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ANNUAL PROGRESS REPORT-2008-09
(OCTOBER 2007 TO SEPTEMBER-2008)

&

ACTION PLAN
(OCTOBER 2008 TO SEPTEMBER 2009)

OF

KRISHI VIGYAN KENDRA JAMNAGAR

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

PREPARED/COMPILED By

Dr. K. P. Baraiya, Senior Scientist & Head
Smt. A. K. Baraiya, Scientist
Dr. N. B. Jadav, Scientist

KRISHI VIGYAN KENDRA
MILLET RESEARCH STATION
JUNAGADH AGRICULTURAL UNIVERSITY
JAMNAGAR-361 006
GUJARAT

CONTENT

ANNUAL PROGRESS REPORT-2007-08
(OCTOBER 2007 TO SEPTEMBER-2008)

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 adr-uni-jam@ gujarat.gov.in	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
Krishi Vigyan Kendra Millet Research Station, Junagadh Agricultural University, Airforce Road, Opp. Digjam Mill **Jamnagar- 361 006**	(0288) 2710461	9426243598	

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 2007)

Sl. No.	Sanctioned post	Name of the incumbent	Desig-nation	Discipline	Highest qualify-cation	Pay Scale	Present basic	Date of joining	Perm-anent /Temp-orary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. J. N. Nariya	Prog. Co-ord.	Ag. Chem. & Soil Sci.	Ph.D	12000-18300	16200	18-07-05	Temp.	Others
2	Subject Matter Specialist	Dr. K. P. Baraiya	SMS	Plant Protection	Ph.D; NET	8000-13500	9650	17-08-06	Temp.	Other
3	Subject Matter Specialist	Dr. N. B. Jadav	SMS	Extension Education	Ph.D.	8000-13500	9650	18-08-06	Temp.	OBC
4	Subject Matter Specialist	Smt. A. K. Baraiya	SMS	Home Science	M.Sc.	8000-13500	8550	17-08-06	Temp.	Other
5	Subject Matter Specialist	Dr. V. J. Zizala	SMS	Crop Production	Ph.D.	8000-13500	9650	24-08-06	Temp.	OBC
6	Subject Matter Specialist	Dr. J. N. Thaker	SMS	Fisheries	Ph.D.	8000-13500	9650	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		Prog. Asstt.	Computer Operator		5500-9000		Vacant		
10	Farm Manager	Shri A. K. Maheriya	Prog. Asstt.	Agril. Diploma	Diploma	8000-13500	9650	1-06-2007	Temp.	OBC
11	Accountant / Superintendent	Shri N. H. Vasavda	Sr. Clerk	Adm.	Old SSC	4000-6000	5800	1-07-05	Temp.	Others
12	Stenographer	Shri A.V. Thakkar	Sr. Clerk	Adm.	B.Sc. (Chem)	4000-6000	5800	3-10-74	Temp.	Other
13	Driver	Shri A.D. Qureshi	Driver	Supt.	7 STD.	4000-6000	5400	1-10-04	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		
			Comp-letion Date	Plinth area (Sq.m)	Expen-diture (Rs.)	Star-ting Date	Plinth area (Sq.m)	Status of const-ruction
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	As below	As below

The third Scientific Advisory Committee meeting of Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar was held at Museum Hall, K.V.K., J.A.U., Jamnagar on 2nd November, 2007.

Committee made the following recommendations after active interaction.

Sl. No.	Silant Recommendations	Action Taken	Suggested by
1.	It was suggested to take up the pot trial research on cotton to find out the effect of $ZnSO_4$ on reddening of cotton leaves.	Suggestation accepted and followed, Trial is under progress	Dr. A.M. Parakhiya
2.	There is need to arrange more trainings for value addition in milk, fish & flower	Suggestation accepted and followed,	Mr. R.H. Ladani
3.	It was felt that there is need to collect database for in-land fisheries in the district.	Suggestation accepted and followed,	Res. Officer (Fisheries)
4.	Training should be arranged for preparation of Sea weed Greeting cards	Suggestation accepted and followed, Already arrange two traingin on this topic	Dr. A.M. Parakhiya
5.	Observe rust incidence on groundnut at weekly interval and correlate with weather parameters	Suggestation accepted and followed,	Dr. A.M. Parakhiya
6.	Field trials for direct application of seaweed be arranged on various crops of district.	Some farmers collect and used seaweed in cotton, groundnut & Vegetable and found good results with control.	Shri. M.K. Kathad
7.	Take soil sample from each plot of farm before sowing of crop in every season as well as irrigation water sample in every month for chemical analysis.	Suggestation accepted and followed for analysis.	Dr. C.J. Dangariya
8.	Periodically measure growth rate of fish development in pond of KVK	Suggestation accepted and followed,	Res. Officer (Fisheries)
9.	Write in advance to the concern suppliers for seed requirement of farm as well as FLD.	Suggestation accepted and followed,	Dr. A. M. Parakhiya
10.	Carried out survey of saline and alkaline soils in the district	Suggestation accepted and followed,	Dr. A. M. Parakhiya
11.	Training should be arrange on burning problems of farmers *viz.*, mealybug, leaf reddning, sucking pests nutritional management and Para-wilt in Bt cotton; tikka, Rist & *Scleritium* rot in groundnut, etc.	Suggestation accepted and followed, trainings arrange on needbase / burning problem in the district	Ramjibhai Makwana (Farmer)
12.	Presentation for FLD should be with photographs along with area, production, productivity & name of village.	Suggestation accepted and followed	Dr. A. M. Parakhiya

- 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 km^2 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 taluukas 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 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 Arebian sea. 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, pearlmillet, 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).

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, pearlmillet	Well drained soils with rapid permeability	124	Kalawad, Jamjodhpur, Bhanvad, Okha	Moisture stress, temperature stress
AES-2	Shallow Black soils with 600-700 mm Rainfall	Clayey	75 – 150	Groundnut, wheat, sorghum, pearlmillet	Slightly well drained soils with rapid permeability	180	Part of Kalyanpur, Jamnagar, Jamkhambhalia, Lalpur, Dhrol, Jodia	Moisture stress, temperature stress
AES-3	Coastal Alluvial soils with 300-400 mm Rainfall	Clayey loam to clayey	50	Groundnut, pearlmillet, sorghum, chickpea	Low nitrogen and phosphus	181	Jodia, part of Okha, Jamkhambhalia, Kalyanpur & Jamnagar	Salt affected salinity
AES-4	Coastal Alluvial soils with 500-700 mm Rainfall	Silt clay	25-50	Groundnut, pearlmillet, sorghum, chickpea	Low nitrogen and phosphorus	299	Kalyanpur, Jodia & Jamnagar, Khambhadia, Lalpur, Dwarka	Salt affected salinity
AES-5	Coastal Alluvial shallow black soils with 300-400 mm Rainfall	Sandy loam to clay loam	0-25	Sorghum, Pearlmillet, Groundnut, Sesamum	Arid climate	31	Okha	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 desired from basaltic rock known as Daccan trap. This is the commonest rock in India and due to its extensive occurrence in south is called "Daccan Traps". In many parts, they6 have flat top features and hence, are also known as plateau basalt. The trap rocks, which occupy a large part of western cost 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	These soils have developed from basaltic trap especially from granite and gneiss parent materials. They light grey in colour. Taxonomically, they are classified as *Ustorthents* and *Ustochrepts*. 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. 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.	124000 ha (Kalawad, Jamjodhpur, Bhanvad, Okha)
2.	Medium black soils	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. 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 *Ustochrepts* in *Inceptisol* 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 *Vertic – Ustochrepts* at sub group level. 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	180000 ha (Part of Kalyanpur, Jamnagar, Jamkham-bhalia, Lalpur, Dhrol, Jodia)

		trend of clay content in different horizon of the profile is observed. 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.	
3.	Saline alkali soils	Saline alkali souls are extensively distributed on the coastal are3a as well as inlands. 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 souls are classified as *Fluvaquents, Halaquents,* and *Haplaquents* (Entisol): *Haplaquents* and *Haptaquepts* in order – *Inceptisol.* Texturally these soils vary from sandy loam to clay. The degree of salinity and alkalinity is also highly variable. In Jamnagar district, the saline and alkaly 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.	181000 ha (Jodia, part of Okha, Jamkhambhalia, Kalyanpur & Jamnagar)
4.	Costal alluvial soils	these soils are located in the district of Jamnagar consisting Kalyanpur, Jodia and Jamnagar, Jamkhambhadia, 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 ot highly alkaline (p^H 7.6 to 9.0). The souls are normally medium in fertility. Taxonomically, these souls are classified as *Halaquents* and *Haplaquents* – Entisol and *Helaquepts* and *Hapdaquents* in Inceptisol order.	299000 ha (Kalyanpur, Jodia & Jamnagar, Khambhadia, Lalpur, Dwarka)
5.	Hilly soils	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. 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 *Ustorthents* and those near foothills and valley are comparatively deeper can be placed under *Ustochrepts*	31000 ha (Some part of Bhanvad and Jamjodhpur)

		and can be classified under estisol and *Inceptisol* orders respectively.	

2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
	FIELD CROPS			
1	Groundnut	398650	5660830	14.2
2	Sesamum	8740	31464	3.6
3	Castor	12540	327294	26.1
4	Mustard	1135	19862.5	17.5
5	Cotton	144300	3318900	23
6	Wheat	57300	1839330	32.1
7	Pearlmillet	1208	15824.8	13.1
8	Sorghum	8100	85050	10.5
9	Maize	2850	20520	7.2
10	Greengram	2135	11956	5.6
11	Blackgram	3790	23270.6	6.14
12	Chickpea	31300	350560	11.2
13	Pigeon pea	100	1100	11
14	Cowpea	740	2782.4	3.76
15	sugarcane	320	16000	50
16	Moothbean	50	210	4.2
	SPICES AND CONDIMENTS			
17	Cumin	27690	146757	5.3
18	Fennel	115	241.5	2.1
19	Coriander	1460	15330	10.5
20	Ajwan	1300	5330	4.1
21	Ishabgul	150	1020	6.8
22	Chilli	1340	12864	9.6
23	Garlic	7000	518000	74
24	Dill seed	50	275	5.5
	Total spices	38400		
	VEGETABLE			
25	Onion	2980	518520	174
26	Potato	2150	49450	23
27	Brinjal	1560	173160	111
28	Tomato	1980	301950	152.5
29	Cauliflower	440	44000	100
30	Cowpea	840	34356	40.9
31	Cabbage	435	43500	100
32	Okra	1550	85715	55.3
33	Fenugreek	40	460	11.5
34	Peach	5	10	2
35	Cucurbits	42	1596	38
36	Cluster bean	1138	46999.4	41.3
37	Other vegetable	17	484.5	28.5

	Total Vegetable	13177		
	FRUIT CROPS			
38	Chiku	238	21658	91
39	Pomegranate	77	4004	52
40	Citrus	173	7006.5	40.5
41	Jamun	7	14.7	2.1
42	Aonla	76	2964	39
43	Guava	15	600	40
44	Custard apple	70	3605	51.5
45	Papaya	580	269700	465
46	Coconut	380	2850000	7500
47	Ber	300	15750	52.5
48	Almond	55	2200	40
49	Banana	12	1140	95
50	Mango	425	37825	89
51	Cashew nut	7	24.5	3.5
52	Other fruits	165	8250	50
	Total Fruits	2580		
	FLOWERS			
53	Rose	31	1798	58
54	Merry gold	52	4576	88
55	Shevanti	1	2	2
56	Lilly	7	18.9	2.7
57	Other flowers	55	1540	28
	Total flowers			
	OTHER CORPS			
58	Chikori	400	34600	86.5
59	Palma Rosa	43	5375	125
60	Lucern	1800	216000	120
	FIELD CROPS			
1	Groundnut	398650	5660830	14.2
2	Sesamum	8740	31464	3.6

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

2.5. Weather data

Month	Temperature ⁰ C		Relative Humidity (%)		Rainfall (mm)	Rainy days
	Maximum	Minimum	Morning	Evening		
Jun-07	35.34	25.40	85.40	59.60	90.00	9.00
Jul-07	31.90	24.43	91.25	72.50	460.50	8.00
Aug-07	29.98	23.52	95.00	80.00	842.50	19.00
Sep-07	31.98	23.60	94.75	67.25	115.00	4.00
Oct-07	33.08	20.53	87.50	44.50	0.00	0.00
Nov-07	32.44	17.08	80.20	33.60	0.00	0.00
Dec-07	26.45	14.65	72.50	36.00	0.00	0.00
Jan-08	24.32	10.54	76.20	34.80	1.00	0.00

Feb-08	27.00	11.23	75.50	23.50	0.00	0.00
Mar-08	33.08	18.80	87.25	34.75	0.00	0.00
Apr-08	34.08	21.45	90.50	45.25	0.00	0.00
May-08	35.30	25.62	83.80	57.40	0.00	0.00
Jun-08	33.63	26.78	86.50	64.00	326.00	6.00
Jul-08	31.86	25.96	88.60	67.80	71.00	6.00
Aug-08	30.28	24.40	92.50	69.50	56.00	3.00
Sep-08						

* 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	
Crossbred			8.585 lit/day
Indigenous			3.375 lit/day
Buffalo	209616		4.451 lit/ha
Sheep	232530	295.16 lakh kg wool	
Crossbred			
Indigenous			
Goats	173022		0.274 lit/ha
Pigs		290097.9 Qtl meat	
Crossbred			
Indigenous			
Rabbits			
Poultry	38041	12.77 lakh eggs	
Hens			
Desi			
Improved			
Ducks			
Turkey and others			
Horse &	410		
camels	2260		
Donkey	2577		
Total Milk			
Total egg			
Total wool			

Category		**Area**	**Production**	**Productivity**
Fish				
	Marine	342 km		
	Inland			
Prawn				
Scampi				
Shrimp				

* Source : Asstt. Dir. Fisheries, Jamnagar

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

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1		Jamnagar	Makwana	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		Jamnagar	Mokhana	Flower, 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		Jamnagar	Konja	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		Jamnagar	Chandraga	Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM Organic farming Green house technology Vermi compost Water harvest technology Crop production
5		Jamnagar	Dhandha	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
6		Jamnagar	Theba	Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM Vermicompost Bio-fertilizer Bio-pesticides Watershed Value addition in field & vegetable produce
7		Jamnagar	Jivapar	Chikori, fruits, vegetables, Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM Vermicompost Bio-fertilizer Bio-pesticides Watershed Value addition in field & vegetable produce Organic farming technology Post harvest technology in chikory
8		Jamnagar	Bed	Chikori, Vegetables, Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	Soil reclamation Poor irrigation water management Motivation for fishery IPM/IDM/INM
9		Jamnagar	Amra	Chikori, Vegetable, Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM Vermicompost Bio-fertilizer, Bio-pesticides Soil reclamation Poor water quality Watershed Value addition in field Dry farming technology

10		Jamnagar	Dodhiya	Vegetable, Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM Vermicompost Bio-fertilizer Bio-pesticides Watershed Value addition in field Green house Drip irrigation Organic farming Dry farming technology
11		Jamnagar	Kansumra	Poultry, Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM; Vermicompost Poultry management; Motivation for fishery; Watershed; Value addition in field; Reclamation of soil Organic farming ; Dry farming technology
12		Bhanvad	Ranpur	Fruits, vegetable, poultry, flower, Cotton, groundnut, sesamum, castor, greengram, wheat, blackgram, gram, cumin, mustard,	IPM IDM INM	IPM/IDM/INM; Vermicompost Bio-fertilizer; Bio-pesticides; Watershed; Value addition in field & vegetable, horticultural crops; Green house; Medicinal crop techn. Dry farming technology
13		Bhanvad	Fotadi	Cotton, groundnut, cumin, coriander, wheat, gram, papaya	IPM IDM INM	IPM/IDM/INM;Vermicompost Bio-fertilizer; Bio-pesticides Watershed; Value addition in field & vegetable produce as well as papaya; Dry farming technology

2.8 Priority thrust areas

Sl. No	Thrust area
1.	Integrated pest & disease management of major crops.
2.	Organic farming in the district
3.	Integrated nutrient management, Composting, Vermi Compost, Bio-fertilizers utilization.
4.	Horticultural, vegetable and floriculture development technology.
5.	Dry farming technologies, methods of in-situ moisture conservation and watershed technology.
6.	Value addition in fruits, vegetables, flowers and agricultural products.
7.	Reclamation of saline & alkaline soils
8.	Motivation of fisheries cultivation, Animal husbandry and its by-products.
9.	Green house or poly house technology for vegetables and flower crop with organic farming.
10.	Medicinal and aromatic crop technology.
11.	Farm women empoverment

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	1	1	3	3
Groundnut	1	1	3	3

FLD				
2				
	Number of FLDs		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
***Kharif* -2007-08**				
Groundnut (GG-5)	5	5	10	10
Mung (GM-4)	5	5	10	10
Sesamum (Guj Til-2)	10	10	20	20
Castor (GCH-6)	10	10	20	20
Cotton (Bt. Cotton)	20	20	40	40
Chilli (Reshampatto)	5	5	10	10
Brinjal (GBL-1)	5	5	10	10
Tomato (GT-2)	5	5	10	10
TOTAL	**65**	**65**	**130**	**130**
***Rabi* -2007-08**				
Cabbage/ Cauliflower	10	10	20	20
Wheat (GW-366)	20	20	40	40
Cumin (Guj.Cum.-4)	10	10	20	20
Chick pea (Guj-2)	10	10	20	20
Total	**50**	**50**	**100**	**100**
***Kharif* -2008-09**				
Cotton	10	10	20	20
Chilli	5	5	10	10
Brinjal	5	5	10	10
Tomato	5	5	10	10
Component demo. (*Trichoderma* spp.)	5	5	10	10
TOTAL	**45**	**45**	**90**	**90**

FLD conducting other than KVK Scheme during					
***Kharif*-2007-08**		**Number of FLDs**		**Number of Farmers**	
Scheme	**Crops**	**Targets**	**Achievement**	**Targets**	**Achievement**
ATIC	Groundnut (GG-5)	2.5	2.5	5	5
	Cotton (Bt. Cotton)	2.5	2.5	5	5

TOT	Groundnut (GG-5)	5	5	10	10
	Cotton (Bt. Cotton)	5	5	10	10
Cotton Mini Mission	Cotton (Bt. Cotton)	12	12	25	25
ATMA	Groundnut (GG-5)	150	150	300	300
	Cotton (Bt. Cotton)	100	100	200	200
	Fisheries	20	20	20	20
Total		**297**	**297**	**575**	**575**
***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**
Groundnut (GG-5)	1	1	10	10
Mung (GM-4)	1	1	10	10
Sesamum (Guj Til-2)	1	1	20	20
Castor (GCH-6)	1	1	20	20
Cotton (Bt. Cotton)	1	1	40	40
Chilli (Reshampatto)	1	1	10	10
Brinjal (GBL-1)	1	1	10	10
Tomato (GT-2)	1	1	10	10
Cabbage/ Cauliflower	1	2	15	30
Wheat (GW-366)	1	1	40	40
Cumin (Guj.Cum.-4)	1	1	20	20
Chick pea (Guj-2)	1	1	20	20

Extension Activities				
4				
	Number of activities		**Number of Participants**	
	Targets	**Achievement**	**Targets**	**Achievement**
Groundnut (GG-5)	4	4	80	98
Mung (GM-4)	2	2	40	45
Sesamum (Guj Til-2)	3	3	50	56
Castor (GCH-6)	4	4	80	64
Cotton (Bt. Cotton)	5	8	100	147
Chilli (Reshampatto)	2	2	40	46
Brinjal (GBL-1)	2	2	40	48

Tomato (GT-2)	2	2	40	40
Cabbage/ Cauliflower	1	2	30	40
Wheat (GW-366)	8	8	200	222
Cumin (Guj.Cum.-4)	4	4	80	86
Chick pea (Guj-2)	5	5	80	81

