	0	Urea
			Split-2 (45 DAS)	57.5	0	0	Urea
			Split-3 (60 DAS)	80	57.5	0	Urea+DAP
			Split-4 (75 DAS)	57.5	0	0	Urea
			Total	275	115	0	
T ₂	Recommended practices	Cotton Res. Station,	Basal	40	0	0	AS
			Split-1(30 DAS)	40	0	0	Urea
			Split-2 (45 DAS)	40	0	0	Urea

		JAU, Junagadh	Split-3 (60 DAS)	40	0	0	Urea
			Total	160	0	0	
T ₃	Refined practices – I		Basal	40	60	60	AS + MOP
			Split-1(30 DAS)	40	0	0	Urea
			Split-2 (45 DAS)	40	0	0	Urea
			Split-3 (60 DAS)	40	0	0	Urea
			Total	160	60	60	
T ₄	Refined practices – II		Basal	40	60	60	AS + MOP
			Split-1(30 DAS)	40	0	20	AS + MOP
			Split-2 (45 DAS)	40	0	20	AS + MOP
			Split-3 (60 DAS)	40	0	20	AS + MOP
			Total	160	60	120	

N.B.:- T₁, T₂, T₃ & T₄ are technology options 1, 2, 3 & 4 respectively.

4) Source of Technology :- Junagadh Agricultural University

5) Production system and thematic area : Application of DAP

Variety : Mallika {B.t. cotton (Government approved variety)}

Season : *Kharif*–2008

Size of the plot : 0.40 ha.

6) Thematic area : Unjudicious use of chemical fertilizers in cotton production

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	Technology Option 4
			Yield	Yield	Yield	Yield
1	Viredrasingh Bachubha	Dhandha	30.3	21.7	29.7	29.9
2	Bhimsi Dhanabhai Ambaliya	Viramdad	30.2	21.8	29.7	29.85
3	Krishi Vigyan Kendra	Jamnagar	30.5	22.4	30.0	30.1
		Average	30.3	21.9	29.8	30.0

8) Final recommendation for micro level situation : Basal application of N (40 kg), P₂O₅ (60 kg) and K₂O (60 kg) and remaining N application 40 kg each at 30, 45 and 60 days after sowing having highest non significant yield with farmers practices.

9) Constraints identified and feedback for research:

- ❖ High incidence of sucking pests and spodoptera
- ❖ Found initiation of mealybug incidence
- ❖ Yield increase as compare to farmers' practices.

10) Process of farmers participation and their reaction: Farmers have good response and they have support for OFT. Recommended 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/enterprise	Farming situation	Problem Diagnosed	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

Cotton	Irrigated	INM	Low yield of Cotton	3	Use of balance fertilizers	T ₁ - Farmers practices (N 275 : P ₂ O ₅ 115 : K ₂ O 00)	3032
						T ₂ - Improved Practice (N 160 : P ₂ O ₅ 00 : K ₂ O 00)	2198
						T ₃ - Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 60)	2980
						T ₄ - Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 120)	3000

* No. of farmers

Crop/enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
Cotton	Basal application of N (40 kg), P ₂ O ₅ (60 kg) and K ₂ O (60 kg) and remaining N application 40 kg each at 30, 45 and 60 days after sowing having highest non significant yield with farmers practices.	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.	N (160 kg), P ₂ O ₅ (60 kg) and K ₂ O (60 kg)	Monocropping system & less availability of FYM

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
Cotton	T ₁ - Farmers practices (N 275 : P ₂ O ₅ 115 : K ₂ O 00)	3032	5850	83380	77530	1:13.25
	T ₂ - Improved Practice (N 160 : P ₂ O ₅ 00 : K ₂ O 00)	2198	1945	60445	58500	1:30.08
	T ₃ - Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 60)	2980	3900	81950	78050	1:20.01
	T ₄ - Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 120)	3000	4500	82500	78000	1:17.33

OFT – 3:- Oilseeds (Groundnut) :**1) Title :- Biological control of *Sclerotium rolfsii* (stem rot) in groundnut****2) Problem definition :**

- ❖ Reduction in plant population/ unit area due to disease at initial stage
- ❖ Poor quality of pod as well as straw
- ❖ Pods detached from the plant and remains in the soil
- ❖ Lack of knowledge about the proper method and time of application

- ❖ Set furrow sowing system
- ❖ Soil bunding enhance the disease intensity
- ❖ Lack of summer deep ploughing
- ❖ Lack of crop rotation

3) Details of technologies for assessment/ refinement

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

4) Source of Technology:- Junagadh Agricultural University

5) Production system

Variety: GG-20

Season: Kharif- 2008

Size of plot : 0.40 ha

5) Production system and thematic area : Management of stem rot in groundnut

6) Thematic area : Management of stem rot in groundnut

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
			Yield	Yield	Yield
1	Pithabhai Popatbhai Vasoya	Chandrag	15.5	23.2	21.7
2	Gajubha Vibhaji Sodha	Dhandha	15.6	23.0	21.6
3	Krishi Vigyan Kendra	Jamnagar	15.7	23.4	21.8
		Average	15.6	23.2	21.7

8) Final recommendation for micro level situation : Management of *Sclerotium rolfsii* in groundnut with *Trichoderma harzeanum* @ 2.5 kg/ha and castor cake @ 500kg/ha at the time of sowing having more beneficial

9) Constraints identified and feedback for research :

- ❖ Soil born fungus,
- ❖ Highly related with high moisture & temperature.
- ❖ Reduce stem rot diseases
- ❖ Yield increase compare to control plot
- ❖ Good and bigger quality of pods

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

11) Results of On Farm Trials

Crop/enterprise	Farming situation	Problem Diagnosed	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
Groundnut	Rain-fed	Stem rot (<i>Sclerotium rolfsii</i>)	Yield losses in groundnut due to Sclerotium stem rot	3	Management of stem rot in groundnut through <i>Trichoderma harzaneum</i>	T ₁ - Farmers practice (Control)	1560
						T ₂ - Improved Practice (<i>Trichoderma harzaneum</i> @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2325
						T ₃ - Refined Practices (Castor cake @ 500 kg/ha, Drenching of <i>Trichoderma harzaneum</i> @2.5 kg/ha at 30 & 45 DAG)	2170

* No. of farmers

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

Crop/enterprise	Technology Assessed / Refined	*Production kg/ha	Input cost Rs./ha	Gross return Rs./ha	Net Return (Profit) in Rs. / ha	BC Ratio (* only OFT input cost base)
1	13	14			15	16
Groundnut	T ₁ - Farmers practice (Control)	1560	3000	39000	36000	1:12.00
	T ₂ - Improved Practice (<i>Trichoderma harzaneum</i> @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2325	1750	58125	56375	1:32.21
	T ₃ - Refined Practices (Castor cake @ 500 kg/ha, Drenching of <i>Trichoderma harzaneum</i> @2.5 kg/ha at 30 & 45 DAG)	2170	2300	54250	51950	1:22.59

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

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

3.2 ACHIEVEMENTS OF FRONTLINE DEMONSTRATIONS

Among the various methods of transfer of technology, frontline demonstration is one the most powerful tool. All FLDs on different crops conducted on the farmers' field in the adopted villages during *kharif-08* and *rabi-08-09*. The efforts made to test the yield potentiality of these varieties on the farmers' field and yield compared with local existing varieties. In most of the cases, yield performances of newly demonstrated varieties of various crops on farmers' field found superior over local check. Performance of various demonstrations presented below.

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

List of technologies demonstrated during previous year and popularized during 2008-09 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
1	Groundnut (GG-5)	IDM	IDM, Variety	Field day, Radio talk, TV programme, training etc.	15	650	2000
2	Cotton (Bt. Cotton)	ICM	IPM	- " -	50	2000	4000
3	Chilli (Reshampatto)	IPM	IPM	- " -	5	300	500
4	Brinjal (GBL-1)	IPM	IPM	- " -	5	200	400
5	Tomato (GT-2)	INM	INM	- " -	3	50	100
6	Wheat (GW-366)	Varietal	Variety	- " -	25	1000	5000
7	Cumin (Guj.Cum.-4)	IDM	IDM	- " -	15	450	1500
8	Mung (GM-4)	Varietal	Variety	- " -	15	200	300
9	Sesamum (GT-2)	ICM	IDM	- " -	25	500	1000
10	Castor (GCH-6)	Variety	Variety, IDM	- " -	15	300	500
11	Cabbage	IPM	IPM	- " -	3	35	50
12	Chickpea (G-2)	IDM,IPM	IDM,IPM	- " -	18	400	1000

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

b. Details of FLDs implemented during 2007-08 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
Oilseeds										
1	Groundnut (GG-5)	IDM	IDM, Variety	<i>Kharif</i> 08-09	10	10	14	6	20	-
Cotton										
2	Cotton (Bt. Cotton)	ICM	IPM	<i>Kharif</i> 08-09	10	10	13	7	20	-
Vegetables										
3	Chilli (Reshampatto)	IPM	IPM	<i>Kharif</i> 07-08	5	5	2	8	10	-
4	Brinjal (GBL-1)	IPM	IPM	<i>Kharif</i> 07-08	5	5	1	9	10	-
5	Tomato (GT-2)	INM	INM	<i>Kharif</i> 07-08	5	5	2	8	10	-
Cereals										
6	Wheat (GW-366)	Varietal Evaluation	Variety	<i>Rabi</i> 07-08	20	20	25	15	40	-
Horticultural Crops										
7	Cumin (Guj.Cum.-4)	IDM	IDM	<i>Rabi</i> 07-08	10	10	13	7	20	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Oilseeds											
Groundnut (GG-5)	<i>Kharif</i>	Rainfed	Medium black soil	Low	Medium	High	G'nut, Sesamum	1 to 18 July. 08	10 to 29 Oct. 08	669	22
Cotton											
Cotton (Bt. Cotton)	<i>Kharif</i>	Rainfed	Medium black soil	Low	Medium	High	cotton	1 to 20 July. 08	20 to 29 Feb. 09	669	22
Vegetables											
Chilli (Reshampatto)	<i>Kharif</i>	Rainfed	Medium black soil	Low	Medium	High	cotton	1 to 28 July. 08	20 to 29 Jan. 09	669	22
Brinjal (GBL-1)	<i>Kharif</i>	Rainfed	Medium black soil	Low	Medium	High	cotton	1 to 28 July. 08	20 to 29 Jan. 09	669	22
Tomato (GT-2)	<i>Kharif</i>	Rainfed	Medium black soil	Low	Medium	High	cotton	1 to 28 July. 08	20 to 29 Jan. 09	669	22
Cereals											
Wheat (GW-366)	<i>Rabi</i>	Irrigated	Medium black	Low	Medi-um	high	Groun-dnut	5 – 15 Nov. -08	8 – 22 Mar. 09	-	-
Horticultural Crops											

Cumin (Guj.Cum.-4)	Rabi	Irrigated	Light soil	Low	Medium	high	Groundnut	5 – 15 Nov. -08	1 – 20 Feb. 09	-	-
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Performance of FLD

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
	Oilseeds											
1	Groundnut	IDM, Variety	GG-5	20	10	24.3	17	20.62	16.25	21.21	7000	8500
	Cotton											
2	Cotton	IPM, Variety	Bt. Cotton	20	10	29	21	25.00	20.31	18.75	2880	5000
	Vegetables											
3	Chilli	IPM	Resham patto	10	5	122	118	120	102.5	14.58	8250	9300
4	Brinjal	IPM	PLR-1	10	5	515	510	512.5	452.5	11.70	12535	13522
5	Tomato	INM	TP-3	10	5	580	570	575	502.5	12.60	5231	6241
	Cereals											
6	Wheat	Variety	GW-366	40	20	55	52.50	53.75	45	16.27	1050	920
	Horticultural Crops											
7	Cumin	Variety	Guj. Cum.-4	20	10	14.5	10.5	12.5	10	20.00	930	1250

Economic Impact (continuation of previous table)

Crop	Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio
	Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
	14	15	16	17	18	19	20
Oilseeds							
Groundnut	26200	27100	58550	46625	32350	19525	2.23
Cotton							
Cotton	22600	23000	76406	53320	53806	30320	3.8
Vegetables							
Chilli	27250	30240	137525	115000	110275	84760	5.05
Brinjal	36785	41450	182560	168456	145775	127006	4.96
Tomato	37788	40400	167625	157875	129837	117475	4.44
Cereals							
Wheat	13400	15000	60468	50625	47068	35625	3.51
Horticultural Crops							
Cumin	12000	13500	95312	76250	83312	62750	3.94

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

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

Crop	Season	Component		Farming situation	Average Yield (q/ha)	Local Check Yield (q/ha)	Percentage increase in productivity over local check
Groundnut	Kharif - 2007	Seed (Variety)	GG-5	Rainfed	20.62	16.25	21.21
		Bio-fertilizer	PSB+ Culture				
		Fertilizer Management					
		Plant Protection	Thiram, Trichoderma, Carbendazim 0.05%, Imidacloprid @ 0.006%				
		Combination of Components					
Cotton	Kharif - 2007	Seed (Variety)	Bt. Cotton	Rainfed	25.0	20.31	18.75
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	imidacloprid 0.006%				
		Combination of Components					
Chilli	Kharif - 2007	Seed (Variety)		Irrigated	120	102.5	14.58
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Imidacloprid 0.006%, Carbendazim 0.05%				
		Combination of Components					
Brinjal	Kharif - 2007	Seed (Variety)		Irrigated	512	452.5	11.70
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Imidacloprid 0.006%, Carbendazim 0.05%				
		Combination of Components					
Tomato	Kharif - 2007	Seed (Variety)		Irrigated	575	502.5	12.60
		Bio-fertilizer					
		Fertilizer Management	Mix Micronutrient				
		Plant Protection	Imidacloprid 0.006%, Carbendazim 0.05%				
		Combination of Components					
Wheat	Rabi 2007 - 08	Seed (Variety)	GW - 366	Irrigated	53.75	45	16.28
		Bio-fertilizer	PSB+ Culture				
		Fertilizer Management	Zinc Sulphate, 120:60:0				
		Plant Protection	Chlorpyriphos				
		Combination of Components					
Cumin	Rabi 2007 - 08	Seed (Variety)	Gu.Cum.-4	Irrigated	12.5	10	20
		Bio-fertilizer	PSB culture				
		Fertilizer Management	Zinc sulphate, 50:50:0				
		Plant Protection	Mancozeb, sulphur,				
		Combination of Components					

Technical Feedback on the demonstrated technologies

Sl. No.	Crop	Variety	Farmers' Feed Back
1	Groundnut	GG-5	<ul style="list-style-type: none"> ➤ Stress resistance variety having grow in rainfed as well as irrigated condition ➤ High yield potentiality ➤ Bunch type & short duration variety (90 days) ➤ Low vegetative growth
2	Cotton	Bt.Cotton	<ul style="list-style-type: none"> ➤ Bollworm resistant ➤ High yielding variety ➤ Short duration variety
3	Chilli	Local	<ul style="list-style-type: none"> ➤ Higher yield ➤ Resistant to anthracnose diseases ➤ Good result on pest & disease management
4	Brinjal	Local	<ul style="list-style-type: none"> ➤ Good result on pest & disease management
5	Tomato	Local	<ul style="list-style-type: none"> ➤ Higher yield ➤ Low incidence of pests & Disease ➤ Fruit quality is good
6	Wheat	GW-496	<ul style="list-style-type: none"> ➤ Seed provided was healthy with good germination ➤ Require termite and stem borer resistant variety. ➤ Variety GW – 496 has good potential yield ➤ Good variety for chapatti & Baking, ➤ Grain quality is good for higher market price
7	Cumin	Guj. Cum.-4	<ul style="list-style-type: none"> ➤ Diseases resistant variety ➤ High yielding variety

Farmers' reactions on specific technologies

Sl. No.	Crop	Variety	Farmers' Reaction
1	Groundnut	GG-5	<ul style="list-style-type: none"> ➤ Seed provided was healthy with good germination. ➤ this variety is better than local variety ➤ There is clear difference between demonstrated variety and local variety in performance
2	Cotton	Bt. Cotton	<ul style="list-style-type: none"> ➤ Bollworm resistant ➤ High yielding variety ➤ Short duration variety
3	Chilli	Local	<ul style="list-style-type: none"> ➤ Higher yield ➤ Resistant to anthracnose diseases ➤ Good result on pest & disease management
4	Brinjal	Local	<ul style="list-style-type: none"> ➤ Good result on pest & disease management
5	Tomato	Local	<ul style="list-style-type: none"> ➤ Higher yield ➤ Low incidence of pests & Disease ➤ Fruit quality is good
6	Wheat	GW-496	<ul style="list-style-type: none"> ➤ Seed provided was healthy with good germination ➤ Require termite and stem borer resistant variety.
7	Cumin	Guj. Cum.-4	<ul style="list-style-type: none"> ➤ Diseases resistant variety ➤ High yielding variety

Extension and Training activities under FLD

Sr. No.	Activity	No. of Activity organised	Date	No. of Participants			Remarks
				Male	Female	Total	
	Groundnut						
1.	Field days	2		56	22	78	
2.	Training for farmers	1		20	-	20	
3.	Radio Talk	1					
	Cotton						
1.	Field days	4		85	20	105	
2.	Training for farmers	1		38	4	42	
3.	Radio Talk	1					
4.	Training for Extension functionaries						
	Chilli						
1.	Field days	1		23	7	30	
2.	Training for farmers	1		28	4	32	
3.	Radio Talk	1					
4.	Training for Extension functionaries						
	Brinjal						
1.	Field days	1		28	12	40	
2.	Training for farmers	1		26	5	31	
3.	Radio Talk	1					
4.	Training for Extension functionaries						
	Tomato						
1.	Field days	1		25	10	35	
2.	Training for farmers	1		38	4	42	
3.	Radio Talk	1					
4.	Training for Extension functionaries						
	Wheat						
1.	Field days	5		110	32	142	
2.	Training for farmers	2		80	-	80	

3.	Media coverage (Radio Talk)	1					
4.	Training for Extension functionaries						
Cumin							
1.	Field days	3		52	14	66	
2.	Training for farmers	1		20	-	20	
3.	Media coverage (Radio Talk)	1					
4.	Training for Extension functionaries	1		27		27	

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		
Sprayer	Groundnut	10	5	Men power	-	-	-	-
Blower	orchard	2	2	Men power				
Rotavator	cotton	10	5	Recycling material				
Chalf-cutter	cotton	10	5	Recycling material				

* Field efficiency, labour saving etc.

(ii) Livestock Enterprises

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

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

(iii) Other Enterprises

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

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

A) ON Campus

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	3	36	12	48	20	5	25	56	17	73
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Water management	1	13	2	15	3	2	5	16	4	20
Seed production	1	14	7	21	7	2	9	21	9	30
Nursery management				0			0	0	0	0
Integrated Crop Management	1	14	2	16	2	1	3	16	3	19
Fodder production				0			0	0	0	0
Production of organic inputs	1	16	3	19	3	1	4	19	4	23
Total	7	93	26	119	35	11	46	128	37	165
II Horticulture				0			0			0
a) Vegetable Crops				0			0	0	0	0
Production of low volume and high value crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising	2	41	14	55	17	9	26	58	23	81
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits				0			0	0	0	0
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
c) Ornamental Plants				0			0	0	0	0
Nursery Management	2	26	9	35	7	1	8	33	10	43
Management of potted plants				0			0	0	0	0

Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
e) Tuber crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants				0			0	0	0	0
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Total	4	67	23	90	24	10	34	91	33	124
III Soil Health and Fertility Management				0			0			0
Soil fertility management	2	27	8	35	11	3	14	38	11	49
Soil and Water Conservation	2	27	10	37	13	5	18	40	15	55
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Soil and Water Testing				0			0	0	0	0
Total	4	54	18	72	24	8	32	78	26	104
IV Livestock Production and Management				0			0			0
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed management				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0

V Home Science/Women empowerment				0			0			0
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	4	0	80	80	0	21	21	0	101	101
Income generation activities for empowerment of rural Women	1	0	14	14	0	3	3	0	17	17
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts	1	0	14	14	0	4	4	0	18	18
Women and child care	1	0	16	16	0	2	2	0	18	18
Total	7	0	124	124	0	30	30	0	154	154
VI Agril. Engineering				0			0			0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protection				0			0			0
Integrated Pest Management	10	186	49	235	51	18	69	237	67	304
Integrated Disease Management	7	141	39	180	41	17	58	182	56	238
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
Total	17	327	88	415	92	35	127	419	123	542
VIII Fisheries				0			0			0
Integrated fish farming	1	45	6	51	6	4	10	51	10	61
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0

Composite fish culture	2	31	7	38	9	3	12	40	10	50
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Total	3	76	13	89	15	7	22	91	20	111
IX Production of Inputs at site				0			0			0
Seed Production	2	25	11	36	10	2	12	35	13	48
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	3	32	26	58	10	10	20	42	36	78
Organic manures production	1	16	10	26	6	4	10	22	14	36
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Total	6	73	47	120	26	16	42	99	63	162
X Capacity Building and Group Dynamics				0			0			0
Leadership development	1	14	8	22	2	0	2	16	8	24
Group dynamics	1	12	5	17	4	1	5	16	6	22
Formation and Management of SHGs	1	11	4	15	12	5	17	23	9	32
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Total	3	37	17	54	18	6	24	55	23	78
XI Agro-forestry				0			0			0
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)				0			0			0

TOTAL	51	727	356	1083	234	123	357	961	479	1440
(B) RURAL YOUTH				0			0			0
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming	1	8	3	11	4	0	4	12	3	15
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	6	0	77	77	0	27	27	0	104	104
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	1	12	12	24	3	4	7	15	16	31
TOTAL	8	20	92	112	7	31	38	27	123	150
(C) Extension Personnel				0			0			0

Productivity enhancement in field crops	1	15	2	17	5	0	5	20	2	22
Integrated Pest Management	1	19	1	20	8	0	8	27	1	28
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Any other (Pl. Specify)				0			0	0	0	0
TOTAL	2	34	3	37	13	0	13	47	3	50
Grand Total	61	781	451	1232	254	154	408	1035	605	1640

B) Off Campus

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	2	29	7	36	12	5	17	41	12	53
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification	1	45	2	47	8	3	11	53	5	58
Integrated Farming				0			0	0	0	0
Water management	1	18	1	19	9	2	11	27	3	30
Seed production	1	26	10	36	3	2	5	29	12	41
Nursery management				0			0	0	0	0
Integrated Crop Management	1	15	2	17	6	2	8	21	4	25
Fodder production				0			0	0	0	0

