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ANNUAL PROGRESS REPORT
(OCTOBER 2006 TO SEPTEMBER-2007)

&

ACTION PLAN
(OCTOBER 2007 TO SEPTEMBER 2008)

OF

KRISHI VIGYAN KENDRA JAMNAGAR

TO BE PRESENTED AT
ANNUAL ZONAL WORKSHOP OF ZONE-VI (Rajasthan & Gujarat)
HELD AT DIRECTORATE OF EXTENSION EDUCATION,
JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH-362 001
DURING 9th – 11th October, 2007.

PREPARED/COMPILED By

Dr. K. P. Baraiya, Senior Scientist & Head

Smt. A. K. Baraiya, Scientist

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JUNAGADH AGRICULTURAL UNIVERSITY
JAMNAGAR-361 006
GUJARAT

CONTENT

Sr. No		Particulars	page No.
1.	GENERAL INFORMATION ABOUT THE KVK		1
	1.1	Name and address of KVK with phone, fax and e-mail	1
	1.2	Name and address of host organization with phone, fax and e-mail	1
	1.3.	Name of the Programme Coordinator with phone & mobile No	1
	1.4.	Year of sanction:	1
	1.5.	Staff Position (as on 30th September 2007)	2
	1.6.	Total land with KVK (in ha) : 20.44 ha	3
	1.7.	Infrastructural Development:	3
	1.8.	A). Details SAC meeting conducted in the year	4
2.	DETAILS OF DISTRICT (2006-07)		7
	2.1.	Major farming systems/enterprises (based on the analysis made by the KVK)	8
	2.2.	Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)	9
	2.3.	Soil type	11
	2.4.	Area, Production and Productivity of major crops cultivated in the district	13
	2.5.	Weather data	14
	2.6.	Production and productivity of livestock, Poultry, Fisheries etc. in the district	15
	2.7.	Details of Operational area / Villages (2006-07)	16
	2.8	Priority thrust areas	17
3.	TECHNICAL ACHIEVEMENTS		18
	3.A.	Details of target and achievements of mandatory activities by KVK during 2006-07	18
	3.B.	Abstract of interventions undertaken	20
	3.1	Achievements on technologies assessed and refined	20
	A.1	Abstract on the number of technologies assessed in respect of crops	20
	A.2.	Abstract on the number of technologies refined in respect of crops	21
	A.3.	Abstract on the number of technologies assessed in respect of livestock / enterprises	21
	A.4.	Abstract on the number of technologies refined in respect of livestock / enterprises	21
	B.	Details of On Farm Trial carried out on farmers field	22
	C.	Results of On Farm Trials	24

	3.2	Achievements of Frontline Demonstrations	25
		a.Follow-up for results of FLDs implemented during evious years	25
		b.Details of FLDs implemented during 2006-07 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)	26
		c.Details of FLD on Enterprises	32
	3.3	Achievements on Training (Including the sponsored and FLD training programmes):	33
		A] On Campus	33
		B] Off Campus	39
		C) Consolidated table (On and OFF Campus)	45
		D) Vocational training programmes for Rural Youth	50
		E) Sponsored Training Programmes	51
	3.4.	Extension Activities (including activities of FLD programmes)	52
	3.5	Production and supply of Technological products	53
	3.6.	Literature Developed/Published (with full title, author & reference)	55
	3.7.	Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)	57
		3.7.1 Adoption of IPM in cotton	57
		3.7.2 Adoption of disease resistant variety of cumin	58
		3.7.3 Success Story : On Vermiculture	59
	3.8.	Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year	60
	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)	61
	3.10	Indicate the specific training need analysis tools/methodology followed for	61
	3.11	Field activities	61
	3.12	Activities of Soil and Water Testing Laboratory	62
4.0	IMPACT		62
	4.1	Impact of KVK activities (Not to be restricted for reporting period).	62
	4.2.	Cases of large scale adoption	63
	4.3	Details of impact analysis of KVK activities carried out during the reporting period	64
		4.3.1. Impact of FLDs (Groundnut – GG-5)	64
5.0	LINKAGES		68
	5.1.	Functional linkage with different organizations	68
	5.2.	List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies	70
	5.3	Details of linkage with ATMA	70

	5.4	Give details of programmes implemented under National Horticultural Mission	70
	5.5	Nature of linkage with National Fisheries Development Board	70
6.	PERFORMANCE OF INFRASTRUCTURE IN KVK		70
	6.1	Performance of demonstration units (other than instructional farm)	70
	6.2	Performance of instructional farm (Crops) including seed production	71
	6.3	Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)	71
	6.4	Performance of instructional farm (livestock and fisheries production)	71
	6.5	Utilization of hostel facilities	72
7.	FINANCIAL PERFORMANCE		72
	7.1	Details of KVK Bank accounts	72
	7.2	Utilization of funds under FLD on Oilseed (*Rs. In Lakhs*)	72
	7.3	Utilization of funds under FLD on Pulses *(Rs. In Lakhs)*	73
	7.4	Utilization of funds under FLD on Cotton *(Rs. In Lakhs)*	73
	7.5	Utilization of KVK funds during the year 2006 -07 and 2007 -08 (upto Sep. 2007) (year-wise separately) (current year and previous year)	73
	7.6	Status of revolving fund (Rs. in lakhs) for the three years	75
8.	PLEASE INCLUDE INFORMATION WHICH HAS NOT BEEN REFLECTED ABOVE (WRITE IN DETAIL).		76
	8.1	Constraints	76
	8.2.	Krishi mahotsav (20-04-07 to 19-05-07) Total Villages of\ Jamnagar District including 10 Talukas.	77
ANN. – I		Proceeding of the 2nd scientific advisory committee meeting of krishi vigyan kendra, JAU, Jamnagar held on 7th October-2006	79
ANN.– II		Weekly meteorological data 2006-07	83
ANN.– III		Details of training programme	85
ANN. – IV		" 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..	85
ANN.– V		District wise list of critical inputs supplied under demonstration	88
ANN.– VI		Attend training cum workshop by the KVK staff	90
ANN.– VII		List of Farmers doing Mix Farming in KVK Villages	91
		SUMMARY TABLES	94
		ACTION PLAN	105