Seed Production (Qtl.)		
5		
	Target	**Achievement**
Groundnut (GG-5)	12	12.6
Mung (GM-4)	6	5.6
Sesamum (Guj Til-2)	27	28.6
Castor (GCH-6)	22	21.40
Cotton (Bt. Cotton)	20	16.4
Chilli (Reshampatto)	-	-
Brinjal (GBL-1)	-	-
Tomato (GT-2)	-	-
Cabbage/ Cauliflower	-	-
Wheat (GW-366)	-	1000
Cumin (Guj.Cum.-4)	-	10
Chick pea (Guj-2)	-	25

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 duet to *Sclerotium* stem rot	FLD on stem rot resistant variety GG-5	Integrated management of stem rot	IDM in groundnut	Field day, Radio talk, Training on IDM,	GG-5
2	Seed setering and yield	Sesamum	Seed setering and low yield	-	Synchronized maturity and high yielding variety with good quality	ICM system, IPM, IDM	-	Field day, radio talk training on ICM/ IPM/ IDM,	G.Til-2
3	Pest-Disesae & 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.B2 List of Technology Assessed during 2007-08

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	Mung variety	Varietal	5	10	Mung (GM-4)
3	ICM in sesamum	Variety, IDM	10	20	Sesamum (Guj Til-2)
4	IDM in castor	Variety	10	20	Castor (GCH-6)
5	ICM in cotton	Variety,IPM	20	40	Cotton (Bt. Cotton)
6	IPM in chilli	IPM	5	10	Chilli (Reshampatto)
7	IPM in brinjal	IPM	5	10	Brinjal (GBL-1)
8	INM in tomato	INM	5	10	Tomato (GT-2)
9	INM in tomato	INM	10	20	Cabbage/ Cauliflower

10	Varietal Evaluation of wheat	Variety	20	40	Wheat (GW-366)
11	IDM in cumin	IDM	10	20	Cumin (Guj.Cum.-4)
12	IDM/IPM in chicpea	IPM, Variety	10	20	Chick pea (Guj-2)
Total (Wherever applicable)			**115**	**230**	

3.B3 List of Technology Refined during 2007-08

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	Use of *Trichoderma* and castor cake for reduction of Stem rot of groundnut.	3	3	2007-08
3	INM in cotton	Use of balance fertilizers	3	3	2007-08
Total (wherever applicable)			**9**	**9**	

3.C Details of technology used during reporting period

S.No	Title of Technology	Crop/enterprise	Mode of use				No. of farmers covered					
			OFT	FLD	Training	Others (Specify)	Other farmers			SC / ST farmers		
							Male	Female	Total	Male	Female	Total
1		IDM, Variety	Groundnut (GG-5)		10							
2	Varietal	Mung (GM-4)		10								
3	Variety, IDM	Sesamum (Guj Til-2)		20								
4	Variety	Castor (GCH-6)		20								
5	Variety,IPM	Cotton (Bt. Cotton)		40								
6	IPM	Chilli (Reshampatto)		10								
7	IPM	Brinjal (GBL-1)		10								
8	INM	Tomato (GT-2)		10								
9	INM	Cabbage/ Cauliflower		20								
10	Variety	Wheat (GW-366)		40								
11	IDM	Cumin (Guj.Cum.-4)		20								
12	IPM, Variety	Chick pea (Guj-2)		20								
13	Time of thinning	Bajara	3									
14	Use of *Trichoderma* and castor cake for Stem rot	Groundnut	3									

3.1 Achievements on technologies assessed and refined

A. Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter (kg/ha)
1	2	3	4	5	6	7	8
Cotton	Irri-gated	INM	Low yield of Cotton	3	Use of balance fertilizers	T_1 - Farmers practices (N 275 : P_2O_5 115 : K_2O 00)	3190
						T_2 - Improved Practice (N 160 : P_2O_5 00 : K_2O 00)	2160
						T_3 - Refined Practices (N 160 : P_2O_5 60 : K_2O 60)	3190
						T_4 - Refined Practices (N 160 : P_2O_5 60 : K_2O 120)	3200
Groun-dnut	Rain-fed	Stem rot (*Scler-otium rolfcii*)	Yield losses in groundnut due to Sclerotium stem rot	3	Management of stem rot in groundnut through *Trichoderma harzaneum*	T_1- Farmers practice (Control)	1600
						T_2- Improved Practice (*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2250
						T_3 – Refined Practices (Castor cake @ 500 kg/ha)	2000

**** No. of farmers***

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justification for refinement**
1	9	10	11	12
Pearl millet	Basal application of N (40 kg), P_2O_5 (60 kg) and K_2O (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	Recommended application of the fertilizer having low incidence of insect-pests attack as well as disease. And highest yield found in refinement treatment.	N 160 : P_2O_5 60 : K_2O 60 N 160 : P_2O_5 60 : K_2O 120	Application of N 160 : P_2O_5 60 : K_2O 60 if more benefitial then other treatment
Ground-nut	Application of *Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500 kg/ha at the time of sowing reduce infestation of Sclerotium rot caused by *Sclerotium rolfsii* in groundnut	Reduce stem rot diseases Yield increase compare to control plot Good and bigger quality of pods	-	-

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**
Pearl millet	T_1 - Farmers practices (N 275 : P_2O_5 115 : K_2O 00)	3190	5825	87725	81900	1:14
	T_2 - Improved Practice (N 160 : P_2O_5 00 : K_2O 00)	2160	1925	59400	57475	1:30
	T_3 - Refined Practices (N 160 : P_2O_5 60 : K_2O 60)	3190	3881	87725	83844	1:21
	T_4 - Refined Practices (N 160 : P_2O_5 60 : K_2O 120)	3200	4337	88000	83663	1:19
Ground-nut	T_1- Farmers practice (Control)	1600		40000	26845	-
	T_2- Improved Practice (*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	2250	1750	56250	31068	1:17.7
	T_3 – Refined Practices (Castor cake @ 500 kg/ha)	2000	1500	50000	28750	1:19.15

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***

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

OFT – 1 :- Cotton : Low yield in cotton

1) Production system

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

Season : *Kharif* –2007

Size of the plot : 0.40 ha.

2) Problem definition:

i. Farmers are using phosphatic fertilizer as basal as well as top dressing.
ii. Plant needs more phosphorus at initial growth stage.
iii. Improper variety selection
iv. High labour charges
v. Lack of proper practices knowledge
vi. Plant stand per hectare
vii. Monocropping
viii. Long duration crops
ix. Injudicious use of fertilizers
x. Injudicious use of pesticides
xi. Lack of disease management

xii. Scheduling of irrigation

3) Title of the technology assessment/refinement: Judicious use of fertilizer

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

5) Details of technologsies for assessment/ refinement

Treatment			Period of application	N (kg/ha)	P_2O_5 (kg/ha)	K_2O (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	0	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**	**0**	**60**	
T_4	Refined practices – II		Basal	40	0	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**	**0**	**120**	

N.B.:- T_1, T_2, T3 & T4 are technology options 1, 2, 3 & 4 respectively.

6) Production system and thematic area : Application of DAP

7) Raw data about the 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	Bhikhubhai Nanjibhai Mungara	Dodhiya	22.4	21.8	32.2	32.3

2	Dahyalal Manjibhai Sonagara	Bed	21.3	21.4	31.7	31.7
3	Raydhanbhai Jesangbhai Jatiya	Mokhana	22.0	21.6	31.8	32.0
		Average	**31.9**	**21.6**	**31.9**	**32**

8) Final recommendation for micro level situation : Basal application of N (40 kg), P_2O_5 (60 kg) and K_2O (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 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.

<u>OFT – 2 :- Oilseeds (Groundnut)</u> : Yield losses in groundnut due to Sclerotium stem rot.

1) Production system

Variety: GG-20

Season: *Kharif*- 2007

Size of plot : 0.40 ha

2) Problem definition :

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

3) Title of technology assessed/refined:

4) Thematic area : Management of stem rot in groundnut

5) Detalis fo technologies for assessment/ ferinement

Category	Source of technology	Technologoy details	
Technology option 1	Farmer	T_1	Farmers practice (Control)

Technology option 2	Main Oilseeds Res. Station, JAU, Junagadh	T_2	*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing
Technology option 3		T_3	Castor cake @ 500 kg/ha, Drenching of *Trichoderma harzeanum* @2.5 kg/ha at 30 & 45 DAG

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

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

Far-mer No	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed / refined		
			Technology Option 1	Technology Option 2	Technology Option 3
			Yield	Yield	Yield
1	Rajeshbhai Bhagwanjibhai Ajudiya	Makwana	16.3	22.6	20.0
2	Dhanjibhai Kachrabhai Parmar	Amra	17.2	21.9	20.5
3	Mungara Vallabhbhai Haribhai	Theba	17.2	23.0	20.4
		Average	**16.9**	**22.5**	**20.3**

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.

3.2 Achievements of Frontline Demonstrations

Among the various methods of transfer of technology, frontline demonstration is one the most powerful tool. During *kharif* season of 2007 and *rabi* 2007-08 in all FLDs on different crops were conducted on the farmers' field in the adopted villages during *kharif*-07 and *rabi*-07-08. The major crops demonstrated were Groundnut (GG-5), Sesamum (G. Til-3), Castor (GCH-6), cotton (malika), Greengram (GM-4) and vegetables during *kharif*-06, while during *rabi* 2007-08 the crops demonstrated were Chickpea (Guj-2), cumin (Guj.Cum.-4) and Wheat (GW-366). 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 2006-07 and recommended for large scale adoption in the district

S. No	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of villages	No. of farmers	Area in ha
	Varietal Evaluation	Variety of Wheat, sesamum, castor, wheat, mustard	Field day, Radio talk, TV programme	15	650	2000
	Weed management	Time of thinning in bajara	Field day, Radio talk, TV programme	10	200	400
	Integrated Disease management	Use *Trichoderma* and castor cake for reducetion of Stem rot of groundnut.	Field day, Radio talk, TV programme	15	700	3000

**** 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	
1	Groundnut (GG-5)	IDM	IDM, Variety	*Kharif* 07-08	5	5	6	4	10	-
2	Mung (GM-4)	Varietal	Varietal	*Kharif* 07-08	5	5	7	3	10	-
3	Sesamum (Guj Til-2)	ICM	Variety, IDM	*Kharif* 07-08	10	10	12	8	20	-
4	Castor (GCH-6)	IDM	Variety	*Kharif* 07-08	10	10	12	8	20	-
5	Cotton (Bt. Cotton)	ICM	Variety,IPM	*Kharif* 07-08	20	20	23	17	40	-
6	Chilli (Reshampatto)	IPM	IPM	*Kharif* 07-08	5	5	2	8	10	-
7	Brinjal (GBL-1)	IPM	IPM	*Kharif* 07-08	5	5	1	9	10	-
8	Tomato (GT-2)	INM	INM	*Kharif* 07-08	5	5	2	8	10	-
9	Cabbage/ Cauliflower	INM	INM	*Rabi* 07-08	10	10	4	16	20	-
10	Wheat (GW-366)	Varietal Evaluation	Variety	*Rabi* 07-08	20	20	25	15	40	-
11	Cumin (Guj.Cum.-4)	IDM	IDM	*Rabi* 07-08	10	10	13	7	20	-
12	Chick pea (Guj-2)	IDM/IPM	IPM, Variety	*Rabi* 07-08	10	10	12	8	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					
Groundnut (GG-5)	*Kharif*	Rainfed	Medium black soil	Low	Medium	High	G'nut, Sesamum	1 to 18 July. 07	10 to 29 Oct. 07	1508	40
Mung (GM-4)	*Kharif*	Rainfed	Light soil	Low	Medium	High	Pearl-millet	10 to 28 July. 07	1 to 30 Sept. 07	1508	40
Sesamum (Guj Til-2)	*Kharif*	Rainfed	Light soil	Low	Medium	High	Pearl-millet	10 to 28 July. 07	1 to 30 Sept. 07	1508	40
Castor (GCH-6)	*Kharif*	Rainfed	Medium black soil	Low	Medium	High	cotton	6 to 14 Aug. 07	20 to 30 Jan. 08	1508	40
Cotton (Bt. Cotton)	*Kharif*	Rainfed	Medium black soil	Low	Medium	High	cotton	1 to 20 July. 07	20 to 29 Feb. 08	1508	40
Chilli (Reshampatto)	*Kharif*	Rainfed	Medium black soil	Low	Medium	High	cotton	1 to 28 July. 07	20 to 29 Jan. 08	1508	40
Brinjal (GBL-1)	*Kharif*	Rainfed	Medium black soil	Low	Medium	High	cotton	1 to 28 July. 07	20 to 29 Jan. 08	1508	40
Tomato (GT-2)	*Kharif*	Rainfed	Medium black soil	Low	Medium	High	cotton	1 to 28 July. 07	20 to 29 Jan. 08	1508	40
Cabbage/ Cauliflower	*Rabi*	irrigated	Medium black	Low	Medi-um	high	Groun-dnut	5 – 15 Oct. -07	8 – 22 Feb. 08	-	-
Wheat (GW-366)	*Rabi*	Irrigated	Medium black	Low	Medi-um	high	Groun-dnut	5 – 15 Nov. -07	8 – 22 Mar. 08	-	-
Cumin (Guj.Cum.-4)	*Rabi*	Irrigated	Light soil	Low	Medi-um	high	Groun-dnut	5 – 15 Nov. -07	1 – 20 Feb. 08	-	-
Chick pea (Guj-2)	*Rabi*	Irrigated	Medium black soil	Low	Medium	High	Pearl-millet	5 – 15 Nov. -07	10-17 Feb.08	-	-

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**
1	Groundnut	IDM, Variety	GG-5	10	5	22.5	17.5	20.0	16.25	18.75	10293	5370
2	Mung	Variety	GM-4	10	5	12.5	9.1	10.63	8.94	15.88	2188	1488
3	Sesamum	Variety, IDM	Guj.Til-2	20	10	11.25	7.6	8.75	7.5	14.29	2156	1520
4	Castor	Variety	GCH-6	20	10	36.88	23.0	27.5	22.5	18.18	6227	4530
5	Cotton	IPM, Variety	Bt. Cotton	40	20	31.5	22.1	25.0	20.63	17.50	10500	8020

6	Chilli	IPM	Local	10	5	125	115	120	110	8.33	350	1200
7	Brinjal	IPM	Local	10	5	500	475	487	452	7.17	350	1200
8	Tomato	INM	Local	10	5	562	555	558	526	5.81	250	600
9	Cabbage/ Cauliflower	INM	Local	20	10	125	117	121	113	6.18	250	600
10	Wheat	Variety	GW-366	40	20	55.0	47.8	53.75	45	16.28	1050	920
11	Cumin	Variety	Guj. Cum.-4	20	10	14	11	12.5	10	20	930	1250
12	Chick pea	IPM, Variety	Guj-2	20	10	18.5	15.6	17.5	15	14.29	1650	1100

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

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 (Gross Return / Gross Cost)
	Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
	14	15	16	17	18	19	20
Groundnut	10293	5370	50000	49625	39707	44255	1:3.86
Mung	3000	3500	26562	22343	23562	18843	1:7.85
Sesamum	3750	4200	35218	30187	31468	25987	1:8.39
Castor	6500	8000	52250	42750	45750	34750	1:7.04
Cotton	10500	11500	62375	51459	51875	39959	1:4.94
Chilli	16500	18000	130000	115000	113500	97000	1:6.88
Brinjal	19800	26000	195000	181000	175200	155000	1:8.85
Tomato	14300	19700	167625	157875	153325	138175	1:10.72
Cabbage/ Cauliflower	9800	12500	72750	68250	62950	55750	1:6.42
Wheat	13400	15000	60468	50625	47068	35625	1:3.51
Cumin	12000	13500	95312	76250	83312	62750	1:6.94
Chick pea	7000	8600	48125	41250	41125	32650	1:5.88

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	20.0	16.25	18.75
		Bio-fertilizer	PSB+ Culture				
		Fertilizer Management					
		Plant Protection	Thiram, Trichoderma, Carbendazim 0.05%, Imidacloprid @ 0.006%				
		Combination of Components					
Mung	*Kharif* - 2007	Seed (Variety)	GM-4	Rainfed	10.63	8.94	15.88
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Endosulfan 0.07%				
		Combination of Components					
Sesamum	*Kharif* - 2007	Seed (Variety)	Guj Til-2	Rainfed	8.75	7.5	14.29
		Bio-fertilizer					

		Fertilizer Management					
		Plant Protection	Carbendezim 0.05%, Endosulfan 0.07%				
		Combination of Components					
Castor	*Kharif* - 2007	Seed (Variety)	GCH-6	Rainfed	27.5	22.5	18.18
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Carbendezim 0.05%, Endosulfan 0.07%, Chlorpyriphos 0.05%				
		Combination of Components					
Cotton	*Kharif* - 2007	Seed (Variety)	Bt. Cotton	Rainfed	25.0	20.63	17.50
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	imidacloprid 0.006%				
		Combination of Components					
Chilli	*Kharif* - 2007	Seed (Variety)		Irrigated	120	110	8.33
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Imidacloprid 0.006%, Carbendazim 0.05%				
		Combination of Components					
Brinjal	*Kharif* - 2007	Seed (Variety)		Irrigated	487	452	7.17
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Imidacloprid 0.006%, Carbendazim 0.05%				
		Combination of Components					
Tomato	*Kharif* - 2007	Seed (Variety)		Irrigated	558	526	5.81
		Bio-fertilizer					
		Fertilizer Management	Mix Micronutirent				
		Plant Protection	Imidacloprid 0.006%, Carbendazim 0.05%				
		Combination of Components					
Cabbage/ Cauliflower	*Rabi* 2007 - 08	Seed (Variety)		Irrigated	121	113	6.18
		Bio-fertilizer					
		Fertilizer Management	Mix Micronutirent				
		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, sulpher,				
		Combination of Components					
Chick Pea	*Rabi* 2006 - 07	Seed (Variety)	Guj – 2	Irrigated	17.5	15	14.29
		Bio-fertilizer	PSB+ Culture				
		Fertilizer Management	20:40:0				

		Plant Protection	Endosulfan @ 0.07%,				
		Combination of Components					

Technical Feedback on the demonstrated technologies

Sl. No.	Crop	Variety	Farmers' Feed Back
1	Groundnut	GG-5	➢ 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	Mung	GM-4	➢ Synchronized maturity ➢ High yielding variety
3	Sesamum	Guj.Til-2	➢ No seed setering ➢ Selling percent is good ➢ Good quality produce having high market value
4	Castor	GCH-6	➢ Triple bloom variety having less attack of sucking pests ➢ High yielding variety
5	Cotton	Bt.Cotton	➢ Bollworm resistant ➢ High yielding variety ➢ Short duration variety
6	Chilli	Local	➢ Higher yield ➢ Resistant to anthracnose diseases ➢ Good result on pest & disease management
7	Brinjal	Local	➢ Good result on pest & disease management
8	Tomato	Local	➢ Higher yield ➢ Low incidence of pests & Disease ➢ Fruit quality is good
9	Cabbage / Cauliflower	Local	➢ Higher yield ➢ Low incidence of pests & Disease ➢ Fruit quality is good
10	Wheat	GW-496	➢ 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 & Backing, ➢ Grain quality is good for higher market price
11	Cumin	Guj. Cum.-4	➢ Diseases resistant variety ➢ High yielding variety
12	Chickpea	Guj-2	➢ Seed provided was healthy with good germination

			➢ Endosulfan 0.07% at 50 % pod formation stage gave effective control of Gram pod borer (*Helicoverpa armigera, Cutworm*) ➢ Less wilting found ➢ Variety Guj – 2 has good potential yield ➢ Branching habits of this variety is tremendous which result in higher yield ➢ Low temperature at flowering stage gives positive effect on yield ➢ Wilt resistant variety