Production of organic inputs				0			0	0	0	0
Total	6	133	22	155	38	14	52	171	36	207
II Horticulture				0			0			0
a) Vegetable Crops				0			0	0	0	0
Production of low volume and high value crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising	2	48	9	57	12	4	16	60	13	73
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits				0			0	0	0	0
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
c) Ornamental Plants				0			0	0	0	0
Nursery Management	1	14	3	17	3	2	5	17	5	22
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
e) Tuber crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants				0			0	0	0	0
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0

Post harvest technology and value addition				0			0	0	0	0
Total	3	62	12	74	15	6	21	77	18	95
III Soil Health and Fertility Management				0			0			0
Soil fertility management				0			0	0	0	0
Soil and Water Conservation	2	43	14	57	16	5	21	59	19	78
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops	1	12	2	14	3	2	5	15	4	19
Nutrient Use Efficiency	1	15	4	19	6	1	7	21	5	26
Soil and Water Testing				0			0	0	0	0
Total	4	70	20	90	25	8	33	95	28	123
IV Livestock Production and Management				0			0			0
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management				0			0			0
Feed management				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment				0			0			0
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	2	0	44	44	0	13	13	0	57	57
Income generation activities for empowerment of rural Women	1	0	14	14	0	8	8	0	22	22
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care	2	0	28	28	0	24	24	0	52	52

Total	5	0	86	86	0	45	45	0	131	131
VI Agril. Engineering				0			0			0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protection				0			0			0
Integrated Pest Management	9	162	32	194	48	16	64	210	48	258
Integrated Disease Management	6	137	18	155	38	8	46	175	26	201
Bio-control of pests and diseases	2	49	5	54	24	8	32	73	13	86
Production of bio control agents and bio pesticides				0			0	0	0	0
Total	17	348	55	403	110	32	142	458	87	545
VIII Fisheries				0			0			0
Integrated fish farming	2	41	9	50	11	6	17	52	15	67
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture	1	18	2	20	8	2	10	26	4	30
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	1	15	3	18	2	0	2	17	3	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
Total	4	74	14	88	21	8	29	95	22	117
IX Production of Inputs at site				0			0			0
Seed Production	2	37	7	44	18	5	23	55	12	67
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	2	29	6	35	9	2	11	38	8	46
Organic manures production	2	47	9	56	7	2	9	54	11	65
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Total	6	113	22	135	34	9	43	147	31	178
X Capacity Building and Group Dynamics				0			0			0
Leadership development	1	28	3	31	8	4	12	36	7	43
Group dynamics	1	34	8	42	5	3	8	39	11	50
Formation and Management of SHGs	1	31	8	39	6	2	8	37	10	47
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Total	3	93	19	112	19	9	28	112	28	140
XI Agro-forestry				0			0			0
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)				0			0			0
TOTAL	48	893	250	1143	262	131	393	1155	381	1536
(B) RURAL YOUTH				0			0			0
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Sericulture				0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0

Value addition	2	0	32	32	0	16	16	0	48	48
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	1	0	0	0	12	4	16	12	4	16
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	5	0	0	0	72	14	86	72	14	86
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	8	0	32	32	84	34	118	84	66	150
(C) Extension Personnel				0			0			0
Productivity enhancement in field crops	1	21	0	21	9	0	9	30	0	30
Integrated Pest Management	1	23	0	23	8	0	8	31	0	31
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0

Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Any other (Pl. Specify)				0			0	0	0	0
TOTAL	2	44	0	44	17	0	17	61	0	61
Grand Total	58	937	282	1219	363	165	528	1300	447	1747

C) Consolidated table (On and OFF Campus)

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	5	65	19	84	32	10	42	97	29	126
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	1	45	2	47	8	3	11	53	5	58
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Water management	2	31	3	34	12	4	16	43	7	50
Seed production	2	40	17	57	10	4	14	50	21	71
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	2	29	4	33	8	3	11	37	7	44
Fodder production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	16	3	19	3	1	4	19	4	23
Total	13	226	48	274	73	25	98	299	73	372
II Horticulture	0	0	0	0	0	0	0	0	0	0
a) Vegetable Crops	0	0	0	0	0	0	0	0	0	0
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	4	89	23	112	29	13	42	118	36	154
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0
b) Fruits	0	0	0	0	0	0	0	0	0	0
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0

Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Nursery Management	3	40	12	52	10	3	13	50	15	65
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Total	7	129	35	164	39	16	55	168	51	219
III Soil Health and Fertility Management	0	0	0	0	0	0	0	0	0	0
Soil fertility management	2	27	8	35	11	3	14	38	11	49
Soil and Water Conservation	4	70	24	94	29	10	39	99	34	133
Integrated Nutrient Management	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
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	1	12	2	14	3	2	5	15	4	19
Nutrient Use Efficiency	1	15	4	19	6	1	7	21	5	26
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Total	8	124	38	162	49	16	65	173	54	227
IV Livestock Production and Management	0	0	0	0	0	0	0	0	0	0
Dairy Management	0	0	0	0	0	0	0	0	0	0

Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment	0	0	0	0	0	0	0	0	0	0
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	6	0	124	124	0	34	34	0	158	158
Income generation activities for empowerment of rural Women	2	0	28	28	0	11	11	0	39	39
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	1	0	14	14	0	4	4	0	18	18
Women and child care	3	0	44	44	0	26	26	0	70	70
Total	12	0	210	210	0	75	75	0	285	285
VI Agril. Engineering	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protection	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	19	348	81	429	99	34	133	447	115	562
Integrated Disease Management	13	278	57	335	79	25	104	357	82	439
Bio-control of pests and diseases	2	49	5	54	24	8	32	73	13	86

Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Total	34	675	143	818	202	67	269	877	210	1087
VIII Fisheries	0	0	0	0	0	0	0	0	0	0
Integrated fish farming	3	86	15	101	17	10	27	103	25	128
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	3	49	9	58	17	5	22	66	14	80
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	1	15	3	18	2	0	2	17	3	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	0	0	0	0	0	0	0	0	0	0
Total	7	150	27	177	36	15	51	186	42	228
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Seed Production	4	62	18	80	28	7	35	90	25	115
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	5	61	32	93	19	12	31	80	44	124
Organic manures production	3	63	19	82	13	6	19	76	25	101
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Total	12	186	69	255	60	25	85	246	94	340
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0	0
Leadership development	2	42	11	53	10	4	14	52	15	67
Group dynamics	2	46	13	59	9	4	13	55	17	72
Formation and Management of SHGs	2	42	12	54	18	7	25	60	19	79
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0

WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Total	6	130	36	166	37	15	52	167	51	218
XI Agro-forestry	0	0	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	99	1620	606	2226	496	254	750	2116	860	2976
	0	0	0	0	0	0	0			
(B) RURAL YOUTH	0	0	0	0	0	0	0			0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Integrated Farming	1	8	3	11	4	0	4	12	3	15
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	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	8	0	109	109	0	43	43	0	152	152
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	1	0	0	0	12	4	16	12	4	16
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	5	0	0	0	72	14	86	72	14	86
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	1	12	12	24	3	4	7	15	16	31
TOTAL	16	20	124	144	91	65	156	111	189	300
	0	0	0	0	0	0	0			
(C) Extension Personnel	0	0	0	0	0	0	0			0
Productivity enhancement in field crops	2	36	2	38	14	0	14	50	2	52
Integrated Pest Management	2	42	1	43	16	0	16	58	1	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
Any other (Pl. Specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	4	78	3	81	30	0	30	108	3	111
Grand Total	119	1718	733	2451	617	319	936	2335	1052	3387

Datewise details of training programmes given in Annexure – IV

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants									No. of persons employed	No. of persons employed elsewhere
					General			SC/ST			Total				
					Male	Female	Total	Male	Female	Total	Male	Female	Total		
Integrated	15-10-08	Integrated farming	Mix farming	1	8	3	11	4	0	4	12	3	15	2	1

Vegetable	27-2-09	Packaging & Preservation of vegetables	Value addition in vegetable	1	0	15	15	0	3	3	0	18	18	2	1
Vegetable	3-3-09	Packaging & Preservation of vegetables	Value addition in vegetable	1	0	14	14	0	5	5	0	19	19	1	0
Fruit	15-4-09	Preparation of Jam - Jelly & pickles	Value addition in fruits	1	0	10	10	0	4	4	0	14	14	1	0
Fruit	23-4-09	Preparation of Jam - Jelly & pickles	Value addition in fruits	1	0	14	14	0	3	3	0	17	17	0	0
Fisheries	17-1-09	Ornamental fisheries	Income generation	1	0	0	0	12	4	16	12	4	16	1	0
Fisheries	6-2-09	Fresh prawn culture	Income generation	1	0	0	0	21	3	24	21	3	24	2	0
Fisheries	5-3-09	Fresh prawn culture	Income generation	1	0	0	0	12	2	14	12	2	14	1	0

*training title should specify the major technology / skill transferred

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

Sl. No.	Date	Title	Discipline	Thematic area	Duration	Total No. of participants									Sponsoring Agency
						Other			SC/ ST			Total			
		Farmers													
1	14-10-08	Isopom (Oilseeds)	Pl.Prot	IPM /INM /ICM	1	15	5	20	8	2	10	23	7	30	DAO
2	14-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	19	4	23	5	2	7	24	6	30	DAO
3	15-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	13	4	17	9	3	12	22	7	29	DAO
4	15-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	12	7	19	7	4	11	19	11	30	DAO
5	16-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	14	8	22	6	3	9	20	11	31	DAO
6	16-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	12	6	18	9	4	13	21	10	31	DAO
7	18-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	13	7	20	6	3	9	19	10	29	DAO
8	18-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	13	8	21	9	3	12	22	11	33	DAO
9	20-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	18	1	19	12	2	14	30	3	33	DAO
10	20-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	21	0	21	9	4	13	30	4	34	DAO
11	21-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	22	0	22	8	5	13	30	5	35	DAO
12	21-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	17	0	17	10	6	16	27	6	33	DAO

13	22-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	16	0	16	17	7	24	33	7	40	DAO
14	22-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	18	0	18	15	5	20	33	5	38	DAO
15	23-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	13	0	13	8	4	12	21	4	25	DAO
16	23-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	16	0	16	6	5	11	22	5	27	DAO
17	24-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	17	5	22	11	6	17	28	11	39	DAO
18	24-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	14	2	16	7	7	14	21	9	30	DAO
19	27-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	11	1	12	13	3	16	24	4	28	DAO
20	27-10-08	Isopom (Oilseeds)	Pl.Prot	-"	1	17	0	17	8	8	16	25	8	33	DAO
21	24-11-08	National Soil Conservation Saptah	Soil health	INM, Improve Soil	1	48	8	56	22	2	24	70	10	80	DRDA
22	29-11-08	National Soil Conservation Saptah	Soil health	INM, Improve Soil		35	15	50	12	8	20	47	23	70	DRDA
23	11-11-08	Crop Production	Crop Prod	IPM /INM /ICM	1	45	8	53	8	3	11	53	11	64	IFFCO
24	22 to 24-12-08	Crop Production	Crop Prod	IPM /INM /ICM	2	35	0	35	5	0	5	40	0	40	IFFCO
25	16-12-08	Horticultural crops	Hort	ICM &	1	25	5	30	10	5	15	35	10	45	NHRDF
26	28-12-08	Kharif crop improvement	Crop Prod	IPM /INM /ICM	1	950	150	1100	350	50	400	1300	200	1500	Pesticide Asso.
27	22-07-09	Crop Production	Crop Prod	IPM /INM /ICM	1	26	12	38	6	4	10	32	16	48	Mahindra
28	29-07-09	Land Preparation	Soil health	Land Preparation	1	25	5	30	10	5	15	35	10	45	Mahindra
29	30-07-09	INM	Soil health	IPM /INM /ICM	1	36	7	43	4	3	7	40	10	50	Mahindra
30	05-04-09	IPM & ICM of Kharif crops	Pl.Prot	IPM/INM/ICM	1	14	4	18	6	4	10	20	8	28	Arya Seed
31	31-01-09	IPM & ICM	Pl.Prot	IPM /INM /ICM	1	45	10	55	15	5	20	60	15	75	BOB
32	21-05-09	Crop Planning in Kharif	Crop Prod	IPM /INM /ICM	1	800	300	1100	250	150	400	1050	450	1500	DRDA
33	23-01-09	Organic Farming	Crop Prod	Organic Farming	1	45	15	60	10	5	15	55	20	75	Kisan Sangh
34	03-02-09	Winter crop productionq	Crop Prod	IPM /INM /ICM	1	15	5	20	12	3	15	27	8	35	Mahindra
35	05-05-09	Precaution in plant protection for kharif crops	Pl.Prot	IPM/ICM/INM	1	34	6	40	46	10	56	80	16	96	FSFC
36	07-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	12	4	16	9	2	11	21	6	27	DAO
37	07-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	14	5	19	10	1	11	24	6	30	DAO

38	08-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	15	4	19	6	2	8	21	6	27	DAO
39	08-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	16	6	22	11	2	13	27	8	35	DAO
40	11-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	13	7	20	8	1	9	21	8	29	DAO
41	12-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	21	4	25	14	0	14	35	4	39	DAO
42	12-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	22	2	24	9	0	9	31	2	33	DAO
43	18-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	18	1	19	14	0	14	32	1	33	DAO
44	18-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	12	4	16	11	1	12	23	5	28	DAO
45	19-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	16	0	16	10	2	12	26	2	28	DAO
46	19-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	12	0	12	19	0	19	31	0	31	DAO
47	21-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	18	6	24	11	0	11	29	6	35	DAO
48	21-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	12	5	17	16	2	18	28	7	35	DAO
49	22-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	16	6	22	14	3	17	30	9	39	DAO
50	22-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	15	4	19	12	3	15	27	7	34	DAO
51	25-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	19	3	22	10	4	14	29	7	36	DAO
52	26-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	10	2	12	16	3	19	26	5	31	DAO
53	27-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	21	4	25	14	2	16	35	6	41	DAO
54	28-08-09	Cotton Minimission	Pl.Prot	IPM/ICM/INM	1	14	0	14	16	0	16	30	0	30	DAO
55	29-08-09	Isopom (Oilseeds)	Pl.Prot	IPM/ICM/INM	1	16	0	16	14	0	14	30	0	30	DAO
		Rural Youth													
56	05-01-09	Preservation of Fruit & Vegetable	Home Sci	Food Preservation	1	0	10	10	0	5	5	0	15	15	Home Sci. SDAU
		Extension Personnels													
57	15 to 16-01-09	Ravi pre seasonal training	Home Sci	Increase knowledge of crop production	1	16	0	16	7	0	7	23	0	23	DAO
58	02-09-2009	Training for cotton minimission	Pl.Prot	Reduce cost of cultivation	2	23	0	23	12	0	12	35	0	35	DAO
59	11-08-09	Training on plant protection of saurashtra crops	Pl.Prot	Reduce cost of cultivation	1	35	0	35	12	0	12	47	0	47	DuPont

3.4. Extension Programmes (including activities of FLD programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants													
		General			SC / ST			Total							
		Male	Female	Total	Male	Female	Total	Male	Female	Total					

Field Day	25	305	119	424	48	19	67	353	138	491
Kisan Mela	6	2520	980	3500	792	308	1100	3312	1288	4600
Kisan Ghosthi	17	1306	509	1815	387	151	538	1693	660	2353
Exhibition	2	648	252	900	216	84	300	864	336	1200
Film Show		0	0		0	0		0	0	0
Method Demonstrations		0	0		0	0		0	0	0
Farmers Seminar	124	1439	560	1999	320	125	445	1759	685	2444
Workshop		0	0		0	0		0	0	0
Group meetings		0	0		0	0		0	0	0
Lectures delivered as resource persons	87	7179	2793	9972	1195	466	1661	8374	3259	11633
Newspaper coverage	9	0	0		0	0		0	0	0
Radio talks	4	0	0		0	0		0	0	0
TV talks	6	0	0		0	0		0	0	0
Popular articles		0	0		0	0		0	0	0
Extension Literature	10	7819	3041	10860	1058	412	1470	8877	3453	12330
Advisory Services	16	0	0		0	0		0	0	0
Scientific visit to farmers field	211	222	87	309	45	18	63	267	105	372
Farmers visit to KVK	101	1039	405	1444	229	90	319	1268	495	1763
Diagnostic visits		0	0		0	0		0	0	0
Exposure visits		0	0		0	0		0	0	0
Ex-trainees Sammelan		0	0		0	0		0	0	0
Soil health Camp		0	0		0	0		0	0	0
Animal Health Camp		0	0		0	0		0	0	0
Agri mobile clinic	4308	3160	0	3160	547	0	547	3707	0	3707
Soil test campaigns		0	0		0	0		0	0	0
Farm Science Club Conveners meet		0	0		0	0		0	0	0
Self Help Group Conveners meetings		0	0		0	0		0	0	0
Mahila Mandals Conveners meetings		0	0		0	0		0	0	0
Celebration of important days (specify)		0	0		0	0		0	0	0
Female groups	7		55	55	0	30	30	0	85	85
Night Meeting	15	255	100	355	48	19	67	303	119	422
Crop Shibir/Farmer shibir	68	1126	438	1564	128	50	178	1254	488	1742
Collobrative training	45	956	372	1328	276	108	384	1232	480	1712

Training to Extension Functionaries	6	108	43	151	26	11	37	134	54	188
Any Other (Specify)		0	0		0	0		0	0	0
Total	5067	28082	9754	37836	5315	1891	7206	33397	11645	45042

3.5 Production and supply of Technological products (2007-08)

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Wheat	GW-366	400.00	945012.5	
OILSEEDS	Groundnut	GG-5	58.93	31406	100
	Groundnut	GG-6	3.23	6850	3
	Groundnut	TPG-41	11.03	18407	2
	Groundnut	TG-37A	3.32	6636	2
	Groundnut	GG-16	3.07	14070	5
PULSES					
VEGETABLES					
OTHERS (Specify)	Vermi culture	<i>Icenea fatida</i>	0.26	5200	6
	Vermi compost		91.25	27375	

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	400	945013	
2	OILSEEDS	79.58	77369	112
3	PULSES			
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS (Vermi Culture)	0.26	5200	6
TOTAL		479.84	1027582	118

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)		Provided to No. of Farmers
				Per plant	Total	
FRUITS						
SPICES						

VEGETABLES						
FOREST SPECIES						
ORNAMENTAL CROPS						
PLANTATION CROPS						
Others (specify)						

SUMMARY

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

BIO PRODUCTS

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

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

LIVESTOCK

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

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE	-	-	-	-	-
2	SHEEP & GOAT	-	-	-	-	-

3	POULTRY	-	-	-	-	-
4	FISHERIES	-	-	-	-	-
5	OTHERS	-	-	-	-	-
	TOTAL	-	-	-	-	-

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 news letter which is periodically

(B) Literature developed/published

Item	Title	Author	Number
Research papers	Paper presented in seminar on “Participatory approach and Rural Trends in Rural Development” to be held on 31 st August, 2009 at Junagadh Agricultural University, Junagadh 1. Using Participatory Approach for Testing Integrated Disease Management in Groundnut.	K. P. Baraiya, A.K. Baraiya, N. B. Jadav and R. L. Savaliya	
	2. Strategic and Innovative Use of ICT Tools in Transfer of Technology	N.B. Jadav, P. S. Gorfad and P.R. Kanani	
	3. Empowering Farmers by Using Kisan Blog	V.J. Zinzala, N.B. Jadav and P.S. Gorfad	
	4. Recent Trends in Agricultural Extension: Using Information and Communication Technology	P. S. Gorfad, N.B. Jadav and P.R. Kanani	
Technical reports	Monthly Progress Report, Quarterly Progress Report, Half-yearly Progress Report, Annual Report, ZREAC Report, AGRESCO Report	KVK, JAU, Jamnagar	
Popular article	GORFAD, P. S. JADAV, N.B. and ZIZALA, V.J. (2009) Krishi Vigyan Kendra – Krishikar ni divadandi. “ Krishi Jivan” April – 2009 Vol - IX		
Leaflet/ folders			
1.	Khadya Padarthonu Pariraxan	Shri Anjana M. Kanani & Dr. J.N. Nariya	
2.	Vividh Prakarna Biscuit	Shri Anjana M. Kanani & Dr. J.N. Nariya	
3.	Vividh Prakarna Athana	Shri Anjana M. Kanani & Dr. J.N. Nariya	
4.	Sanagna Rash Dharavta Kheti Juthni Rachna, Udesho, Kaydo Ane Vyavastha	Dr. N.B. Jadav & Dr. J.N. Nariya	

5.	Rasayanik Khataroma Poshaktatvonu Praman (%), Dar Ane Teno Karyaxam Upyog	Dr. V.J. Zizala & Dr. J.N. Nariya	
6.	Xariya Ane Amliya Jamin Vara Vistaro	Dr. V.J. Zizala & Dr. J.N. Nariya	
7.	Padtar Jaminme Jinga Uchcher Dwara Arthik Saddharta	Dr. J.N. Thaker R.P. Vavaiya, Dr. J.N. Nariya	
8.	Kapasma Chusiya Jivatonu Niyantaran	Dr. K.P. Baraiya Dr. J.N. Nariya	
9.	Jiruni Vaigyanik Kheti Padhdhti	Dr. K.P. Baraiya Dr. J.N. Nariya	
10.	Magphalima Jivat Niyantaran Vyavastha	Dr. K.P. Baraiya Dr. J.N. Nariya	
11.	Sangraheil Magphalini Kalji	Dr. K.P. Baraiya Dr. J.N. Nariya	
12.	Magphalima Rog Niiyantaran Vyavastha	Dr. K.P. Baraiya Dr. J.N. Nariya	
13.	Kapasma Rog Niyantaran Vyavastha	Dr. K.P. Baraiya Dr. J.N. Nariya	
14.	Kapasma Sankalit Jivat Niyantaran	Dr. K.P. Baraiya Dr. J.N. Nariya	
15.	Divelani Vaignanik Kheti	Dr. K.P. Baraiya Dr. J.N. Nariya	
16.	Magphalina thadno Sado ane tenu Niyantaran	Dr. K.P. Baraiya Dr. J.N. Nariya	
17.	Kapasma Mealybugnu Sankalit Niyantaran	Dr. K. P. Baraiya Dr. J. N. Nariya	

N.B. :- Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(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)

3.7.1 Adoption of IPM in cotton for Mealybug & Sucking Pests

1. Name of farmer : Shri Kishorbhai Laljibhai Pedhadiya
2. Name of the village : Sumari, Ta.:- Jamnagar
3. District : Jamnagar Mo.:-9925410324

Though groundnut is a major crop of this district in *kharif* season, some of the farmers having irrigation facilities are also growing cotton. Cotton attacked by numbers of insect-pests, which causes heavy losses. Farmers are using various toxic insecticides for the control of cotton pests. Indiscriminate uses of insecticides adversely affect the agro-eco system. IPM is only the solution to maintain the natural balance.