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KRISHI VIGYAN KENDRA
JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	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

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

Address	Telephone		E mail
	Office	FAX	
Junagadh Agricultural University, Junagadh – 362 001 (Gujarat)	PBX 2672080-90	(0285) 2672653	
Director of Extension Education Junagadh Agricultural University, Junagadh – 362 001 (Gujarat)	(0285) 2672653 Mo. 9825506990	(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	Pay Scale	Present basic	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. J. N. Nariya	Prog. Co-ord.	Ag. Chem. & Soil Sci.	12000-18300	15780	18-07-05	Temp.	Others
2	Subject Matter Specialist	Dr. K. P. Baraiya	SMS	Plant Protection	8000-13500	9375	17-08-06	Temp.	Other
3	Subject Matter Specialist	Dr. N. B. Jadav	SMS	Extension	8000-13500	9375	18-08-06	Temp.	OBC
4	Subject Matter Specialist	Mrs. A. M. Kanani	SMS	Home Science	8000-13500	8275	17-08-06	Temp.	Other
5	Subject Matter Specialist	Dr. V. J. Zizala	SMS	Crop Production	8000-13500	9375	24-08-06	Temp.	OBC
6	Subject Matter Specialist	Dr. J. N. Thaker	SMS	Fisheries	8000-13500	9375	31-08-06	Temp.	Other
7	Subject Matter Specialist		SMS		8000-13500		Vacant		
8	Programme Assistant	Shri P. S. Gorfad	Prog. Asstt.	Extension Education	5500-9000	7600	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	8000-13500	8500	1-06-2007	Temp.	OBC
11	Accountant / Superintendent	Shri N. H. Vasavda	Sr. Clerk	Adm.	4000-6000	5700	1-07-05	Temp.	Others
12	Stenographer	Shri A.V. Thakkar	Sr. Clerk	Adm.	4000-6000	5700	3-10-74	Temp.	Other
13	Driver	Shri A.D. Qureshi	Driver	Supt.	4000-6000	5300	1-10-04	Temp.	OBC
14	Driver	Shir. S.J. Savsani	Driver	Supt.	4000-6000	6000	1-03-06	Temp.	Other
15	Supporting staff	Shri B.D. Dudakia	Peon	Supt.	2550-3200	2720	1-10-04	Temp.	OBC
16	Supporting staff	Shri Pankaj Damor	Peon	Supt. (Fix)	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	0.20
3	Under crops	14.06
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	2,65,891	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
Microwave oven (Home Sci.)	2006-07	5800	Working

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

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	1-10-2005	21	-	-
2.	7-10-2006	30	As below	As below
3.	5-10-2007			

The second Scientific Advisory Committee meeting of Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar held on 7th October-2006.

Sl. No.	Salient recommendations	Action taken	Suggested by
1.	Arrange maximum vocational Training, Identify thrust area and priority of the thrust area.	Vocational Training – 29, Identify thrust area and rearrange priority of it.	Dr. M.K. Mandape
2.	Trained farmers about new agro-techniques and practices	Farmers trained for – Vermi compost, Recycling of waste material, Home science training on Tomato ketchup, Jam, Jelly, Bakery items, Pickles,	Dr. M.K. Mandape
3.	List out farmers doing mix farming and train them on same base	List out of five Farmers from KVK villages as well as Blocks (Appendix-IV)	Dr. M.K. Mandape
4.	Survey of district about availability of ponds, lakes, reservoirs for composite fish culture and demonstrate.	Dam - 16 Pod small - 180 Big pond - 40 Lake - 3 Watershed Major 40 Watershed Minor - 22 Bori bandh - 40 Check dam - 243	Dr. M.K. Mandape
5.	Increase cooperation with Television and Radio telecast. Increase broadcasting about work done by KVK. For this matter fully supported and financed by DRDA	Awaiting for allotment of grant as well as response from DRDA. We have already remind four times	Mr. Sampat, (DRDA)
6.	Arrange exposure visits of progressive farmers, FIGs, SHGs, and other groups. This will fully financed by DRDA.	Awaiting for allotment of grant as well as response from DRDA. We have already remind four times	Mr. Sampat, (DRDA)
7.	Prepare animal unit and silo pit for greed fodder preservation on KVK farm as well farmers field in different villages, arrange training on the same subject, this will sponsored by DRDA	Awaiting for allotment of grant as well as response from DRDA. We have already remind four times	Mr. Sampat, (DRDA)
8.	Prepare fish pond and farm pond as demonstration unit on KVK farm as well as farmers field in different villages, arrange training on the same subject, this will sponsored by DRDA	Awaiting for allotment of grant as well as response from DRDA. We have already remind four times	Mr. Sampat, (DRDA)
9.	Prepare drip irrigation for horticultural and vegetable crops as demonstration unit on KVK farm as well as farmers field in different villages, arrange training on the same subject, this will sponsored by DRDA	Awaiting for allotment of grant as well as response from DRDA. We have already remind four times	Mr. Sampat, (DRDA)
10.	Develop home science laboratory as demonstration unit on KVK farm and	Awaiting for allotment of grant as well as response	Mr. Sampat, (DRDA)