Farmers' reactions on specific technologies

Sl. No.	Crop	Variety	Farmers' Reaction
1	Groundnut	GG-5	➢ 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	Mung	GM-4	➢ Variety is better than local variety ➢ Synchronized maturity
3	Sesamum	Guj. Til-2	➢ Seed quality is good ➢ High germination percentage ➢ Selling percent is good ➢ Good quality produce having high market value
4	Castor	GCH-6	➢ Seed provided was healthy with good germination ➢ This variety having low sucking pests ➢ Distance of 90 cms is between two rows is less
5	Cotton	Bt. Cotton	➢ Bollworm resistant ➢ High yielding variety ➢ Short duration variety
6	Chilli	Local	➢ Higher yield ➢ Resistant to anthracnose diseases ➢ Good result on pest & disease management
7	Brinjal	Local	➢ Good result on pest & disease management

8	Tomato	Local	➢ Higher yield ➢ Low incidence of pests & Disease ➢ Fruit quality is good
9	Cabbage / Cauliflower	Local	➢ Higher yield ➢ Low incidence of pests & Disease ➢ Fruit quality is good
10	Wheat	GW-496	➢ Seed provided was healthy with good germination ➢ Require termite and stem borer resistant variety.
11	Cumin	Guj. Cum.-4	➢ Diseases resistant variety ➢ High yielding variety
12	Chickpea	Guj-2	➢ Seed provided was healthy with good germination ➢ Endosulfan 0.07% at 50 % pod formation stage gave effective control of Gram pod borer (*Helicoverpa armigera, Cutworm*) **1.** Less wilting found

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					
4	Training for Extension functionaries	1		22	-	22	
	Mung						
1.	Field days	3		40	13	53	
2.	Training for farmers	1		20	-	20	
3.	Radio Talk	1					
4	Training for Extension functionaries	1		22	-	22	
	Sesamum						
1.	Field days	1		22	5	27	
2.	Training for farmers	1		10	-	10	
3.	Media coverage (Radio Talk)	1					
4	Training for Extension functionaries						
	Castor						
1.	Field days	3		44	18	62	

2.	Training for farmers	1		20	-	20	
3.	Radio Talk	1					
4	Training for Extension functionaries						
	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						
	Cabbage/ Cauliflower						
1.	Field days	2		48	16	64	
2.	Training for farmers	1		40	-	40	
3.	Media coverage (Radio Talk)	1					
4.	Television Programme	1					
5.	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	

	Chickpea						
1.	Field days	3		48	13	61	
2.	Training for farmers	2		20	-	20	
3.	Media coverage (Radio Talk)						
4	Training for Extension functionaries						

c. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters /indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
-	-	-	-	-	-	-	-	-

**** Field efficiency, labour saving etc.***

(ii) Livestock Enterprises

Enter-prise	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	5	64	10	74	15	2	17	79	12	91
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems	1	12	4	16	0	0	0	12	4	16
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Water management				0			0	0	0	0
Seed production	1	8	3	11	4	2	6	12	5	17
Nursery management				0			0	0	0	0
Integrated Crop Management	4	47	12	59	4	1	5	51	13	64
Fodder production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Total	11	131	29	160	23	5	28	154	34	188
II Horticulture				0			0			0
a) Vegetable Crops				0			0	0	0	0
Production of low volume and high value crops	1	11	3	14	3	2	5	14	5	19
Off-season vegetables				0			0	0	0	0
Nursery raising	1	8	2	10	3	1	4	11	3	14
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				0			0	0	0	0

(Green Houses, Shade Net etc.)										
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	1	7	2	9	2	2	4	9	4	13
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	9	3	12	3	4	7	12	7	19
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	1	9	3	12	3	4	7	12	7	19

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	5	44	13	57	14	13	27	58	26	84
III Soil Health and Fertility Management				0			0			0
Soil fertility management	1	7	2	9	4	1	5	11	3	14
Soil and Water Conservation				0			0	0	0	0
Integrated Nutrient Management	2	16	4	20	8	4	12	24	8	32
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	3	42	4	46	8	2	10	50	6	56
Nutrient Use Efficiency				0			0	0	0	0
Soil and Water Testing	1	12		12	5		5	17	0	17
Total	7	77	10	87	25	7	32	102	17	119
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	6		42	42		9	9	0	51	51
Income generation activities for empowerment of rural Women	8		86	86		28	28	0	114	114
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts	2		28	28		8	8	0	36	36
Women and child care	4		62	62		25	25	0	87	87
Total	20	0	218	218	0	70	70	0	288	288
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	214	12	226	36	10	46	250	22	272
Integrated Disease Management	9	127	5	132	18	2	20	145	7	152
Bio-control of pests and diseases	6	62	9	71	17	6	23	79	15	94
Production of bio control agents and bio pesticides	1	8	5	13	6		6	14	5	19
Total	26	411	31	442	77	18	95	488	49	537
VIII Fisheries				0			0			0
Integrated fish farming	1			0	14	8	22	14	8	22
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture	1			0	17	9	26	17	9	26
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	2	0	0	0	31	17	48	31	17	48
IX Production of Inputs at site				0			0			0
Seed Production	2	16	5	21	15	6	21	31	11	42
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	14	145	80	225	88	32	120	233	112	345
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Total	16	161	85	246	103	38	141	264	123	387
X Capacity Building and Group Dynamics				0			0			0
Leadership development	2	20	3	23	4	2	6	24	5	29
Group dynamics				0			0	0	0	0
Formation and Management of SHGs	3	24	7	31	5	2	7	29	9	38
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	5	44	10	54	9	4	13	53	14	67
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	**92**	**868**	**396**	**1264**	**282**	**172**	**454**	**1150**	**568**	**1718**
(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	2		2	10	3	13
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	10		62	62		6	6	0	68	68
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	1			0	7		7	7	0	7
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	12	8	65	73	9	6	15	17	71	88
(C) Extension Personnel				0			0			0
Productivity enhancement in field crops	6	108	12	120	32	4	36	140	16	156
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0

Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Any other (Pl. Specify)				0			0	0	0	0
TOTAL	6	108	12	120	32	4	36	40	76	156
Grand Total	**110**	**984**	**473**	**1457**	**323**	**182**	**505**	**1207**	**715**	**1962**

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	28	4	32	9	4	13	37	8	45
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0			0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0

Water management				0			0	0	0	0
Seed production				0			0			0
Nursery management				0			0	0	0	0
Integrated Crop Management	4	56	12	68	14	6	20	70	18	88
Fodder production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Total	6	84	16	100	23	10	33	107	26	133
II Horticulture				0			0			0
a) Vegetable Crops				0			0	0	0	0
Production of low volume and high value crops	1	15	4	19	3	2	5	18	6	24
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits				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				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation crops				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	2	14	3	17	15	4	19	29	7	36
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	29	7	36	18	6	24	47	13	60
III Soil Health and Fertility Management				0			0			0
Soil fertility management				0			0	0	0	0
Soil and Water Conservation				0			0	0	0	0
Integrated Nutrient Management	2	22	9	31	9	6	15	31	15	46
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	2	22	9	31	9	6	15	31	15	46
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	3		37	37		24	24	0	61	61
Income generation activities for empowerment of rural Women	4		96	96		28	28	0	124	124
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts	1		12	12		8	8	0	20	20
Women and child care	2		16	16		35	35	0	51	51
Total	10	0	161	161	0	95	95	0	256	256
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	12	192	36	228	25	7	32	217	43	260
Integrated Disease Management	7	118	16	134	13	2	15	131	18	149
Bio-control of pests and diseases	2	16	4	20	6	3	9	22	7	29
Production of bio control agents and bio pesticides				0			0	0	0	0
Total	21	326	56	382	44	12	56	370	68	438
VIII Fisheries				0			0			0
Integrated fish farming	2			0	29	12	41	29	12	41
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture	1			0	22	5	27	22	5	27

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	0	0	0	51	17	68	51	17	68
IX Production of Inputs at site				0			0			0
Seed Production				0			0	0	0	0
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	24	320	82	402	78	75	153	398	157	555
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Total	24	320	82	402	78	75	153	398	157	555
X Capacity Building and Group Dynamics				0			0			0
Leadership development	1	12	2	14	3	2	5	15	4	19
Group dynamics				0			0	0	0	0
Formation and Management of SHGs	2	26	4	30	5	2	7	31	6	37
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	38	6	44	8	4	12	46	10	56
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	72	819	337	1156	231	225	456	1050	562	1612
(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		24	24		6	6	0	30	30
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	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	1			0	11	3	14	11	3	14
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Small scale processing				0			0	0	0	0

Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
TOTAL	4	0	24	24	23	13	36	23	37	60
(C) Extension Personnel				0			0			0
Productivity enhancement in field crops	1	14		14	6		6	20	0	20
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Any other (Pl. Specify)				0			0	0	0	0
TOTAL	1	14	0	14	6	0	6	6	12	20
Grand Total	**77**	**833**	**361**	**1194**	**260**	**238**	**498**	**1079**	**611**	**1692**

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	7	92	14	106	24	6	30	116	20	136
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	1	12	4	16	0	0	0	12	4	16
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0
Seed production	1	8	3	11	4	2	6	12	5	17
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	8	103	24	127	18	7	25	121	31	152
Fodder production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Total	17	215	45	260	46	15	61	261	60	321
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	2	26	7	33	6	4	10	32	11	43
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	8	2	10	3	1	4	11	3	14
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	1	7	2	9	2	2	4	9	4	13
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	1	9	3	12	3	4	7	12	7	19
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	3	23	6	29	18	8	26	41	14	55
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	8	73	20	93	32	19	51	105	39	144
III Soil Health and Fertility Management	0	0	0	0	0	0	0	0	0	0

Soil fertility management	1	7	2	9	4	1	5	11	3	14
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	4	38	13	51	17	10	27	55	23	78
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	3	42	4	46	8	2	10	50	6	56
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	1	12	0	12	5	0	5	17	0	17
Total	9	99	19	118	34	13	47	133	32	165
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	9	0	79	79	0	33	33	0	112	112
Income generation activities for empowerment of rural Women	12	0	182	182	0	56	56	0	238	238
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	3	0	40	40	0	16	16	0	56	56
Women and child care	6	0	78	78	0	60	60	0	138	138
Total	30	0	379	379	0	165	165	0	544	544
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	22	406	48	454	61	17	78	467	65	532
Integrated Disease Management	16	245	21	266	31	4	35	276	25	301
Bio-control of pests and diseases	8	78	13	91	23	9	32	101	22	123
Production of bio control agents and bio pesticides	1	8	5	13	6	0	6	14	5	19

Total	47	737	87	824	121	30	151	858	117	975
VIII Fisheries	0	0	0	0	0	0	0	0	0	0
Integrated fish farming	3	0	0	0	43	20	63	43	20	63
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	2	0	0	0	39	14	53	39	14	53
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	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Total	5	0	0	0	82	34	116	82	34	116
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Seed Production	2	16	5	21	15	6	21	31	11	42
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	38	465	162	627	166	107	273	631	269	900
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0

Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Total	40	481	167	648	181	113	294	662	280	942
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0	0
Leadership development	3	32	5	37	7	4	11	39	9	48
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	5	50	11	61	10	4	14	60	15	75
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	8	82	16	98	17	8	25	99	24	123
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	**164**	**1687**	**733**	**2420**	**513**	**397**	**910**	**2200**	**1130**	**3330**
	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	2	0	2	10	3	13
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	12	0	86	86	0	12	12	0	98	98
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	2	0	0	0	18	3	21	18	3	21
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0

TOTAL	**16**	**8**	**89**	**97**	**32**	**19**	**51**	**40**	**108**	**148**
(C) Extension Personnel	0	0	0	0	0	0	0			0
Productivity enhancement in field crops	7	122	12	134	38	4	42	160	16	176
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
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	7	122	12	134	38	4	42	46	88	176
Grand Total	**187**	**1817**	**834**	**2651**	**583**	**420**	**1003**	**2286**	**1326**	**3654**

Datewise details of training programmes given in Annexure – IV

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	No. of Course	Dura-tion (days)	No. of Participants									No. of persons employed else where
					General			SC/ST			Total			
					Male	Female	Total	Male	Female	Total	Male	Female	Total	
Integrated	Mix farming	Integrated farming	1	1	8	3	11	2	0	2	10	3	13	2
Vegetable	Value addition in vegetable	Packaging & Preservation of vegetables	6	1	0	39	39	0	5	5	0	44	44	2
Fruit	Value addition in fruits	Preparation of Jam - Jelly & pickles	6	1	0	47	47	0	7	7	0	54	54	3
Fisheries	Income generation	Ornamental fisheries	1	1	0	0	0	12	4	16	12	4	16	1
Fisheries	Income generation	Fresh prawn culture	2	1	0	0	0	18	3	21	18	3	21	2

*training title should specify the major technology /skill transferred

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

Sl. No.	Title	Thematic area	Month	Dura-tion	No. of cou-rse	Total No. of participants									Sponsoring Agency
						Other			SC/ ST			Total			
						Male	Fe-male	Total	Male	Fe-male	Total	Male	Fe-male	Total	
1	Isopom (Oilseeds)	IPM /INM /ICM	Oct. 07	1	16	326	124	450	162	86	248	488	210	698	DAO
			Oct. 07	1	1	24	6	30	15	3	18	39	9	48	DAO
2	Cotton Mini-mission	IPM /INM /ICM	Nov. 07	1	10	200	80	280	150	50	200	350	130	480	DAO
	Isopom (Oilseeds)	IPM/ICM of oilseeds cropa	Nov. 07	1	11	210	95	305	138	64	174	248	159	407	DAO
3	IPM in G'nut	IPM /INM /ICM	Dec. 07	1	1	15	7	22	5	3	8	20	10	30	Guj. Life Sci. Ltd.
4	IPM/ INM in vegetable & Field Crops	IPM /INM /ICM	Jan. 08	3	1	14	7	21	2	1	3	16	8	24	IFFCO
5	IPM in Garlic-onion	IPM /INM /ICM	Jan. 08	2	2	26	12	38	6	4	10	32	16	48	DAO/ATMA
6	IPM /ICM in g'nut & Cotton	IPM /INM /ICM	Jan. 08	1	1	25	5	30	10	5	15	35	10	45	DKV College
7	IPM in Filed crops	IPM /INM /ICM	Jan. 08	1	1	36	7	43	4	3	7	40	10	50	Bank Of Baroda
	IPM & ICM of cereal crops	IPM/INM/ ICM	Jan. 08	1	14	320	190	510	180	140	220	500	330	830	DAO

8	Vegetable cultivation	IPM /INM /ICM	Feb. 08	3	2	46	24	70	15	5	20	61	29	90	Dy.Dir. Hort
9	Cereal crop cultivation	IPM /INM /ICM	Feb. 08	1	2	28	12	40	5	3	8	33	15	48	DAO
10	Vermi-compost	Vermi-compost	Feb. 08	1	3	45	15	60	10	5	15	55	20	75	DRDA
11	Cereal Crop Cultivation	IPM /INM /ICM	Mar. 08	1	5	112	8	120	12	3	15	124	11	135	DAO
12	Isopom (Oilseeds)	IPM /INM /ICM	Mar. 08	1	3	45	10	55	10	5	15	55	15	70	DAO
13	Fruit & Veg. Preservation	Preser-vation	Apr. 08	2	3	0	36	36	0	12	12	0	48	48	Dy.Dir. Hort.
14	Organic farming	Fruit-Vegetable Prod./ Plant Prot.	May 08	1	3	42	6	48	6	2	8	56	8	64	DRDA
15	INM in field crops	IPM /INM /ICM	Jun. 08	1	1	23	3	26	7	2	9	30	5	35	GSFC
16	Organic Farming	Vermi-compost	Jul. 08	1	1	15	0	15	4	0	4	19	0	19	DRDA
17	IPM/ ICM of field crops	IPM /INM /ICM	Aug. 08	1	16	320	104	424	128	80	148	448	184	632	DAO
18	Food Preservation	Vegetable & friot presser.	Sept.	1	20	0	450	450	0	230	230	0	680	680	DRDA
	Total														

Rural Youth

Sl. No.	Title	Thematic area	Month	Dura-tion	No. of cou-rse	Total No. of participants									Sponsorin Agency
						Other			SC/ ST			Total			
						Male	Fe-male	Total	Male	Fe-male	Total	Male	Fe-male	Total	
1	Preservation of Fruit & Vegetable	Food Preservation	Jan. 08	1	1	0	15	15	0	4	4	0	19	19	DKV Colle
2	Package & Preservation of vegetables	Value addition	Apr. 08	1	2	0	28	28	0	8	8	0	36	36	Dy.Dir. Ho
3	Preparation of Jam - Jelly & pickles	Value addition in fruit	Apr. 08	1	3	0	45	45	0	15	15	0	60	60	Dy.Dir. Ho

Extension Personnels

Sl. No.	Title	Thematic area	Month	Dura-tion	No. of cou-rse	Total No. of participants									Sponsorin Agency
						Other			SC/ ST			Total			
						Male	Fe-male	Total	Male	Fe-male	Total	Male	Fe-male	Total	
1	Ravi pre seasonal training	Increase knowledge of crop production	Oct. 07	1	1	16	0	16	7	0	7	23	0	23	DAO
2	Training for cotton minimission	Reduce cost of cultivation	Nov. 08	2	1	18	0	18	12	0	12	30	0	30	DAO
3	Training on plant protection of saurashtra crops	Reduce cost of cultivation	Jan. 08	1	1	35	0	35	12	0	12	47	0	47	Dy.Dir. Ag (Ext.)