Mr. Kishorbhai Laljibhai Pedhadiya is a progressive farmer. Since last three year, he visits KVK to get advice for the planning of plant protection schedule for cotton pests regularly. he adopted some of the IPM component as listed below.

1. Seed treatment with Imidachloprid 70 W.S. @ 7.5 gr. /kg seed.
2. Growing Castor and marigold plant surrounding cotton field as a trap crop.
3. One row of maize after every 10 row of cotton crop for conservation of Chrysoperla and Coccinelidae (Lady bird beetle)
4. Pheromone traps @ 6 trap/ha for *Helicoverpa armigera*. And 6 trap/ha for *Spodoptera litura*.
5. Spraying of 450 LE HNPV during evening period.
6. Spraying of *Beauveria bassiana* @ 2.5 kg/ha
7. Spraying of neem based botanical pesticide.
8. Need base application of safer insecticides like Endosulfan @ 0.07 per cent or Phosalone 0.05 per cent for the control of bollworm of cotton.
9. Application of Methyl parathion 2 % dust along with boudnries and remove shrubs from there for the management of Mealybug

According to Kishorbhai, he was applying 12 to 15 sprays of various insecticides for the control of cotton pests. The total cost of plant protection was approximately 15 to 18 thousand rupees per hectare every years.

IPM components suggested to him. He required only five sprays of Endosulfan 0.07 per cent, Imidacloprid, and Phosalone 0.05 per cent alternatively, for satisfactory control of pests and to obtain good yield. Thus, total cost of plant protection alongwith IPM components was approximately Rs. 5600/-. Thus, by adopting IPM in cotton he saved more than 10,000/- rupees.

3.7.2 Adoption of disease resistant variety of cumin

1. Name of farmer : Mr.Amarshibhai Dhanjibhai Dalsaniya
2. Name of the village : Lakhtar Ta.:- Jodia
3. District : Jamnagar. Mo. 9979742105

Shri Amarshibhai Dhanjibhai Dalsaniya is a progressive farmer of Lakhtar village. He is regular cultivator of the cumin. Mostly farmers of this region are using Gujarat Cumin-2 which is susceptible to blight disease. Through KVK one FLD of Gujarat Cumin-3 variety was allotted to shri Hasmukh bhai during *rabi* 2007-08. This variety performed better against the local one. During last *rabi* season i. e. 2007-08 he cultivated this variety in about three hectare of land due to heavy rainfall during last kharif season there was continuous humid cloudy weather throughout the season. Due to humid condition, most of the cumin field infected by *Alternaria bernsi* but the field of shri Amarshibhai escaped from the disease, because of adoption of disease resistant variety and irrigation management. During off-campus training cumin cultivation technology and package and practices was given to the farmers. During the crop growth period necessarily other information also given to the farmers. Due to adoption of the practices, the crop remain free from blight diseases and.

3.7.3 Success Story : On Vermiculture

Name:	Sri Kantibhai Bhagvanjibhai Ajudia
Village	Makvana
District & Taluka	Jamnagar
Mobile No.	09824218489



The name of Shri Kantibhai Ajudia of village Makvana of halar area in Jamnagar District is well known as a most successful progressive farmer of the District. By dint of perseverance hard working, intelligent farm planning and management, ably supported by trainings, study tours outside the state sponsored by the ATMA and has attained this status due to assistances received from the ATMA, KVK, JAU, Jamnagar.



Born in a typical poverty stricken farm family, Sri Ajudia is the son of Bhagvanjibhai Ajudia. He used to help his father in farming activities since his school days. He could not prosecute studies after S.S.C due to poverty. He took full control of family land since 1985 and since then he never looked back. Step by step he extended in his intensive farming activities with expected returns and visible economic upliftment. Today Sri Kantibhai Ajudia is the pride owner of 45 *bighas* of agricultural land. He is well supported by his family members in farming activities. At present the other farmers are visiting his farm to know how he used scientific crop production technology for higher production like groundnut (4 quintals/*bigha*), cotton (9 quintals/*bigha*) and wheat (13 quintals/*bigha*). He is in position to achieve this by frequent visit to KVK and remained in constant touch with expertise of KVK, JAU, Jamanagar.

He was adjudged best farmer by the GSFC and was *sanmanit* with certificate. He has also delivered the radio talk in *Akashavani* and guidance to many farmers. He rewarded several times by different organisations as a mark of recognition of his successful farming carrier.

Sri Kantibhai Ajudia, has started small-scale vermicompost unit on his farm in year 2001-2002 and gained sufficient experience and underwent training in KVK, JAU, Jamnagar. He is earning Rs. 80,000 and Rs. 40,000 per annum by saling vermicompost and verms, respectively. Now he is extending his unit on large scale with technical support from KVK, JAU, Jamangar .



Icenia fatida

The success story of Sri Kantibhai Ajudia is an eye-opener to present educated youth for adopting farming as a means of livelihood.

3.7.4 Adoption tomato growing & spread in taluka

1. Name of farmer : Mr.Hirabhai Veljibhai Nakum Mo.- 9824818346
2. Name of the village : Dharampur Ta.:- Jamjodhpur
3. District : Jamnagar.

Shri Hirabhai was 4th standard literate traditional farmer of the Dharampur (Ta.:- Jamkhambhadia). He comes in contact of Krishi Vigyan Kendra with the help of Mr. Vajshibhai Chavada (Vajashibhai is Gramsevek of Jamkhambhadia). Before, KVK Contact he was growing groundnut and little area of vegetables like Chilli, brinjal. After training by KVK he appreciated for farming of vegetable. He growing Tomato in 2 hactor with *DRIP* irrigation system. He get Rs. 3 lakhs in single season. He spread this Micro irrigation system technology in taluka and now a days area of toamato becomes 1500 ha in Jamkhambhadia Taluka. Thus, Jamkhambhadia Taluka becomes leader of Tomato due to “TOMATO KING Mr. Hirabhai”

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

Farmers to farmer dissemination

Distributed printed leaflet through farmers

Farm School on farmer's field

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Groundnut, castor	Intercropping of Groundnut – Castor	For more utilization of land
	Cotton, sesamum	Intercropping of sesamum - cotton	Reduction of risk in dry farming area
	Maize, cotton, groundnut	Intercropping of maize – Cotton, Maize – Groundnut	Sown maize as inter cropping for increase population of natural enemies which reduce pest population
	Groundnut, cotton	Motorcycle operated sprayer	It is very cheaper for man power

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
1.	Rampar,
2.	Navi-Pipar
3.	Butavadar
4.	Kalawad
5.	Nani-Vavadi
6.	Sanala
7.	Hodisang
8.	Gokulpur
9.	Ramnagar

-
10. Madhavpur
 11. Beraja
 12. Viramdad
 13. Dharampur
 14. Haripar
 15. Sidhdhpur
 16. Harshadpur
 17. Juvangadh
 18. Vadatra
 19. Shaktinagar
 20. Kalyanpur
 21. Kanuda
 22. Jakasia
 23. Bhinda
 24. Datrana
- ii. No. of farm families selected : 625
- iii. No. of survey/PRA conducted : 1

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab

1. Year of establishment : 2005-06

2. 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	
9	Refrigerator	1	16772
10	Oven	1	30550
11	Hot plate	1	
Total		11	472964

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	324	324	47	2350
Water Samples	288	288	42	1800
Total	612	612	89	4150

4. Details of samples analyzed during 2007-08 :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	25	25	12	
Water Samples	18	18	12	
Total	43	43	24	

4.0 IMPACT

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

Sl. No.	Name of Specific technology/ Skill transferred	No. of participants	% of Adoption	Change in Income	
				Before Training (Rs./ Unit)	After Training (Rs./ Unit)
1.	Vermi compost Unit	95	16	Nil	Initial development of vermicompost unit
2.	Jam-Jelly, Pickle preparation	40	8	Nil	Initial development
3.	Bekery items	18	4	Nil	Initial development
4.	Inland fisheries	19	8	Nil	Initial development

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)

Sr. No.	Item	Prior to KVK activities	Post KVK activities
1	Change in cropping intensity	Mono crop system	30% increase & Mix cropping system
2	Change in productivity of		
	Cereal		
	: Pearl millet	1875 kg/ha yield	2140 kg/ha yield
	: Wheat	3610 kg/ha yield	5240 kg/ha yield
	Oilseeds		
	: Groundnut	392 kg/ha yield	1260 kg/ha yield
	: Castor	2468 kg/ha yield	2860 kg/ha yield
	: Sesamum	146 kg/ha yield	560 kg/ha yield
	: Mustard	1502 kg/ha yield	1790 kg/ha yield
	Pulses		
	: Green gram	940 kg/ha yield	1790 kg/ha yield
	: Chickpea	918 kg/ha yield	1640 kg/ha yield
	Others		
	: Cotton	2275 kg/ha yield	3250 kg/ha yield
	: cumin	791 kg/ha yield	920 kg/ha yield
3	Change in irrigation areas	557 ha	850 ha
4	Use of HYV (High yielding varieties)	Local varieties, old hybrids	New developed varieties
5	Use of fertilizers (NPK)	Over use of Fertilizers	Balance or recommended fertilizer doses
6	Use of pesticides/Fungicides	Injudicious use of pesticides	Judicious use as per recommendation and information
7	Use of FYM & other bio-fertilizer	Not use or very less farmers use & not decompose FYM	Use FYM, vermicompost, decomposed FYM use, some farmers use azotobactor & phosphobacterium cultures for seed treatment
8	Total diesel consumption (litres)	15000 ltrs.	18000 ltrs.

9	Total electricity consumption (Kwh)	4250 kwh	5275 kwh
10	Number of tractors/ machinery	222	450
11	Change in environment & ecology		
	a. No. of trees possessed by the farmers	10110	20350
	b. Wastelands regenerated (ha)	5-4 water shed (ponds)	20-25 small & large ponds in adopted villages
12	Change in alternative energy/ nutrient use pattern	Not use of solar light	Use of solar light, vermi compost, castor cakes
13	Employment generated	Nil	Vermi compost unit, vegetable production
14	Change in economic indicators		
	a. Net returns (Rs./ha)	2000-3000	3500 -4000

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

- Group discussion
- Filling up research based questionnaires
- Knowledge test (Interview schedule)

4.4 IMPACT OF KRISHI VIGYAN KENDRA IN OPERATIONAL AREA

Krishi Vigyan Kendra, Jamnagar started in 2003-04. After the establishment of KVK at Jamnagar, year 2003-04 to 2007-08 KVK selected 10 villages of Jamnagar districts. Among them five villages are rainfed and remaining villages are irrigated. The various activities were planned according to the thrust area on basis of PRA survey. During five year, KVK conducted FLDs in Kharif and rabi to test the yield potentiality of newly released varieties of field crops, need based training programe on various activities, field days and F-S interaction were done in ten KVK villages.

Table 1 Detail status and selected respondents

Sr. No.	Village	Farming situation	Total population	Total no. of farmers	Total no. of selected farmers
1	Mokhana	Rainfed	1200	125	7
2	Knonja	Rainfed	250	55	6
3	Chandraga	Rainfed	600	200	10
4	Makwana	Rainfed	300	60	7
5	Dhandha	Rainfed	455	200	10
6	Amara	Irrigated	6000	500	18
7	Jivapar	Irrigated	3500	250	16
8	Dodhiya	Irrigated	1600	250	16
9	Balambhadi	Irrigated	575	100	8
10	Bed	Irrigated	11000	1200	22
Total			25480	2940	120

* Crop wise impact of all the kvk villages is given in Annexure-VI

With a view to measure the overall impact of Krishi Vigyan Kendra on farmers of ten villages, questionnaires were prepared in local language in two parts, according to ZC office suggestions. 1) Extension intervention indicator 2) Technological intervention indicator. Basic information of selected villages and proportionately selection of respondents are given in Table No. 1. It was considered worthwhile to study entitled “Impact of KVK on selected villages” with following objective.

1. To study the socio-economic profile of selected respondents
2. To assess the impact of extension indicator
3. To study the technological impact of KVK activities.

Socio economic profile of the respondents

Considering the objectives of the study, socio-economic profile of the respondents viz, age, education, family member, size of land holding, social participation, extension contact and farm mechanization index were worked out of selected KVKs respondents. Selected characteristics are narrate in Table no. 2

Table : 2 Distribution of the respondents according to their characteristics

Sr No	Socio-economic characteristics	Selected respondents (n=120)	
		Frequency	Per cent
1	2	3	4
1	Age		
	Young age (up to 35 year)	32	26.67
	Middle age (36 to 50 year)	52	43.33
	Old age (above 50 year)	36	30.00
2	Education		
	Illiterate	13	10.83
	Low education (1 st to 7 th std.)	50	41.67
	Medium education (8 th to 10 th std)	32	26.67
	High education (above 10 th std)	25	20.83
3	Size of family		
	Necular family (> 5 member)	34	28.33
	Joint family (< 5 member)	86	71.67
4	Social Participation		
	Low social participation (>2.14 score)	24	20.00
	Medium social participation (2.14 to 7.14 score)	68	56.67
	High social participation (<7.14 score)	28	23.33

5	Extension Participation		
	Low extension participation (> 3.25 score)	25	20.83
	Medium extension participation (3.25 to 10.40 score)	62	51.67
	High extension participation (<10.40 score)	33	27.50
6	Size of land holding		
	Small holding (up to 2 ha score)	42	35.00
	Medium holding (>2 to 4 ha score)	49	40.83
	Large holding (above 4 ha score)	29	24.17
7	Farm mechanization index		
	Small holding (less than 1.76 score)	18	15.00
	Medium holding (1.76 to 7.58 score)	79	65.83
	Large holding (above 7.5 score)	23	19.17

The data presented in table 2.1 revealed that maximum numbers of the respondents were of 36 to 50 years of age group. i.e. 52.00 per cent followed by old age group 30.00 per cent. In case of education, majority (41.67 per cent) of respondents were educated up to seven standards followed by 26.67 respondents were in medium education. Majority (71.67 per cent) of the respondents were belonged to joint family, followed by nuclear family (28.33 per cent).

The data presented in table revealed that more than half (56.67 per cent) of the respondents had medium social participation followed by high (23.33 per cent) and low (20.00 per cent) social participation. In case of extension participation, 51.67 per cent of the respondents had medium extension participation, whereas 27.50 per cent and 20.83 per cent of them had high and low extension participation respectively.

It is quit clear from table that 40.83 per cent respondents were having 2 to 4 ha of land holding and having 35.00 per cent having more than 4 ha of land holding while only 24.17 per cent respondents having up to 2 ha of land holding. Whereas 65.83 per cent of the farmers had medium farm mechanization index followed by 19.17 per cent respondents had high farm mechanization index.

Impact of extension indicator

In view to ascertain impact of extension indicator, questionnaire made on five years previous experience of the farmers and present experiences of the farmers. The percentage worked out and percent increase should be the growth of

the farmers after the KVK activities in entire village. The data should be given in following table.

Table : 3 Distribution of the respondents according to its extension intervention

N = 120

Sr. No.	Extension indicator	Impact of Krishi Vigyan Kendra				Difference	Ranked
		Before		After			
		Frequency	Percent	Frequency	Percent		
1	Gain in knowledge about technology and package of practices	38	31.67	82	68.33	36.67	IV
2	Extent of awareness	30	25.00	90	75.00	50.00	III
3	Change in attitude	26	21.67	96	80.00	58.33	III
4	Improvement in work performance / skill	55	45.83	65	54.17	8.33	VI
5	Extent of spread of technology (Farertrise / Arcatrise)	24	20.00	96	80.00	60.00	I
6	Increase in SHGs / FIGs	48	40.00	72	60.00	20.00	VI
7	Formation / establishment of cooperative	58	48.33	62	51.67	3.33	VII

The perusal of data presented in table 3 revealed that more than 50.00 per cent difference in case of spread of technology (60.00 %), change in attitude (58.33 %) and extent of awareness (50.00 %).

Other extension indicator, the difference is less than 50.00 per cent whereas gain in knowledge about technology and package of practices (36.67 %) and increase in SHGs / FIGs (20.00 %). The least difference is in case of improvement in work performance and skill (8.33 %) and formation and establishment of cooperative (3.33 %).

From above discussion, it could be concluded that spread of technology (ranked first), change in attitude (ranked second), extent of awareness

(ranked third), gain in knowledge (ranked fourth) and increase in SHGs/CIGs (ranked fifth).

Impact of technological indicator

To find out the technological impact, the following 13 technologies were tested, amongst three i.e. introduction of new varieties, increase in yield / production and increase in area were tested in four major crops of our district which is cotton, groundnut, castor and wheat.

Table 4. Distribution of farmers according to his technological indicator

Sr. No.	Technological indicator	Impact of Krishi Vigyan Kendra				Difference	Ranked
		Before		After			
		Frequency	Percent	Frequency	Percent		
1	Introduction of new varieties	43.25	36.04	76.75	63.96	27.92	III
	Cotton	20	16.67	100	83.33	66.67	
	Groundnut	52	43.33	68	56.67	13.33	
	Castor	56	46.67	64	53.33	6.67	
	Wheat	45	37.50	75	62.50	25.00	
2	Increase in yield / productivity	51	42.50	69	57.50	15.00	VI
	Cotton	35	29.17	85	70.83	41.67	
	Groundnut	58	48.33	62	51.67	3.33	
	Castor	55	45.83	65	54.17	8.33	
	Wheat	56	46.67	64	53.33	6.67	
3	Increase in area	53.5	44.58	66.5	55.42	10.83	VII
	Cotton	38	31.67	82	68.33	36.67	
	Groundnut	63	52.50	57	47.50	-5.00	
	Castor	59	49.17	61	50.83	1.67	
	Wheat	54	45.00	66	55.00	10.00	
4	Increase in production	15	12.50	85	70.83	58.33	I
5	Extent of adoption	44	36.67	76	63.33	26.67	IV
6	Increase in income	42	35.00	78	65.00	30.00	II
7	Generation of employment	56	46.67	64	53.33	6.67	VIII
8	Expansion of an enterprise	58	48.33	62	51.67	3.33	IX
9	Introduction of new enterprise	59	49.17	61	50.83	1.67	X
10	Increase in marketable farm produce	59	49.17	61	50.83	1.67	X
11	Creation of infrastructure	51	42.50	69	57.50	15.00	VI

12	Opening of farm school	58	48.33	62	51.67	3.33	IX
13	Decrease in yield gaps	50	41.67	70	58.337	16.67	V

It is cleared from above mentioned table 4 that the highest difference (58.33 %) observed in increase in production, increase in income (30.00 per cent), introduction of new varieties (27.92 per cent), extent of adoption (26.67 per cent) and 16.67 per cent difference is in decrease in yield gaps.

While remaining technological indicator has less difference observed like same difference (15.00 per cent) observed in increase in yield / productivity and in creation of infrastructure.

Least difference observed in case of generation of employment (6.67 per cent), opening of farm school (3.33 per cent), expansion of an enterprise (3.33 per cent) and 1.67 per cent difference observed in introduction of new enterprise and increase marketable farm produce.

From above discussion it can be concluded that increase in production (ranked first), increase in income (ranked second), introduction of new varieties (ranked third), extent of adoption (ranked fourth) and decrease in yield gaps (ranked fifth).

The reason for increase in production and income of respondents is due to constant concentration and contact of subject matter specialist to the farmers vis versa. Farmers could be solved the problem regarding plant protection and crop production by direct of the specialist. Introduction of new varieties ranked third because new and yield superiority variety is given to farmers as front line demonstration and most of the farmers grow Bt. Cotton variety.

Impact of farm mechanization / IPM / INM etc.

Sr.No.	Practices	Year 2003	Year 2008	Per cent increase
a)	Farm mechanization			
1	Tractor (No.)	45	366	87.70
2	Thresher (No.)	49	91	46.15
3	Seed drill (No.)	62	85	27.06
4	Sprayer (No.)	1725	1975	12.66
5	Seed cum ferti. Drill (No)	22	45	51.11
6	Drip / Sprinkler irrigation set (Ha)	2	18	88.89
b)	Integrated nutrient management			
1	FYM (t)	7250	7560	4.10

2	Urea (t)	311	1287	75.84
3	DAP (t)	67	236	71.61
4	SSP (t)	32	73	56.16
5	Potash (t)	2	51	96.08
6	Mineral mix (kg)	300	2441	87.71
7	Vermi compst (t)	4	8	50.00
8	Gypsum / Sulpher (t)	2	519	99.61
c)	IPM			
1	Use of Trichoderma (kg)	0	1600	100.00
2	Pheromen Trap (no)	0	12	100.00
3	NPV (no)	0	4	100.00
4	Neem oil (ltr)	98	1125	91.29
5	Bio pesticides	45	875	94.86

It can be concluded from above Table that in case of farm mechanization the highest per cent increase in Drip / Sprinkler irrigation set (ha) (88.89 per cent), tractor (87.70 per cent), Seed cum ferti drill (51.11 per cent). Least percent increase in case of spraying pump (12.66 per cent). Use of drip and sprinkler ranked first because of increase in area of cotton and in cotton more feasibility. In addition, KVK / GGRC and GOI more emphasized to use drip irrigation system.

In integrated nutrient management the highest percent increase in use of Gypsum (99.61 per cent), use of potash (96.08 per cent) and use of mineral mixture (87.71 per cent). Per cent use of increase use of Urea, DAP and SSP is accordance to increase in area of rabi crops and summer crops. While least percent increase in case use of FYM (4.10 per cent).

In IPM component, highest percent increase in use of trichoderma, NPV and pheromen trap (100.00 per cent). This is due to the constant contact of KVK officer to the farmers by regular visit, mobile and distribution of trichoderma from the centre in addition to farmers are visited KVK in mode of training, problem and for new technology guidance.

Increase and decrease of productivity of major crops KVK villages in last five year (year 2003-2007)

Sr. No.	Crop	Productivity Difference (Kg/ha)	Rank
1	Groundnut	-6.90	IX
2	Cotton	57.70	V
3	Castor	75.29	III
4	Sesamum	78.60	II
5	Wheat	130.85	I
6	Mustard	75.00	IV
7	Gram	48.50	VII

8	Groundnut (summer)	36.75	VIII
9	Green gram (summer)	54.25	VI

From above table, it is clear that more than 50 kg/ha productivity increased in crop viz, wheat (130.85 kg/ha), sesamum (78.60 kg/ha), castor (75.29 kg /ha), Mustard (75.00 kg /ha), cotton (57.70 kg/ha) and Green gram (summer) (54.25 kg/ha).