	arrange training for farmwomen. This will sponsored by DRDA	from DRDA. We have already remind four times	
11.	Prepare vermin compost and crop crafeteria as demonstration unit on KVK farm as well as farmers field in different villages, arrange training on the same subject, this will sponsored by DRDA	Awaiting for allotment of grant as well as response from DRDA. We have already remind four times	Mr. Sampat, (DRDA)
12.	Arrange training on "Jetrofa Cultivation" and interested groups/ farmers are provided seed/ seedlings and other information. Information and financial helped by DRDA and Forest department	Awaiting for allotment of grant as well as response from DRDA. We have already remind four times	Mr. Sampat, (DRDA), & Forest Dept.
13.	Work cooperatively with GLDC for guidance to farmers about different crops	Already we works cooperatively with all line departments	Mr. Sampat, (DRDA)
14.	Arrange inland fishing training programme with DRDA department also provide financial help by them.	Awaiting for allotment of grant as well as response from DRDA. We have already remind four times	Mr. Sampat, (DRDA)
15.	Training on law cost technology like own seed production, utilization of available resources, seed treatment, nutritional requirement.	Already this types of training in our training components we included	Shri Haribhai S. Bhanushali
16.	Revised training programme as per seasons and requirements of farmers in all discipline	All the training schedules prepared as per their requirements	Dr.K.L. Raghwani
17.	Revised action plan for training programme of all the discipline as per crop situation, product, and resources availability. All the programs specify in details	Training programme conducted as per revised action plan	Dr.D.B. Kuchhadia, Dr.A.M. Parakhiya, Dr.K.L. Raghwani, Dr.B.B. Kabariya
18.	Strong linkage and better cooperation as well as collaborative work with other departments	Already established. Although efforts are continuous	Dr. A.M. Parakhiya, Dr. D.B. Kuchhadia
19.	Publications literatures should be surplus to all the SAC members	Suggestion accepted & followed for circulation of booklet	Dr. D.B. Kuchhadia
20.	Prepare Power point presentation in local language (Gujarati), and also prepare annual report in Gujarati as well as English as per proforma	Suggestion accepted & followed for preparation of annual progress report (April-06 to March-07) in both language English & Gujarati	Dr. D.B. Kuchhadia
21.	Report should be circulated to all the SAC members & DDO before one week of meeting	Suggestion accepted & followed	Dr. D.B. Kuchhadia

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

2. DETAILS OF DISTRICT (2006-07)

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	180000 ha (Part of Kalyanpur, Jamnagar, Jamkhambhalia , Lalpur, Dhrol, Jodia)

		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 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	31000 ha (Some part of Bhanvad and Jamjodhpur)

		placed in to *Ustorthents* and those near foothills and valley are comparatively deeper can be placed under *Ustochrepts* 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	316210	4319850	13.66
2	Sesamum	16580	63010	3.80
3	Castor	10050	260490	25.92
4	Mustard	450	8420	18.71
5	Cotton	215170	5379250	25
6	Wheat	54500	1594120	29.25
7	Pearlmillet	15925	204100	12.82
8	Sorghum	3200	32000	10
9	Maize	580	4060	7
10	Greengram	2780	14760	5.31
11	Blackgram	3745	22770	6.08
12	Chickpea	30400	307550	10.12
13	Pigeon pea	405	4210	10.40
	Dill seed	100	500	5.00
	Cowpea	550	2040	3.71
	SPICES AND CONDIMENTS			
14	Cumin	21800	113400	5.20
15	Fennel	100	200	2.00
16	Coriander	1350	14175	10.50
17	Ajwan	6650	26600	4.00
18	Ishabgul	100	670	6.70
19	Chilli	1250	11880	9.50
20	Garlic	7350	529200	72.00
	Total spices	38400	693030	18.05
	VEGETABLE			
21	Onion	2500	430490	172.20
22	Potato	2150	47625	22.15
23	Brinjal	1520	167960	110.50
24	Tomato	1975	298230	151.00
25	Cauliflower	435	43940	101.01
26	Cowpea	825	33830	41.01
27	Cabbage	460	46000	100.00
28	Okra	1535	82890	54.00
29	Fenugreek	50	625	12.50
30	Peach			