4	IPM and Advance production technology of Fruit, vegetables & spices crops	Horticultural crops Development	Feb. 08	3	1	25	0	25	5	0	5	30	0	30	Dy.Dir. Ho

3.4. Extension Programmes (including activities of FLD programmes) For Farmers

Nature of Extension Programme	No. of Progr-ammes	No. of Participants								
		General			SC / ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	30	309	165	474	65	16	81	374	181	555
Kisan Mela	1	5000	2000	7000	1500	500	2000	6500	2500	9000
Kisan Ghosthi	15	1902	760	266	566	195	761	2468	955	3423
Exhibition	-	-	-	-	-	-	-	-	-	-
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	5	60	45	105	35	25	60	95	70	165
Farmers Seminar	83	1317	560	1877	184	78	262	1501	638	2139
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	19	279	78	357	89	25	114	368	103	471
Lectures delivered as resource persons	91	1250	650	1900	350	251	601	1600	901	2501
Newspaper coverage	35	-	-	-	-	-	-	-	-	-
Radio talks	5	-	-	-	-	-	-	-	-	-
TV talks	10	-	-	-	-	-	-	-	-	-
Popular articles	2	-	-	-	-	-	-	-	-	-
Extension Literature	15			20500			300			23500
Advisory Services	-	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	440	783	45	828	250	19	369	1033	64	1097
Farmers visit to KVK	122	1103	480	1583	312	89	401	1418	569	1984
Diagnostic visits	13	109	18	127	43	7	50	152	25	177
Exposure visits	5	65	0	65	45	0	45	110	0	110
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	4660			3467			1193			4660
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	12	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	12	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)										
Female groups	13	0	127	127	0	50	50	0	177	177
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-

Total	**5588**	**12177**	**4928**	**38676**	**3439**	**1255**	**6267**	**15619**	**6183**	**49959**

For extension personnel

Nature of Extension Programme	No. of Progr-ammes	No. of Participants								
		General			SC / ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day										
Kisan Mela	1	35	25	60	15	25	40	50	50	100
Kisan Ghosthi										
Exhibition	-	-	-	-	-	-	-	-	-	-
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	3	15	10	25	10	5	15	25	15	40
Farmers Seminar										
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	19	279	78	357	89	25	114	368	103	471
Lectures delivered as resource persons	7	94	0	94	36	0	36	130	0	130
Newspaper coverage	35	-	-	-	-	-	-	-	-	-
Radio talks	5	-	-	-	-	-	-	-	-	-
TV talks	10	-	-	-	-	-	-	-	-	-
Popular articles	2	-	-	-	-	-	-	-	-	-
Extension Literature	15									
Advisory Services	-	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field										
Farmers visit to KVK										
Diagnostic visits										
Exposure visits										
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic	100			65			35			100
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Female groups										

Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
Total	**197**	**423**	**113**	**601**	**150**	**55**	**240**	**573**	**168**	**841**

Extension Activities under ATMA project

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Formation of groups	390	7102	620	7722	-	-	-	7102	620	7722
Demonstrations	2062	1635	191	1826	-	-	-	1635	191	1826
District Training	12	3031	569	3600	90	10	100	3121	579	3700
Village Training	47	1390	548	1938	110	30	140	1500	578	2078
Exposure visits	6	248	50	298	10	5	15	258	55	313
Inter State Exposure Visit	1	55	-	55	2	-	2	57	-	57
Capacity Building of the Groups	30	620	65	685	-	-	-	620	65	685
Organizing Kishan Mela	1	9022	4165	13187	221	75	96	9243	4240	13483
Field Days	6	465	77	544	25	7	32	490	89	574
Dissemination of Technology through Printed Leaflet	35	32025	2050	34075	205	55	260	32230	2105	34335
F-S interaction	7	2517	615	3132	-	-	-	2517	615	3132
Kisan Gosthi	6	826	124	940	-	-	-	826	124	940
FAIC (Dhrol & Bhanvad)	2	240	50	290	-	-	-	240	50	290
Farm School	**30**	**720**	**65**	**785**	**-**	**-**	**-**	**720**	**65**	**785**
	2635	**59896**	**9189**	**69085**	**663**	**182**	**845**	**60559**	**9376**	**128223**

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	397.90	945012.5	
OILSEEDS	Groundnut	GG-5	65.10	244150	105
	Groundnut	GG-20	12.60	47250	15
	Sesamum	Guj.Til.-10	0.29	2543	41
PULSES	Greengram	GM-4	1.48	3891	22
	Blackgram	Guj.-1	6.04	6040	42
VEGETABLES					
FLOWER CROPS					

OTHERS (Specify)	Vermi culture	*Icenea fatida*	0.32	6400	6
	Vermi compost		160.75	48225	

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	397.90	945012.5	
2	OILSEEDS	77.99	293943	161
3	PULSES	7.52	9931	64
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS (Vermi Culture)	0.32	6400	6
	Vermi compost	160.75	48225	
TOTAL		**644.48**	**1303512**	**231**

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)		Provided to No. of Farmers
				Per plant	Total	
FRUITS	Mango	Keshar	533	60	31960	106
	Sapota	Kalipati	302	30	9060	60
	Guava		140	10	1400	28
	Custard apple		72	8	576	14
	Pomogranet		38	16	608	5
	Lemon	Kagdilime	188	10	1880	38
	Papaya	Madhubindu	215	0.50	107.5	3
SPICES						
VEGETABLES	Brinjal	Junagadh oblong	180	0.50	90	5
	Chilli	Reshampatto	85	0.50	42.5	3
FOREST SPECIES						
ORNAMENTAL CROPS						

PLANTATION CROPS	Coconut	D × T	564	20	11280	113
Others (specify)						

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	1488	45591.5	254
2	SPICES			
3	VEGETABLES	265	132.5	8
4	FOREST SPECIES			
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS	564	11280	113
7	OTHERS			
	TOTAL	**2317**	**57004**	**375**

BIO PRODUCTS

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS	-	-	-	-	-	-
BIOFERTILIZERS	Rhizobium culture	*Rhizobium* spp.	200	2	3080 (15.4/Pack)	200
BIO PESTICIDES	Trichoderma	*Trichoderma viridii + T. Harzanium*	1264	1264	126400 (100/kg)	432

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS	*Rhizobium* spp.	200	2	3080 (15.4/Pack)	200
3	BIO PESTICIDE	*Trichoderma viridii + T. Harzanium*	1264	1264	126400 (100/kg)	432
	TOTAL		**1464**	**1266**	**129480**	**632**

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.)

- nil -

(B) Literature developed/published

Item	Title	Author	Number
Research papers			
Technical Roport	SREP of ATMA Project	Dr. J.N. Nariya, Shri P.S. Gorphad, Shri G.M. Parmar	
	Annual Report of ATMA Project 06-07	Dr. J.N. Nariya, Dr. N.B. Jadav	
News letter			
Technical Bulletin			
Popular article			
Extension literature			
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.	Tarbuchni Vaigyanik Kheti	Dr. N.B. Jadav & Dr. J.N. Nariya	
6.	Vermicompost Banavva Vaparata Vividh Sendriya Padartho Ane Teni Prathmik Mavjat	Dr. V.J. Zizala & Dr. J.N. Nariya	
7.	Ghauni Vaigyanik Kheti Paddhati	Dr. V.J. Zizala & Dr. J.N. Nariya	
8.	Jamin Pruththkaran Karavi Jaminni Tandurasti Jano	Dr. V.J. Zizala & Dr. J.N. Nariya	
9.	Jamin Chakasni Ane Jaminni Tanturasti	Dr. V.J. Zizala & Dr. J.N. Nariya	
10.	Rasayanik Khataroma Poshaktatvonu Praman (%), Dar Ane Teno Karyaxam Upyog	Dr. V.J. Zizala & Dr. J.N. Nariya	
11.	Xariya Ane Amliya Jamin Vara Vistaro	Dr. V.J. Zizala & Dr. J.N. Nariya	

12.	Padtar Jaminme Jinga Uchcher Dwara Arthik Saddharta	Dr. J.N. Thaker R.P. Vavaiya, Dr. J.N. Nariya	
13.	Padtar Jaminna Vikashma Lokoni Sahbhagidarinu Yogdan	Dr. J.N. Nariya & Dr. N.B. Jadav	
14.	Jalstrav Yojananu Ayojan	Dr. J.N. Nariya & Dr. N.B. Jadav	
15.	Jalstrav Vistarma Jal, Jaminni Vyavastha	Dr. N.B. Jadav	
16.	Batatani Vaigyanik Kheti Padhdhati	Dr. J.N. Nariya & Dr. N.B. Jadav	
17.	Kapasma Chusiya Jivatonu Niyantran	Dr. K.P. Baraiya Dr. J.N. Nariya	
18.	Suxma Tatvo	Dr. V.J. Zizala Dr. J.N. Nariya	
19.	Sukikhetima Pak Utpadan Vadharva Matena Vaigyanik Siddhanto	Dr. K.P. Baraiya Dr. J.N. Nariya	
20.	Jiruni Vaigyanik Kheti Padhdhti	Dr. K.P. Baraiya Dr. J.N. Nariya	
21.	Suxma Piyat Padhdhati	Dr. K.P. Baraiya Dr. J.N. Nariya	
22.	Magphalima Jivat Niyantran Vyavastha	Dr. K.P. Baraiya Dr. J.N. Nariya	
23.	Sangrahel Magphalini Kalji	Dr. K.P. Baraiya Dr. J.N. Nariya	
24.	Magphalima Rog Niiyantran Vyavastha	Dr. K.P. Baraiya Dr. J.N. Nariya	
25.	Talma Rog Jivat Niyantran Vyavastha	Dr. K.P. Baraiya Dr. J.N. Nariya	
26.	Kapasma Rog Niyntran Vyavastha	Dr. K.P. Baraiya Dr. J.N. Nariya	
27.	Kapasma Sankalit Jivat Niyantran	Dr. K.P. Baraiya Dr. J.N. Nariya	
28.	Talni Vaignanik Kehti	Dr. K.P. Baraiya Dr. J.N. Nariya	
29.	Divelani Vaignanik Kheti	Dr. K.P. Baraiya Dr. J.N. Nariya	
30.	Magphalina thadno Sado ane tenu Niyantran	Dr. K.P. Baraiya Dr. J.N. Nariya	
31.	Divelama Rog – Jivat Niyantran Vyavastha	Dr. K.P. Baraiya Dr. J.N. Nariya	
32.	Fal Pakoni Khetima Vaigyanik Abhigam	Dr. K.P. Baraiya Dr. V.J. Zizala Dr. J.N. Nariya Dr. D.K. Varu	

		Dr. A.N. Makwana	
33.	Saurashtrama Khatini Purak Avakna Abhigam TarikeShakbhajini Kheti	Dr. K.P. Baraiya Dr. N.B. Jadav Dr. J.N. Nariya Dr. K.V. Kalathiya Dr. Kanzariya	
34.	Bagayati Pakoma Kapani pachhini mavjat ane Mulya Vruddhi	Anjana M.Kanani Dr. J.N. Nariya Dr. K.M. Karetha	
35.	Saurashtrama Fuloni Kheti-Ek Ugto Vyavasay	Dr. A.V. Barad Shri Anjana M. Kanani Shri P.S. Gorphad Dr. J.N. Nariya	
36	Kapasma Mealybugnu Sankalit Niyantran	Dr. K. P. Baraiya Dr. J. N. Nariya	
	Other (please specify)		

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

1. Name of farmer : Shri Mansukhbhai Chhaganbhai mungara.
2. Name of the village : Theba.
3. District : Jamnagar.

Though groundnut is a major crop of this district in *kharif* season, some of the farmers having irrigation facilities are also growing cotton. Cotton is 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. Mansukhbhai Mungara is a progressive farmer. He is a member of "Sajiv Kheti" association of Jamnagar district. He grown cotton regularly

After the establishment of KVK, the village Theba was adopted. During last year, he visited KVK to get advice for the planning of plant protection schedule for cotton pests. He was first made aware of hazardous effect of toxic insecticides on natural enemies of insect

pest. And then he was advised to adopt IPM component with minimum use of insecticides in cotton. During last *kharif* season of 2006 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.

According to Shri Mansukhbhai Mungara, he was applying 15 to 20 sprays of various insecticides for the control of cotton pests. The total cost of plant protection was approximately 18 to 20 thousand rupees per hectare. During *kharif* 2005 he adopted

IPM components suggested to him. He required only five sprays of Endosulfan 0.07 per cent 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. 9,500/-. Thus by adopting IPM in cotton he saved more than 10,000/- rupees during *kharif* season of 2006.

approximately 1000/- Kg/ha production obtained which were remarkably higher than the other farmers those who are not adopted the recommended package of practices.

3.7.2 Adoption of disease resistant variety of cumin

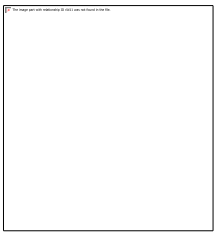
1. Name of farmer : Shri Hasmukh Damji Akbari
2. Name of the village : Theba.
3. District : Jamnagar.

In Jamnagar district cumin cultivation is increasing day by day. This crop is cultivated during *rabi* season. For successful cultivation of cumin dry and cool climate is more preferable but, Jamnagar situated on the west-north Arabian cost line and hence even in winter season relative humidity remains considerably higher which favours the disease like *Alternaria* blight and Downy mildew. Recently Gujarat Cumin-4 variety has been found tolerant against blight and therefore it has been recommended for the cultivation.

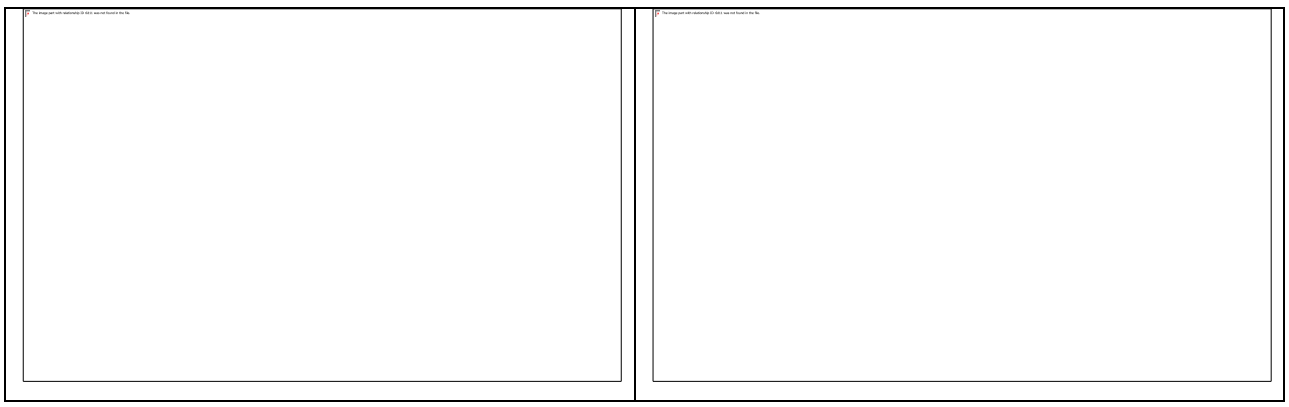
Shri Hasmukh Damji Akbari is a progressive farmer of Theba village. He is regular cultivator of the cumin. Mostly farmers of this region are using Gujarat Cumin-2 which is susceptible to blight disease. Through KVK one FLD of Gujarat Cumin-3 variety was allotted to shri Hasmukh bhai during *rabi* 2006-07. This variety performed better against the local one. During last *rabi* season i. e. 2006-07 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 field of cumin were found infected by *Alternaria bernsi* but the field of shri Hasmukh bhai 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.

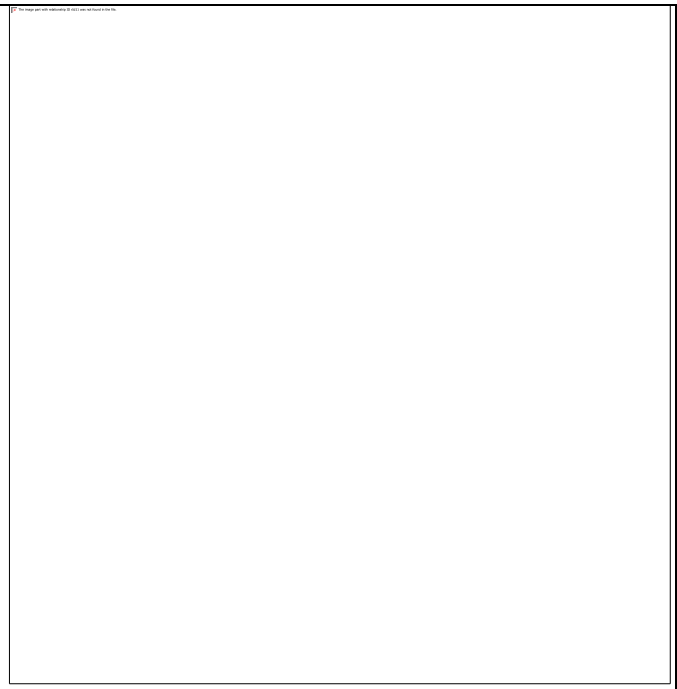


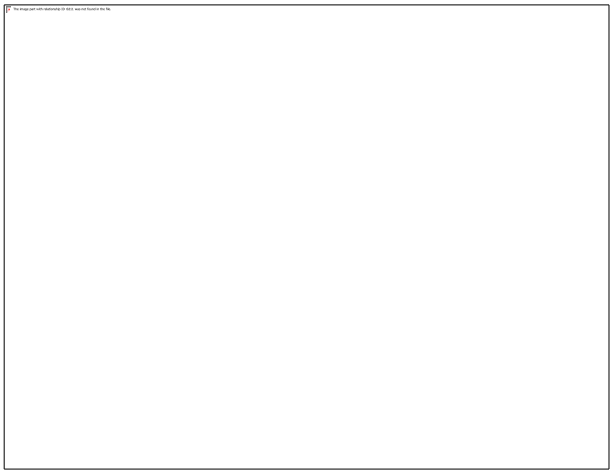
Born in a typical poverty striken farm family, Sri Ajudia is the son of Bhagvanjibhai Ajudia. He used to help his father in farming activities since his school days. He could not prosecute studies after S.S.C due to poverty. He took full control of family land since 1985

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 gave 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 under went 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 .





Ricenia fatida

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

3.8. 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 eneries which reduce pest population

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 : 15

Sr. No	Name of Village	Sr. No	Name of Village	Sr. No	Name of Village
1.	Balambhadi	6.	Chandraga	11.	Theba
2.	Amra	7.	Mokhana	12.	Ranpur
3.	Jivapar	8.	Konja	13.	Fotadi
4.	Dodhiya	9.	Makvana	14.	Harshadpur

5.	Bed	10.	Dhandha	15.	Dharampur

ii. No. of farm families selected : 1681

iii. No. of survey/PRA conducted : 15

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	299	299	35	2250
Water Samples	270	270	30	1600
Total	569	569	65	3850

4. Details of samples analyzed during 2007-08 :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	215	215	32	
Water Samples	204	204	18	
Total	419	419	50	

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	:	Pearlmillet	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 (1st to 7th std.)	50	41.67
	Medium education (8th to 10th std)	32	26.67
	High education (above 10th 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 reveled 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 necular 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 revelead that more than 50.00 per cent difference in case of spread of technology (60.00 %), change in attitude (58.33 %) and extent of awarness (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 /CIGs (20.00 %). The least difference is in casse 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 awarness

(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 verities, 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				Diffe-rence	Ranked
		Before		After			
		Frequency	Percent	Frequency	Percent		
1	Introduction of new verities	**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 verities (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 / Sprikler 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	Imparrt 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 ➢ Organizing collaborative training to farmers ➢ For collaborative off campus training ➢ For collaborative training and demonstration Programme ➢ Collaborative on campus training programme ➢ For providing hostel facilities to participants and organizing collaborative Mahila Krishi Mela
2	District Rural Development Agency, Jamnagar	
3	Deputy Director of Veterinary, Department of veterinary & Animal Husbandry, Jamnagar	
4	Deputy Director of Horticulture, Jamnagar	
5	Deputy Director of Agriculture (Training), Farmer Training Centre, Jamnagar	
6	Deputy Director of Agriculture (Extension), Jamnagar	
7	Asstt. Director of Fisheries, Jamnagar	
8	Range Forest Officer, Jamnagar	
9	Asstt. Director of GLDC, Jamnagar	
10	Estate Engineer, Department of Irrigation, Jamnagar	
11	All Taluka Development Officers, and their team at Taluka level	
12	Rajkot-Jamnagar Gramin Bank, Jamnagar	
C	**Private Corporation**	
1	Territory Manager, GSFC, Jamnagar	➢ Impart training on Agril. aspects ➢ Collaborative on/off campus training programme ➢ Sponsor training programme
2	Territory Manager, GNFC, Jamnagar	
3	Territory Manager, IFFCO, Jamnagar	
4	Reliance Industries, Dept. of Green Belt, Jamnagar	
5	Essar Oil Industries, Jamnagar	
D	**NGOs**	
1	Murlidhar Trust, Opp. Trajitpara Branch School, Bhanvad	➢ Impart training on Agril. aspects ➢ Collaborative on/off campus training programme
2	V.D.R.F. Trust, Momai Xerox, B.P. Road, Bhanvad	
3	Late J.V. Nariya Educational and Charitable Trust, 49, Modern Market, First Floor, Nr. Amber Cinema	
4	Jay Ashapura Charitable Society, Madhav Nivas, Karmachari Society, Trikonban, Dhrol (Dist.-Jamnagar)	
5	Shekhpat Jalstrav Vikas Mandal, At.-Shekhpat, Post-Aliyabada, Ta.&Dist.-Jamnagar	

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

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

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

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/-
Agricultural Technology Management Agency (ATMA)	2004-05	Government of India	8500000/-
National Fisheries Development	2007-08	National Fisheries Development Board, Hyderabad	139500/-

5.3 Details of linkage with ATMA

KVK is also works as ATMA office in our district

a) Is ATMA implemented in your district Yes/No

S. No.	Programme	Nature of linkage	Remarks
	ATMA is conducted by our office	Our office is directly linked with all Line Departments	

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.	NFDB	Training sponsherd	Allotted fund for training Rs. 139500/-

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	*Icenea fatida*	Vermi culture	0.32	20000	6400	Newly established vermi compost
2	Vermi compost Unit	2007-08	150 sq. m	*Icenea fatida*	Vermi compost	160.75	300	48225	