While, less than 50 kg/ha productivity increased in crop viz, gram (48.50 kg/ha) and groundnut (summer) 36.75 kg/ha.

In case of groundnut *Kharif*, productivity is decreased about 6.90 kg/ha in last five years. This is due to the heavy attack of stem rot disease in groundnut.

From above table it is concluded that wheat (ranked first), sesamum (ranked second), castor (ranked third), mustard (ranked fourth), cotton (ranked fifth), greengram (sixth), gram (seventh), groundnut (summer) (ranked eighth) and groundnut *Kharif* (ranked ninth)

5.0 LINKAGES

5.1 Functional linkage with different organizations

Sr. No.	Name of organization	Nature of linkage
A	Junagadh Agricultural University	
1	College of Agriculture, Junagadh.	Impart training on Agril. aspects.
2	College of Agril. Engg, Junagadh	Impart training on Engg. aspects
3	Spices Research station, Jagudan	Imparrrt training on spices crops and supply of seeds for FLDs
4	Pulse Research Station, Junagadh	Resource in imparting collaborative training to extension functionaries on ODV in pulses. Supply of seeds for FLDs
5	Pulse Research Station, S.K. Nagar	Supply of seeds for crop museum
6	Cotton Research Station, Surat	Supply of seeds for crop museum
7	Sorghum Research Station, Surat	Supply of seeds for crop museum
8	Oilseeds Research Station, Junagadh	Supply of seeds for crop museum
9	Oilseeds Research Station, Amreli	Supply of seeds for crop museum
10	Oilseeds Research Station, S.K. Nagar	Supply of seeds for crop museum, & FLD
11	Research Officer (Fisheries), JAU,Dwarka	Impart Training on Fisheries aspects

B	State corporation and state deptt.	
1	District Agricultural Officer, Deptt. of Agriculture, District Panchayat, Jamnagar	➤ Joint diagnostic team visit at farmers field
2	District Rural Development Agency, Jamnagar	➤ Organizing collaborative training to farmers
3	Deputy Director of Veterinary, Department of veterinary & Animal Husbandry, Jamnagar	➤ For collaborative off campus training
4	Deputy Director of Horticulture, Jamnagar	➤ For collaborative training and demonstration Programme
5	Deputy Director of Agriculture (Training), Farmer Training Centre, Jamnagar	➤ Collaborative on campus training programme
6	Deputy Director of Agriculture (Extension), Jamnagar	➤ For providing hostel facilities to participants and organizing collaborative Mahila Krishi Mela
7	Asstt. Director of Fisheries, Jamnagar	
8	Range Forest Officer, Jamnagar	
9	Asstt. Director of GLDC, Jamnagar	
10	Estate Engineer, Department of Irrigation, Jamnagar	
11	All Taluka Development Officers, and their team at Taluka level	
12	Rajkot-Jamnagar Gramin Bank, Jamnagar	
13	ATMA, Jamnagar	
C	Private Corporation	
1	Territory Manager, GSFC, Jamnagar	➤ Impart training on Agril. aspects
2	Territory Manager, GNFC, Jamnagar	➤ Collaborative on/off campus training programme
3	Territory Manager, IFFCO, Jamnagar	➤ Sponsor training programme
4	Reliance Industries, Dept. of Green Belt, Jamnagar	
5	Essar Oil Industries, Jamnagar	
D	NGOs	
1	Murlidhar Trust, Opp. Trajitpara Branch School, Bhanvad	➤ Impart training on Agril. aspects
2	V.D.R.F. Trust, Momai Xerox, B.P. Road, Bhanvad	➤ Collaborative on/off campus training programme
3	Late J.V. Nariya Educational and Charitable Trust, 49, Modern Market, First Floor, Nr. Amber Cinema	
4	Jay Ashapura Charitable Society, Madhav Nivas, Karmachari Society, Trikonban, Dhrol (Dist.-Jamnagar)	

5	Shekhpat Jalstrav Vikas Mandal, At.- Shekhpat, Post-Aliyabada, Ta.&Dist.- Jamnagar	
6	Lakhtar Jalstrav Gram Vikas Trust, 55, Shiv Complex, At.- Bhadra (Patiya), Ta.-Jodia, Dist.- Jamnagar	
7	Umiya Mataji Mandir Trust, At.- Sidsar, Ta.- Jamjodhpur, Dist.-Jamnagar	
8	Shardapith Education Trust, 104-Shrusti complex, Nr. Gurudwara, Jamnagar	
9	Chachara Education & Charitable Trust, 104-Shrusti complex, Nr. Gurudwara, Jamnagar	
10	Tata Chemical Society for Rural Development Foundation, At. Mithapur, Ta.-Dwarka, Dist.- Jamnagar	

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Establishment of Agricultural Technology Information Centre (ATIC)	2005-06	State Government	70000/-
Establishment of Transfer of Technology (TOT)	2005-06	State Government	100000/-
Transfer of technology by adoption of villages	2008-09	RKVY	5849410/-

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	
2.	Block level training		

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	We have already applied for 5 projects	-	They have not sanctioned

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.	Demonstration Units	Year of Establishment	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	<i>icenea fatida</i>	Vermi culture	0.26	12000	5200	
2	Vermi compost Unit	2007-08	150 sq. m	<i>icenea fatida</i>	Vermi compost	91.25	300	27375	

6.2 Performance of instructional farm (Crops) including seed production

Name of Crop	Date of sowing	Date of harvest	Area (ha.)	Details of Production			Amount (Rs.)		Remarks
				Variety	Type of produce	Quantity (Qtl.)	Cost of inputs	Gross income	
Cereals									
Wheat	19 th Nov. 08 to 2 nd Dec.08	24 to 30 th March 09	8.7	GW-366	Grain	400.00	50000	945012	
					Fodder				
Pulses									
Oilseeds									
Groundnut	18 to 19 Jun.08	5 to 13 Oct. 08	7.15	GG-5	Pod	58.93	20000	31406	
					Fodder				
Groundnut	17 th Jun.08	16 Oct. 08	0.64	GG-6	Pod	3.23	5000	6850	
					Fodder				
Groundnut	16 to 17 Jun. 08	14 Oct. 08	4.25	TPG-41	Pod	11.03	16000	18407	
					Fodder				
Groundnut	3 rd June 08	16 th Oct. 08	1.25	TG-37A	Pod	3.32	5500	6636	
					Fodder				
Groundnut	17 th June 08	16 th Oct. 08	1.0	GG-16	Pod	3.07	5000	14070	
					Fodder				
Fibers									
Cotton				Bt.	Lint	2.26	4000	6102	
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetable									
Brinjal	20-1-09	2-3-09	0.2	PLR-1		1.05	2000	525	
Tomato	20-1-09	2-3-09	0.1	Guj-1		0.35	1000	350	
Chilli	20-1-09	2-3-09	0.1			0.85	1000	42.50	
Okra	20-1-09	2-3-09	0.1	Guj-1		0.20	1000	200	
Ridge gourd	20-1-09	2-3-09	0.1	Jaypur-2		0.10	1000	50	
Sponge gourd	20-1-09	2-3-09	0.1	Guj-1		0.10	1000	50	

Other (Fodder)	-	-	-	-	-	-	-	-	-
Sorghum	20 th July 08	1 st Oct, 08			Fodder	1650.0	5000		
Maize	20 th July 08	1 st Oct, 08			Fodder	4.30	2000		

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	Rohu/ Marigal	-	3000 6000	139000	Nil	Stocking in Aug.-07
2.	Gir Cow	Gir Cow	Milk Dung	7765 125 ton	166453	108710 62500	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/R/Y/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total
1-1-09	Soil & Water Conservation	PF	1	10	2	12	5	3	8
21-4-09	Soil & Water Conservation	PF	1	17	8	25	8	2	10
2-5-09	Water management	PF	1	13	2	15	3	2	5
8-4-09	Soil & Water Conservation	PF	1	15	4	19	9	1	10
17-6-09	Water management	PF	1	18	1	19	9	2	11

Utilization of hostel facilities

Accommodation available (No. of beds) : - nil -

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2008	-	-	-
November 2008	-	-	-
December 2008	-	-	-
January 2009	-	-	-
February 2009	-	-	-
March 2009	-	-	-
April 2009	-	-	-
May 2009	-	-	-
June 2009	-	-	-

July 2009	-	-	-
August 2009	-	-	-
September 2009	-	-	-

7. Details on Rain Water Harvesting structure and micro-irrigation system

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
999000	999000	Pond	8	0	0	10000	100	1.5 ha	20 ha
		Tubewell	0	0	0	0	0	0	20 ha

8. FINANCIAL PERFORMANCE

8.1 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

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2009
	Kharif 2008	Rabi 2008-09	Kharif 2008	Rabi 2008-09	
Inputs				18785	
Extension activities			42364	12400	
TA/DA/POL etc.					
TOTAL	72560		42364	30185	11

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2009
	Kharif 2008	Rabi 2008-09	Kharif 2008	Rabi 2008-09	
Inputs			7865		
Extension activities			1410	1073	
TA/DA/POL etc.					
TOTAL	10371.56		9275	1073	23.56

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2009
	Kharif 2008	Rabi 2008-09	Kharif 2008	Rabi 2008-09	
Inputs				20768	

Extension activities			139305	98750	
TA/DA/POL etc.					
TOTAL	190600		139305	119518	- 68223

8.5 Utilization of KVK funds during the year 2007 -08

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	Recurring Contingencies			
1	Pay & Allowances	3600000	3600000	2954160
2	Traveling allowances	100000	100000	71178
3	Contingencies	670000	670000	708305
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	160000	160000	160000
B	POL, repair of vehicles, tractor and equipments	95000	95000	110000
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	80000	80000	80000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	80000	80000	100000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	115000	115000	118305
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	65000	65000	65000
G	Training of extension functionaries	50000	50000	50000
H	Maintenance of buildings	25000	25000	25000
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)	4370000	4370000	3733643
B.	Non-Recurring Contingencies			
1	Works	-	-	-
2	Equipments including SWTL & Furniture	-	-	-
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-

4	Library (Purchase of assets like books & journals)	-	-	-
	TOTAL (B)	-	-	-
C.	REVOLVING FUND	-	-	-
	GRAND TOTAL (A+B+C)	4370000	4370000	4370000

Utilization of KVK funds during the year 2009 -10 (upto Sep. 2008)(current year)

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	Recurring Contingencies			
1	Pay & Allowances	36,00,000		
2	Traveling allowances	1,00,000		
3	Contingencies	7,00,000		
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1,75,000		
B	POL, repair of vehicles, tractor and equipments	1,00,000		
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1,00,000		
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	95,000		
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1,05,000		
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	75,000		
G	Training of extension functionaries	50,000		
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)	44,00,000		
B.	Non-Recurring Contingencies			
1	Works	41,00,000		
	a) Administrative Building (1 st Instal.)	18,00,000		
	b) Farmer's Hostel (1 st Instal.)	10,00,000		
	c) Staff Quarter (1 st Instal.)	13,00,000		
2	Equipments including SWTL & Furniture	40,000		
	a) Digital Camera	25,000		
	b) Fax Machine	15,000		
3	Vehicle (Four wheeler/Two wheeler, please specify)	-		

4	Library (Purchase of assets like books & journals)	10,000		
	TOTAL (B)	41,40,000		
C.	REVOLVING FUND	-		
	GRAND TOTAL (A+B+C)	85,50,000		

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2004 to March 2005	-	-	-	-
April 2005 to March 2006	1.00	0.2772	0.07674	1.20043
April 2006 to March 2007	1.20043	1.5697	0.68064	2.08946
April 2007 to March 2008	2.08946	8.01158	0.11489	9.98615
April 2008 to March 2009	9.98615	8.54069	8.80367	9.72317
April 2009 to 21st August, 2009	9.72317	2.10846	-	11.83163

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

9.1 National fisheries development board

9.2 CONSTRAINTS

a. Administrative

1. Vacant post (one post of SMS & one post of computer operator) should provide as earliest for better implementation of the programme.

b. Financial

1. For on campus training, farmers may be given to and fro fare to reach the KVK. At present, there is a provision of Rs. 40 per trainee per day for providing boarding facility. During on campus training this amount is to be increase up to Rs. 75 in view of hike of prices.
2. Fund should be release immediately after allotment of FLDs so that purchase of critical inputs can be made and supply in time to the farmers.

c. Technical

1. In case of FLD of groundnut, the amount of critical inputs should be increase for better implementation.

d. Scientific

1. Management of *Sclerotium rolfsii* (White fungus) in groundnut.
2. Wilting of cotton at maturity stage.
3. Yellowing of groundnut
4. Mealybug infestation in cotton
5. Reddening of cotton leaves.

d. Others

1. Separate lecture hall, Office building, Museum hall, Soil Testing Laboratory and home science laboratory should be provided as early as possible.
2. Requirement of purchase new vehicle for mandatory work of KVK. We have already very old vehicle (1992 purchase).

9.3 KRISHI MAHOTSAV – 2009 was arranged during 20-05-09 to 03-06-09

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

Collaborative widely extension activities jointly “Millet research station & KVK Scientists with Department of Agriculture and Others line Departments” were carried out in the district as below.

Sr. No.	Name of Block	Date	Title of seminar	Name of Scientist	No. of Farmers
1.	Jamnagar	20-5-09	Strengthening of females	Smt. A. K. Baraiya Smt. A. C. Maheta	450
2.			Pest Diseases Management in major crops	Mr. Y. H. Ghelani Dr. G. M. Parmar	450
3.			Cattle breeding & diseases management	Mr. I. G. Dhorajiya	450
4.		21-5-09	Scientific farming of Potato & vegetables	Dr. A.G. Patel Mr. B. M. Butani	300
5.			Vermicompost, compost preparation and use of biofertilizer & chemical fertilizers	Dr. V. J. Zinzala Dr. B.M. Dabhi	300
6.			Micro Irrigation system	Dr. H.R. Khafi Mr. G. V. Maravia	300
7.	Jamjodhpur	20-5-09	Scientific farming of food grains	Dr. C. J. Dangaria Dr. N.B. Jadav	200
8.			Vermicompost, compost preparation and use of biofertilizer & chemical fertilizers	Dr. N.B. Jadav Dr. C. J. Dangaria	200
9.			Scientific farming of onion & Garlic	Dr. K. P. Baraiya Dr. V.V. Rajani	200
10.		21-5-09	Animal breeding programme	Dr. S.K. Datta Dr. K.S. Murti	200
11.			Scientific farming of Papaya & Horticultural crops	Dr. D.L. Kadwani Mr. H.G. Vansjaliya	200
12.			Integrated Pests & Diseases Management in cotton	Dr. K. L. Raghwani	200
13.	Bhanvad	22-5-09	Scientific farming of horticultural crops	Dr. D.K. Varu Mr. H.K. Kandoria	400
14.			Recycling of waste material, vermicompost use of biofertilizer	Dr. K.L. Raghwani Mr. P.S. Gorfad	400
15.			Pest-diseases management in Onion-Garlic	Dr. G. M. Parmar Dr. V.R. Virani	400
16.		23-5-09	Pests-Diseases management in Groundnut	Dr. D.L. Kadwani Dr. M.F. Acharya	200
17.			Animal husbandry & Dairy	Mr. B.V. Minipara Mr. M.U. Vachhani	200
18.			Micro irrigation system	Dr. H. R. Khafi Mr. P. S. Gorfad	200
19.	Jodiya	22-5-09	Animal husbandry & Dairy	Dr. P.U. Gajbhaye Dr. J.N. Thaker	250

20.			Integrated Pests management in Cotton	Dr. K. P. Baraiya Mr. Y. H. Ghelani	250
21.			Diseases management in groundnut & Cumin	Dr. D.L. Kadwani Dr. K.K. Dhedhi	250
22.		23-5-09	Vermicompost, compost preparation and use of biofertilizer & chemical fertilizers	Dr. K. P. Baraiya Mr. J. S. Sorathiya	200
23.			Reclamation of saline & alkaline soils	Dr. K. P. Baraiya Dr. V. J. Zinzala	200
24.			Water harvesting & irrigation management	Smt. A.C. Maheta Dr. N.B. Jadav	200
25.	Jam-khambhadiya	27-5-09	Scientific farming of tomato, potato & Vegetables	Dr. M. V. Kanzaria Dr. V. L. Purohit	250
26.			Organic farming & recycling of farm waste	Dr. N. B. Jadav Dr. B.K. Sagarka	250
27.			Processing, packing & Marketing of farm product	Mr. Sanjay Cholera Dr. Prodod Mohanath	250
28.		28-5-09	Animal husbandry & Dairy	Dr. H. G. Shekhat Dr. H.S. Savsani	180
29.			Micro irrigation system	Dr. H.R. Khafi Mr. B.V. Minipara	180
30.			Water harvesting, irrigation and salinity management	Dr. V. J. Zinzala Dr. K.B. Asodariya	180
31.	Dhrol	27-5-09	Cattle breeding & its important	Dr. M.D. Odedara Mr. R.P. Mendapara	240
32.			Scientific farming of food grains	Dr. H.J. Joshi Mr. R.M. Vikani	240
33.			Vermicompost, compost preparation and use of biofertilizer & chemical fertilizers	Dr. K.P. Baraiya Dr. V.P. Andani	240
34.		28-5-09	Integrated pests management in cotton	Dr. K. P. Baraiya Mr. Y. H. Ghelani	180
35.			Diseases Management in groundnut & Cumin	Dr. D. L. Kadwani Mr. N.N. Galani	180
36.			Scientific farming of vegetables	Mr. I. J. Golani Dr. V.L. Purohit	180
37.	Jam-Kalyanpur	29-5-09	Cattle breeding & dairy	Dr. H.S. Savsani Dr. B.B. Javia	250
38.			Natural energy & irrigation management	Dr. P.N. Sarsavadia Dr. P.M. Chauhan	250
39.			Groundnut growing for export	Dr. K.D. Mungrqa Dr. K.K. Dhedhi	250
40.		30-5-09	Water harvesting & irrigation management	Smt. A.C. Maheta Smt. A.K. Baraiya	180
41.			Reclamation of saline-alkaline soils.	Dr. V.J. Zinzala Dr. J.N. Nariya	180
42.			Diseases management in cumin and groundnut	Dr. K.L. Raghvani Mr. N.K. Tank	180
43.	Kalawad	29-5-09	Scientific farming of onion-garlic	Dr. K.V. Kalathiya Dr. M.S. Dudhat	480
44.			Cattle breeding & diseases management	Dr. K. P. Baraiya Dr. R.J. Padodara	480

45.			Recycling of waste material, vermicompost use of biofertilizer, fertilizer	Dr. K. P. Baraiya Dr.M.N. Vaghani	480
46.		30-5-09	Integrated pest management in cotton	Dr. K. P. Baraiya Dr. B. V. Sureja	350
47.			Pests management in stored groundnut	Dr. K. P. Baraiya Dr. N.M. Dadhania	350
48.			Use of micro irrigation systems	Smt. A.C. Maheta Dr. L.G. Vanparia	350
49.	Dwarka	31-5-09	Fisheries and marketing	Dr. K. L. Jetani Dr. S.R. Thaker	370
50.			Reclamation of saline and alkaline soils	Dr. V.J. Zinzala Dr. K.B. Polara	370
51.			Scientific farming of food grains	Dr. C.J. Dangaria Dr. K.K. Dhedhi	370
52.		1-6-09	Cattle breeding and dairy	Dr. S.K. Murthi Dr. K.S. Datta	200
53.			Scientific farming of horticultural crops	Dr. K.M. Karetha Dr. Virendra Singh	200
54.			Scientific farming of medicinal & aromatic crops	Dr. H.L. Dhaduk Dr. K.H. Dabhi	200
55.	Lalpur	31-5-09	Use of FYM, Biofertilizer and biocontrol techniques in organic farming	Dr. L.V. Lakkad Dr. M.N. Vaghani	200
56.			Cattle breeding & dairy	Dr. S.K. Murthi Dr. K.S. Datta	200
57.			Scientific farming of vegetable	Dr. K.V. Kalathiya Dr. V.L. Purohit	200
58.		1-6-09	Integrated diseases management in groundnut	Dr. D.L. Kadwani Dr. R.M. Solanki	400
59.			Integrated pest & diseases management in cotton	Dr. K. P. Baraiya Dr. M.D. Khanpara	400
60.			Micro Irrigation systems	Smt. A.C. Maheta	400

ANNEXURE – I
PROCEEDING OF THE 4th SCIENTIFIC ADVISORY COMMITTEE MEETING OF
KRISHI VIGYAN KENDRA, JUNAGADH AGRICULTURAL UNIVERSITY,
JAMNAGAR HELD ON 17th OCTOBER, 200

The fourth Scientific Advisory Committee meeting of Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar was held at Museum Hall of Millet Research Station, K.V.K., J.A.U., Jamnagar on 17th October, 2008.

The following members were present in the meeting.