31	Cucurbits	40	1500	37.50
32	Cluster bean	1115	44600	40.00
33	Other vegetable	17	480	28.24
	Total Vegetable	12572	1418670	112.84
	FRUIT CROPS			
34	Chiku	238	21540	90.50
35	Pomegranate	77	3890	50.52
36	Citrus	173	6760	39.08
37	Jamun	5	10	2.00
38	Aonla	71	2770	39.01
39	Guava	5	200	40.00
40	Custard apple	66	3400	51.52
41	Papaya	566	260360	460.00
42	Coconut	368	2760000 (Nuts)	7500 (Nuts)
43	Ber	318	16700	52.52
44	Almond	50	2000	40.00
45	Banana	3	280	93.33
46	Mango	420	37270	88.74
47	Cashew nut	6	20	3.33
48	Other fruits	163	8000	49.08
	Total Fruits	2474	361190	145.99
	FLOWERS			
49	Rose	28	1620	57.86
50	Merry gold	50	4400	88.00
51	Shevanti			
52	Lilly	8	20	2.50
53	Other flowers	53	1480	27.92
	Total flowers			
	OTHER CORPS			
54	Chikori	1150	99250	86.30
55	Palma Rosa	43	5160	120.00

2.5. Weather data

Month	Temperature ⁰ C		Relative Humidity (%)		Rainfall (mm)	Rainy days
	Maximum	Minimum	Morning	Evening		
June-06	35.3	27.6	82	57	13.5	1
July-06	31.1	25.3	91	77	389.5	14
August-06	29.2	23.9	93	80	286.5	15
September-06	31.7	24.2	93	67	92.5	6
October-06	33.6	21.5	87	47	-	-
November-06	30.9	16.6	77	33	-	-
December-06	26.7	13.4	77	73	-	-

January-07	26.4	10.3	78	32	-	-
February-07	28.9	14.9	84	41	-	-
March-07	32.6	17.4	85	40	-	-
April-07	35.3	23	89	56	-	-
May-07	35.0	24.8	80	52	-	-
June-07	35.2	25.4	87	63	88.5	9
July-07	31.7	24.3	92	75	484.0	9
August-07	29.7	23.6	95	79	644.	16
September-07	32.0	23.6	95	67	291.5	6

* 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				

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.

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2006-07

OFT				
1				
	Number of OFTs		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
Bajara	1	1	3	3
Groundnut	1	1	3	3

FLD				
2				
	Number of FLDs		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
***Kharif* -06**				
Groundnut (GG-5)	10	10	20	20
Sesamum (Guj Til-2)	5	5	10	10
Castor (GCH-6)	10	10	20	20
Pearl Millet (GHB-577)	20	20	40	40
TOTAL	**45**	**45**	**90**	**90**
***Rabi* -2006-07**				
Chick pea (Guj-2)	5	5	10	10
Wheat (GW-496)	20	20	40	40
Mustard (GM-3)	10	10	20	20
Total	**35**	**35**	**70**	**70**
***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**

FLD conducting other than KVK 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**

Training				
3				
	Number of Courses		**Number of Participants**	
	Targets	**Achievement**	**Targets**	**Achievement**
Groundnut (GG-5)	1	1	20	20
Sesamum (Guj Til-2)	1	1	10	10
Castor (GCH-6)	1	1	20	20
Pearl Millet (GHB-577)	1	1	40	40
Chick pea (Guj-2)	1	1	10	10
Wheat (GW-496)	1	1	40	40
Mustard (GM-3)	1	1	20	20

Extension Activities				
4				
	Number of activities		**Number of Participants**	
	Targets	**Achievement**	**Targets**	**Achievement**
Groundnut (GG-5)	5	5	100	140
Sesamum (Guj Til-2)	2	2	40	50
Castor (GCH-6)	4	4	80	95
Pearl Millet (GHB-577)	4	4	80	100
Chick pea (Guj-2)	2	2	40	56
Wheat (GW-496)	6	6	120	140
Mustard (GM-3)	5	5	100	135

Seed Production (Qtl.)		
5		
	Target	**Achievement**
Groundnut (GG-5)	12	12.6
Sesamum (Guj Til-2)	6	5.6
Castor (GCH-6)	27	28.6
Pearl Millet (GHB-577)	22	21.40
Chick pea (Guj-2)	20	16.4
Wheat (GW-496)	50	53.6
Mustard (GM-3)	15	17.9

Planting material (Nos.)		
6		
	Target	**Achievement**
	Nil	Nil

3.B. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	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

3.1 Achievements on technologies assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed/Thining Management	1(Bajara)									
Integrated Crop Management										
Integrated Nutrient Management				1 (Cotton)						
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management										
Integrated Disease Management		1 (G'nut)								
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	1	1		1						

A.2. Abstract on the number of technologies refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management	1(Bajara)									
Integrated Crop Management										
Integrated Nutrient Management				1 (Cotton)						
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						

A.3. 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	-	-	-	-	-	-	-	-

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

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

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

OFT – 1 :- Cereals (Bajara)

1) Title of OFT **:** Low yield of Bajara.

Variety : G.H.B– 577

Season : *Kharif* –2006

No. of farmers : 3 (Three)

1. Bharatsingh Anupsingh Sodha (Dhandha)
2. Dashradhsingh Anupsingh Sodha (Dhandha)
3. Ghoghubha Anupsingh Sodha (Dhandha)

Size of the plot : 0.40 ha.