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	21 Nov. to 3rd Dec. 07	4th April 08	11	GW-366	Grain	397.90		945012.5	
					Fodder	69.00		-	
Pulses									
Greem Gram	4th March 08	8th May 08	0.5	GM-4	Grain	1.48		3891	
Black Gram	5th March 08	8th May 08	0.5	Guj.-1	Grain	6.04		6040	
Oilseeds									
Groundnut	27 & 28 June 07	13th Oct. 07	13	GG-5		65.10		244150	
Groundnut	28th June 07	21st Oct 07	1	GG-20		12.60		47250	
Groundnut				GG-5 & 20	Fodder	24.50		24500	
Sesamum	3rd March	8th May 08		Guj.Til.-10	Pod	0.29		2523	
Fibers	-	-	-	-	-	-	-	-	-
Spices & Plantatpion crops	-	-	-	-	-	-	-	-	-
Floriculture	-	-	-	-	-	-	-	-	

Fruits	-	-	-	-	-	-	-	-	
vegetable	-	-	-	-	-	-	-	-	
Other (Fodder)	-	-	-	-	-	-	-	-	

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	-	-	Stocking in Aug.-07

6.5 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 2007	-	-	-
November 2007	-	-	-
December 2007	-	-	-
January 2008	-	-	-
February 2008	-	-	-
March 2008	-	-	-
April 2008	-	-	-
May 2008	-	-	-
June 2008	-	-	-
July 2008	-	-	-
August 2008	-	-	-
September 2008	-	-	-

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 1st April 2008
	Kharif 2007	Rabi 2007 -08	Kharif 2007	Rabi 2007-08	
Inputs	92013	-	51433	-	40533
Extension activities	13145	-	7348	-	5797
TA/DA/POL etc.	13145	-	11021	-	2124
TOTAL	118303	-	69802	-	48454

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2008
	Kharif 2007	Rabi 2007 -08	Kharif 2007	Rabi 2007-08	
Inputs	32953	-	15645	17308	-01
Extension activities	4708	-	2235	2473	
TA/DA/POL etc.	7061	-	3352	3709	-
TOTAL	**44722**	**-**	**21232**	**23490**	**-**

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2008
	Kharif 2007	Rabi 2007 -08	Kharif 2007	Rabi 2007-08	
Inputs	75000	-	74400	-	600
Extension activities	-	-	-	-	-

TA/DA/POL etc.	-	-	-	-	-
TOTAL	**75000**	**-**	**74400**	**-**	**600**

8.5 Utilization of KVK funds during the year 2007 -08

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	**Recurring Contingencies**			
1	**Pay & Allowances**	**2900000**	**2268000**	**2722699**
2	**Traveling allowances**	90000	40000	37834
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	125000	125000	125000
B	POL, repair of vehicles, tractor and equipments	75000	75000	81424
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	75000	75000	75000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	85000	85000	85000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	90000	90000	90000
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	45000	45000	45000
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)	**3550000**	**2868000**	**3326957**
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)	**3550000**	**2868000**	**3326957**
C.	**REVOLVING FUND**			
GRAND TOTAL (A+B+C)		**3550000**	**2868000**	**3326957**

Utilization of KVK funds during the year 2008 -09 (upto Sep. 2008)(current year)

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	**Recurring Contingencies**			
1	**Pay & Allowances**	3400000	400000	1636571
2	**Traveling allowances**	100000	100000	15201
3	**Contingencies**			254429
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	160000	160000	
B	POL, repair of vehicles, tractor and equipments	95000	95000	
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	80000	80000	
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	80000	80000	
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	95000	95000	
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	65000	65000	
G	Training of extension functionaries	50000	50000	
H	Maintenance of buildings	25000		
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)			
B.	**Non-Recurring Contingencies**	**4150000**	**1180000**	
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)		**4150000**	**1180000**	**1906201**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 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 Sept. 2008	9.98615	0.34996	2.28250	8.05361

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

9.1 NATIONAL FISHERIES DEVELOPMENT BOARD

National Fisheries Development Board have financed for training in the districts expecially for the fisheries development

Training conducted

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Composit fish culture	1	2	0	2	11	12	23	13	12	25
Prqwn farming	1	0	0	0	25	0	25	25	0	25

9.2 CONSTRAINTS

a. Administrative

1. Vaccant 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 allotement of FLDs so that purchase of crtitical 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 vhicle for mandatory work of KVK. We have already very old vehicle (1992 purchase).

9.3 KRISHI MAHOTSAV (07-05-08 to 05-06-08) Total Villages of\ Jamnagar District including 10 Talukas.

Collaborative widely extension activities jointly "Millet research station &KVK Scientists with Department of Agriculture and Others line Departments".

Sl. No.	Activities	Number	Remarks
1	Gram Shabha	668	Village level
2	Kishan Credit Card Application	11455	Individual level
3	Self Help Group Application	350	FOs
4	Khet Talavadi	2089	According to site
5	Tree Sapling	542604	
6	Jyoti gram	210	Village level
7	E- gram	129	Village level
8	Drip Irrigation system	384	Individual level
9	Site identified for check dam/ gram talav	649	Village level
10	Site identified for Bari band	684	Village level
11	Kit-monitoring	10093	Individual level
12	Soil health card distribution	17547	Individual level
13	New soil sample collection	20400	Farm level
14	Guidance by agri. Scientist in kisan shibir	150176	
15	Personal guidance no. of farmers	6830	Individual level
16	Krishi Ayojan of villages	682	Village level
17	Watershed	541	According to site
18	Agri. Equipment demonstration	961	
19	Kishan Rath visit	686	Village level
20	Wall slogan	12693	Street level

KRISHI MAHOTSAV - 2008

Total farmers involvement of Jamnagar District including 10 Taluka

Sr. No.	Taluka / Block	No. of Villages	No. of Farmers
1	Jamnagar	103	8645
2	Jodiya	52	4223
3	Dhrol	42	2592
4	Kalawad	99	5321
5	Lalpur	78	5737
6	Jamjodhpur	70	5595
7	Bhanvad	56	6929
8	Kalyanpur	65	4697
9	Jam Khambhaliya	86	5329
10	Dwarka	40	1963
	TOTAL	695	51031

Base line Taluka-wise existing cropping pattern in Jamnagar District

Sr. No.	Taluka	Total No. of Village	Cotton	Groundnut	Castor	Sesamum	Pearl Millet	Sorghum	Onion	Wheat	Cumin	Garlic	Ajwa	Vegetnables	Pulses / Mix Crop
1	Lalpur	78	78	78	51	24	09	--	-	-	-	-	-	-	-
2	Jamjodhpur	70	70	70	54	45	11	-	10	21	37	06	02	04	02
3	Kalyanpur	65	40	62	-	02	10	02	-	02	03	-	-	03	-
4	Dhrol	42	41	42	13	15	02	-	-	05	02	02	-	-	03
5	Kalawad	100	100	100	17	19	01	-	-	16	11	02	-	-	04
6	Jamnagar	100	96	92	50	32	23	09	01	50	03	10	-	17	69
7	Jodiya	52	50	48	02	18	10	05	01	09	09	-	15	01	10
8	Bhanvad	58	55	57	05	08	22	-	06	12	33	03	-	08	02
9	Jamkham-bhaliya	86	73	86	04	17	36	01	-	68	28	02	03	16	04
10	Dwarka	40	12	36	-	33	36	30	-	-	-	-	-	01	-
	Total	**691**	**615**	**671**	**196**	**213**	**160**	**47**	**18**	**183**	**126**	**25**	**20**	**50**	**94**
	Per cent	**-**	**89**	**97**	**28**	**30**	**23**	**6**	**2**	**26**	**18**	**3**	**2**	**7**	**13**

ANNEXURE – I

PROCEEDING OF THE 3rd SCIENTIFIC ADVISORY COMMITTEE MEETING OF KRISHI VIGYAN KENDRA, JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR HELD ON 2nd NOVEMBER, 2007

The third Scientific Advisory Committee meeting of Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar was held at Museum Hall, K.V.K., J.A.U., Jamnagar on 2nd November, 2007.

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	Research Scientist (Millet), Main Millet Research Station, Junagadh Agricultural University, Jamnagar- 361 006.	Member
3	Research Officer, Fisheries Research Centre, Junagadh Agricultural University, Okha, Dist: Jamnagar.	Member
4	District Agricultural Officer, District Panchayat, Jamnagar	Member
5	Asstt. Director of Fisheries, Sumer club road, Jamnagar	Member
6	Karansingh Solanki, Station Director, Doordarshan Kendra, Aji Dam Road, Rajkot	Member
7	Station Director, All India Radio, B/h. Galaxy Cinema, Rajkot	Member
8	Shri. Kantilal Bhagwanjibhai Ajudia, At. Makwana, Ta. & Dist.- Jamnagar.	Member
9	Shri. Mansukhbhai Chaganbhai Mungara ,AT & Po. Theba, Dist. Jamnagar.	Member
10	Valjibhai Govindbhai Parmar, Vadivistar, At.- Jivapar Ta. & Dist.- Jamnagar	Member
11	Jenamben Alibhai Safiya, C/o. Alibhai Sumarbhai Safiya, At. Rabarika, Ta.- Jamjodhpur, Dist.-Jamnagar	Member
12	Smt. Jiviben Ramjibhai MakwanaC/o. Ramjibhai Tapubhai Makwana, At & Po. Dhandha, Tal. & Dist. Jamnagar	Member
13	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Tadghadiya (Rajkot)	Invitee
14	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Amreli	Invitee
15	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Nana Kandhasar	Invitee
16	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Jamnagar - 361 006	Member
17	Dr. K. P. Baraiya, SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
18	Dr. N. B. Jadav, SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
19	Dr. V. J. Zizala, SMS, KVK, J.A.U, Jamnagar- 361 006.	Member

20	Dr. J. N. Thaker, SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
21	Sodha Dashrathsingh A.; At.- Dhandha, Ta. & Dist.- Jamnagar	
22	Ramjibhai Tapubhai Makwana, At & Po. Dhandha, Tal. & Dist. Jamnagar	Member
23	Dr. A.K. Joshi, Asso. Res. Sci., Millet Research Station, JAU, Jamnagar	Invitee
24	Dr. H.J. Joshi, Res. Sci., Millet Research Station, JAU, Jamnagar	Invitee
25	Shri B.D. Bunsa, Asstt. Res. Sci., Millet Research Station, JAU, Jamnagar	Invitee
26	Shri H.K. Kandoriya, Asstt. Res. Sci., Millet Research Station, JAU, Jamnagar	Invitee
27	Shri S.D. Atara, Asstt. Res. Sci., Millet Research Station, Jamnagar	Invitee
28	Dr. V.V. Rajani, Asso. Res. Sci., Millet Research Station, Jamnagar	Invitee
29	Shri P.S. Gorfad, Programme Asstt. KRISHI VIGYAN KENDRA, JAU, Jamnagar	Invitee
30	Shri A.K. Maheriya, Farm Manager, KRISHI VIGYAN KENDRA, JAU, Jamnagar	Invitee
31	Shri Alibhai Sumarbhai Safiya, At. Rabarika, Ta.- Jamjodhpur, Dist.- Jamnagar	Invitee

Dr. K. P. Baraiya, Subject Matter Specialist, Krishi Vigyan Kendra, 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. A. M. Parakhiya, 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. Dr. C. J. Dangariya, Research Scientist, Millet Research Station, J.A.U., Jamnagar 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 2nd SAC meeting, progress report 2006-07 and technical programme (Action Plan 2007-08).

Committee made the following recommendations after active interaction.

1. It was suggested to take up the pot trial research on cotton to find out the effect of $ZnSO_4$ on reddening of cotton leaves.
2. There is need to arrange more trainings for value addition in milk, fish & flower
3. It was felt that there is need to collect database for in-land fisheries in the district.
4. Training should be arranged for preparation of Sea weed Greeting cards

5. Observe rust incidence on groundnut at weekly interval and correlate with weather parameters
6. Field trials for direct application of seaweed be arranged on various crops of district.
7. Take soil sample from each plot of farm before sowing of crop in every season as well as irrigation water sample in every month for chemical analysis.
8. Periodically measure growth rate of fish development in pond of KVK
9. Write in advance to the concern suppliers for seed requirement of farm as well as FLD.
10. Carried out survey of saline and alkaline soils in the district
11. Training should be arrange on burning problems of farmers *viz.*, mealybug, leaf reddning, sucking pests nutritional management and Para-wilt in Bt cotton; tikka, Rist & *Scleritium* rot in groundnut, etc.
12. Presentation for FLD should be with photographs along with area, production, productivity & name of village.

After above suggestions from the house Dr. A. M. Parakhiya, 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. V.J. Zinzala, 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 2007-08

Std. week	Temp. ºC Max.	Temp. ºC Min.	R.H. Morning	R.H Evening	Rainfall mm	Rainy days
22	36.1	25.4	80	47	000.0	--
23	35.4	26.0	82	61	005.0	1
24	37.1	26.3	82	56	008.0	1
25	36.2	25.1	90	62	032.5	4
26	31.9	24.2	93	72	044.5	3
27	30.0	24.9	91	77	414.0	3
28	31.6	24.6	90	69	001.5	--
29	33.4	23.9	91	68	019.5	2
30	32.6	24.3	93	76	025.5	3
31	31.1	23.6	96	83	129.5	5
32	27.8	22.0	96	88	433.0	6
33	30.6	24.3	89	70	002.0	-
34	30.3	23.6	97	76	070.0	2
35	30.1	24.1	97	83	208.0	6
36	31.6	24.1	97	72	057.0	1
37	31.7	23.6	94	66	000.0	-
38	32.9	23.6	94	63	028.0	2
39	31.7	23.1	94	68	030.0	1
40	32.5	21.3	92	52	000.0	-
41	32.7	22.1	91	54	000.0	-
42	34.1	19.8	86	29	000.0	-
43	33.0	18.9	81	43	000.0	-
44	34.5	21.5	72	42	000.0	-
45	33.8	19.8	90	36	000.0	-
46	32.4	15.5	86	28	000.0	-
47	31.6	12.5	76	26	000.0	-
48	29.9	16.1	77	36	000.0	-
49	27.6	16.3	67	40	000.0	-
50	25.5	14.4	70	35	000.0	-
51	26.3	15.6	68	41	000.0	-
52	26.4	12.3	85	28	000.0	-
1	24.2	10.5	70	36	000.0	-
2	25.6	12.4	76	41	000.0	-

3	25.4	10.3	79	35	000.0	-
4	22.2	8.4	71	24	000.0	-
5	24.2	11.1	85	38	001.0	-
6	20.5	6.9	71	24	000.0	-
7	26.9	10.8	73	24	000.0	-
8	29.6	13.4	82	22	000.0	-
9	31.0	13.8	76	24	000.0	-
10	31.2	17.2	89	35	000.0	-
11	33.5	19.4	76	34	000.0	-
12	33.9	18.5	94	29	000.0	-
13	33.7	20.1	90	41	000.0	-
14	31.8	21.0	85	50	000.0	-
15	33.1	21.0	93	51	000.0	-
16	34.5	20.8	91	45	000.0	-
17	36.9	23.0	93	35	000.0	-
18	35.8	25.2	87	50	000.0	-
19	34.5	25.5	84	64	000.0	-
20	34.9	25.6	85	61	000.0	-
21	35.2	24.8	82	60	000.0	-
22	36.1	27	81	52	000.0	-
23	34.7	27.0	83	62	015.5	2
24	32.0	26.3	90	68	289.0	3
25	34.0	27.1	85	59	000.0	-
26	33.8	26.7	88	67	021.5	1
27	31.8	26.3	87	66	013.0	1
28	31.9	26.5	86	65	000.0	-
29	32.7	26.0	86	62	000.0	-
30	32.8	25.7	89	67	029.0	1
31	30.1	25.3	95	79	029.0	4
32	30.0	25.4	92	79	010.0	1
33	28.4	24.4	96	77	046.0	2
34	31.1	24.0	92	61	000.0	-
35	31.6	23.8	90	61	000.0	-
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	Mungra Villabhbhai Haribhai	Theba	18.75
2	Mungra Tulsibhai Bhagabhai	Theba	17.5
3	Changani Kanji Arjan	Theba	18
4	Harsoda Shivji Nanji	Theba	20.5
5	Changani Naran Raiya	Theba	18.25
6	Mansukhbhai Damjibhai	Makvanan	21
7	Rajesh Bhagvanjibhai	Makvanan	22.5
8	Rancchodbhai Premjibhai	Makvanan	19
9	Parsottam Ravji	Makvanan	18.75
10	Panchabhai Khodabhai	Makvanan	20.75
11	Pujabhai Govindbhia	Makvanan	22.5
12	Hirjibhai Bhagwanjibhai	Makvanan	18.25
13	Ganshyambhai Ragvajibhai	Makvanan	18.75
14	Dhanjibhai Kachara Parmar	Amara	19.25
15	Kanjibhai Velabhai Parmar	Amara	20.75
16	Hasmukhbhai Mepabhai	Fotadi	21.25
17	Pravin Malde	Fotadi	22.25
18	Arvind Malde	Fotadi	22
19	Muriben Karsanbhai	Fotadi	22.5
20	Dhirubhai Mepabhai	Fotadi	17.5

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

2. Mung

1) Production system :- Rainfed

2) Problem Definition :-
3) Title of the technology demonstrated :-Varietals assessment
4) Thematic area :- Variety
5) Year of release of the technology or Year of assessment :- Year - 2000
6) Source of technology :- Pulse Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of the farmers	Name of village	Data on the performance indicators of the technology demonstrated
			Yield
1	Parsotam Trikambhai	Amara	9.25
2	Maganbhai Mohanbhai Ghatodia	Jamuda	10
3	Vanrajsinh Lalubha	Dhundha	10.25
4	Dasrathsinh Anopsinh	Dhundha	12.5
5	Popat Bhura Pragada	Dhundha	12
6	Rajesh Valjibhai	Dhundha	9
7	Ranjitsinh Surubha	Dhundha	9.5
8	Jitubha Lalubha	Dhundha	9.3
9	Narsibhai Nanjibhai	Makvana	12
10	Rambhben Bhagwanjibha	Makvana	12.5

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

3. Sesamum

1) Production system :-Rainfed
2) Problem Definition :-
3) Title of the technology demonstrated :-Integrated Crop Management in sesamum
4) Thematic area :-Integrated Crop Management
5) Year of release of the technology or Year of assessment :- Year - 1985
6) Source of technology :- Sesamum research station, JAU, Amreli
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	Jamanbhai Dayabhai	Makvana	9
2	Mansukhbhai Nanjibhai	Makvana	8.5
3	Kantilal Dhanabhai	Amara	9
4	Ratilal Kanjibhai	Amara	8.75
5	Jagatsinh Jivubha	Bed	9.75
6	Jamnbhai Dhanjibha	Bed	10.5
7	Devjibhai Kanjibhai	Bed	11
8	Aubbhai Ishabhai	Bed	11.75
9	Rajesbhai Valjibhia	Dhundha	7.5
10	Vikramsinh Akhubha	Dhundha	8.5
11	Parbat Tapubha	Dhundha	8.2
12	Valjibhai Nathubhai	Dhundha	8

13	Samatsang Dhirubha	Dhundha	7.6
14	Parbat Tapubhai Makvanan	Dhundha	8
15	Mulubhai Veljibhia Tambolia	Dhundha	8.25
16	Tapubha Nathubhai	Dhundha	7.45
17	Mahendrsinh Vibhaji	Dhundha	7.6
18	Kkhodubha Surubha	Dhundha	7.8
19	Kiritsinh V. Sodha	Dhundha	8
20	Ramjibhai Tapu Harijan	Dhandha	10