Sr. No.	Name & Designation	Position
1	Director of Extension Education, Junagadh Agricultural University, Junagadh -362001.	Chairman
2	Asso. Director of Extension Education, Junagadh Agricultural University, Junagadh	Member
3	Research Scientist (Millet), Main Millet Research Station, Junagadh Agrultural University, Jamnagar- 361 006.	Member
4	Research Officer, Fisheries Research Centre, Junagadh Agricultural University, Okha, Dist: Jamnagar.	Member
5	District Agricultural Officer District Panchayat, Jamnagar	Member
6	Dy. Director of Horticulture, 30, Digvijay Plot, Jodiyawala Building, Jamnagar	Member
7	Dy. Director of Agriculture (Extension), Lalbunglow, Nr. Trazery office, Jamnagar	Member
8	Dy. Director of Agriculture, Farmers Training Centre, Air Force Road, Opp. Digjam Mill, Jamnagar.	Member
9	Deputy Director, Gujarat Land Development Corporation Ltd., Near: Shubhash Market, Jamnagar.	Member
10	Asstt. Director of Fisheries, Sumer club road, Jamnagar	Member
11	Shri. Kantilal Bhagwanjibhai Ajudia At. Makwana, Ta. & Dist.- Jamnagar.	Member
12	Valjibhai Govindbhai Parmar Vadivistar, At.- Jivapar Ta. & Dist.- Jamnagar	Member
13	Jenamben Alibhai Safiya, C/o. Alibhai Sumarbhai Safiya At. Rabarika, Ta.- Jamjodhpur, Dist.-Jamnagar	Member
14	Mukesh N. Rupapara At.- Rampur; Ta:- Lalpur; Dist.:- Jamnagar	Member
15	Sangitaben Mukeshbhai Rupapara At.- Rampur; Ta:- Lalpur; Dist.:- Jamnagar	Member
16	Dr. K. P. Baraiya SMS, KVK, J.A.U, Jamnagar- 361 006.	Member

17	Dr. N. B. Jadav SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
18	Dr. V. J. Zizala SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
19	Dr. J. N. Thaker SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
20	Smt. Anjanben K. Baraiya SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
21	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Jamnagar- 361 006.	Member
22	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Tadghadiya (Rajkot)	Invitee
23	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Khapt (Porbandar)	Invitee
24	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Amreli	Invitee
25	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Nana Kandhasar	Invitee
26	Dr. H. R. Khafi Research Scientist (Agronomy) Millet Research Station, JAU, Jamnagar	Member
27	Dr. K. L. Raghvani Research Scientist (Ag. Entomology) Millet Research Station, JAU, Jamnagar	Member
28	Dr. H. J. Joshi Research Scientist (Pl. Breeding) Millet Research Station, JAU, Jamnagar	Member
29	Dr. V. V. Rajani/Dr. D. L. Kadwani Associate Research Scientist Millet Research Station, JAU, Jamnagar	Member
30	Shri. H. R. Vadar Subject Matter Specialist (Fishries) Krishi Vigyan Kendra, Porbandar	

Dr. C. J. Dangariya, Research Scientist, Millet Research Station, J.A.U., Jamnagar welcomed all the members of the Scientific Advisory Committee and highlighted the achievements of the centre in brief.

Dr. B. K. Kikani, Hon'ble Vice-Chancellor and Chairman of Scientific Advisory Committee was busy in another programme. On behalf of him Dr. R. L. Savaliya, Director of Extension Education, J.A.U, Junagadh chaired the meeting.

After garlanding the guests and dignitaries on the Dias, and inaugurating the meeting by lightening a lamp and University Invocation Song was presented in House. Dr. S. M. Dadhaniya, Associate Director of Extension Education, J.A.U., Junagadh delivered introductory address.

Dr. J.N. Nariya, Programme Coordinator, Krishi Vigyan Kendra, Millet Research Station, J.A.U., Jamnagar presented action taken report of the minutes

of 4th SAC meeting, progress report 2007-08 and technical programme (Action Plan 2008-09).

Committee made the following recommendations after active interaction.

1. It was suggested to plan limited on & off campus training after active interaction of House and chairman, Dr. R. L. Savaliya.
2. Dr. S. M. Dadhaniya, Associate Director of Extension Education suggested for arrangement of training on watermelon cultivation in Dwarka taluka.
3. Dr. R. L. Savaliya and Dr. K. L. Raghvani suggested adding bio-pesticides and split application of methyl parathion @25 kg per hectare at 15 days interval during infestation period in refined treatment of cotton mealy bug management OFT.
4. In addition to OFT of groundnut, refinement treatment of castor cake @ 500 kg per hectare, it was suggested to add drenching of *Trichoderma harzeanum* @ 2.5 kg per hectare in root zone.
5. It was suggested to arrange front line demonstration for yellowing of groundnut

After above suggestions from the house Dr. R. L. Savaliya, Director of Extension Education, Junagadh Agricultural University, Junagadh, delivered the keynote address to the house. He appreciated the work done by the station and KVK, Jamnagar. He suggested that involvement of more number of farmers and specially the marginal farmers to be encouraged in activities of KVK. He also suggested for strong linkage and better cooperation as well as collaborative work with other line departments.

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

Director of Extension Education
Junagadh Agricultural University
Junagadh

(B. K. Kikani)
Vice Chancellor
Junagadh Agricultural University
Junagadh

ANNEXURE - II
WEEKLY METEOROLOGICAL DATA 2008-09

Std. week	Temp. °C Max.	Temp. °C Min.	R.H. Morning	R.H. Evening	Rainfall mm	Rainy days
23	34.7	27	83	62	15.5	2
24	32	26.3	90	68	289	3
25	34	27.1	85	59	0	-
26	33.8	26.7	88	67	21.5	1
27	31.8	26.3	87	66	13	1
28	31.9	26.5	86	65	0	-
29	32.7	26	86	62	0	-
30	32.8	25.7	89	67	29	1
31	30.1	25.3	95	79	29	4
32	30	25.4	92	79	10	1
33	28.4	24.4	96	77	46	2
34	31.1	24	92	61	0	-
35	31.6	23.8	90	61	0	-
36	33.1	25.2	86	56	0	
37	33.7	25.5	91	67	90	3
38	30.3	24.7	94	71	117.5	2
39	31.3	23.8	94	63	0	
40	33	23.6	93	57	0	
41	35.1	23.4	88	43	0	
42	35.6	21.5	72	38	0	
43	35	19	75	32	0	
44	32.6	19.4	90	56	0	
45	33.4	18.3	82	42	0	
46	31	17.6	71	33	0	
47	29.1	15.4	63	34	0	
48	28.6	17.5	71	49	8.5	2
49	29.8	20.7	84	53	0	
50	26.6	15.6	81	51	0	
51	25.7	18.9	78	60	0	
52	26.7	12.1	88	46	0	
1	26.6	13	74	39	0	
2	24.7	14.5	66	48	0	
3	25.9	17.4	78	51	0	
4	27.2	14.6	87	40	0	

5	27.9	10.3	89	30	0	
6	27.1	13.4	85	35	0	
7	29.1	13.1	82	32	0	
8	32.4	14.8	81	29	0	
9	33.4	18.7	97	33	0	
10	32.7	16.3	85	26	0	
11	35	16.7	85	22	0	
12	34.3	20.9	91	35	0	
13	34.6	22.1	85	40	0	
14	36.6	22.6	82	37	0	
15	36	19.8	74	29	0	
16	37.1	22.7	73	29	0	
17	38.9	22.7	81	19	0	
18	38.5	24.6	85	40	0	
19	36.5	25	84	50	0	
20	40	26.5	84	42	0	
21	38	27	81	48	0	
22	37.2	28.1	77	54	0	
23	36.2	27.3	80	58	0	
24	37.2	28	78	52	0	
25	36.8	27	83	59	12.5	1
26	32.8	26.3	92	69	24	2
27	35.9	27.3	86	58	5	1
28	33.4	26.2	92	76	55.5	5
29	31.7	25.5	95	81	179	4
30	29.3	25.4	92	81	177.5	4
31	32.8	26.2	86	62	0	
32						
33						
34						
35						
36						
37						
38						
39						

ANNEXURE – III**B. 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

- 1) Production system :- Rainfed
- 2) Problem Definition :- Management of stem rot
- 3) Title of the technology demonstrated :- Integrated Disease Management
- 4) Thematic area :- Integrated Disease Management
- 5) Year of release of the technology or Year of assessment :- Year - 1999
- 6) Source of technology :- Oil seed research station, JAU, Jamnagar
- 7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Premjibhai Popatbhai Tarpara	Nani vavadi	20
2	Ashokbhai Premjibhai Tarpara	Nani vavadi	20.5
3	Mohanbhai Popatbhai Tarpara	Nani vavadi	19.75
4	Gopalbhai Gordhanbhai Sutaria	Nani vavadi	21
5	Jantibhai Jerambhai	Nani vavadi	21.25
6	Mansukhbhai Laxanbhai	Sanala	18.5
7	Savitaben Maganbhai	Sanala	17.9
8	Rajesbhai Chanabhai	Sanala	18
9	Rudiben Laxaman	Sanala	17
10	Harsukhabhai Ukabhai	Sanala	17.5
11	Ravjibhia Parbat Vasoya	Haripar	21
12	Ogha parbat	Haripar	22.2
13	Pravin Bachaer	Haripar	21.2
14	Devsibhai Govindbhai	Haripar	23
15	Dayabhai Ramjibhai Chuhan	Haripar	20.65
16	Pravin Laxamnabhai	Vodisang	22.5
17	Jantibhai Karasanbhai	Vodisang	24.3
18	Mansubhai Karsanbhai Dama	Vodisang	21.78
19	Vijaybhai Kesabhai	Vodisang	22.42
20	Dilipbhai Chunbhai Nathvani	Jasapara	22

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. Cotton

- 1) Production system :-Rainfed

- 2) Problem Definition :-
- 3) Title of the technology demonstrated :-Varietal assessment and integrated crop management in cotton
- 4) Thematic area :-Integrated crop management
- 5) Year of release of the technology or Year of assessment :-Year - 2004
- 6) Source of technology :- Nijuvedu seeds, S'bad
- 7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Goganbhai Ramdevbhai Vadher	Viramdai	26
2	Govabhai Nagabhai Ambaliya	Viramdai	29
3	Devsibhai Vatsibhai Vadher	Viramdai	27
4	Masribhai Vatsibhai Vadher	Viramdai	25
5	Arjanbhai Ramsibhai Ambaliya	Viramdai	28
6	Muljibhai Madhabhai Joshi	Zakasiya	26
7	Dhanjibhai Madha	Zakasiya	27
8	Dadubhai Ranabhai	Datrana	25
9	Jesbhai meshabhai Gagiya	Veraval	25
10	Palabhai Devrakhibhai Bera	Veraval	21
11	Karsanbhai Naranbhai Gagiya	Veraval	24
12	Babubhai Maldebhai Gagiya	Veraval	22
13	Bharbhai Bhikabhai Gagiya	Veraval	23
14	Nathabhai Vejabhai Gagiya	Veraval	23
15	Gopalabhai Khimabhai Rathod	Veraval	24
16	Mukeshbhai Valjibhai	Rampar	22
17	Virjibhai Keshavjibhai Bhanderi	Rampar	21
18	Virjibhai Ravjibhai Munagra	Rampar	25
19	Mukeshbhai Nanjibhai Rupapra	Rampar	29
20	Bipinbhai Jamanbhi	Rampar	28

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. 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 the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield

1	Pravinbhai Chandubhai Chopada	Dharmpur	121.5
2	Jantibhai Kanabhai Mahudia	Ramnagar	120
3	Ranmalbhai Govabhai	Dharmpur	118
4	Savjibhai Bhikhabhai Nakum	Dharmpur	119.5
5	Chandulal Dhamjibhai Kanzaria	Shanktinagar	120.5
6	Majibhai Jivabhai Kanzaria	Shanktinagar	119
7	Kachetia Jetha Harjibhai	Juvanpur	118.5
8	Jentilal Nanjibhai Khandhar	Dharmpur	122
9	Shamjibhai Govindbhai Nakum	Harshadpur	121.5
10	Ramesh Jeram	Dharmpur	119.5

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. Brinjal

- 1) Production system :-Irrigated
- 2) Problem Definition :-
- 3) Title of the technology demonstrated :-Integrated pest Management in brinjal
- 4) Thematic area :-Integrated Pest Management
- 5) 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 the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Haribhai Jinabhai Kachetia	Kanuda	513.5
2	Ranmalbhai Govabhai Kanzaria	Dharmpur	510.5
3	Savjibhai Bhanabhai Nakum	Dharmpur	511.5
4	Kantibhai Harjibhai Kachetia	Junvanpur	512.5
5	Sagarbhai Jentibhai Khandhar	Dharmpur	513
6	Ketanbhai Samjibhai Nakum	Harshadpur	515
7	Shanital Gopalbhai Kanzaria	Ramnagar	513
8	Jentibhai Manjibhai Hadial	Harshadpur	510.5
9	Mohanbhai Hirabhai Nakum	Shaktinagar	511.5
10	Shrish Dayabhai Kacehtia	Gundamora	514

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. Tomato

- 1) Production system :-Irrigated

- 2) Problem Definition :-
- 3) Title of the technology demonstrated :-Integrated Nutrient Management in Tomato
- 4) Thematic area :-Integrated Nutrient Management
- 5) 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 the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Ramesh Jeram	Dharmpur	578
2	Kachetia Virjibhai Harjibhai	Juvanpur	570
3	Valjibhai Nanajibh Khandar	Dharmpur	579
4	Kaniyalal Aswinbhai Kanzaria	Ramnagar	574
5	Vasharambhai Manjibhai Hadial	Harshadpur	576
6	Nathubhai Nanjibhai Khandhar	Dharmpur	570
7	Vajsibhai Govabhai Bodar	Bhinda	577
8	Devraj Ravjibhai Chopada	Dharmpur	580
9	Dayabhai Hirabhai Hadial	Harshadpur	572
10	Aswinbhai Govindbhai Kanzaria	Ramnagar	574

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. Wheat

- 1) Production system :-Irrigated
- 2) Problem Definition :-
- 3) Title of the technology demonstrated :-Assessment of varietal difference in wheat
- 4) Thematic area :-Variety assessment
- 5) Year of release of the technology or Year of assessment :-Year - 2006
- 6) Source of technology :- Wheat Research Station, JAU, Junagadh
- 7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Vittalbhai Mavjibhai	Rampar	53.4
2	Keshvjibhai Jerambhai Rabadiaq	Rampar	53.6
3	Jamanbhai Trikambhai	Rampar	52.7
4	Valjibhai Limbabhai	Rampar	52.9
5	Keshvjibhai Manjibhai	Rampar	53.9
6	Vittalbhai Limbabhai	Rampar	53.3
7	Gagia natha Veja	Navi Veraval	53.4
8	Der Pithabhai Jinabhai	Navi Veraval	55
9	Kanrangiya Kanabhai Mandabhai	Navi Veraval	53.2
10	Karmur Karsanbhai Rambhai	Navi Veraval	53.5

11	Gagia Naranbhai Bhimasibhai	Navi Veraval	53.7
12	Gagia Malade Naran	Navi Veraval	54.1
13	Gagia Bhikha Nathu	Navi Veraval	54.3
14	Chandrjadiya Nathu Arjan	Butavadar	54.6
15	Pehtabhai Govindbhai Kanzaria	Gokalpar	53.9
16	Gopalbhai Khimabhai Rathod	Beraja	52.7
17	Bhikabhai Bhulabhai Rathode	Beraja	52.5
18	Jesabhai Rambhai Vadher	Viramdal	53.9
19	Virabhai Versibhai Vadher	Viramdal	54
20	Godalbhai Naranbhai Ambalia	Viramdal	54.2
21	Pareshbhai Hirabhai Nakum	Dharampur	52.6
22	Parmar Laljibhai Dosabhai	Siddhipur	54.9
23	Jivabhai Mandanbhai Nandaniya	Vadatara	53.1
24	Varava Khimbhai Vadotaria	Vadatara	53.4
25	Mansukhbhai Parsottambhai Taker	Jakasia	54.9
26	Karanabhai Rambhai Ambalia	Madhavpur	52.6
27	Devayatbhai Khimabhia Lagariya	Madhavpur	54.4
28	Kanjibhai Sambhubhai	Kalawad	54.6
29	Janmohmad Valimohmad	Kalawad	53.4
30	Narasibhai Hirabhai	Kalawad	53.7
31	Nanjibhai Bhurabhai	Nani Vavadi	53.5
32	Premjibhai Ramjibhai	Nani Vavadi	53.9
33	Savitaben Maganbhai	Sanala	54.3
34	Maniben Manjibhai Sanala	Sanala	54.3
35	Rudien Laxambhai	Sanala	54.6
36	Mansukhbhai Laxambhai	Sanala	54.9
37	Mankukbhai Popatbhai	Vodisang	55
38	Jantibhai Laljibhai	Vodisang	52.6
39	Kalubhai Nanjibhai	Vodisang	53.1
40	Ratilal Kurjibhai	Vodisang	53.6

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. Cumin

- 1) Production system :-Irrigated
- 2) Problem Definition :-
- 3) Title of the technology demonstrated :-Integrated Disease Management in cumin
- 4) Thematic area :-Integrated Disease Management
- 5) Year of release of the technology or Year of assessment :-Year - 2002
- 6) Source of technology :- Spices and Condiments Research Station, Jagudan
- 7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Younus Hurmamad	Nanabandanpar	10.5

2	Bharat Ravjibhai	Nanabandanpar	10.9
3	Jerambhai Ramjibhai	Nani Vavadi	14.4
4	Jamanbhai Popatabhai	Nani Vavadi	14.3
5	Vinodbhai Govindbhai	Vodisang	14.5
6	Navalbhai Vallabhai	Vodisang	13.1
7	Yunish Nurmamad Buch	Kalawad	13.4
8	Narsi Hira	Kalawad	13.6
9	Arjanbhai Manjibhai	Sanala	13.7
10	Pruthaviraj Ajesang Chuhan	Navi pipar	12
11	Dhansing Kishorsinh Chuhan	Navi pipar	14.2
12	Vijay Krushnkumar	Navi pipar	12
13	Vikramsingh Pruthviraj Chauhan	Navi pipar	11.3
14	Nagabhai Gogabhai Vcadher	Viramdai	11.8
15	Lakhamanbhai Virabhai Kanzaria	Gokalpar	11.3
16	Rajasibhai Pithabhai Pindaria	Nava Thathia	11.5
17	Kachar Khima Varu	Vadatara	11.7
18	Kishorbhai Vallabh Kapuria	Arikhana	11.5
19	Jaytibhai Popatbhai Sojitra	Arikhana	12.4
20	Harikisan Dhanjibhai Bhatt	Jakasia	12

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

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

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

ANNEXURE – IV
DETAILS OF ACHIEVEMENT TRAINING
(Including the sponsored and FLD training programmes)

A. ON Campus

Date	Title of the training programme	Subject	Thematic area	Duration in days	Number of participants									
					General			SC / ST			Total			
					Male	Female	Total	Male	Female	Total	Male	Female	Total	
	Farmers & Farm Women													
03-10-08	Weed Management in Rabi crops	Crop Pro	Weed Management	1	13	3	16	6	2	8	19	5	24	
06-10-08	Seed Production	Prod. Site	Seed Production	1	11	6	17	3	0	3	14	6	20	
10-10-08	Vermi-compost production	Prod. Site	Vermicompost	1	0	14	14	0	4	4	0	18	18	
13-10-08	IPM in Cotton	Plant Prot	IPM	1	15	2	17	8	1	9	23	3	26	
14-10-08	IPM in Grouondnut	Plant Prot	IPM	1	16	4	20	3	2	5	19	6	25	
21-10-08	IPM in Castor	Plant Prot	IPM	1	18	2	20	4	2	6	22	4	26	
23-10-08	IDM in Groundnut	Plant Prot	IDM	1	14	2	16	7	3	10	21	5	26	
04-11-08	Weed Management in Rabi crops	Crop Pro	Weed Management	1	14	5	19	8	2	10	22	7	29	
08-11-08	Nursery raising of Onion	Hort.	Nursery Raising	1	18	6	24	4	2	6	22	8	30	
13-11-08	Income generation activities for empowerment of rural women	Home Sci	Women Empowerment	1	0	14	14	0	3	3	0	17	17	
19-11-08	Women and Child care	Home Sci	Women & Child Care	1	0	16	16	0	2	2	0	18	18	
28-11-08	IDM in cumin	Plant Prot	IDM	1	21	4	25	4	3	7	25	7	32	
29-11-08	IDM in cumin	Plant Prot	IDM	1	16	6	22	5	2	7	21	8	29	
12-12-08	ICM of Rabi crops	Crop Pro	ICM	1	14	2	16	2	1	3	16	3	19	
29-12-08	Value Addition of Vegetable Crops	Home Sci	Value Addition	1	0	12	12	0	6	6	0	18	18	
10-12-08	IPM in cumin	Plant Prot	IPM	1	13	2	15	3	0	3	16	2	18	
20-12-08	IPM in Chickpea	Plant Prot	IPM	1	9	4	13	2	0	2	11	4	15	
26-12-08	IDM in Chickpea	Plant Prot	IDM	1	12	2	14	2	1	3	14	3	17	
06-12-08	Vermi-compost production	Prod. Site	Vermicompost	1	18	2	20	2	1	3	20	3	23	
01-01-09	Soil & Water Conservation	Soil Fert	Water conservation	1	10	2	12	5	3	8	15	5	20	
23-01-09	Rural Craft	Home Sci	Women Empowerment	1	0	14	14	0	4	4	0	18	18	
09-01-09	IDM in cumin	Plant Prot	IDM	1	16	3	19	10	3	13	26	6	32	
29-01-09	IPM in Wheat	Plant Prot	IPM	1	12	12	24	6	2	8	18	14	32	
15-01-09	Vermi-compost production	Prod. Site	Vermicompost	1	14	10	24	8	5	13	22	15	37	
19-01-09	Formation and Management of SHGs	Cap.Build	Capacity Building	1	11	4	15	12	5	17	23	9	32	
10-02-09	Nursery raising	Hort.	Nursery Raising	1	23	8	31	13	7	20	36	15	51	
25-02-09	Value Addition of Vegetable Crops	Home Sci	Value Addition	1	0	24	24	0	4	4	0	28	28	
06-03-09	Nursery management	Hort.	Nursery Raising	1	13	3	16	2	0	2	15	3	18	
17-03-09	Organic manures production	Prod. Site	Organic Farmiong	1	16	10	26	6	4	10	22	14	36	
09-04-09	Seed Production technology	Crop Pro	Seed Production	1	14	7	21	7	2	9	21	9	30	
17-04-09	Nursery management	Hort.	Nursery Raising	1	13	6	19	5	1	6	18	7	25	
21-04-09	Soil & Water Conservation	Soil Fert	Water conservation	1	17	8	25	8	2	10	25	10	35	
22-04-09	Value Addition of Fruit Crops	Home Sci	Value Addition	1	0	25	25	0	8	8	0	33	33	
13-04-09	Composite Fish Culture	Fisheries	Fish farming	1	18	5	23	6	1	7	24	6	30	