2) Problem diagnose: 1. Competition among plants for :

a. Moisture,

b. Nutrients,

c. Sunlight

2. Weeding problem arises
3. Insect –pest problem arises
4. Effect the healthiness of the crop plant:
   a. Growth
   b. No. of effective tillers
   c. Ear heads
5. Lodging problem arises and early maturity of the crop
6. Reduced the quality of seeds and grain yield

Effect of time of thinning on yield of Bajara

3) Details of technologies selected for assessment/refinement:

T_1 - Farmers practices (control)

T_2 - Thinning at 15 DAG

T_3 - Thinning at 21 DAG,

4) Source of technology: Millet Research Station, J.A.U., Jamnagar

5) Production system and thematic area : Time of thinning on yield of bajara

6) Performance of the Technology with performance indicators : Thinning at early stage enhance the yield of bajara

7) Final recommendation for micro level situation : Thinning at 15 days after germination gave better growth and yield of bajara

8) Constraints identified and feedback for research :

- Growth and effective tillers of pearl millet
- Reduce lodging problem
- Get maximum yield

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

OFT – 2 :- Oilseeds (Groundnut)

1) Title of OFT : Yield losses in groundnut due to Sclerotium stem rot.

Variety: GG-20

Season: *Kharif*- 2006

No. of farmers : 3 (Three)

1. Bharat Damjibhai Parmar (Hadiyana)
2. Kishor Damjibhai Parmar (Hadiyana)
3. Damji Bhanabhai Parmar (Hadiyana)

Size of plot : 0.40 ha

2) Problem diagnose:

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) Details of technologies selected for assessment/refinement:

T_1- Farmers practice (Control)

T_2- *Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing

T_3 - Castor cake @ 500 kg/ha

4) Source of technology: Main Oilseeds Research Station, J.A.U., Junagadh

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

6) Performance of the Technology with performance indicators: 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

7) Final recommendation for micro level situation : *Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing

8) 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

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

C. Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter (kg/ha)
1	2	3	4	5	6	7	8
Pearl millet	Rainfed	Time of thining	Low yield of Bajara	3	Thinning at early stage enhance the yield of bajara	T_1 - Farmers practices (Thinning at 28-30 DAG)	1650
						T_2 - Improved Practice (Thinning at 15 DAG)	2052 (24.30%)
						T_3 - Refined Practices (Thinning at 21 DAG)	1824 (10.50%)
Groundnut	Rainfed	Stem rot (*Sclerotium 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)	1200
						T_2- Improved Practice (*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	1450 (20.80%)
						T_3 – Refined Practices (Castor cake @ 500 kg/ha)	1321 (10.80%)

**** 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	Thinning at 15 days after germination of Bajara, enhance the yield of bajara.	Growth and effective tillers of pearl millet Reduce lodging problem Get maximum yield	-	-
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 per unit**	**Net Return (Profit) in Rs. / unit**	**BC Ratio**
1	**13**	**14**	**15**	**16**
Pearl millet	T_1 - Farmers practices (Thinning at 28-30 DAG)	1650	10262	-
	T_2 - Improved Practice (Thinning at 15 DAG)	2052 (24.30%)	12377	1.21

	T_3 - Refined Practices (Thinning at 21 DAG)	1824 (10.50%)	11124	1.08
Ground-nut	T_1- Farmers practice (Control)	1200	26845	-
	T_2- Improved Practice (*Trichoderma harzeanum* @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing)	1450 (20.80%)	31068	1.15
	T_3 – Refined Practices (Castor cake @ 500 kg/ha)	1321 (10.80%)	28750	1.07

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

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

3.2 Achievements of Frontline Demonstrations

Among the various methods of transfer of technology, frontline demonstration is one the most powerful tool. During *kharif* season of 2006 and *rabi* 2006-07 in all 100 FLDs on different crops were conducted on the farmers' field in the adopted villages during *kharif*-06 and *rabi*-06-07. The major crops demonstrated were Groundnut (GG-5), Sesamum (G. Til-2), Castor (GCH-5) and Pearl Millet (GHB-577) during *kharif*-06, while during *rabi* 2006-07 the crops demonstrated were Chickpea (Guj-2), Mustard (GM-3) and Wheat (GW-496). The efforts were made to test the yield potentiality of these varieties on the farmers' field and yield was compared with local existing varieties. In most of the cases, yield performance of newly demonstrated varieties of various crops on farmers' field was found superior over local check. Performance of various demonstrations is 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 of *Trichoderma* and castor cake for reduction 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 2006-07 (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	Groun-dnut	IDM	IDM, Variety	*Kharif* 2006-07	10	10	2	18	20	-
2	Castor	IDM	Variety	*Kharif* 06-07	10	10	5	15	20	
3	Sesa-mum	ICM	Variety, IDM	*Kharif* 06-07	5	5	2	8	10	
4	Pear lmillet	Weed management	Time of thinning	*Kharif* 2006-07	20	20	18	22	40	-
5	Wheat	Varietal Evaluation	Variety	*Rabi* 2006-07	20	20	12	28	40	-
6	Mustard	Varietal Evaluation	Variety	*Rabi* 06-07	10	10	3	17	20	
7	Chick pea	IDM/IPM	IPM, Variety	*Rabi* 2006-07	5	5	2	8	10	