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

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

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

4. Castor

1) Production system :-Rainfed
2) Problem Definition :-
3) Title of the technology demonstrated :-Integrated Disease Management in castor
4) Thematic area :-Integrated Disease Management
5) Year of release of the technology or Year of assessment :-Year - 2002
6) Source of technology :- Oil seed research Station, SDAU, S. K. Nagar
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	Keshvajibhai Ravjibhai	Amara	32
2	Devraj Pragjibhai Maghodia	Amara	30
3	Chandubhai Ramjibhai	Dodihia	34
4	Bhgubhai Punjbhai Bunsa	Dodihia	35
5	Dulbha Khanji Chavada	Dodihia	32.5
6	Valjibhai bhimabhai Chovatiya	Dodihia	33
7	Mangalsinh Govubha	Balambhadi	24
8	Ramjan Amad	Balambhadi	23
9	Parosotam Ravji	Makvanan	26
10	Govindbhai Nanjibhai	Mokhana	28
11	Amubhai Govind	Mokhana	29
12	Sangabhai Jesang	Mokhana	27.5
13	Bharatsinh Lalubha	Dhundha	24.5
14	Kesubha Lalubha sodha	Dhundha	23
15	Babubhai Veljibha Tambolia	Dhundha	24
16	Devnand Bhima	Fotadi	25
17	Govindbhai Rananbhai	Fotadi	23.5
18	Amrutben Devanand	Fotadi	26
19	Khima Samat	Fotadi	24
20	Natha Vejanand	Fotadi	26

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. 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	Santilal Pragji Maghodia	Amara	22.5
2	Jamanbhai Jadabhai Maghodia	Amara	27
3	Keshvaji Dayabhai Kateshiya	Amara	24
4	Amba Karmshi Maghodia	Amara	23
5	Mangan Khodabhai Madalipar	Amara	24
6	Amrutlal Kacharabhai parmar	Amara	22.1
7	Khimabhai Bhagabhai Kanjaria	Amara	30
8	Keshvjibhai Parshottambhai Parmar	Amara	31.5
9	Ravjibhai Bacherbhai Khandar	Bed	28
10	Dayabhai Manjibhai Sonagara	Bed	26
11	Rameshbhai Punjabhai Sonagarar	Bed	24
12	Nanjibhai Becharbhai Khandar	Bed	26
13	Madvajibhai Govindbhai	Bed	24
14	Bhikubhai Nanjibhai Mungra	Dodhiya	27
15	Nurali Sherali Jafer	Dodhiya	23
16	Gordhan Nathubhai Mungara	Dodhiya	23
17	Nathabhai Bhimbhai Chovtiya	Dodhiya	25
18	Dayabhai Ranmalbhai Pingar	Dodhiya	24
19	Khimji valijibhai Makvana	Dhundha	25.5
20	Valjibhai Nathubhai	Dhundha	22
21	Mahendrasin Khodubha	Dhundha	25
22	Rajendrsing Jagatsinh	Dhundha	23
23	Hardevsinh Akhubha	Dhundha	22
24	Govindbhai Valji Makvana	Dhundha	29
25	Indrasinh Mahipatsinh	Dhundha	24
26	Raydhan Jesangbhai	Mokhana	27
27	Dineshbhai Haribhai	Mokhana	27.5
28	Prafulbhai Babubhai	Mokhana	24.5
29	Kiranbhai Govindbhai	Mokhana	25.32
30	Bijalbhai Sukhabhai	Mokhana	26

31	Bachubhai Popatbhai	Chandraga	22.5
32	Bhikabhai Popatbhai	Chandraga	25
33	Vittalbhai Trikambhai	Chandraga	24
34	Chanbhai Bhagabhai	Chandraga	27
35	Bhaputbhai Ragvajibhai	Chandraga	29
36	Chuhan Nathu Bhima	Fotadi	23
37	Chuhan Jeram Mandan	Fotadi	24
38	Chuhan Hasmukha Malde	Fotadi	22
39	Chuhan Vrajlal Malde	Fotadi	26
40	Chuhan Jagdish Devanand	Fotadi	22.7

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. 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	Govindbhai Jerambhai	Dodhiya	120
2	Jayantibhai Valjibhai	Dodhiya	120
3	Rasikbhai Kanjibhai	Dodhiya	125
4	Gordhanbhai Natubhai	Dodhiya	125
5	Narsibhai Bhagvanjibhai	Dodhiya	115
6	Chaganbhai Jerambhai	Dodhiya	115
7	Valjibhai Bhimabhai	Dodhiya	120
8	Mansukhbhai Samjibhai	Dodhiya	120
9	Vallabhbhai Lathabhai	Dodhiya	115
10	Kantibhai Popatbhai	Dodhiya	125

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. 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	Hajabhai Natuhbhai Kandoriya	Thaker Sherdi	485
2	Merubhai Bhayabhai Kandoriya	Thaker Sherdi	480
3	Fogabhai Valabhai Dalvadi	Thaker Sherdi	495
4	Pitabhai Alabhai Chavada	Thaker Sherdi	500
5	Kesurbhai Arsibhai	Thaker Sherdi	495
6	Mohanbhai Dayabhai Dalvadi	Thaker Sherdi	480
7	Merkbhai Ramsibhai Karmur	Thaker Sherdi	475
8	Savjibhai Nathubhai Khandar	Bed	475
9	Jayntibhai Kanjibhai	Bed	480
10	Arjanbhai Arsibhai Der	Keshod	485

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

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

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

8. 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	Rameshbhai Punjabhai Sonagra	Bed	557
2	Mohanbhai Jerambhai	Bed	560
3	Parsotambhai Govindbhai	Bed	561
4	Madhavjibhai Govindbhai	Bed	558
5	Jentibhai Murjibhai Baradivala	Bed	555
6	Savjibhai Govindbhai	Bed	560
7	Kanjibhai Lalajibhai	Amara	556
8	Hansraj Bhovanbhai	Amara	556
9	Amargar Virgar	Amara	558
10	Amrutbhai Ravjibhai	Amara	559

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

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

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

9. Cabbage /cauliflower

1) Production system :- Irrigated
2) Problem Definition :-
3) Title of the technology demonstrated :- Integrated Nutrient Management in Cabbage / Cauliflower
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	Manjibhai Nanjibhai	Amara	125
2	Govindbhai Dhanjibhai Sonagra	Bed	117
3	Jivraj Kurjibhai	Bed	121
4	Parsotambhai Damjibhai Sonagara	Bed	122
5	Pravinbhai Damjibhai Sonagara	Bed	123
6	Amrutbhai Gokalbhai Kanjariya	Jamnagar	123
7	Jayntibhai Gokalbhai	Jamnagar	123
8	Chaganbhai Gokalbhai	Jamnagar	124
9	Narsibhai Khimjibhai	Jamnagar	120
10	Kalidasbhai Khimjibhai	Jamnagar	120
11	Parsotambhai Khimjibhai	Jamnagar	122
12	Kalidasbhai Nanjibhai	Jamnagar	125
13	Raghubha Jorubha Parmar	Jamnagar	123
14	Hiralal Khimjibhai	Jamnagar	124
15	Dayalbhai Premjibhai	Jamnagar	118
16	Ratibhai Jinabhai Varvera	Dadiya	118
17	Rajeshbai Bachubhai	Dadiya	119
18	Pravinbhai Jagubhai Nanda	Dadiya	119
19	Arjanbhai Khetabhai Makvana	Dadiya	117
20	Narsibhai Gordhanbhai	Dadiya	117

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

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

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

10. 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	Ravubha Abhesang Jadeja	Amara	54
2	Jamanbhai Govindbhai Makhodiya	Amara	55
3	Parsotambhai Madha	Amara	55
4	Ranubha Abhesnag Jadeja	Amara	54.2
5	Rameshbia Babulal	Bed	47.8
6	Govindbhai Mohanbhai Khandar	Bed	48
7	Chaganlal Dhanji Kanzariya	Bed	48.25
8	Mansang Jasubha Chavada	Balambhadi	54
9	Amirali Husen Mukhida	Balambhadi	55
10	Asifbhai Gulambhai Husain	Balambhadi	54
11	Gumansinh Tapubha	Balambhadi	53
12	Valjibhai Lavjibhai Dobariya	Dodhiya	52
13	Mohanbhai Jerambhai Mungara	Dodhiya	54
14	Pravinbhai Ramjibhai Tarpara	Dodhiya	56
15	Kanubhai Dakubhai	Dodhiya	55
16	Valjibhai Govindbhai	Jivapara	52.5
17	Mohanbhai Govindbhai	Jivapara	54
18	Javiben Valjibhai	Jivapara	55
19	Arjanbhai Velabhai	Jivapara	52.5
20	Bijalbhai Jesanbhai Boricha	Mokhana	53
21	Prabhat Sukhabhai Jatiya	Mokhana	53.5
22	Haribhai Pachabhai Baradiya	Mokhana	52.75
23	Hamirbha Devabha	Mokhana	53
24	Trada Ramesbhai Hemraj	Konja	55
25	Damjibhai Muljibhai Vasoya	Chandraga	55
26	Naranbhai Jivabhai	Chandraga	54.5
27	Ashokbhai Ravjibhai	Chandraga	55
28	Ranchodbhai premjibhai Nariya	Makvanan	53.5
29	Ramnikbhai Bachubhai Gandha	Makvanan	54.75
30	Mangabhai Devsibhai	Makvana	55
31	Pragjibhai Vasarambhai Davad	Makvana	54.5
32	Vijubha Udesang Sodha	Dhandha	55
33	Jagdish Megajibhai Tummara	Dhandha	54
34	Jagatsinh Navalsinh	Dhandha	55
35	Chaganbhai Kababhai	Dhandha	54.5
36	Bhikhabhai Punjabhai Chauhan	Fotadi	54.2
37	Ashish Arvindbhai	Fotadi	54
38	Kirit V Chauhan	Fotadi	55
39	Dayabhai Devsibhai	Fotadi	54.25
40	Jitubha Lalubha	Dhandha	55

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

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

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

11. 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	Gumansinh Anopsinh Sodha	Dhandha	10.5
2	Virjibhai Madhavjibhai Makhodiya	Amara	14
3	Kantilal K Parmar	Amara	13.5
4	Ramilaben D Chuhan	Fotadi	10.25
5	Dhirubhai Mepabhai	Fotadi	10.5
6	Manjulaben A Chauhan	Fotadi	10.23
7	Nileshbia Ranmal Piprotar	Fotadi	10.6
8	Joshanben Jermbhai	Fotadi	10.1
9	Kantaben H. Chuhan	Fotadi	10
10	Harshaben Pravinbhai	Fotadi	10.36
11	Arunaben V Chuhan	Fotadi	10.24
12	Sanjay Parbatbhai	Fotadi	10.32
13	Ashokbhai Bhikhabhai	Fotadi	10.28
14	Govindbhai Vasrambhai	Gop	12
15	Rananbhai Palabhai	Gop	13.5
16	Rajsibhai Nathabhai	Gop	12.5
17	Narendrasinh Gajubha	Bhangor	10.2
18	Pradipsinh Indrasinh	Bhangor	10.6
19	Kesubhai Jesang jatia	Mokhana	10
20	Jamnabhai Dayabhai	Makvana	10.5

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

12. Gram

1) Production system :-Irrigated
2) Problem Definition :-
3) Title of the technology demonstrated :-Integrated disease and Integrated Pest Management in Gram

4) Thematic area :-IPM/IDM
5) Year of release of the technology or Year of assessment :-Year – 2002-03
6) Source of technology :- Pulse Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	**Name of the farmers**	**Name of village**	**Data on the performance indicators of the technology demonstrated**
			Yield
1	Bharatsinh Bhikubha Chavada	Dodhiya	18.25
2	Dilubha Khanji	Dodhiya	17.25
3	Lalubha Chanubha Jadeja	Chandraga	18
4	Dilipsinh Pravinsinh	Chandraga	17.5
5	Rameshbhai Dhana Maghodiya	Amara	18.5
6	Madaha Naranbhai Maghodiya	Amara	18.25
7	Junvansinh Dadubha Chudasama	Balambhadi	17.6
8	Umedsinh Patubha Jadeja	Balambhadi	17.9
9	Mohanbhai Govindbhai	Jivapara	18
10	Suresh Parsotambhai	Jivapara	17.75
11	Odhavjibhai Premjibhai Davad	Makvanan	18.5
12	Ramibhai Tapubhai Makavana	Dhandha	15.75
13	Bharatsinh Anopsinh Sodha	Dhandha	15.6
14	Mansukhbhai Bhavjibhai Korat	Konja	18.5
15	Bavjibhai Laxmanbhai Korat	Konja	17.5
16	Dilipbhai Khimabhai	Fotadi	18.5
17	Pankaj Karasan Solanki	Fotadi	17.5
18	Bharat Natha	Fotadi	17.5
19	Virabhai Punjabhai Chuhan	Fotadi	18.2
20	Dudabhai Arsibhai Solanki	Fotadi	18.5

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

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

A. ON Campus

Date	Title of the training programme	Dura-tion in days	Number of participants								
			General			SC / ST			Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
	Farmers & Farm Women										
2/10/07	Weed Management in Rabi crops	1	12	3	15	2	2	4	14	5	19
3/10/07	Weed Management in Rabi crops	1	11	6	17	3	0	3	14	6	20
22/10/07	Income generation activities for empowerment of rural women	1	0	14	14	0	4	4	0	18	18
23/10/07	Income generation activities for empowerment of rural women	1	0	12	12	0	3	3	0	15	15
24/10/07	IPM in Cotton	1	15	2	17	4	1	5	19	3	22
25/10/07	IPM in Grouondnut	1	16	4	20	3	2	5	19	6	25
26/10/07	IPM in Castor	1	18	2	20	4	2	6	22	4	26
27/10/07	IDM in Groundnut	1	17	2	19	3	3	6	20	5	25
2/11/07	Seed Production of wheat	1	14	3	17	1	1	2	15	4	19
3/11/07	Micro Nutrient Deficiency in crops	1	12	2	14	2	2	4	14	4	18
15/11/07	Income generation activities for empowerment of rural women	1	0	10	10	0	3	3	0	13	13
16/11/07	Women and Child care	1	0	12	12	0	2	2	0	14	14
22/11/07	IDM in cumin	1	16	4	20	2	1	3	18	5	23
23/11/07	IDM in cumin	1	15	2	17	3	2	5	18	4	22
24/11/07	Formatin & Management of SHGs	1	13	2	15	2	1	3	15	3	18
1/12/07	ICM of Rabi crops	1	14	2	16	2	1	3	16	3	19
4/12/07	INM in Castor	1	13	2	15	5	2	7	18	4	22
6/12/07	Value adition of vegetables	1	0	12	12	0	3	3	0	15	15
7/12/07	Value adition of vegetables	1	0	11	11	0	2	2	0	13	13
20/12/07	Women and Child care	1	0	10	10	0	3	3	0	13	13
27/12/07	Biocontrol fo Pests and Diseases	1	18	3	21	2	1	3	20	4	24
1/1/08	Weed Management in Summer Crops	1	10	2	12	2	1	3	12	3	15
2/1/08	Micro Nutrient Deficiency in crops	1	8	1	9	3	1	4	11	2	13
3/1/08	Micro Nutrient Deficiency in crops	1	9	1	10	4	1	5	13	2	15
10/1/08	Women and Child care	1	0	12	12	0	4	4	0	16	16
11/1/08	Value adition of vegetables	1	0	10	10	0	2	2	0	12	12
18/1/08	Seed Production of Green gram	1	8	4	12	7	3	10	15	7	22
19/1/08	Seed Production of Sesamum	1	7	6	13	8	2	10	15	8	23
22/1/08	Vermicompost	1	9	4	13	6	4	10	15	8	23
25/1/08	Formatin & Management of SHGs	1	8	2	10	2	1	3	10	3	13
28/1/08	Formatin & Management of SHGs	1	6	3	9	1	0	1	7	3	10
1/2/08	ICM of Summer groundnut	1	10	3	13	2	0	2	12	3	15
6/2/08	Value adition of Fruit crops	1	0	10	10	0	4	4	0	14	14
7/2/08	Women and Child care	1	0	10	10	0	2	2	0	12	12
19/2/08	Vermicompost	1	9	5	14	4	2	6	13	7	20
20/2/08	Vermicompost	1	11	6	17	5	1	6	16	7	23
21/2/08	Vermicompost	1	9	5	14	8	2	10	17	7	24

22/2/08	Vermicompost	1	12	6	18	6	2	8	18	8	26
1/3/08	Soil and Water Testing	1	11	2	13	6	1	7	17	3	20
3/3/08	Soil Fertility Management	1	12	1	13	2	0	2	14	1	15
4/3/08	Rural craft	1	0	12	12	0	5	5	0	17	17
5/3/08	Rural craft	1	0	10	10	0	4	4	0	14	14
7/3/08	Income generation activities for empowerment of rural women	1	0	10	10	0	5	5	0	15	15
18/3/08	Income generation activities for empowerment of rural women	1	0	12	12	0	6	6	0	18	18
12/3/08	Vermicompost	1	12	5	17	8	2	10	20	7	27
14/3/08	Vermicompost	1	10	6	16	9	2	11	19	8	27
24/3/08	Vermicompost	1	9	5	14	7	2	9	16	7	23
25/3/08	Vermicompost	1	8	5	13	4	3	7	12	8	20
26/3/08	Vermicompost	1	10	6	16	5	2	7	15	8	23
29/3/08	Leadership development	1	8	2	10	3	1	4	11	3	14
3/4/08	Production of Low volume & high value crops	1	8	2	10	3	2	5	11	4	15
4/4/08	Production and management technology for spices crops	1	9	3	12	3	1	4	12	4	16
11/4/08	Income generation activities for empowerment of rural women	1	0	11	11	0	5	5	0	16	16
12/4/08	Value Addition of Fruit Crops	1	0	9	9	0	4	4	0	13	13
15/4/08	IDM in summer groundnut	1	19	0	19	5	0	5	24	0	24
19/4/08	Vermicompost	1	11	6	17	6	3	9	17	9	26
21/4/08	Vermicompost	1	12	5	17	5	2	7	17	7	24
1/5/08	Cropping system	1	12	3	15	2	0	2	14	3	17
2/5/08	ICM for kharif crops	1	10	2	12	3	0	3	13	2	15
3/5/08	Nursery raising	1	10	3	13	2	2	4	12	5	17
15/5/08	IPM in Kharif crop	1	11	0	11	5	0	5	16	0	16
17/5/08	Vermicompost	1	13	5	18	7	3	10	20	8	28
19/5/08	Vermicompost	1	11	6	17	8	3	11	19	9	28
1/6/08	Weed Management in Kharif Crops	1	14	2	16	2	0	2	16	2	18
2/6/08	Weed Management in Kharif Crops	1	13	2	15	2	0	2	15	2	17
5/6/08	Cultivation of Fruits	1	8	2	10	3	4	7	11	6	17
6/6/08	Nursery management of ornamental Plants	1	9	3	12	3	4	7	12	7	19
12/6/08	Value Addition of Fruit Crops	1	0	10	10	0	2	2	0	12	12
19/6/08	IDM in Kharif crop	1	14	0	14	2	0	2	16	0	16
20/6/08	IPM in Kharif crop	1	16	0	16	4	0	4	20	0	20
21/6/08	IDM in Kharif crop	1	16	0	16	2	0	2	18	0	18
4/6/08	Leadership development	1	9	1	10	1	1	2	10	2	12
2/7/08	ICM for kharif crops	1	11	1	12	2	0	2	13	1	14
3/7/08	Production of biocontorl agents and bio pesticides	1	16	2	18	3	1	4	19	3	22
4/7/08	IPM in kharif crop	1	14	1	15	4	0	4	18	1	19
10/7/08	IDM in Rabi crop	1	15	0	15	2	0	2	17	0	17
19/7/08	Integrated Fish Farming	1	0	0	0	14	8	22	14	8	22
1/8/08	INM in kharif crops	1	12	1	13	3	0	3	15	1	16
2/8/08	Income generation activities for empowerment of rural women	1	0	12	12	0	3	3	0	15	15
4/8/08	IDM in Kharif crop	1	16	1	17	3	1	4	19	2	21