29-04-09	Leadership development	Cap.Build	Leadership development	1	14	8	22	2	0	2	16	8	24
02-05-09	Water Management	Crop Pro	Water Management	1	13	2	15	3	2	5	16	4	20
07-05-09	Soil Fertility Management	Soil Fert	Fertility Management	1	16	3	19	4	1	5	20	4	24
12-05-09	Soil Fertility Management	Soil Fert	Fertility Management	1	11	5	16	7	2	9	18	7	25
09-05-09	Value Addition of Fruit Crops	Home Sci	Value Addition	1	0	19	19	0	3	3	0	22	22
14-05-09	Seed Production	Prod. Site	Seed Production	1	14	5	19	7	2	9	21	7	28
16-05-09	Group dynamics	Cap.Build	Capacity Building	1	12	5	17	4	1	5	16	6	22
23-06-09	Weed Management in Kharif crops	Crop Pro	Weed Management	1	9	4	13	6	1	7	15	5	20
12-06-09	Composite Fish Culture	Fisheries	Fish farming	1	13	2	15	3	2	5	16	4	20
24-07-09	Production and management technology for spices crops	Crop Pro	Crop Production	1	16	3	19	3	1	4	19	4	23
14-07-09	IPM in Grouondnut	Plant Prot	IPM	1	18	6	24	6	5	11	24	11	35
10-07-09	IPM in Cotton	Plant Prot	IPM	1	13	9	22	4	4	8	17	13	30
13-08-09	IDM in Groundnut	Plant Prot	IDM	1	23	12	35	8	3	11	31	15	46
18-08-09	IDM in Cotton	Plant Prot	IDM	1	39	10	49	5	2	7	44	12	56
07-08-09	Integrated Fish Farming	Fisheries	Fish farming	1	45	6	51	6	4	10	51	10	61
08-09-09	IPM in Cotton	Plant Prot	IPM	1	38	6	44	7	2	9	45	8	53
17-09-09	IPM in Kharif crop	Plant Prot	IPM	1	34	2	36	8	0	8	42	2	44
				51	727	356	1083	234	123	357	961	479	1440
	Rural Youth												
15-10-09	Integrated Farming	Rural Youth	Integrated Farming	1	8	3	11	4	0	4	12	3	15
10-11-09	Rural Craft	Rural Youth	Women empowerment	1	12	12	24	3	4	7	15	16	31
24-01-09	Value Addition vegetables	Rural Youth	Value addition	1	0	8	8	0	8	8	0	16	16
27-02-09	Value Addition vegetables	Rural Youth	Value addition	1	0	15	15	0	3	3	0	18	18
03-03-09	Value Addition vegetables	Rural Youth	Value addition	1	0	14	14	0	5	5	0	19	19
15-04-09	Value Addition fruits	Rural Youth	Value addition	1	0	10	10	0	4	4	0	14	14
23-04-09	Value Addition fruits	Rural Youth	Value addition	1	0	14	14	0	3	3	0	17	17
05-05-09	Value Addition fruits	Rural Youth	Value addition	1	0	16	16	0	4	4	0	20	20
	Total Rural Youth			8	20	92	112	7	31	38	27	123	150
	Extension Personnel												
02-07-09	Productivity Enhancement in field crop	Ext.Fun	Crop Production	1	15	2	17	5	0	5	20	2	22
08-08-09	IPM & IDM in Kharif crops	Ext.Fun	IPM, IDM	1	19	1	20	8	0	8	27	1	28
	Total Extension Personnel			2	34	3	37	13	0	13	47	3	50
	Grand Total			61	781	451	1232	254	154	408	1035	605	1640

Off Campus

Date	Title of the training programme	Subject	Thematic area	Duration in days	Number of participants								
					General			SC / ST			Total		
					Male	Female	Total	Male	Female	Total	Male	Female	Total
	Farmers & Farm Women												
01-10-08	Weed Management	Crop Pro	Weed Management	1	15	3	18	4	2	6	19	5	24
04-10-08	IPM in Cumin	Plant Prot	IPM	1	14	3	17	5	1	6	19	4	23
07-10-08	IPM in Castor	Plant Prot	IPM	1	12	5	17	7	2	9	19	7	26
09-10-08	IPM in Cotton	Plant Prot	IPM	1	15	2	17	4	0	4	19	2	21
17-10-08	IPM in Vegetables	Plant Prot	IPM	1	16	2	18	3	1	4	19	3	22
18-10-08	IDM in Cumin	Plant Prot	IDM	1	18	6	24	4	0	4	22	6	28
25-10-08	Vermi-compost production	Prod. Site	Vermi Compost	1	15	4	19	6	0	6	21	4	25
28-10-08	Seed Production	Prod. Site	Seed Production	1	14	6	20	8	3	11	22	9	31
05-11-08	Weed Management	Crop Pro	Weed Management	1	14	4	18	8	3	11	22	7	29
07-11-08	Nursery Management	Hort.	Nursery Management	1	14	3	17	3	2	5	17	5	22
11-11-08	Nutrient Use Efficiency	Soil Fert	Nutrient Management	1	15	4	19	6	1	7	21	5	26
12-11-08	Women and Child care	Home Sci	Women Empowerment	1	0	16	16	0	11	11	0	27	27
06-11-08	IPM in Chickpea	Plant Prot	IPM	1	25	2	27	2	1	3	27	3	30
26-11-08	IDM in cumin	Plant Prot	IDM	1	14	3	17	3	0	3	17	3	20
20-11-08	Vermi-compost production	Prod. Site	Vermi Compost	1	14	2	16	3	2	5	17	4	21
22-12-08	ICM in Rabi Crops	Crop Pro	ICM	1	15	2	17	6	2	8	21	4	25
24-12-08	Micro Nutrient Efficiency in crops	Soil Fert	Soil Fertility	1	12	2	14	3	2	5	15	4	19
16-12-08	Women and Child care	Home Sci	Women Empowerment	1	0	12	12	0	13	13	0	25	25
01-12-08	IDM in cumin	Plant Prot	IDM	1	14	2	16	3	1	4	17	3	20
03-12-08	IPM in Chickpea	Plant Prot	IPM	1	16	5	21	3	1	4	19	6	25
19-12-08	Shrimp farming	Fisheries	Fish Farming	1	15	3	18	2	0	2	17	3	20
08-12-08	Organic manures production	Prod. Site	Organic Farming	1	18	4	22	3	1	4	21	5	26
06-01-09	Income generation activities for empowerment of rural women	Home Sci	Women Empowerment	1	0	14	14	0	8	8	0	22	22
16-01-09	IDM in Vegetables	Plant Prot	IDM	1	22	5	27	5	1	6	27	6	33
21-01-09	IPM in Vegetables	Plant Prot	IPM	1	19	6	25	12	6	18	31	12	43
27-01-09	Formation and Management of SHGs	Cap.Build	Capacity Building	1	31	8	39	6	2	8	37	10	47
17-02-09	Crop Diversification	Crop Pro	Crop Production	1	45	2	47	8	3	11	53	5	58
04-02-09	Soil & Water conservation	Soil Fert	Water Management	1	28	10	38	7	4	11	35	14	49
20-02-09	Value addition of vegetables	Home Sci	Value Addition	1	0	26	26	0	7	7	0	33	33
12-02-09	Organic manures production	Prod. Site	Organic Farming	1	29	5	34	4	1	5	33	6	39

02-03-09	Nursery Raising	Hort.	Nursery Management	1	32	6	38	4	2	6	36	8	44
13-03-09	Value addition of vegetables	Home Sci	Value Addition	1	0	18	18	0	6	6	0	24	24
09-03-09	Seed Production	Prod. Site	Seed Production	1	23	1	24	10	2	12	33	3	36
16-04-09	Seed production techniques	Crop Pro	Seed Production	1	26	10	36	3	2	5	29	12	41
24-04-09	Nursery Raising	Hort.	Nursery Management	1	16	3	19	8	2	10	24	5	29
08-04-09	Soil & Water conservation	Soil Fert	Water Management	1	15	4	19	9	1	10	24	5	29
28-04-09	IPM in Summer Groundnut	Plant Prot	IPM	1	19	5	24	3	4	7	22	9	31
04-04-09	Integrated fish farming	Fisheries	Fish Farming	1	25	6	31	6	6	12	31	12	43
11-04-09	Leadership development	Cap.Build	Capacity Building	1	28	3	31	8	4	12	36	7	43
04-05-09	Group dynamics	Cap.Build	Capacity Building	1	34	8	42	5	3	8	39	11	50
17-06-09	Water Management in kharif crops	Crop Pro	Water Management	1	18	1	19	9	2	11	27	3	30
20-06-09	Integrated fish farming	Fisheries	Fish Farming	1	16	3	19	5	0	5	21	3	24
22-07-09	IDM in Groundnut	Plant Prot	IDM	1	48	0	48	16	0	16	64	0	64
03-08-09	Biocontrol of Pests & Diseases	Plant Prot	IPM	1	15	2	17	12	5	17	27	7	34
11-08-09	IDM in Cotton	Plant Prot	IDM	1	21	2	23	7	6	13	28	8	36
17-08-09	Composite fish culture	Fisheries	Fish Farming	1	18	2	20	8	2	10	26	4	30
11-09-09	Biocontrol of Pests & Diseases	Plant Prot	IPM	1	34	3	37	12	3	15	46	6	52
23-09-09	IPM in Cotton	Plant Prot	IPM	1	26	2	28	9	0	9	35	2	37
	Total Farmers & Farm Women			48	893	250	1143	262	131	393	1155	381	1536
	Rural Youth												
10-10-08	Value Addition	Rural Youth	Value Addition	1	0	18	18	0	10	10	0	28	28
15-11-08	Value Addition	Rural Youth	Value Addition	1	0	14	14	0	6	6	0	20	20
17-01-09	Ornamental Fisheries	Rural Youth	Fish farming	1	0	0	0	12	4	16	12	4	16
06-02-09	Fresh water Prawn culture	Rural Youth	Fish farming	1	0	0	0	21	3	24	21	3	24
05-03-09	Fresh water Prawn culture	Rural Youth	Fish farming	1	0	0	0	12	2	14	12	2	14
18-04-09	Fresh water Prawn culture	Rural Youth	Fish farming	1	0	0	0	15	3	18	15	3	18
30-04-09	Fresh water Prawn culture	Rural Youth	Fish farming	1	0	0	0	11	3	14	11	3	14
19-05-09	Fresh water Prawn culture	Rural Youth	Fish farming	1	0	0	0	13	3	16	13	3	16
	Total Rural Youth			8	0	32	32	84	34	118	84	66	150
	Extension Personnel												
16-07-09	IPM & IDM in Kharif Crops	Ext.Fun	IPM, IDM	1	23	0	23	8		8	31	0	31
10-08-09	Productivity Enhancement in Field Crops	Ext.Fun	Crop Production	1	21	0	21	9		9	30	0	30
	Total Extension Personnel			2	44	0	44	17	0	17	61	0	61

	Grand Total			58	937	282	121 9	363	165	528	130 0	447	174 7
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ANNEXURE -V

“ **Khedut Talim Shibir** ” in Cereals , oilseeds, Pulse crop, Horticultural crops, and other shibirs carried out in different talukas of Jamnagar district organized in collaboration with different line Department of the district..

Sl. No	Date	Title			Dura-tion	Total No. of participants									Sponsorin g Agency
						Other			SC/ ST			Total			
						Male	Female	Total	Male	Female	Total	Male	Female	Total	
		Farmers													
1	14-10-08	Isopom (Oilseeds)	Methan	Jamjodhpur	1	15	5	20	8	2	10	23	7	30	DAO
2	14-10-08	Isopom (Oilseeds)	Khirasara, Dangarwada , Nagadia	Kalyanpur	1	19	4	23	5	2	7	24	6	30	DAO
3	15-10-08	Isopom (Oilseeds)	Jamnagar	Jamnagar	1	13	4	17	9	3	12	22	7	29	DAO
4	15-10-08	Isopom (Oilseeds)	Nanduri	Lalpur	1	12	7	19	7	4	11	19	11	30	DAO
5	16-10-08	Isopom (Oilseeds)	Bhanvad	Bhanvad	1	14	8	22	6	3	9	20	11	31	DAO
6	16-10-08	Isopom (Oilseeds)	Jamkhambh adia	Jamkhambhadi a	1	12	6	18	9	4	13	21	10	31	DAO
7	18-10-08	Isopom (Oilseeds)	Dhrol	Dhrol	1	13	7	20	6	3	9	19	10	29	DAO
8	18-10-08	Isopom (Oilseeds)	Jodia	Jodia	1	13	8	21	9	3	12	22	11	33	DAO
9	20-10-08	Isopom (Oilseeds)	Dwarka	Dwarka	1	18	1	19	12	2	14	30	3	33	DAO
10	20-10-08	Isopom (Oilseeds)	Kalawad	Kalawad	1	21	0	21	9	4	13	30	4	34	DAO
11	21-10-08	Isopom (Oilseeds)	Jamjodhpur	Jamjodhpur	1	22	0	22	8	5	13	30	5	35	DAO
12	21-10-08	Isopom (Oilseeds)	Lalpur	Lalpur	1	17	0	17	10	6	16	27	6	33	DAO
13	22-10-08	Isopom (Oilseeds)	Jamkhambh adia	Jamkhambhadi a	1	16	0	16	17	7	24	33	7	40	DAO
14	22-10-08	Isopom (Oilseeds)	Jamnagar	Jamnagar	1	18	0	18	15	5	20	33	5	38	DAO
15	23-10-08	Isopom (Oilseeds)	Kanlyanpur	Kalyanpur	1	13	0	13	8	4	12	21	4	25	DAO
16	23-10-08	Isopom (Oilseeds)	Dwarka	Dwarka	1	16	0	16	6	5	11	22	5	27	DAO
17	24-10-08	Isopom (Oilseeds)	Bhanvad	Bhanvad	1	17	5	22	11	6	17	28	11	39	DAO
18	24-10-08	Isopom (Oilseeds)	Dhrol	Dhrol	1	14	2	16	7	7	14	21	9	30	DAO
19	27-10-08	Isopom (Oilseeds)	Jodia	Jodia	1	11	1	12	13	3	16	24	4	28	DAO
20	27-10-08	Isopom (Oilseeds)	Kalawad	Kalawad	1	17	0	17	8	8	16	25	8	33	DAO
21	24-11-08	National Soil	Viramdad	Jamkhambhadi a	1	48	8	56	22	2	24	70	10	80	DRDA

		Conservation Saptah													
22	29-11-08	National Soil Conservation Saptah	Jamnagar	Jamnagar		35	15	50	12	8	20	47	23	70	DRDA
23	11-11-08	Crop Production	Nathuvadla	Jamnagar	1	45	8	53	8	3	11	53	11	64	IFFCO
24	22 to 24-12-08	Crop Production		Jamnagar	2	35	0	35	5	0	5	40	0	40	IFFCO
25	16-12-08	Horticultural crops	Rajkot	Rajkot	1	25	5	30	10	5	15	35	10	45	NHRDF
26	28-12-08	Kharif crop improvement	Jamkhambhadia	Jamkhambhadia	1	950	150	1100	350	50	400	1300	200	1500	Pesticide Asso.
27	22-07-09	Crop Production	Jamnagar	Jamnagar	1	26	12	38	6	4	10	32	16	48	Mahindra
28	29-07-09	Land Preparation	Jamnagar	Jamnagar	1	25	5	30	10	5	15	35	10	45	Mahindra
29	30-07-09	INM	Jamnagar	Jamnagar	1	36	7	43	4	3	7	40	10	50	Mahindra
30	05-04-09	IPM & ICM of Kharif crops	Jamnagar	Jamnagar	1	14	4	18	6	4	10	20	8	28	Arya Seed
31	31-01-09	IPM & ICM	Chandragadh	Jamnagar	1	45	10	55	15	5	20	60	15	75	BOB
32	21-05-09	Crop Planning in Kharif	Pest. Dealers	Jamnagar	1	800	300	1100	250	150	400	1050	450	1500	DRDA
33	23-01-09	Organic Farming	Jamnagar	Jamnagar	1	45	15	60	10	5	15	55	20	75	Kisan Sangh
34	03-02-09	Winter crop production	Jamnagar	Jamnagar	1	15	5	20	12	3	15	27	8	35	Mahindra
35	05-05-09	Precaution in plant protection for kharif crops	Jamnagar	Jamnagar	1	34	6	40	46	10	56	80	16	96	FSFC
36	07-08-09	Cotton Minimission	Manpar	Jodia	1	12	4	16	9	2	11	21	6	27	DAO
37	07-08-09	Isopom (Oilseeds)	Bizalka	Dhrol	1	14	5	19	10	1	11	24	6	30	DAO
38	08-08-09	Cotton Minimission	Satapar	Jamjodhpur	1	15	4	19	6	2	8	21	6	27	DAO
39	08-08-09	Isopom (Oilseeds)	Bhavneswar	Bhanvad	1	16	6	22	11	2	13	27	8	35	DAO
40	11-08-09	Cotton Minimission	Nanathavaria	Jamnagar	1	13	7	20	8	1	9	21	8	29	DAO
41	12-08-09	Isopom (Oilseeds)	Thebda	Lalpur	1	21	4	25	14	0	14	35	4	39	DAO

42	12-08-09	Cotton Minimissio n	Balva	Jamjodhpur	1	22	2	24	9	0	9	31	2	33	DAO
43	18-08-09	Isopom (Oilseeds)	Pirlakhasar	Jamkhambhadi a	1	18	1	19	14	0	14	32	1	33	DAO
44	18-08-09	Cotton Minimissio n	Dabasang	Lalpur	1	12	4	16	11	1	12	23	5	28	DAO
45	19-08-09	Isopom (Oilseeds)	Khirasara	Kalyanpur	1	16	0	16	10	2	12	26	2	28	DAO
46	19-08-09	Cotton Minimissio n	Bhogat	Kalyanpur	1	12	0	12	19	0	19	31	0	31	DAO
47	21-08-09	Isopom (Oilseeds)	Motabhavd a	Dwarka	1	18	6	24	11	0	11	29	6	35	DAO
48	21-08-09	Cotton Minimissio n	Kotadiya	Jamkhambhadi a	1	12	5	17	16	2	18	28	7	35	DAO
49	22-08-09	Isopom (Oilseeds)	Rajpar	Dhrol	1	16	6	22	14	3	17	30	9	39	DAO
50	22-08-09	Cotton Minimissio n	Lakhtar	Jodia	1	15	4	19	12	3	15	27	7	34	DAO
51	25-08-09	Isopom (Oilseeds)	Nana Panchdevda	Kalawad	1	19	3	22	10	4	14	29	7	36	DAO
52	26-08-09	Cotton Minimissio n	Arla	Kalawad	1	10	2	12	16	3	19	26	5	31	DAO
53	27-08-09	Isopom (Oilseeds)	Tupani	Dwarka	1	21	4	25	14	2	16	35	6	41	DAO
54	28-08-09	Cotton Minimissio n	Ravani Khijadia	Jamnagar	1	14	0	14	16	0	16	30	0	30	DAO
55	29-08-09	Isopom (Oilseeds)	Sanakhla	Bhanvad	1	16	0	16	14	0	14	30	0	30	DAO
		Rural Youth						0			0	0	0	0	
56	05-01-09	Preservatio n of Fruit & Vegetable	SDAU	Dantiwada	1	0	10	10	0	5	5	0	15	15	Home Sci. SDAU
		Extension Personnels						0			0	0	0	0	
57	15 to 16-01-09	Ravi pre seasonal training	Ext. Personnel	Jamnagar	1	16	0	16	7	0	7	23	0	23	DAO
58	02-09-2009	Training for cotton minimissio n	Ext. Personnel	Jamnagar	2	23	0	23	12	0	12	35	0	35	DAO
59	11-08-09	Training on plant protection of saurashtra crops	Pest. Dealers	Jamnagar	1	35	0	35	12	0	12	47	0	47	DuPont

ANNEXURE – VI
IMPACT OF KVK IN OPERATIONAL AREA

KVKs Villages (10)											
Sr. No	crop	Rainfed					Irrigated				
		Makvana	Chandraga	Konza	Dhandha	Mokhana	Dodhiya	Amara	Bed	Balam-bhadi	Jivapara
		2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
1	Groundnut	96	98	99	94	54	75	94	125	125	156
2	Cotton	154	150	125	156	105	156	187	219	125	156
3	Castor	240	200	210	250	0	106	0	126	125	0
4	Sesamum	312	223	200	312	0	0	31	0	125	0
5	Wheat	176	170	170	187	0	219	156	0	125	125
6	Mustard	0	0	0	44	0	0	40	0	125	0
7	Gram	92	90	88	94	0	0	0	0	125	0
8	Groundnut (summar)	60	62	63	125	0	0	0	0	125	0
9	Greengram (summar)	304	310	305	312	0	0	0	0	125	0
10	chillies	0	0	0	0	0	0	0	0	125	0
Sr. No	crop	Makvana	Chandraga	Konza	Dhandha	Mokhana	Dodhiya	Amara	Bed	Balam-bhadi	Jivapara
		2008	2008	2008	2008	2008	2008	2008	2008	2008	2008
1	Groundnut	129	132	140	125	50	62	44	94	75	94
2	Cotton	224	245	240	219	125	212	256	256	190	1175
3	Castor	325	340	350	312	156*	156	156	156	125	125 *
4	Sesamum	375	325	310	375	0	0	86	44 *	0	0
5	Wheat	324	326	325	312	156 *	319	187	250 *	250 *	156
6	Mustard	0	0	0	110	0	0	130	0	0	0
7	Gram	139	140	142	137	62*	0	0	0	0	0
8	Groundnut (summar)	84	92	94	187	75*	75 *	94	125 *	62 *	125 *
9	Greengram (summar)	354	360	390	344	0	0	0	312 *	0	0
10	chillies	0	0	0	0	0	1875*	1500	1060 *	0	0
11	Ajma	0	0	0	0	0	0	0	44 *	0	0
Productivity Difference											
Sr. No	crop	Makvana	Chandraga	Konza	Dhandha	Mokhana	Dodhiya	Amara	Bed	Balam-bhadi	Jivapara
1	Groundnut	33	34	41	31	-4	-13	-50	-31	-50	-60
2	Cotton	70	95	115	63	20	56	69	37	33	19
3	Castor	85	140	140	62	0	50	0	30	20	0
4	Sesamum	63	102	110	63	0	0	55	0	0	0
5	Wheat	148	156	155	125	0	100	131	250 *	0	101
6	Mustard	0	0	0	60	0	0	90	0	0	0
7	Gram	47	50	54	43	0	0	0	0	0	0
8	Groundnut (summar)	24	30	31	62	0	0	0	0	0	0