Details of farming situation

Crop	Season	Farming situation (RF/ Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Groundnut	*Kharif*	Rainfed	Medium black soil	Low	Medium	High	G'nut, Sesamum	6 to 14 Oct. 05	20 to 29 Jan. 06	766	36
Castor	*Kharif*	Rainfed	Medium black soil	Low	Medium	High	cotton	6 to 14 Oct. 05	20 to 29 Jan. 06	766	36
Sesa-mum	*Kharif*	Rainfed	Light soil	Low	Medium	High	Pearl-millet	6 to 14 Oct. 05	20 to 29 Jan. 06	766	36
Pearl millet	*Kharif*	Rainfed	Medium black soil	Low	Medium	High	G'nut, Sesamum	6 to 14 Oct. 05	20 to 29 Jan. 06	766	36
Wheat	*Rabi*	Irrigated	Medium black	Low	Medi-um	high	Groun-dnut	9 – 15 Nov. - 05	8 – 22 Mar. 06	-	-
Mustard	*Rabi*	Irrigated	Medium black soil	Low	Medium	High	Pearl-millet	6 to 14 Oct. 05	20 to 29 Jan. 06	-	-
Chick pea	*Rabi*	Irrigated	Medium black soil	Low	Medium	High	Pearl-millet	3 – 6 Oct. 05	10-17 Jan. 06	-	-

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	Groun-dnut	IDM, Variety	GG-5	20	10	20.5	11.3	12.6	9.95	21.03	6200	4000
2	Castor	Variety	GCH-6	20	10	36.9	26.2	28.6	25.2	11.89	4700	3200
3	Sesamum	Variety, IDM	Guj.Til-2	10	5	8.9	3.9	5.6	3.6	35.71	2900	1300
4	Pearl millet	Time of thinning	GHB-577	40	20	22.00	18.20	21.40	17.80	16.82	2500	1700
5	Wheat	Variety	GW-322	40	20	56.4	47.8	53.6	43.6	18.66	4300	3400
6	Mustard	Variety	GM-2	20	10	21.60	15.8	17.9	14.9	16.76	4600	3000
7	Chick pea	IPM, Variety	Guj-2	10	5	20.80	14.30	16.40	12.80	21.95	4900	3000

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

Economic Impact (continuation of previous table)

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
6200	4000	21492	16972	15292	12972	1:2.47
4700	3200	35759	31508	31059	28308	1:6.61
2900	1300	18201	11701	15301	10401	1:5.28
2500	1700	9416	7832	6916	6132	1:2.77
4300	3400	37788	30738	33488	27338	1:7.79
4600	3000	27208	22648	22608	19648	1:4.91
4900	3000	22632	17664	17732	14664	1:3.62

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
Groun dnut	*Kharif* - 2006	Seed (Variety)	GG-5	Rainfed	12.6	9.95	21.03
		Bio-fertilizer	PSB+ Culture				
		Fertilizer Management					
		Plant Protection	Methyl 0 demeton				

			@ 0.003%, Imidacloprid @ 0.006%				
		Combination of Components					
		a. NPK + Gypsum					
		b. Improved Seed + Gypsum					
Castor	*Kharif* - 2006	Seed (Variety)	GCH-6	Rainfed	28.6	25.2	11.89
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Quinalphos @ 0.05% 500 ml				
		Combination of Components					
		a. NPK + Gypsum					
		b. Improved Seed + Gypsum					
Sesamum	*Kharif* - 2006	Seed (Variety)	Guj Til-2	Rainfed	5.6	3.6	35.71
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection	Endosulfan 0.07%				
		Combination of Components					
		a. NPK + Gypsum					
		b. Improved Seed + Gypsum					
Pearl Millet	*Kharif* - 2006	Seed (Variety)	GHB-577	Rainfed	21.40	17.80	16.82
		Bio-fertilizer					
		Fertilizer Management					
		Plant Protection					
		Combination of Components					
		a. NPK + Gypsum					
		b. Improved Seed + Gypsum					
Wheat	*Rabi* 2006 - 07	Seed (Variety)	GW – 496	Irrigated	53.75	52.50	22.86
		Bio-fertilizer	PSB+ Culture				
		Fertilizer Management	120:60:0				
		Plant Protection	Chlorpyriphos				
		Combination of Components					
		a. NPK + Gypsum					
		b. Improved Seed + Gypsum					
Mustard	*Rabi* 2006 -	Seed (Variety)	GM – 2	Irrigated	19.65	15.45	21.37
		Bio-fertilizer	PSB+ Culture				

	07	Fertilizer Management	50:50:0				
		Plant Protection	Methyl 0 demeton @ 0.003%, Imidacloprid @ 0.006%				
		Combination of Components					
		a. NPK + Gypsum					
		b. Improved Seed + Gypsum					
Chick Pea	*Rabi* 2006 - 07	Seed (Variety)	Guj – 2	Irrigated	15.30	12.06	32.70
		Bio-fertilizer	PSB+ Culture				
		Fertilizer Management	20:40:0				
		Plant Protection	Endosulfan @ 0.07%,				
		Combination of Components					
		a. NPK + Gypsum					
		b. Improved Seed + Gypsum					