8/8/08	Biocontrol fo Pests and Diseases	1	17	0	17	3	0	3	20	0	20
9/8/08	Biocontrol fo Pests and Diseases	1	15	1	16	4	0	4	19	1	20
16/8/08	Biocontrol fo Pests and Diseases	1	15	0	15	5	0	5	20	0	20
17/8/08	IPM in Kharif crop	1	18	1	19	5	0	5	23	1	24
23/8/08	Composit fish Culture	1	0	0	0	17	9	26	17	9	26
8/9/08	Income generation activities for empowerment of rural women	1	0	9	9	0	4	4	0	13	13
9/9/08	IPM in Kharif crop	1	16	1	17	2	1	3	18	2	20
10/9/08	Biocontrol fo Pests and Diseases	1	15	0	15	3	1	4	18	1	19
11/9/08	Biocontrol fo Pests and Diseases	1	15	2	17	3	2	5	18	4	22
12/9/08	IDM in Kharif crop	1	16	2	18	1	0	1	17	2	19
13/9/08	IPM in Kharif crop	1	14	1	15	0	0	0	14	1	15
16/0/08	IPM in Kharif crop	1	18	0	18	0	0	0	18	0	18
	Total Farmers and Farm Women	**92**	**868**	**396**	**1264**	**282**	**172**	**454**	**1150**	**568**	**1718**
	Rural Youth										
14/10/07	Integrated Farming	1	8	3	11	2	0	2	10	3	13
16/10/07	Value Addition	1	0	5	5	0	1	1	0	6	6
16/11/07	Value Addition	1	0	6	6	0	1	1	0	7	7
19/11/07	Value Addition	1	0	5	5	0	1	1	0	6	6
10/12/07	Value Addition	1	0	6	6	0	1	1	0	7	7
13/12/07	Value Addition	1	0	8	8	0	0	0	0	8	8
15/12/07	Value Addition	1	0	8	8	0	0	0	0	8	8
17/12/07	Value Addition	1	0	6	6	0	0	0	0	6	6
11/4/08	Value Addition	1	0	7	7	0	1	1	0	8	8
17/5/08	Value Addition	1	0	6	6	0	0	0	0	6	6
20/5/08	Value Addition	1	0	5	5	0	1	1	0	6	6
12/8/08	Freshwater Prown Culture	1	0	0	0	7	0	7	7	0	7
	Total Rural Youth	**12**	**8**	**65**	**73**	**9**	**6**	**15**	**17**	**71**	**88**
	Extension Personnel										
24/10/07	Productivity Enhancement in field crop	1	15	2	17	5	0	5	20	2	22
26/10/07	Productivity Enhancement in field crop	1	19	1	20	8	0	8	27	1	28
11/11/07	Productivity Enhancement in field crop	1	18	2	20	5	0	5	23	2	25
19/11/07	Productivity Enhancement in field crop	1	22	3	25	4	2	6	26	5	31
18/7/08	Productivity Enhancement in field crop	1	16	2	18	4	2	6	20	4	24
12/8/08	Productivity Enhancement in field crop	1	18	2	20	6	0	6	24	2	26
	Total Extension Personnel	**6**	**108**	**12**	**120**	**32**	**4**	**36**	**140**	**16**	**156**
	Grand Total	**110**	**984**	**473**	**1457**	**323**	**182**	**505**	**1307**	**655**	**1962**

Off Campus

Date	Title of the training programme	Dura-tion in days	Number of participants								
			General			SC / ST			Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
	Farmers & Farm Women										

4/10/07	ICM of Rabi crops	1	15	3	18	4	2	6	19	5	24
5/10/07	Income generation activities for empowerment of rural women	1	0	14	14	0	8	8	0	22	22
6/10/07	Rural craft	1	0	16	16	0	9	9	0	25	25
9/10/07	IPM in Cotton	1	15	2	17	4	0	4	19	2	21
10/10/07	IPM in Grouondnut	1	16	2	18	3	1	4	19	3	22
11/10/07	IPM in Castor	1	18	3	21	4	0	4	22	3	25
18/10/07	IPM in Groundnut	1	15	2	17	8	0	8	23	2	25
19/10/07	Vermicompost	1	14	4	18	8	3	11	22	7	29
20/10/07	Vermicompost	1	14	4	18	8	3	11	22	7	29
3/11/07	Weed Management	1	14	3	17	3	2	5	17	5	22
5/11/07	Income generation activities for empowerment of rural women	1	0	18	18	0	7	7	0	25	25
6/11/07	Women and Child care	1	0	16	16	0	11	11	0	27	27
13/11/07	IPM in Chickpea	1	15	2	17	2	1	3	17	3	20
14/11/07	IDM in cumin	1	14	3	17	3	0	3	17	3	20
26/11/07	Vermicompost	1	14	2	16	3	2	5	17	4	21
27/11/07	Vermicompost	1	15	2	17	0	0	0	15	2	17
28/11/07	Leadership development	1	12	2	14	3	2	5	15	4	19
3/12/07	Women and Child care	1	0	20	20	0	13	13	0	33	33
11/12/07	IDM in cumin	1	14	2	16	3	1	4	17	3	20
12/12/07	Vermicompost	1	12	15	27	0	3	3	12	18	30
13/12/07	Vermicompost	1	10	13	23	0	2	2	10	15	25
14/12/07	Vermicompost	1	11	16	27	0	3	3	11	19	30
18/12/07	Vermicompost	1	12	1	13	0	2	2	12	3	15
19/12/07	Vermicompost	1	12	3	15	1	1	2	13	4	17
7/1/08	Value adition of vegetables	1	0	18	18	0	8	8	0	26	26
8/1/08	Income generation activities for empowerment of rural women	1	0	18	18	0	9	9	0	27	27
21/1/08	Vermicompost	1	14	2	16	2	3	5	16	5	21
24/1/08	Vermicompost	1	16	5	21	1	2	3	17	7	24
29/1/08	Vermicompost	1	17	3	20	1	1	2	18	4	22
30/1/08	Vermicompost	1	18	5	23	2	2	4	20	7	27
4/2/08	ICM of Rabi crops	1	10	2	12	4	2	6	14	4	18
11/2/08	Integrated Nutrient management in rabi crops	1	8	4	12	6	2	8	14	6	20
13/2/08	Value adition of Fruit crops	1	0	13	13	0	12	12	0	25	25
15/2/08	Value adition of Fruit crops	1	0	10	10	0	10	10	0	20	20
26/2/08	Vermicompost	1	16	3	19	2	2	4	18	5	23
27/2/08	Vermicompost	1	14	4	18	2	1	3	16	5	21
10/3/08	integrated nutrient management in Summer crops	1	14	5	19	3	4	7	17	9	26
11/3/08	Income generation activities for empowerment of rural women	1	0	18	18	0	8	8	0	26	26
12/3/08	Vermicompost	1	12	0	12	2	4	6	14	4	18
14/3/08	Vermicompost	1	12	0	12	5	5	10	17	5	22
19/3/08	Formatin & Management of SHGs	1	14	1	15	2	2	4	16	3	19
5/4/08	IDM in summer groundnut	1	18	3	21	2	0	2	20	3	23
9/4/08	Vermicompost	1	10	0	10	5	6	11	15	6	21
10/4/08	Vermicompost	1	11	0	11	6	5	11	17	5	22

16/4/08	Vermicompost	1	11	0	11	4	6	10	15	6	21
17/4/08	Vermicompost	1	14	0	14	5	5	10	19	5	24
23/4/08	Vermicompost	1	10	0	10	6	6	12	16	6	22
21/5/08	ICM for kharif crops	1	16	2	18	3	1	4	19	3	22
22/5/08	Production of low volume and high value crops	1	15	4	19	3	2	5	18	6	24
23/5/08	IPM concept for kharif crop planning	1	17	2	19	2	2	4	19	4	23
26/5/08	Vermicompost	1	15	0	15	7	5	12	22	5	27
3/6/08	ICM for kharif crops	1	15	5	20	3	1	4	18	6	24
4/6/08	Cumin production and management technology	1	7	2	9	9	1	10	16	3	19
10/6/08	Cumin production and management technology	1	7	1	8	6	3	9	13	4	17
16/6/08	IDM in Kharif crop	1	15	0	15	1	0	1	16	0	16
17/6/08	Integrated Fish Farming	1	0	0	0	14	7	21	14	7	21
18/6/08	Vermicompost	1	16	0	16	8	3	11	24	3	27
26/6/08	Formatin & Management of SHGs	1	12	3	15	3	0	3	15	3	18
14/7/08	IPM in kharif crop	1	14	3	17	2	2	4	16	5	21
15/07/08	Bio-control of pests and diseases	1	13	0	13	1	0	1	14	0	14
16/7/08	Bio-control of pests and diseases	1	15	3	18	0	1	1	15	4	19
5/8/08	Weed Management	1	14	1	15	6	2	8	20	3	23
6/8/08	IPM in Kharif crop	1	17	4	21	2	0	2	19	4	23
7/8/08	IPM in Kharif crop	1	17	3	20	0	1	1	17	4	21
12/8/08	IDM in Kharif crop	1	15	4	19	0	1	1	15	5	20
13/8/08	IPM in Kharif crop	1	14	3	17	2	0	2	16	3	19
14/8/08	Integrated Fish Farming	1	0	0	0	15	5	20	15	5	20
1/9/08	IPM in Kharif crop	1	16	4	20	3	1	4	19	5	24
2/9/08	IDM in Kharif crop	1	15	5	20	2	0	2	17	5	22
3/9/08	IPM in Kharif crop	1	18	4	22	0	1	1	18	5	23
5/9/08	IDM in Kharif crop	1	15	2	17	0	0	0	15	2	17
6/9/08	Composit fish Culture	1	0	0	0	22	5	27	22	5	27
	Total Farmers & Farm Women	72	819	337	1156	231	225	456	1050	562	1612
	Rural Youth										
6/10/07	Value Addition	1	0	13	13	0	3	3	0	16	16
15/11/07	Value Addition	1	0	11	11	0	3	3	0	14	14
18/1/08	Ornamental Fisheries	1	0	0	0	12	4	16	12	4	16
21/2/08	Fresh water Prawn culture	1	0	0	0	11	3	14	11	3	14
	Total Rural Youth	4	0	24	24	23	13	36	23	37	60
	Extension Personnel										
14/11/07	Productivity Enhancement in Field Crops	1	14	0	14	6		6	20	0	20
	Total Extension Personnel	1	14	0	14	6	0	6	20	0	20
	Grand Total	77	833	361	1194	260	238	498	1093	599	1692

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..

Sr. No.	Date	Village	Taluka	No. Farmers	No. Ext. Funct.	Line Department
1	19/10/07	Jamnagar	Jamnagar	0	25	DAO
2	17/10/07	Buldha	Buldha	50	2	SDAO
3	22/10/07	Verad	Bhanvad	36	2	IFFCO
4	22/10/07	Bavariya	Jamnagar	36	3	DAO
5	22/10/07	Rampar	Jamnagar	65	3	DAO
6	23/10/07	Neshda	Jodia	45	3	DAO
7	23/10/07	Manpar	Jodia	58	4	DAO
8	24/10/07	Bhensdad	Dhrol	78	2	DAO
9	24/10/07	Laiyara	Dhrol	63	2	DAO
10	25/10/07	Hodisang	Kalavad	46	2	DAO
11	25/10/07	Golaniya	Kalavad	74	2	DAO
12	28/10/07	Narmana	Jamhodhpur	63	2	DAO
13	28/10/07	Karana	Lalpur	65	2	DAO
14	29/10/07	Hapalakhasar	Jamkhambhadia	62	2	DAO
15	29/10/07	Navaniya	Lalpur	65	2	DAO
16	30/10/07	Luvarsar	Jamjodhpur	48	2	DAO
17	30/10/07	Jashapur	Bhanvad	48	3	DAO
18	31/10/07	Chokhanda	Bhanvad	62	2	DAO
19	31/10/07	Bajana	Jamkhambhadiya	63	2	DAO
20	1/11/07	Jampur	Kalyanpur	47	2	DAO
21	1/11/07	Dhaturiya	Kalyanpur	42	3	DAO
22	2/11/07	Bhinda	Jamkhambhadia	56	2	DAO
23	2/11/07	Bhuvneshwar	Bhanvad	62	3	DAO
24	3/11/07	Dhrangada	Jamnagar	45	3	DAO
25	4/11/07	Balva	Jamjodhpur	46	3	DAO
26	4/11/07	Jashapur	Kalavad	46	2	DAO

27	5/11/07	Nanabhavda	Dwarka	56	2	DAO
28	5/11/07	Hamusar	Dwarka	46	2	DAO
29	6/11/07	Gaga	Kalyanpur	48	3	DAO
30	17/11/07	Jamnagar	Jamnagar	0	25	DAO
31	23/11/07	Khaydi	Lalpur	62	4	DAO
32	23/11/07	Zinavari	Jamjodhpur	62	2	DAO
33	24/11/07	Badanpar	Jodia	53	3	DAO
34	24/11/07	Dedakdad	Dhrol	42	4	DAO
35	27/11/07	Khijadiya	Jamnagar	48	3	DAO
36	27/11/07	Sarmat	Jamnagar	52	4	DAO
37	28/11/07	Bodi	Kalavad	62	3	DAO
38	28/11/07	Rinari	Kalawad	43	4	DAO
39	30/11/07	Fatepur	Bhanvad	62	2	DAO
40	30/11/07	Shekhpat	Jamnagar	42	2	DAO
41	18/12/07	Jamwadi	Jamhodhpur	400	2	Gujarat Life Sci.
42	2/1/08	Vadalia Sihan	Jamkhambhadia	48	3	DAO
43	2/1/08	Vavberaja	Jamnagar	52	3	DAO
44	5/1/08	Bodka	Jodia	71	2	DAO
45	5/1/08	Manekpar	Drhol	62	3	DAO
46	7/1/08	Khambhalida	Jamnagar	52	3	DAO
47	9/1/08	Bagdhara	Jamjodhpur	58	3	DAO
48	9/1/08	Raka	Lalpur	63	3	DAO
49	11/1/08	Nageshwar	Dwarka	52	3	DAO
50	11/1/08	Khirasra	Kalyanpur	62	3	DAO
51	14/1/08	Bhanvad	Bhanbad	56	3	DAO
52	14/1/08	Vasantpur	Jamjodhpur	62	3	DAO
53	16/1/08	Timbdi	Bhanvad	60	2	DAO
54	16/01/08	Godavari	Lalpur	63	2	DAO
55	19/1/08	Khaddhoraji	Kalavad	54	3	DAO

56	7/1/08 to 10/1/08	Jamangar	Jamnagar	45	0	IFFCO
57	5/1/08	Rampar	Jamnagar	71	2	DKV College
58	2/1/08	Jamnagar	Jamnagar	43	6	Dy.Dir.Agri. (Ext.)
59	3/1/08	Kalawad	Kalawad	250	4	ATMA,
60	4/1/08	Dadiya	Jamnagar	80	6	Bank of Baroda
61	15/2/08 to 17/2/08	Jamnagar (Representative of all Gujarat)	Jamnagar	45	5	Horticultre Mission, Gandhinagar
62	17/3/08	Makwana	Jamnagar	90	2	DAO
63	19/3/08	Arikhana	Lalpur	76	1	DAO
64	25/3/08	Kalawad	Kalawad	62	2	DAO
65	5/3/08	Timbdi	Bhanvad	56	1	DAO
66	13/3/08	Kotada	Jamjodhpur	60	2	DAO
67	23/5/08	Dwarka	Dwarka	68	3	TDO, Dwarka
68	25/7/08	Harshadpur	Jamkhambhadia	60	1	DRDA
69	5/9/08	Bajarangpur	Jamnagar	46	2	DAO
70	6/9/08	Vavadi	Jodiya	68	3	DAO
71	6/9/08	Haripar	Dhrol	58	2	DAO
72	9/9/08	Mota panchdevda	Kalavad	36	2	DAO
73	10/9/08	Machchhu beraja	Lalpur	34	2	DAO
74	10/9/08	Jashapur	Jamjodhpur	42	2	DAO
75	12/9/08	Shiva	Bhanvad	45	2	DAO
76	12/9/08	Gokulpur	Jamkhambhadiya	26	2	DAO
77	13/9/08	Juvanpur	Kalyanpur	38	2	DAO
78	16/9/08	Padli	Dwarka	29	2	DAO
79	17/9/08	Jivapar	Jamnagar	34	2	DAO
80	19/9/08	Jamvadi	Jamjodhpur	85	2	DAO
81	19/9/08	Dharampur	Lalpur	64	2	DAO
82	20/9/08	Hathla	Bhanvad	34	2	DAO

83	20/9/08	Kenedi	Kalyanpur	24	2	DAO
84	21/9/08	Kathidevaliya	Jamkhambhadia	26	2	DAO
85	6/9/08	Jamnagar	Jamnagar	30	2	DRDA
86	6/9/08	Kalavad	Kalavad	30	2	DRDA
87	8/9/08	Dhrol	Dhrol	30	2	DRDA
88	8/9/08	Jodia	Jodia	30	2	DRDA
89	9/9/08	Bhanvad	Bhanvad	30	2	DRDA
90	9/9/08	Jamjodhpur	Jamjodhpur	30	2	DRDA
91	10/9/08	Lalpur	Lalpur	30	2	DRDA
92	10/9/08	Khambhadia	Khambhadia	30	2	DRDA
93	11/9/08	Kalyanpur	Kalyanpur	30	2	DRDA
94	11/9/08	Dwarka	Dwarka	30	2	DRDA
95	15/9/08	Jamnagar	Jamnagar	30	2	DRDA
96	15/9/08	Kalavad	Kalavad	30	2	DRDA
97	16/9/08	Dhrol	Dhrol	30	2	DRDA
98	16/9/08	Jodia	Jodia	30	2	DRDA
99	17/9/08	Bhanvad	Bhanvad	30	2	DRDA
100	17/9/08	Jamjodhpur	Jamjodhpur	30	2	DRDA
101	18/9/08	Lalpur	Lalpur	30	2	DRDA
102	18/9/08	Khambhadia	Khambhadia	30	2	DRDA
103	19/9/08	Kalyanpur	Kalyanpur	30	2	DRDA
104	19/9/08	Dwarka	Dwarka	30	2	DRDA

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	Jivapar
		2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
1	Groundunt	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	Groundunt (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	Jivapar
		2008	2008	2008	2008	2008	2008	2008	2008	2008	2008
1	Groundunt	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	Groundunt (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	Jivapar
1	Groundunt	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	Groundunt (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	10/09/2007 to 12/09/2007	Dr. K. P. Baraiya	JAU, Junagadh	Soil Health Card system application software training
2	13/09/20007 to 15/09/2007	Dr. V. J. Zizala	JAU, Junagadh	Soil Health Card system application software training
3	17/09/2007 to 20/09/2007	Dr. V. J. Zizala	JAU, Junagadh	Soil Health Card system application software training
4	21/01/2008 to 10/02/2008	Dr. K. P. Baraiya	Department of Entomology, Faculty of Agriculture, Annamalai University, Annamalai Nagar	Organic Pest Management
5	18/02/2008 to 20/02/2008	Dr. K.P. Baraiya Dr. V.J. Zinzala Dr. J.N. Nariya	Director of Extension Education, JAU, Junagadh	Training in identified area for technical personnel of KVKs
6	18/02/2008 to 25/02/2008	DR. V. J. Zizala Mr. P. S. Gorphad	JAU, Junagadh Training by IPSL	Leadership Development
7	14/07/2008 to 25/07/2008	Dr. J.N. Nariya	Zonal Coordinator Unit-VI, ICAR, CAZRI, Jodhpur	Website Design and Development, Provided by ERNET India.
8.	28/07/2008 to 8/08/2008	Dr. K. P. Baraiya	Zonal Coordinator Unit-VI, ICAR, CAZRI, Jodhpur	Website Design and Development, Provided by ERNET India.
9.	11/08/2008 to 22/08/2008	Dr. J.N. Thaker	Zonal Coordinator Unit-VI, ICAR, CAZRI, Jodhpur	Website Design and Development, Provided by ERNET India.
10.	18/08/2008 to 22/08/2008	Dr. J.N. Thaker	Zonal Coordinator Unit-VI, ICAR, CAZRI, Jodhpur	LAN / WAN Technologies, Provided by ERNET India.
11.	8/09/2008 to 12/09/2008	Dr. K. P. Baraiya	Zonal Coordinator Unit-VI, ICAR, CAZRI, Jodhpur	LAN / WAN Technologies, Provided by ERNET India.
12.	15/09/2008 to 26/09/2008	Dr. V. J. Zizala	Zonal Coordinator Unit-VI, ICAR, CAZRI, Jodhpur	Website Design and Development, Provided by ERNET India.
13.	3/10/2008 to 12/10/2008	Dr. N. B. Jadav	Zonal Coordinator Unit-VI, ICAR, CAZRI, Jodhpur	Website Design and Development, Provided by ERNET India.