9	Greengram (summar)	50	50	85	32	0	0	0	0	0	0
10	chillies	0	0	0	0	0	0	0	0	0	0
11	Ajma	0	0	0	0	0	0	0	0	0	0

ANNEXURE - VII

ATTEND TRAINING CUM WORKSHOP BY THE KVK STAFF

Sr. No.	Period	Name of Officer	Place	Subject
1	18 th Nov to 8 th Dec, 2008	Dr. V. J. Zizala	CSSRI, Karnal, Haryana	Recent advances in Diagnostic technologies and Mgt. of poor quality water /soil
2	19 th to 21 Nov, 2008	Dr. N. B. Jadav	NAU, Navsari, Guj	New Paradigms in Agronomic Research
3	15 th Dec, 2008 to 5 th Jan 2009	Dr. V. J. Zizala	Soil Science and Agril Chemistry, IARI, New Delhi	Integrated Plant Nutrient supply and Management system for enhancing soil quality, input, use efficiency and crop productivity
4	5 th 25 th Jan, 2009	Dr. N. B. Jadav	CAS, Department of Ext. Edn. IARI, New Delhi	Entrepreneurship development in Agriculture.
5	30 rd Dec.to 19 th Jan, 2009	Dr. J. N. Thaker	CMFRI, Cochin	Recent Advance in breeding and larviculture of marine finfish and shellfish
6	15 Nov to 26 Dec., 2008	Dr. V. J. Zizala	ZCU-VI, ICAR, CAZRI, Jodhpur	" LAN/WAN Technologies
7	3 rd to 12 th Dec, 2008	Dr. N. B. Jadav	ZCU-VI, ICAR, CAZRI, Jodhpur	" LAN/WAN Technologies
8.	16 th to 18 th , March, 2009	Dr. K. P. Baraiya Dr. N. B. Jadav Dr. J.N. Thaker Dr. V. J. Zizala Smt. A.K. Baraiya Mr. P.S. Gorfad	Director of Extension Education, JAU, Junagadh	Training in identified area for technical personnel of KVKs

ANNEXURE – VIII
PRA SURVEY CONDUCTING DURING 2008 OF THE JAMNAGAR BLOCK

Sr. No	Particulars	Irrigated					Rainfed				
		Makawana	Chndr aga	Dhand ha	Konza	Mokha na	Bed	Baln bh adi	Dodhiy a	Jivapa r	Aanma bra
		65.04	64	80.86	70	544	497	32	92.8	27.2	32
2	Net cultivated area	63.04	64	80	50	240	16	24	40	7.2	32
3	Irrigated area	144	2733	80	60	80	720	24	400	0	640
4	Rainfed	128	160	240	100	192	112	16	80	0	328
5	Problematic Soil Pasture land	63.04	0		0	304	496	28	43.2	23.2	0
6	Forest Land	2	0	0.96	0	32	1.6	4	0	16	0
7	Others			0	0	0	0	0	0	0	0
8	Total Framers	60	200	200	60	125	12000	60	137	1812	1000
	Small	35	50	40	30	100	4000	30	37	1700	780
	Marginal	15	0	0	15	5	7850	25	50	100	200
	Big	10	150	160	15	20	150	5	25	12	20
9	Animal Population	102	425	187	43	2190	3800	5120	615	247	505
	Cow	32	15	50	10	90	300	60	70	125	200
	Baffelo	10	60	40	15	500	700	30	100	120	125
	Goat	0	200	7	0	500	1200	0	100	0	60
	Sheep	0	50	0	0	1000	1000	0	300	0	40
	Bullock	60	100	90	18	100	100	30	45	22	80
	Poultry	0	0	0	0	0	500	5000	0	0	0
Season wise area under various crops in ha :											
1	Kharif Season										
	Groundunt	120	144	160	150	64	100	11.2	240	55	30
	Bajra	98	22	77	70	30	44	12	66	10	5
	Jowar	16	8	3.2	10	24	30	20	40	9	8
	Sesamum	24	8	3.2	22	20	12	1.6	0.8	8	4
	Cotton	140	208	128	120	128	66	15	192	15	15
	Castor	4.8	16	4.8	16	48	22	8	11.2	10	10
	Pulses	10	4	5	4	12	15	7	11	8	9
	Others	9	7	8	0	5	9	5	8	5	7
2	Rabi Season										
	Wheat	64	80	112	100	80	50	22	240	20	19
	Gram	24	32	40	22	16	15	1.12	1.6	4	9
	Garlic	3.2	3.2	16	14	0	11	1.6	0	8	11
	Cumin	1.6	3.2	3.2	0	0	7	1.6	0	1.6	14
3	Summer Season										
	Groundunt	48	16	64	15	25	22	2.4	96	10	12
	Pulses	22	12	25	10	15	6	4	10	5	4
	Bajra	15	11	20	11	21	10	8	5	6	8
4	Others										
	Vegetables	10	9	22	5	8	0	0	32.8	21	19
	Horticultural	8	4	0.96	0	10	9.6	0	2.4	10	14
	Gresis	4	11	1.6	0	128	16	1.6	48	9	8
Average productivity of major crops (K/ ha) :											
1	Kharif season :										
	Groundunt	1500	2465	2478	1200	2444	1500	1475	1385	1700	1950
	Bajra	1250	2150	2944	1375	1222	1000	1100	1225	2750	2043
	Sesamum	325	247	244	375	300	279	325	375	325	300
	Cotton	1275	1375	1678	1500	1245	1275	1444	1450	1367	1220
2	Rabi Season :										
	Wheat	3870	3444	3740	3700	3000	3740	2779	3756	2889	2100
	Gram	1159	1340	1375	1250	1474	1444	1120	1320	1340	1255
	Garlic	1685	2783	2978	1685	2744	2544	2145	2400	1200	1135
	Cumin	1400	1357	1204	0	1057	1111	700	375	375	500

PRA SURVEY CONDUCTING DURING 2008 OF JAMKHAMBHADIA BLOCK

		Irrigated					Rainfed				
		Dharm pur	Vadatra	Jakasiya	Beraja	Virmada	Haripur	Madhu pur	Sidhpur	Navata thiya	Gokala par
1	Total area	232	1120	320	5136	340	1632	479	232	480	324
2	Net cultivated area	160	1040	295	480	320	96	464	195	320	100
3	Irrigated area	80	560	185	320	304	80	160	112	80	160
4	Rainfed	48	480	102	160	16	16	304	48	240	160
5	Problematic Soil Pasture land	72	70.4	13	336	9	67.2	71	40	0	4.8
6	Forest Land	0	9.6	12	0	11	0	80	0	0	0
7	Others	0	0	0	0	0	0	0	0	0	0
8	Total Framers	7000	2000	265	600	125	250	125	360	80	125
	Small	3000	30	100	300	20	100	20	250	7	30
	Marginal	2000	20	50	200	10	100	10	100	0	5
	Big	2000	1950	115	100	95	50	95	10	73	90
9	Animal Population	2750	3450	140	1250	300	1145	160	670	251	305
	Cow	500	150	80	150	10	90	10	200	8	150
	Baffelo	200	1300	60	150	150	30	150	30	150	35
	Goat	1400	0	0	200	0	300	0	50	0	0
	Sheep	600	0	0	500	0	700	0	200	0	0
	Bullock	50	2000	0	250	140	25	0	200	90	120
	Poultry	0	0	0	0	0	0	0	0	0	0
Season wise area under various crops in ha :											
1	Kharif Season										
	Groundunt	48	200	100	320	225	400	80	128	128	123
	Bajra	8	25	75	179	74	79	66	71	91	82
	Jowar	16	20	60	88	59	3	63	10	20	22
	Sesamum	8	10	15	25	33	8	32	160	30	33
	Cotton	40	249	150	160	208	40	208	64	160	125
	Castor	24	35	70	77	32	60	77	4.8	6.4	46
	Pulses	9	6	31	22	28	10	21	66	24	20
	Others	20	30	70	23	23	22	19	20	18	10
2	Rabi Season										
	Wheat	32	80	257	80	100	100	150	32	167	122
	Gram	96	50	90	64	80	10	80	16	20	25
	Garlic	4	9	7	4	4	10	11	8	18	15
	Cumin	16	20	15	4	9	22	18	12	10	13
3	Summer Season										
	Groundunt	10	8	7	16	20	11	9	24	30	22
	Pulses	13	20	32	15	20	18	22	15	10	20
	Bajra	18	55	44	33	40	21	18	20	12	12
4	Others										
	Vegetables	26	50	62	9.28	30	70	33	3.04	40	35
	Horticultural	48	20	32	685	22	23	19	19	21	18
	Gresis	4	10	5	52	10	8	7	9	100	9
Average productivity of major crops (K/ ha) :											
1	Kharif season :										
	Groundunt	1875	2200	2279	2015	2378	1700	1489	1687	1236	1900
	Bajra	4375	2150	2267	2068	2111	1250	1650	1754	1768	1366
	Sesamum	375	790	725	798	568	375	325	366	377	325
	Cotton	1250	2150	2378	1250	2444	1789	1750	1250	1457	1470
2	Rabi Season :										
	Wheat	4375	3975	4777	3556	3477	3210	2115	3125	3175	3907
	Gram	1875	1850	1780	1327	1268	1750	1786	1250	1150	1387
	Garlic	1250	2785	2000	2163	2470	2975	1670	1562	2780	1285
	Cumin	1875	1150	1125	1025	1500	700	348	375	745	375

PRA SURVEY CONDUCTING DURING 2008 OF KALAVAD BLOCK

Sr. No	Particulars	Village No									
		Irrigated					Rainfed				
		Dhudhna	Jasapar	Golaniya	Hodising	Kalavad	Nanivadi	Sanada	Prabhujipipadi	Nanabadnadar	Haripar
1	Total area	1165	270	371	1481	200	1034	824	633	295	159
2	Net cultivated area	564	203.2	178	1006	106	807	604	386	225	120
3	Irrigated area	350	124	70	468	90	413	250	171	0	56
4	Rainfed	214	78.56	105	538	60	394	354	215	225	64
5	Problematic Soil Pasture land	483	67	192	338	50	114	141	202	70	39
6	Forest Land	1.6	0	0	-	0	-	-	-	0	0
7	Others	176	0	30	136	0	113	79	45	0	21
8	Total Framers	82	677	115	400	100	334	331	194	90	751
	Small	50	279	42	130	50	119	67	78	31	120
	Marginal	7	42	8	40	25	40	44	29	9	20
	Big	25	356	65	230	25	175	220	87	40	538
9	Animal Population	102	163	85	128	51	109	84	65	65	102
	Cow	48	21	22	58	20	48	36	25	45	34
	Baffelo	32	28	45	40	15	39	28	22	20	28
	Goat	0	0	0	0	0	0	0	0	0	0
	Sheep	0	0	0	0	0	0	0	0	0	0
	Bullock	22	14	18	30	16	22	20	18	0	40
	Poultry	0	0	0	0	0	0	0	0	0	0
Season wise area under various crops in ha :											
1	Kharif Season										
	Groundnut	280	104	170	554	120	435	335	210	125	510
	Bajra	-	0	0	-	0	-	-	-	0	0
	Jowar	-	0	0	-	0	-	-	-	0	0
	Sesamum	10	0.8	0	15	12	5	15	5	0	0
	Cotton	220	312	60	373	100	294	204	125	63	273
	Castor	10	16	10	15	20	10	15	5	0	10
	Pulses	10	0	0	15	0	15	14	14	0	0
	Others	0	0	0	0	0	0	0	0	0	0
2	Rabi Season										
	Wheat	20	8	10	75	10	70	50	30	25	80
	Gram	50	24	20	145	20	110	100	45	30	120
	Garlic	20	10.4	10	25	15	10	10	5	5	20
	Cumin	0	0	0	20	0	20	5	10	5	0
3	Summer Season										
	Groundnut	30	12	10	21	20	23	17	25	5	13
	Pulses	10	0	0	-	0	-	-	-	-	0
	Bajra	0	0	0		0				0	0
4	Others										
	Vegetables	2	0	5	4	6	3	2	3	0	5
	Horticultural	0	0	0	0	0	0	0	0	0	0
	Gresis	0	0	0	0	0	0	0	0	0	0
Average productivity of major crops (K/ ha) :											
1	Kharif season :										
	Groundnut	1200	2400	1250	1200	2100	1200	1200	1200	24000	1250
	Bajra	-	0	0	-	0	-	-	-	0	0
	Sesamum	1000	2000	0	1000	1500	1000	1000	1000	0	
	Cotton	3150	6250	2900	3150	2750	3125	3125	3125	6000	0
2	Rabi Season :										
	Wheat	3125	6250	3500	3125	3750	3125	3125	3125	6200	3500
	Gram	1500	18170	1800	1500	1800	1500	1500	1500	3006	1500

Garlic	3800	3000	3200	3800	3500	3800	3900	3850	2016	2500
Cumin	0	0	0	1125	0	1125	1115	1125	1200	0

PRA SURVEY CONDUCTING DURING 2008 OF LALPUR BLOCK

Sr. No	Particulars	Village No									
		Irrigated					Rainfed				
		Navi Veraval	VeravalR amapar	Arikhanna	Murila	Godavari	Kanviradi	Apiya	Rasanpar	Nanirafudar	Navipipar
1	Total area	597	1886	915	450	658	816	1356	1363	1360	3952
2	Net cultivated area	399	1550	659	300	658	364	639	1037	838	1439
3	Irrigated area	213	500	306	175	380	164	180	300	240	681
4	Rainfed	186	1000	350	125	278	200	459	737	598	758
5	Problematic Soil Pasture land	63	205	115	50	-	307	237	184	211	1163
6	Forest Land	104	-	10	-	-	-	408	-	150	306
7	Others	31	161	131	50	-	45	62	142	102	44
8	Total Framers	188	617	314	217	150	110	260	215	238	266
	Small	83	265	72	85	100	30	110	65	88	253
	Marginal	17	45	36	45	25	20	30	40	35	64
	Big	88	417	206	87	25	60	120	110	115	249
9	Animal Population	60	151	89	100	121	69	98	95	98	84
	Cow	22	45	25	30	40	22	30	40	35	35
	Baffelo	10	50	15	20	30	25	35	25	30	29
	Goat	5	0	2	5	10	0	5	0	15	0
	Sheep	5	0	3	5	15	0	8	0	4	0
	Bullock	18	56	44	40	26	24	20	30	25	20
	Poultry	0	0	0	0	0	0	0	0	0	0
Season wise area under various crops in ha :											
1	Kharif Season									0	
	Groundunt	100	500	200	152	240	155	280	380	330	935
	Bajra	25	60	10	-	10	15	20	40	30	20
	Jowar	-	-	-	-	-	-	-	-	-	-
	Sesamum	20	90	20	10	10	20	20	40	30	55
	Cotton	150	550	360	164	270	125	200	350	275	260
	Castor	40	100	60	12	80	20	30	40	35	75
	Pulses	10	30	5	7	15	10	5	20	13	10
	Others	0	0	0	0	0	0	0	0	0	0
2	Rabi Season									0	
	Wheat	40	80	80	80	70	30	40	50	45	45
	Gram	25	50	60	20	40	15	20	25	23	25
	Garlic	25	40	60	10	40	20	15	40	28	20
	Cumin	10	10	2	4	30	5	5	5	5	35
3	Summer Season									0	
	Groundunt	5	20	40	24	10	10	8	20	14	25
	Pulses	3	0.5	3	4	5	3	2	2	2	5
	Bajra	5	3	2	4	5	8	5	5	5	5
4	Others										
	Vegetables	0	2	3	3	4	2	3	3	3	3
	Horticultural									0	
	Gresis										
Average productivity of major crops (K./ ha) :											
1	Kharif season :										
	Groundunt	1100	1150	1150	1200	1100	1100	1050	1050	1050	1250
	Bajra	1800	1750	2000	1800	1950	1700	1650	1700	1675	1700
	Sesamum	350	350	400	450	400	350	350	300	325	550
	Cotton	3200	3100	3250	3300	3000	2600	2650	2600	2625	2500
2	Rabi Season :										
	Wheat	3400	3400	3500	3450	3400	3400	3200	3400	3300	3000
	Gram	850	850	850	850	1050	1000	800	950	875	850

	Garlic	3800	3700	3800	3500	3950	3800	3600	3800	3700	2850
	Cumin	800	700	825	800	850	700	850	700	775	750

ANNEXURES - X

District Profile - I

Include the details of

1. General census
2. Agricultural and allied census
3. Agro-climatic zones
4. Agro-ecosystems
5. Major and micro-farming systems
6. Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc.
7. Major agriculture and allied enterprises

Agro-ecosystem Analysis of the focus/target area - II

Include

1. Names of villages, focus area, target area etc.
2. Survey methods used (survey by questionnaire, PRA, RRA, etc.)
3. Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc.
4. Analysis and conclusions
5. List of location specific problems and brief description of frequency and extent/ intensity/severity of each problem
6. Matrix ranking of problems
7. List of location specific thrust areas
8. List of location specific technology needs for OFT and FLD
9. Matrix ranking of technologies
10. List of location specific training needs

Technology Inventory and Activity Chart - III

Include

1. Names of research institutes, research stations, regional centres of NARS (SAU and ICAR) and other public and private bodies having relevance to location specific technology needs
2. Inventory of latest technology available *

Sl. No	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference/citation
1.	Cv. BSMR-8 *	Pigeonpea	2006	MAU, Parbhani	Notification no. 656 dated 25.06.2006 of Central/State Varietal Release Committee/ Proceedings no. 66 of MAU, Parbhani dated 04.02.2006
2.	Modified Paddy Drum Seeder*	Improved Farm Implements	2007	Directorate of Rice Research	Proceedings/Notification no. 77 of DRR, Hyderabad dated 04.02.2007
3.	Stem application of Imidachloropid @ 0.04%*	Cotton	2008	ANGRAU, Hyderabad	Proceedings/Notification no. 88 of ANGRAU, Hyderabad dated 04.02.2008

PS * an example for guidance only

1. Activity Chart

Crop/Animal/Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Cotton	Low productivity of cotton under rainfed medium black soils of Northern Amaravati	1) Imbalance fertilizer application 2) Pest and disease occurrence 3) Flower and fruit drop due to micro-nutrient deficiency	1. Application of recommended dose of Nutrients 2. Integrated Pest control 3. Micro-nutrient i.e boron application to control flower and fruit drop	1. Single component FLD to demonstrate effect of recommended dose of nutrients 2. Training and FLD programme on integrated pest management of cotton pest 3. OFT on management boron deficiency to control flower and fruit drop	1. Sl. No. 6 of Technology Inventory 2. Sl. No. 45 of technology Inventory 3. Sl. No. 99 of Technology inventory
Soybean					
Mulberry					
Jersey Cow					

4. Details of each of the technology under Assessment, Refinement and demonstration

Include

1. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD and OFT
2. Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc., for technologies selected under FLD and OFTs

Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for FLD and OFT

SUMMARY TABLES OF ANNUAL PROGRESS REPORT – 2008-09 (OCTOBER 2008 TO SEPTEMBER-2009)

STAFF POSITION

KVK	PC			SMS			PA			ADMN			AX			SUPP			TOTAL		
	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V
KVK, JAU, Jamnagar	1	0	1	6	5	1	3	3	0	2	1	1	2	2	0	2	2	0	16	13	3

S- Sanctioned

F- Filled

V- Vacant

REVOLVING FUND

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2008 to March 2009	9.98615	8.54069	8.80367	9.72317

SCIENTIFIC ADVISORY COMMITTEE

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

1 Details of Technologies assessed and refinement**List of Technology Assessed**

S. No	Enter prise	Crop/ Animal/ Species	Name of the technology assessed	Thematic area	Area (ha.)	Number of trials	Remarks if any
1	Oilseeds crops	Groundnut	IDM, Variety	IDM in groundnut	5	10	Groundnut (GG-5)
2	Fibre crops	Cotton	Variety, IPM	ICM in cotton	20	40	Cotton (Bt. Cotton)
3	Vegetable	Chilli	IPM	IPM in chilli	5	10	Chilli (Reshampatto)
4	Vegetable	Brinjal	IPM	IPM in brinjal	5	10	Brinjal (GBL-1)
5	Vegetable	Tomato	INM	INM in tomato	5	10	Tomato (GT-2)
6	Vegetable	Tomato	INM	INM in tomato	10	20	Cabbage/ Cauliflower
7	Cereals	Wheat	Variety	Varietal Evaluation of wheat	20	40	Wheat (GW-366)
8	Hort. Crops	Cumin	IDM	IDM in cumin	10	20	Cumin (Guj.Cum.-4)
Total (Wherever applicable)					80	160	

List of Technology Refined

S. No	Category	Crop/enterprise	Name of the technology refined	Thematic area	Area (ha.)	Number of trials	Remarks if any
1	Cereals	Bajara	Time of thinning in bajara	Weed management	3	3	(2006-07)
2	Oilseeds	Groundnut	Castor cake @ 500 kg/ha, Drenching of <i>Trichoderma harzeanum</i> @2.5 kg/ha at 30 & 45 DAG	Integrated Disease management	3	3	2007-08
3	Cash crop	Cotton	Use of balance fertilizers, Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 60)	INM in cotton	3	3	2007-08
4.	Cash crop	cotton	sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides	Mealybug in Cotton	3	3	2008-09
Total (wherever applicable)					12	12	

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

Thematic areas	Cereals	Oilseeds	Pulses	Com- m- ercial Crops	Veget- -ables	Fruit s	Flowe r	Plant - ation crops	Tube r Crops	TOTA L
Varietal Evaluation	1		1							2
Seed / Plant production										
Weed/Thining Management	1									1
Integrated Crop Management		1		1						2
Integrated Nutrient Management					2					2
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management			1		2					3
Integrated Disease Management		2	1	1						4
Resource conservation technology										

Small Scale income generating enterprises										
TOTAL	2	3	3	2	4					14

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

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

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

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

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

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

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

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

Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

PERFORMANCE OF IMPORTANT TECHNOLOGIES

A. & B. Technology Assessment/Refinement

OFT – 1 :- Cotton

1) Title :- MANAGEMENT OF MEALY BUG INFESTATION IN COTTON

2) **Problem diagnose/ definition:-** Heavy infestation of mealybug is found, now a days Mealy bug becomes haddock in cotton.

- ❖ More number of host range
- ❖ Dispersion is very fast
- ❖ Mealy like powder covered on the body
- ❖ Leaving in gregarious phase
- ❖ Ability to laid eggs in pouch
- ❖ Eggs are hibernating in unfavorable condition
- ❖ Symbiotic relation with ants
- ❖ Low incidence of natural enemies
- ❖ High capacity of migration and climbing of crawlers.

3) Details of technologies selected for assessment/ refinement

Category	Source of technology	Technology detail		
Technology option 1	Farmer	T ₁	Farmer practices	Application of conventional insecticides after infestation on Mealy bug
Technology option 2	Main Oilseeds Res. Station, JAU, Junagadh	T ₂	Recommended practices	Pre-sowing application of Methyl parathion, Application of insecticides at the time of infestation
Technology option 3		T ₃	Refined practices	Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides (<i>Beauveria</i> spp. or <i>Verticillium</i> spp.)

4) **Source of technology:** Junagadh Agricultural University

5) **Production system :-**

Irrigated & rainfed condition having heavy infestation of mealy bug

Variety : B.t. cotton (Government approved variety)

Season : *Kharif*-2008, irrigated

Size of the plot : 0.40 ha.