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	Castor	GCH-6	➢ Triple bloom variety having less attack of sucking pests ➢ High yielding variety
3	Sesamum	Guj.Til-2	➢ No seed setering ➢ Selling percent is good ➢ Good quality produce having high market value
4	Pearl millet	GHB-577	➢ High yielding variety ➢ Resistant to eargot diseases ➢ High tillers ➢ Good backing quality ➢ Synchronies maturity
5	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
6	Mustard	GM-2	➢ Resistant to aphid infestation ➢ High yield potentiality ➢ Grain size of bold and attractive
7	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	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
3	Sesamum	Guj.Til-2	➢ Seed quality is good ➢ High germination percentage ➢ Selling percent is good ➢ Good quality produce having high market value
4	Pearl millet	GHB-577	➢ Sweet in eating, high backing quality ➢ High tillers ➢ High market value

			➢ Sweet fodders for animals
5	Wheat	GW-496	➢ Seed provided was healthy with good germination ➢ Require termite and stem borer resistant variety.
6	Mustard	GM-2	➢ Seed provided was healthy with good germination ➢ There is a low incidence of aphid
7	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

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	3		56	22	78	
2.	Training for farmers	1		20	-	20	
3.	Radio Talk	1					
4	Training for Extension functionaries	1		22	-	22	
	Castor						
1.	Field days	3		44	18	62	
2.	Training for farmers	1		20	-	20	
3.	Radio Talk	1					
4	Training for Extension functionaries						
	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						
	Pearl millet						
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	1		40	-	40	
3.	Media coverage (Radio Talk)	1					
4.	Training for Extension functionaries						
	Mustard						
1.	Field days	3		70	15	85	
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	2		36	12	48	
2.	Training for farmers	1		10	-	10	
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			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	2	38	4	42	2	0	2	44
Resource Conservation Technologies				0			0	0
Cropping Systems	1	16	8	24	0	0	0	24
Crop Diversification				0			0	0
Integrated Farming				0			0	0
Water management				0			0	0
Seed production	1	23	4	27	4	2	6	33
Nursery management				0			0	0
Integrated Crop Management	4	84	18	102	4	1	5	107
Fodder production				0			0	0
Production of organic inputs				0			0	0
Total	8	161	34	195	10	3	13	208
II Horticulture				0			0	0
a) Vegetable Crops				0			0	0
Production of low volume and high value crops	1	22	7	29	3	2	5	34
Off-season vegetables				0			0	0
Nursery raising	1	16	5	21	3	1	4	25
Exotic vegetables like Broccoli				0			0	0
Export potential vegetables				0			0	0
Grading and standardization				0			0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0
b) Fruits				0			0	0
Training and Pruning				0			0	0
Layout and Management of Orchards				0			0	0
Cultivation of Fruit	1	20	4	24	2	2	4	28
Management of young plants/orchards				0			0	0
Rejuvenation of old orchards				0			0	0
Export potential fruits				0			0	0
Micro irrigation systems of orchards				0			0	0
Plant propagation techniques				0			0	0
c) Ornamental Plants				0			0	0
Nursery Management	1	16	6	22	3	4	7	29

Management of potted plants				0			0	0
Export potential of ornamental plants				0			0	0
Propagation techniques of Ornamental Plants				0			0	0
d) Plantation crops				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
e) Tuber crops				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
f) Spices				0			0	0
Production and Management technology	1	18	6	24	3	4	7	31
Processing and value addition				0			0	0
g) Medicinal and Aromatic Plants				0			0	0
Nursery management				0			0	0
Production and management technology				0			0	0
Post harvest technology and value addition				0			0	0
Total	5	92	28	120	14	13	27	147
III Soil Health and Fertility Management				0			0	0
Soil fertility management	1	16	8	24	4	1	5	29
Soil and Water Conservation				0			0	0
Integrated Nutrient Management	2	39	7	46	4	2	6	52
Production and use of organic inputs				0			0	0
Management of Problematic soils				0			0	0
Micro nutrient deficiency in crops				0			0	0
Nutrient Use Efficiency				0			0	0
Soil and Water Testing	1	18		18	3		3	21
Total	4	73	15	88	11	3	14	102
IV Livestock Production and Management				0			0	0
Dairy Management				0			0	0
Poultry Management				0			0	0
Piggery Management				0			0	0
Rabbit Management				0			0	0
Disease Management				0			0	0

Feed management				0			0	0
Production of quality animal products				0			0	0
Total	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
Design and development of low/minimum cost diet				0			0	0
Designing and development for high nutrient efficiency diet				0			0	0
Minimization of nutrient loss in processing				0			0	0
Gender mainstreaming through SHGs				0			0	0
Storage loss minimization techniques				0			0	0
Value addition	1		17	17		2	2	19
Income generation activities for empowerment of rural Women	8		146	146		18	18	164
Location specific drudgery reduction technologies				0			0	0
Rural Crafts	2		38	38		4	4	42
Women and child care	4		162	162		15	15	177
Total	15	0	363	363	0	39	39	402
VI Agril. Engineering				0			0	0
Installation and maintenance of micro irrigation systems				0			0	0
Use of Plastics in farming practices				0			0	0
Production of small tools and implements				0			0	0
Repair and maintenance of farm machinery and implements				0			0	0
Small scale processing and value addition				0			0	0
Post Harvest Technology				0			0	0
Total	0	0	0	0	0	0	0	0
VII Plant Protection				0			0	0
Integrated Pest Management	8	198	26	224	22	6	28	252
Integrated Disease Management	6	126	14	140	6	4	10	150
Bio-control of pests and diseases	2	38	9	47	5	3	8	55