ANNEXURE – VIII

List of Farmers doing Mix Farming in KVK Villages

Village	Sr. No.	Name of Farmer	Age	Contact No.
Makwana	1.	Kantilal Bhagwanjibhai Ajudia	38	9824218489 0288-2910595
	2.	Khimjibhai Ladhabhai Akbari	36	
	3.	Chimanbhai Anandbhai Pragda	28	
	4.	Ramjibhai Hamirbhai Ahir	40	
	5.	Premjibhai Vashrambhai Patel	52	
Dhandha	6.	Dashrathsingh Anopsingh Sodha	38	
	7.	Jitendrabhai Valjibhai Makwana	36	
	8.	Lakhabhai Laxmanbhai Pragda	42	
	9.	Rajendrasingh Batukshigh Sodha	28	
	10.	Parbatbhai Tapubhai Makwana	29	
Mokhana	11.	Radhalbhai Jesangbhai Ahir	50	
	12.	Kiranbhai Govindbhai Parmar	42	
	13.	Vijalbhai Sukhabhai Ahir	38	
	14.	Amubhai Govindbhai Patel	39	
	15.	Govindbhai Nanjibhai Patel	41	
Konja	16.	Bharatbhai Popatbhai Vasoya	32	
	17.	Kantibhai Samjibhai Sakhiya	34	
	18.	Rameshbhai Devjibhai Patel	42	
	19.	Valjibhai Ratnabhai Patel	48	
	20.	Chakubhai Samjibhai Patel	51	
Chandraga	21.	Bachubhai Popatbhai Savaliya	42	92282330260
	22.	Bhikhabhai Popatbhai Patel	38	0288-2910275
	23.	Vitthalbhai Trikambhai Savaliya	32	
	24.	Bhupatbhai Raghdvajibhai Savaliya	38	
	25.	Ashokbhai Ravajibhai Vasoya	32	
Amra	26.	Mukeshbhai Khimjibhai Kanjariya	22	0288-2910138
	27.	Hareshbhai Pragjibhai Kanjariya	25	0288-2911194
	28.	Parshotambhai Devjibhai Dharaviya	37	0288-2911194
	29.	Kantilal Arjanbhai Sonagara	40	9924463956
	30.	Keshavjibhai Manjibhai Dharaviya	50	
Bed	31.	Dayalal Ravjibhai Kanjariya	32	0288-2911161
	32.	Ishvarbhai Nathubhai Dharaviya	32	9924261274
	33.	Gordhanbhai Chakubhai Kanjariya	35	
	34.	Dayabhai Manjibhai Sonagra	40	9904137282
	35.	Ajaybhai Madhavajibhai Khandar	20	
Dodhiya	36.	Mungara Narshibhai Bhagwanjibhai	44	0288-2885790
	37	Dobariya Valjibhai Lavjibhai	50	
	38.	Nurali serali Mukhida	28	
	39.	Chandresh Ramjibhai Patel	28	
	40.	Rashik Kanjibhai Trada	42	
Balambhadi	41.	Juvansingh Dadubha Jadeja	30	9924579737
	42.	Shaileshsingh Pratapsingh Jadeja	20	
	43.	Ajits Ali Ramjan Ali	30	
	44.	Mahavirsingh Varjangsingh Jadeja	35	
	45.	Salim Gulab Husen	32	
Jivapar	46.	Valjibhai Govindbhai Parmar	40	0288-2911126 9825407514
	47.	Nersani Valjibhai Parmar	42	088-2885682
	48.	Hirabhai Govindbhai Parmar	43	0288-2911127
	49.	Mansukhbhai Khimabhai Parmar	43	0288-2911008
	50.	Ramniklal Dharamsibhai Parmar	32	

List of Farmers doing Mix Farming in district

Taluka	Village	Sr. No.	Name of Farmer	Age	Contact No.
Jamnagar	Aliya	1.	Rameshbhai Narshangbhai Dangar	36	
	Khambhalida	2.	Jadeja Mahendrasingh Lalubha		
	NavaNagna	3.	Kanjibhai Premhibhai	45	9904437527
	Falla	4.	Damjibhai Muljibhai Dalsaniya		
	Jamnagar	5.	Kanjariya Chhaganbhai	42	9824398134
Jodia	Lakhtar	6.	Bhalodia Naranbhai Ravajibhai	31	9898839594
	Ananda	7.	Viramgama Hasmukhbhai Makanbhai	35	9426782358
	Badanpar	8.	Bhojani Laljibhai Mohanbhai	36	
	Keshiya	9.	Godhani Rashikbhai Naranbhai	34	
	Keshiya	10.	Godhani Jyotsnaben Pravinbhai	32	9427978347
Dhrol	Mansar	11.	Baraiya Ashwin Karamsibhai	31	9913036144
	Motavadiya	12.	Mungara Ushaben D.	28	9427444584
	Vankiya	13.	Bhimani Kanjibhai Mohanbhai	37	
	Mota Garedia	14.	Karshanbhai Patel	39	9898676732
	Gadhka	15.	Vikramsingh Kanbhai Jadeja	42	9879329839
Kalavad	Balambhadi	16.	Sabhaya Arvindbhai Ranchhodbhai	37	9879349688
	Jashapur	17.	Kachhadiya Girdharbhai Ghelabhai	38	9426481433
	Moti Matali	18.	Sabhaya Jamanbhai Thobhanbhai	36	9913448927
	Balambhadi	19.	Akbari Arvindbhai Ranchhodbhai	37	9879349688
	Jashapur	20.	Kachhadiya Girdharbhai Ghelabhai	39	9426481433
Lalpur	Navi Pipar	21.	Pruthviraj Ajesang Chauhan	45	9825164499
	Ishwariya	22.	Vinodbhai Dharamsibhai Patel	36	
	Moti Veraval	23.	Virani Vinodbhai Hirabhai	42	9925118542
	Pipartoda	24.	Kanjariya Bhagwanjibhai Veljibhai	45	02895 263160
	Lalpur	25.	Vachhani Mahendrabhai Ramjibhai	46	
Jam Jodhpur	Luvarsar	26.	Trada Vitthalbhai Jadavbhai	34	02898 266735
	Jamvadi	27.	Bhalani Bharatbhai Karshanbhai	36	9909442034
	Sonvadiya	28.	Vipul Vallabhbhai	27	02898 272272
	Vanana	29.	Popatbhai Rambhai Vashra	38	9925729579
	Deriambardi	30.	Nathubhai Tarshibhai Chavada	36	02898 267429
Bhanvad	Fatepur	31.	Kadavla Nanjibhai PUnjabhai	35	9924139196
	Ranpur	32.	Ranavaya Rajabhai	46	9925992590
	Timbadi	33.	Ravaliya Rameshbhai Hamirbhai	53	02896 241133
	Fotadi	34.	Chauhan Dhirubhai Mepabhai	28	9998562205
	Bhangor	35.	Jadeja Harvijaysingh Narehdrasingh	28	9925776106
Jamkhambhadia	Dharampur	36.	Nakum Hiralal Veljibhai	43	9824818346
	Harshadpur	37	Nakum Rameshbhai Jerambhai	38	9323429501
	Siddhpur	38.	Parmar Laljibhai Dosabhai	36	9428570337
	Haripur	39.	Nakum Muljibhai Nanjibhai	34	9824848276
	Hansthal	40.	Dethariya Pababhai Savajibhai	42	
Jam Kalyanpur	Dudhiya	41.	Kandoriya Ramsingh Arjanbhai	41	
	Gadhka	42.	Khandar Khimabhai Valabhai	33	9228747709
	Patelka	43.	Nagabhai Rambhai Bhochiya	36	9979399829
	Bhopalka	44.	Jadeja Mahendrasingh Devisingh	34	9228507805
	Dhumthal	45.	Gadhvi Jethabhai Kherajbhai	38	9913096683
Dwarka	Dwarka	46.	Kanabhai Karabhai Suva	35	9426224490
	Tupani	47.	Pithabhai Punjabhai Baradiyavadra	36	9998284260
	Poshitra	48.	Hakubhai Virjibhai (Somabhai)	35	9228179762
	Korada	49.	Naranbhai Karabhai Suva	39	
	Varvada	50.	Rameshbhai		

ANNEXURE – IX

PRA SURVEY CONDUCTING DURING 2008 OF THE JAMNAGAR BLOCK

Sr. No	Particulars	Irrigated					Rainfed				
		Makawana	***Chndraga***	***Dhandha***	***Konza***	***Mokhana***	***Bed***	***Balnbhadi***	***Dodhiya***	***Jivapar***	***Aanmabra***
		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 Popuplation**	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				
		Dharmpur	Vadatra	Jakasiya	Beraja	Virmadada	Haripur	Madhupur	Sidhpur	Navatathiya	Gokalapar
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 Popuplation**	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	Hodisang	Kalavad	Nanivavadi	Sanada	Prabhujipipadia	Nanabadnapar	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 Popuplation**	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**										
	Groundunt	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**										
	Groundunt	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 :**										
	Groundunt	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	VeravalRamapar	Arikhana	Murila	Godavari	Kanviradi	Apiya	Rasanpar	Naniraf udar	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 Popuplation**	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

SUMMARY TABLES OF ANNUAL PROGRESS REPORT – 2008-09

(OCTOBER 2007 TO SEPTEMBER-2008)

1 Details of Technologies assessed and refinement

Table 1A Abstract on the number of technologies assessed in respect of crops

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

Table 1B.Abstract on the number of technologies refined in respect of crops

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

Table 1C Abstract on 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	-	-	-	-	-	-	-	-

Table 1D Abstract on the number of technologies refined in respect of 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	-	-	-	-	-	-	-	-

Table 1E Details of Technology refined

Crop/ enterprise	Technology assessment	No. of Replications	Any refinement done	Justification for refinement
Pearl millet	Thinning at early stage enhance the yield of bajara	3	-	-
Groundnut	Management of stem rot in groundnut through *Trichoderma harzaneum*	3	-	-
INM in cotton	Use of balance fertilizers			

3.2 Details of Frontline Demonstrations

Table 2A Front Line Demonstrations on Oilseeds 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		
1	Groundnut	IDM, Variety	10	5	20.0	16.25	18.75	10293	5370	39707	1:3.86
2	Sesamum	Variety, IDM	20	10	8.75	7.5	14.29	2156	1520	31468	1:8.39
3	Castor	Variety	20	10	27.5	22.5	18.18	6227	4530	45750	1:7.04

Table 2B Front Line Demonstrations on Pulses 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		
1	Mung	Variety	10	5	10.63	8.94	15.88	2188	1488	23562	1:7.85
2	Chick pea	IPM, Variety	20	10	17.5	15	14.29	1650	1100	41125	1:5.88

Table 2C Front Line Demonstrations on Cotton

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

					Demo. Yield Qtl/ha	Check Qtl./ha	Increase in yield (%)	technology demonstrated		(Profit) (Rs./ha)	(Gross Return / Gross Cost)
								Demo	Local		
1	Cotton	IPM, Variety	40	20	25.0	20.63	17.50	10500	8020	51875	1:4.94

Table 2D Front Line Demonstrations on 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		
1	Wheat	Variety	40	20	53.75	45	16.28	1050	920	47068	1:3.51
2	Cumin	Variety	20	10	12.5	10	20	930	1250	83312	1:6.94
3	Chilli	IPM	10	5	120	110	8.33	350	1200	113500	1:6.88
4	Brinjal	IPM	10	5	487	452	7.17	350	1200	175200	1:8.85
5	Tomato	INM	10	5	558	526	5.81	250	600	153325	1:10.72
6	Cabbage/ Cauliflower	INM	20	10	121	113	6.18	250	600	62950	1:6.42

Table – 2E Front Line Demonstrations on Other enterprises

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Size of Unit	Parameter indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
						Demon.	Local check		

3. Details of training programmes conducted:

Table – 3 A Area-wise distribution of On + Off Campus Training Courses for Farmers and Farm Women (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	7	92	14	106	24	6	30	116	20	136
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	1	12	4	16	0	0	0	12	4	16
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0
Seed production	1	8	3	11	4	2	6	12	5	17
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	8	103	24	127	18	7	25	121	31	152
Fodder production	0	0	0	0	0	0	0	0	0	0

Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Total	17	215	45	260	46	15	61	261	60	321
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	2	26	7	33	6	4	10	32	11	43
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	8	2	10	3	1	4	11	3	14
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	1	7	2	9	2	2	4	9	4	13
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	1	9	3	12	3	4	7	12	7	19
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	3	23	6	29	18	8	26	41	14	55
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	8	73	20	93	32	19	51	105	39	144
III Soil Health and Fertility Management	0	0	0	0	0	0	0	0	0	0
Soil fertility management	1	7	2	9	4	1	5	11	3	14
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	4	38	13	51	17	10	27	55	23	78
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	3	42	4	46	8	2	10	50	6	56
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	1	12	0	12	5	0	5	17	0	17
Total	9	99	19	118	34	13	47	133	32	165
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	9	0	79	79	0	33	33	0	112	112
Income generation activities for empowerment of rural Women	12	0	182	182	0	56	56	0	238	238
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	3	0	40	40	0	16	16	0	56	56
Women and child care	6	0	78	78	0	60	60	0	138	138
Total	30	0	379	379	0	165	165	0	544	544
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	22	406	48	454	61	17	78	467	65	532
Integrated Disease Management	16	245	21	266	31	4	35	276	25	301
Bio-control of pests and diseases	8	78	13	91	23	9	32	101	22	123
Production of bio control agents and bio pesticides	1	8	5	13	6	0	6	14	5	19
Total	47	737	87	824	121	30	151	858	117	975
VIII Fisheries	0	0	0	0	0	0	0	0	0	0
Integrated fish farming	3	0	0	0	43	20	63	43	20	63
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	2	0	0	0	39	14	53	39	14	53
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	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0

Total	5	0	0	0	82	34	116	82	34	116
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Seed Production	2	16	5	21	15	6	21	31	11	42
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	38	465	162	627	166	107	273	631	269	900
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Total	40	481	167	648	181	113	294	662	280	942
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0	0
Leadership development	3	32	5	37	7	4	11	39	9	48
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	5	50	11	61	10	4	14	60	15	75
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	8	82	16	98	17	8	25	99	24	123
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	**164**	**1687**	**733**	**2420**	**513**	**397**	**910**	**2200**	**1130**	**3330**

Table – 3 B Area-wise distribution of On + Off Campus Training Courses for Rural Youth (regular + sponsored + vocational)

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
(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	2	0	2	10	3	13
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	12	0	86	86	0	12	12	0	98	98
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	2	0	0	0	18	3	21	18	3	21
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0

Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
TOTAL	**16**	**8**	**89**	**97**	**32**	**19**	**51**	**40**	**108**	**148**

Table – 3 C Area-wise distribution of On + Off Campus Training Courses for In-service Extension Personnel (regular + sponsored)

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
(C) Extension Personnel	0	0	0	0	0	0	0			0
Productivity enhancement in field crops	7	122	12	134	38	4	42	160	16	176
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
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	7	122	12	134	38	4	42	46	88	176

Table – 4 Numbers of Extension Activities and Beneficiaries

Nature of Extension Programme	No. of Progr-ammes	No. of Participants								
		General			SC / ST			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	30	309	165	474	65	16	81	374	181	555
Kisan Mela	1	5000	2000	7000	1500	500	2000	6500	2500	9000
Kisan Ghosthi	15	1902	760	266	566	195	761	2468	955	3423
Exhibition	-	-	-	-	-	-	-	-	-	-
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	5	60	45	105	35	25	60	95	70	165
Farmers Seminar	83	1317	560	1877	184	78	262	1501	638	2139
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	19	279	78	357	89	25	114	368	103	471
Lectures delivered as resource persons	91	1250	650	1900	350	251	601	1600	901	2501
Newspaper coverage	35	-	-	-	-	-	-	-	-	-
Radio talks	5	-	-	-	-	-	-	-	-	-
TV talks	10	-	-	-	-	-	-	-	-	-
Popular articles	2	-	-	-	-	-	-	-	-	-
Extension Literature	15			20500			300			23500
Advisory Services	-	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	440	783	45	828	250	19	369	1033	64	1097
Farmers visit to KVK	122	1103	480	1583	312	89	401	1418	569	1984
Diagnostic visits	13	109	18	127	43	7	50	152	25	177
Exposure visits	5	65	0	65	45	0	45	110	0	110
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	4660			3467			1193			4660
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	12	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	12	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)										
Female groups	13	0	127	127	0	50	50	0	177	177
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
Total	**5588**	**12177**	**4928**	**38676**	**3439**	**1255**	**6267**	**15619**	**6183**	**49959**

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	397.90	945012.5	
OILSEEDS	Groundnut	GG-5	65.10	244150	105
	Groundnut	GG-20	12.60	47250	15
	Sesamum	Guj.Til.-10	0.29	2543	41
PULSES	Greengram	GM-4	1.48	3891	22
	Blackgram	Guj.-1	6.04	6040	42
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)	Vermi culture	*Icenea fatida*	0.32	6400	6
	Vermi compost		160.75	48225	

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	397.90	945012.5	
2	OILSEEDS	77.99	293943	161
3	PULSES	7.52	9931	64
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS (Vermi Culture)	0.32	6400	6
	Vermi compost	160.75	48225	
TOTAL		**644.48**	**1303512**	**231**

Table 5B PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)		Provided to No. of Farmers
				Per plant	Total	
FRUITS	Mango	Keshar	533	60	31960	106
	Sapota	Kalipati	302	30	9060	60
	Guava		140	10	1400	28
	Custard apple		72	8	576	14
	Pomogranet		38	16	608	5
	Lemon	Kagdilime	188	10	1880	38
	Papaya	Madhubindu	215	0.50	107.5	3
SPICES						
VEGETABLES	Brinjal	Junagadh oblong	180	0.50	90	5
	Chilli	Reshampatto	85	0.50	42.5	3
FOREST SPECIES						
ORNAMENTAL CROPS						
PLANTATION CROPS	Coconut	D × T	564	20	11280	113
Others (specify)						

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	1488	45591.5	254
2	SPICES			
3	VEGETABLES	265	132.5	8
4	FOREST SPECIES			
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS	564	11280	113
7	OTHERS			
	TOTAL	**2317**	**57004**	**375**

Table 5C BIO PRODUCTS

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS	-	-	-	-	-	-
BIOFERTILIZERS	Rhizobium culture	*Rhizobium* spp.	200	2	3080 (15.4/Pack)	200
BIO PESTICIDES	Trichoderma	*Trichoderma viridii + T. Harzanium*	1264	1264	126400 (100/kg)	432

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS	*Rhizobium* spp.	200	2	3080 (15.4/Pack)	200
3	BIO PESTICIDE	*Trichoderma viridii + T. Harzanium*	1264	1264	126400 (100/kg)	432
	TOTAL		**1464**	**1266**	**129480**	**632**

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	-	-	-	-	-