6) **Thematic area** : IPM for suppression of Mealy bug

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 (% Plant infested with mealybug)		
			T ₁	T ₂	T ₃

1	Oodhavaji Kanjibhai	Makwana	65	34	13
2	Ratilal Devrajibhai Sangani	Badanpar	62	31	9
3	Krishi Vigyan Kendra	Jamnagar	53	25	8
		Average	60	30	10

8) Final recommendation for micro level situation : Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides (*Beauveria* spp. or *Verticillium* spp.) having highest non significant yield with farmers practices.

9) Constraints identified and feedback for research:

- ❖ High incidence of sucking pests and spodoptera
- ❖ Found initiation of mealybug incidence
- ❖ Yield increase compare to farmers practices.

10) Process of farmers participation and their reaction: Farmers have good response and they have support for OFT. Recommended application of the pesticides having low infestation of mealybug attack as well as disease. And highest yield found in refinement treatment. They satisfied with this trial.

11) Results of On Farm Trials

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter (% Plant infested)
1	2	3	4	5	6	7	8
Cotton	Irrigated	Mealy bug	Management of mealy bug infestation	3	Mangt. Through insecticides	T ₁ - Farmers practices Application of conventional insecticides	60
						T ₂ - Improved Pre-sowing application of Methyl parathion	30
						T ₃ - Refined Practices Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides	10

* No. of farmers

Crop/enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
Cotton	Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-	Farmers have good response and they have support for OFT. Recommended application of the pesticides having low infestation of mealybug attack as well as disease. And highest yield found in refinement	Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries,	Earlier Mealybug was sporadic pest. Now it becomes regular polyphagous pest and

pesticides (<i>Beauveria</i> spp. or <i>Verticillium</i> spp.) having highest non significant yield with farmers practices.	treatment. They satisfied with this trial.	application of newer insecticides/bio-pesticides	breeding continuously.
--	--	--	------------------------

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
Cotton	T ₁ - Farmers practices Application of conventional insecticides	3078	4500	84645	80145	1:17.81
	T ₂ - Improved Pre-sowing application of Methyl parathion	2243	3500	61683	58183	1:16.62
	T ₃ - Refined Practices Pre-sowing application of Methyl parathion 2% Dust at 15 days interval, removal of host plants & vegetation from boundaries, application of newer insecticides/bio-pesticides	3085	4200	84838	80638	1:19.20

OFT – 2 :- Cotton :

1) Title :- JUDICIOUS USE OF FERTILIZER IN COTTON

2) Problem definition:

- ❖ Farmers are using phosphatic fertilizer as basal as well as top dressing.
- ❖ Plant needs more phosphorus at initial growth stage.
- ❖ Improper variety selection
- ❖ High labour charges
- ❖ Lack of proper practices knowledge
- ❖ Plant stand per hectare
- ❖ Monocropping
- ❖ Long duration crops
- ❖ Injudicious use of fertilizers
- ❖ Injudicious use of pesticides
- ❖ Lack of disease management
- ❖ Scheduling of irrigation

3) Details of technologies selected for assessment/ refinement

Treatment			Period of application	N (kg/ha)	P ₂ O ₅ (kg/ha)	K ₂ O (kg/ha)	Source
T ₁	Farmer practices	Farmer	Basal	22.5	57.5	0	DAP
			Split-1(30 DAS)	57.5	0	0	Urea
			Split-2 (45 DAS)	57.5	0	0	Urea

			Split-3 (60 DAS)	80	57.5	0	Urea+DAP
			Split-4 (75 DAS)	57.5	0	0	Urea
			Total	275	115	0	
T ₂	Recommended practices	Cotton Res. Station, JAU, Junagadh	Basal	40	0	0	AS
			Split-1(30 DAS)	40	0	0	Urea
			Split-2 (45 DAS)	40	0	0	Urea
			Split-3 (60 DAS)	40	0	0	Urea
			Total	160	0	0	
T ₃	Refined practices – I		Basal	40	60	60	AS + MOP
			Split-1(30 DAS)	40	0	0	Urea
			Split-2 (45 DAS)	40	0	0	Urea
			Split-3 (60 DAS)	40	0	0	Urea
			Total	160	60	60	
T ₄	Refined practices – II		Basal	40	60	60	AS + MOP
			Split-1(30 DAS)	40	0	20	AS + MOP
			Split-2 (45 DAS)	40	0	20	AS + MOP
			Split-3 (60 DAS)	40	0	20	AS + MOP
			Total	160	60	120	

N.B.:- T₁, T₂, T₃ & T₄ are technology options 1, 2, 3 & 4 respectively.

4) Source of Technology :- Junagadh Agricultural University

5) Production system and thematic area : Application of DAP

Variety : Mallika {B.t. cotton (Government approved variety)}

Season : *Kharif*-2008

Size of the plot : 0.40 ha.

6) Thematic area : Unjudicious use of chemical fertilizers in cotton production

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	Technology Option 4
			Yield	Yield	Yield	Yield
1	Viredrasingh Bachubha	Dhandha	30.3	21.7	29.7	29.9
2	Bhimsi Dhanabhai Ambaliya	Viramdad	30.2	21.8	29.7	29.85
3	Krishi Vigyan Kendra	Jamnagar	30.5	22.4	30.0	30.1
		Average	30.3	21.9	29.8	30.0

8) Final recommendation for micro level situation : Basal application of N (40 kg), P₂O₅ (60 kg) and K₂O (60 kg) and remaining N application 40 kg each at 30, 45 and 60 days after sowing having highest non significant yield with farmers practices.

9) Constraints identified and feedback for research:

- ❖ High incidence of sucking pests and spodoptera
- ❖ Found initiation of mealybug incidence
- ❖ Yield increase as compare to farmers' practices.

10) Process of farmers participation and their reaction: Farmers have good response and they have support for OFT. Recommended 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/enterprise	Farming situation	Problem Diagnosed	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
Cotton	Irrigated	INM	Low yield of Cotton	3	Use of balance fertilizers	T ₁ - Farmers practices (N 275 : P ₂ O ₅ 115 : K ₂ O 00)	3032
						T ₂ - Improved Practice (N 160 : P ₂ O ₅ 00 : K ₂ O 00)	2198
						T ₃ - Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 60)	2980
						T ₄ - Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 120)	3000

* No. of farmers

Crop/enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
Cotton	Basal application of N (40 kg), P ₂ O ₅ (60 kg) and K ₂ O (60 kg) and remaining N application 40 kg each at 30, 45 and 60 days after sowing having highest non significant yield with farmers practices.	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.	N (160 kg), P ₂ O ₅ (60 kg) and K ₂ O (60 kg)	Monocropping system & less availability of FYM

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
Cotton	T ₁ - Farmers practices (N 275 : P ₂ O ₅ 115 : K ₂ O 00)	3032	5850	83380	77530	1:13.25
	T ₂ - Improved Practice (N 160 : P ₂ O ₅ 00 : K ₂ O 00)	2198	1945	60445	58500	1:30.08
	T ₃ - Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 60)	2980	3900	81950	78050	1:20.01
	T ₄ - Refined Practices (N 160 : P ₂ O ₅ 60 : K ₂ O 120)	3000	4500	82500	78000	1:17.33

OFT – 3:- Oilseeds (Groundnut) :**1) Title :- Biological control of *Sclerotium rolfsii* (stem rot) in groundnut****2) Problem definition :**

- ❖ Reduction in plant population/ unit area due to disease at initial stage
- ❖ Poor quality of pod as well as straw
- ❖ Pods detached from the plant and remains in the soil
- ❖ Lack of knowledge about the proper method and time of application
- ❖ Set furrow sowing system
- ❖ Soil bunding enhance the disease intensity
- ❖ Lack of summer deep ploughing
- ❖ Lack of crop rotation

3) Details fo technologies for assessment/ ferinement

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

4) **Source of Technology:-** Junagadh Agricultural University

5) Production system

Variety: GG-20

Season: *Kharif*- 2008

Size of plot : 0.40 ha

5) **Production system and thematic area :** Management of stem rot in groundnut

6) **Thematic area :** Management of stem rot in groundnut

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
			Yield	Yield	Yield
1	Pithabhai Popatbhai Vasoya	Chandrag	15.5	23.2	21.7
2	Gajubha Vibhaji Sodha	Dhandha	15.6	23.0	21.6
3	Krishi Vigyan Kendra	Jamnagar	15.7	23.4	21.8
		Average	15.6	23.2	21.7

8) **Final recommendation for micro level situation :** Management of *Sclerotium rolfsii* in groundnut with *Trichoderma harzeanum* @ 2.5 kg/ha and castor cake @ 500kg/ha at the time of sowing having more beneficial

9) Constraints identified and feedback for research :

- ❖ Soil born fungus,
- ❖ Highly related with high moisture & temperature.
- ❖ Reduce stem rot diseases
- ❖ Yield increase compare to control plot
- ❖ Good and bigger quality of pods

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

11) Results of On Farm Trials

Crop/enterprise	Farming situation	Problem Diagnosed	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
Groundnut	Rain-fed	Stem rot (<i>Sclerotium rolfsii</i>)	Yield losses in groundnut due to Sclerotium stem rot	3	Management of stem rot in groundnut through <i>Trichoderma harzianum</i>	T ₁ - Farmers practice (Control)	1560
						T ₂ - Improved Practice (<i>Trichoderma harzianum</i> @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2325
						T ₃ - Refined Practices (Castor cake @ 500 kg/ha, Drenching of <i>Trichoderma harzianum</i> @2.5 kg/ha at 30 & 45 DAG)	2170

* No. of farmers

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

Crop/enterprise	Technology Assessed / Refined	*Production kg/ha	Input cost Rs./ha	Gross return Rs./ha	Net Return (Profit) in Rs. / ha	BC Ratio (* only OFT input cost base)
1	13	14			15	16
Groundnut	T ₁ - Farmers practice (Control)	1560	3000	39000	36000	1:12.00
	T ₂ - Improved Practice (<i>Trichoderma harzianum</i> @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2325	1750	58125	56375	1:32.21

T ₃ – Refined Practices (Castor cake @ 500 kg/ha, Drenching of <i>Trichoderma</i> <i>harzeanum</i> @2.5 kg/ha at 30 & 45 DAG)	2170	2300	54250	51950	1:22.59
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*Field crops – kg/ha, * for horticultural crops – kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

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

FRONTLINE DEMONSTRATIONS

Crop/enterprise	No. of demonstrations	Area (ha)
Oilseeds	20	10
Pulses		
Cereals	40	20
Millets		
Cash crops	20	10
Fodder crops		
Fruit crops		
Vegetable crops	30	15
Plantation crops		
Spices and condiments	20	10
Flowers and ornamental crops		
Medicinal and aromatic plants		
Fishery		
Total		
		Units (No.)
Dairy		
Sheep and goat		
Poultry		
Piggery		
Rabbitary		
Apiculture		
Mushroom units		
Total		
Grand total		

OILSEEDS

Sl. No.	Crop	Technology Demonstrated	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		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
								Demo	Local		
1	Groundnut	IDM, Variety	20	10	20.62	16.25	21.21	7000	8500	32350	1:2.23

PULSES

Sl. No.	Crop	Technology Demonstrated	No. of Farmers	Area (ha.)		Yield of local		Data on parameter in relation to	Average Net Return	Benefit-Cost Ratio
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					Demo. Yield Qtl/ha	Check Qtl./ha	Increase in yield (%)	technology demonstrated		(Profit) (Rs./ha)	(Gross Return / Gross Cost)
								Demo	Local		

Cotton

Sl. No.	Crop	Technology Demonstrated	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		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
								Demo	Local		
2	Cotton	IPM, Variety	20	10	25.00	20.31	18.75	2880	5000	53806	1:3.8

CEREALS, HORTICULTURE AND OTHER CROPS

Sl. No.	Crop	Technology Demonstrated	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		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
								Demo	Local		
3	Chilli	IPM	10	5	120	102.5	14.58	8250	9300	110275	1:5.05
4	Brinjal	IPM	10	5	512.5	452.5	11.70	12535	13522	145775	1:4.96
5	Tomato	INM	10	5	575	502.5	12.60	5231	6241	129837	1:4.44
6	Wheat	Variety	40	20	53.75	45	16.27	1050	920	47068	1:3.51
7	Cumin	Variety	20	10	12.5	10	20.00	930	1250	83312	1:3.94

ENTERPRISES

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

* Include the data on related observations and yield

** Efficacy of technology demonstrated and its impact on yield

Demonstrations on Hybrid varieties of different crops

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

* Include the data on related observations and yield

** Efficacy of technology demonstrated and its impact on yield

3. DETAILS OF TRAINING PROGRAMMES CONDUCTED:

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

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	5	65	19	84	32	10	42	97	29	126
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	1	45	2	47	8	3	11	53	5	58
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Water management	2	31	3	34	12	4	16	43	7	50
Seed production	2	40	17	57	10	4	14	50	21	71
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	2	29	4	33	8	3	11	37	7	44
Fodder production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	16	3	19	3	1	4	19	4	23
Total	13	226	48	274	73	25	98	299	73	372
II Horticulture	0	0	0	0	0	0	0	0	0	0
a) Vegetable Crops	0	0	0	0	0	0	0	0	0	0
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	4	89	23	112	29	13	42	118	36	154
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0
b) Fruits	0	0	0	0	0	0	0	0	0	0
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants	0	0	0	0	0	0	0	0	0	0

Nursery Management	3	40	12	52	10	3	13	50	15	65
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Total	7	129	35	164	39	16	55	168	51	219
III Soil Health and Fertility Management	0	0	0	0	0	0	0	0	0	0
Soil fertility management	2	27	8	35	11	3	14	38	11	49
Soil and Water Conservation	4	70	24	94	29	10	39	99	34	133
Integrated Nutrient Management	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
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	1	12	2	14	3	2	5	15	4	19
Nutrient Use Efficiency	1	15	4	19	6	1	7	21	5	26
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Total	8	124	38	162	49	16	65	173	54	227
IV Livestock Production and Management	0	0	0	0	0	0	0	0	0	0
Dairy Management	0	0	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0	0

Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment	0	0	0	0	0	0	0	0	0	0
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	6	0	124	124	0	34	34	0	158	158
Income generation activities for empowerment of rural Women	2	0	28	28	0	11	11	0	39	39
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	1	0	14	14	0	4	4	0	18	18
Women and child care	3	0	44	44	0	26	26	0	70	70
Total	12	0	210	210	0	75	75	0	285	285
VI Agril. Engineering	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protection	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	19	348	81	429	99	34	133	447	115	562
Integrated Disease Management	13	278	57	335	79	25	104	357	82	439
Bio-control of pests and diseases	2	49	5	54	24	8	32	73	13	86
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Total	34	675	143	818	202	67	269	877	210	1087
VIII Fisheries	0	0	0	0	0	0	0	0	0	0
Integrated fish farming	3	86	15	101	17	10	27	103	25	128

Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	3	49	9	58	17	5	22	66	14	80
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	1	15	3	18	2	0	2	17	3	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	0	0	0	0	0	0	0	0	0	0
Total	7	150	27	177	36	15	51	186	42	228
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Seed Production	4	62	18	80	28	7	35	90	25	115
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	5	61	32	93	19	12	31	80	44	124
Organic manures production	3	63	19	82	13	6	19	76	25	101
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Total	12	186	69	255	60	25	85	246	94	340
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0	0
Leadership development	2	42	11	53	10	4	14	52	15	67
Group dynamics	2	46	13	59	9	4	13	55	17	72
Formation and Management of SHGs	2	42	12	54	18	7	25	60	19	79
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Total	6	130	36	166	37	15	52	167	51	218
XI Agro-forestry	0	0	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0

Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	99	1620	606	2226	496	254	750	2116	860	2976
	0	0	0	0	0	0	0			
(B) RURAL YOUTH	0	0	0	0	0	0	0			0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Integrated Farming	1	8	3	11	4	0	4	12	3	15
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	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	8	0	109	109	0	43	43	0	152	152
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	1	0	0	0	12	4	16	12	4	16
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	5	0	0	0	72	14	86	72	14	86
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	1	12	12	24	3	4	7	15	16	31

TOTAL	16	20	124	144	91	65	156	111	189	300
	0	0	0	0	0	0	0			
(C) Extension Personnel	0	0	0	0	0	0	0			0
Productivity enhancement in field crops	2	36	2	38	14	0	14	50	2	52
Integrated Pest Management	2	42	1	43	16	0	16	58	1	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
Any other (Pl. Specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	4	78	3	81	30	0	30	108	3	111
Grand Total	119	1718	733	2451	617	319	936	2335	1052	3387

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants									No. of persons employed	No. of persons employed elsewhere
					General			SC/ST			Total				
					Male	Female	Total	Male	Female	Total	Male	Female	Total		
Integrated	15-10-08	Integrated farming	Mix farming	1	8	3	11	4	0	4	12	3	15	2	1
Vegetable	27-2-09	Packaging & Preservation of vegetables	Value addition in vegetable	1	0	15	15	0	3	3	0	18	18	2	1
Vegetable	3-3-09	Packaging & Preservation of vegetables	Value addition in vegetable	1	0	14	14	0	5	5	0	19	19	1	0

Fruit	15-4-09	Preparation of Jam - Jelly & pickles	Value addition in fruits	1	0	10	10	0	4	4	0	14	14	1	0
Fruit	23-4-09	Preparation of Jam - Jelly & pickles	Value addition in fruits	1	0	14	14	0	3	3	0	17	17	0	0
Fisheries	17-1-09	Ornamental fisheries	Income generation	1	0	0	0	12	4	16	12	4	16	1	0
Fisheries	6-2-09	Fresh prawn culture	Income generation	1	0	0	0	21	3	24	21	3	24	2	0
Fisheries	5-3-09	Fresh prawn culture	Income generation	1	0	0	0	12	2	14	12	2	14	1	0

*training title should specify the major technology / skill transferred

(E) Sponsored Training Programmes

Thematic area	Client	No. of Course	M	F	Total	M	F	Total	M	F	Total
Food Preservation	RY	1	0	10	10	0	5	5	0	15	15
ICM &	PF	1	25	5	30	10	5	15	35	10	45
Increase knowledge of crop production Total	RY	1	25	5	30	10	5	15	35	10	45
INM, Improve Soil Total	PF	1	25	5	30	10	5	15	35	10	45
IPM /INM /ICM Total	PF	41	2507	607	3114	1028	298	1326	3535	905	4440
Land Preparation Total	PF	1	25	5	30	10	5	15	35	10	45
Organic Farming Total	RY	1	45	15	60	10	5	15	55	20	75
Reduce cost of cultivation Total	EF	3	58	0	58	24	0	24	82	0	82

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

Nature of Extension Programme	No. of Programmes	No. of Participants								
		General			SC / ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	25	305	119	424	48	19	67	353	138	491
Kisan Mela	6	2520	980	3500	792	308	1100	3312	1288	4600
Kisan Ghosthi	17	1306	509	1815	387	151	538	1693	660	2353
Exhibition	2	648	252	900	216	84	300	864	336	1200
Film Show		0	0		0	0		0	0	0
Method Demonstrations		0	0		0	0		0	0	0
Farmers Seminar	124	1439	560	1999	320	125	445	1759	685	2444
Workshop		0	0		0	0		0	0	0
Group meetings		0	0		0	0		0	0	0
Lectures delivered as resource persons	87	7179	2793	9972	1195	466	1661	8374	3259	11633
Newspaper coverage	9	0	0		0	0		0	0	0
Radio talks	4	0	0		0	0		0	0	0
TV talks	6	0	0		0	0		0	0	0
Popular articles		0	0		0	0		0	0	0
Extension Literature	10	7819	3041	10860	1058	412	1470	8877	3453	12330
Advisory Services	16	0	0		0	0		0	0	0
Scientific visit to farmers field	211	222	87	309	45	18	63	267	105	372

Farmers visit to KVK	101	1039	405	1444	229	90	319	1268	495	1763
Diagnostic visits		0	0		0	0		0	0	0
Exposure visits		0	0		0	0		0	0	0
Ex-trainees Sammelan		0	0		0	0		0	0	0
Soil health Camp		0	0		0	0		0	0	0
Animal Health Camp		0	0		0	0		0	0	0
Agri mobile clinic	4308	3160	0	3160	547	0	547	3707	0	3707
Soil test campaigns		0	0		0	0		0	0	0
Farm Science Club Conveners meet		0	0		0	0		0	0	0
Self Help Group Conveners meetings		0	0		0	0		0	0	0
Mahila Mandals Conveners meetings		0	0		0	0		0	0	0
Celebration of important days (specify)		0	0		0	0		0	0	0
Female groups	7		55	55	0	30	30	0	85	85
Night Meeting	15	255	100	355	48	19	67	303	119	422
Crop Shibir/Farmer shibir	68	1126	438	1564	128	50	178	1254	488	1742
Colloborative training	45	956	372	1328	276	108	384	1232	480	1712
Training to Extension Functionaries	6	108	43	151	26	11	37	134	54	188
Any Other (Specify)		0	0		0	0		0	0	0
Total	5067	28082	9754	37836	5315	1891	7206	33397	11645	45042

Table 5 Production and supply of Technological products (2007-08)**Table 5A SEED MATERIALS**

Sl. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Wheat	GW-366	400.00	945012.5	
OILSEEDS	Groundnut	GG-5	58.93	31406	100
	Groundnut	GG-6	3.23	6850	3
	Groundnut	TPG-41	11.03	18407	2
	Groundnut	TG-37A	3.32	6636	2
	Groundnut	GG-16	3.07	14070	5
PULSES					
VEGETABLES	Brinjal	PLR-1	1.05	525	
	Tomato	Guj-1	0.35	350	
	Chilli		0.85	42.50	
	Okra	Guj-1	0.20	200	
	Ridge gourd	Jaypur-2	0.10	50	

	Sponge gourd	Guj-1	0.10	50	
FLOWER CROPS					
OTHERS (Specify)	Vermi culture	<i>Icenea fatida</i>	0.26	5200	6
	Vermi compost		91.25	27375	

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	400	945013	
2	OILSEEDS	79.58	77369	112
3	PULSES			
4	VEGETABLES	2.65	1217.5	
5	FLOWER CROPS			
6	OTHERS (Vermi Culture)	0.26	5200	6
	Vermi compost	91.25	27375	
TOTAL		573.74	1056174.5	118

Table 5B PLANTING MATERIALS

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

SUMMARY

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

Table 5C BIO PRODUCTS

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

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

Table 5D LIVESTOCK

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

SUMMARY

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