Production of bio control agents and bio pesticides	1	21	5	26	3		3	29
Total	17	383	54	437	36	13	49	486
VIII Fisheries				0			0	0
Integrated fish farming	1			0	14	8	22	22
Carp breeding and hatchery management				0			0	0
Carp fry and fingerling rearing				0			0	0
Composite fish culture	1			0	17	9	26	26
Hatchery management and culture of freshwater prawn				0			0	0
Breeding and culture of ornamental fishes				0			0	0
Portable plastic carp hatchery				0			0	0
Pen culture of fish and prawn				0			0	0
Shrimp farming				0			0	0
Edible oyster farming				0			0	0
Pearl culture				0			0	0
Fish processing and value addition				0			0	0
Total	2	0	0	0	31	17	48	48
IX Production of Inputs at site				0			0	0
Seed Production	2	46	16	62	12	5	17	79
Planting material production				0			0	0
Bio-agents production				0			0	0
Bio-pesticides production				0			0	0
Bio-fertilizer production				0			0	0
Vermi-compost production	14	243	164	407	88	32	120	527
Organic manures production				0			0	0
Production of fry and fingerlings				0			0	0
Production of Bee-colonies and wax sheets				0			0	0
Small tools and implements				0			0	0
Production of livestock feed and fodder				0			0	0
Production of Fish feed				0			0	0
Total	16	289	180	469	100	37	137	606
X Capacity Building and Group Dynamics				0			0	0
Leadership development	1	22	6	28	2	2	4	32
Group dynamics				0			0	0
Formation and Management of SHGs	2	42	11	53	5	2	7	60
Mobilization of social capital				0			0	0

Entrepreneurial development of farmers/youths				0			0	0
WTO and IPR issues				0			0	0
Total	3	64	17	81	7	4	11	92
XI Agro-forestry				0			0	0
Production technologies				0			0	0
Nursery management				0			0	0
Integrated Farming Systems				0			0	0
Total	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)				0			0	0
TOTAL	70	1062	591	1653	209	129	338	1991
(B) RURAL YOUTH				0			0	0
Mushroom Production				0			0	0
Bee-keeping				0			0	0
Integrated farming				0			0	0
Seed production				0			0	0
Production of organic inputs				0			0	0
Integrated Farming	1	20	6	26	4		4	30
Planting material production	3	54	22	76	8	4	12	88
Vermi-culture				0			0	0
Sericulture				0			0	0
Protected cultivation of vegetable crops				0			0	0
Commercial fruit production				0			0	0
Repair and maintenance of farm machinery and implements				0			0	0
Nursery Management of Horticulture crops				0			0	0
Training and pruning of orchards				0			0	0
Value addition	2		57	57		12	12	69
Production of quality animal products				0			0	0
Dairying				0			0	0
Sheep and goat rearing				0			0	0
Quail farming				0			0	0
Piggery				0			0	0
Rabbit farming				0			0	0
Poultry production				0			0	0
Ornamental fisheries	1			0	18	5	23	23
Para vets				0			0	0
Para extension workers				0			0	0
Composite fish culture				0			0	0

Freshwater prawn culture	1			0	12		12	12
Shrimp farming				0			0	0
Pearl culture				0			0	0
Cold water fisheries				0			0	0
Fish harvest and processing technology				0			0	0
Fry and fingerling rearing				0			0	0
Small scale processing				0			0	0
Post Harvest Technology				0			0	0
Tailoring and Stitching				0			0	0
Rural Crafts				0			0	0
TOTAL	8	74	85	159	42	21	63	222
(C) Extension Personnel				0			0	0
Productivity enhancement in field crops	3	58	7	65	4	3	7	72
Integrated Pest Management				0			0	0
Integrated Nutrient management				0			0	0
Rejuvenation of old orchards				0			0	0
Protected cultivation technology				0			0	0
Formation and Management of SHGs				0			0	0
Group Dynamics and farmers organization				0			0	0
Information networking among farmers				0			0	0
Capacity building for ICT application				0			0	0
Care and maintenance of farm machinery and implements				0			0	0
WTO and IPR issues				0			0	0
Management in farm animals				0			0	0
Livestock feed and fodder production				0			0	0
Household food security				0			0	0
Women and Child care				0			0	0
Low cost and nutrient efficient diet designing				0			0	0
Production and use of organic inputs				0			0	0
Gender mainstreaming through SHGs				0			0	0
Any other (Pl. Specify)				0			0	0
TOTAL	3			0			0	0
Grand Total	**81**	**1136**	**676**	**1812**	**251**	**150**	**401**	**2213**

B) Off Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	2	47	6	53	7	0	7	60
Resource Conservation Technologies				0			0	0
Cropping Systems	1	22	7	29	0	0	0	29
Crop Diversification				0			0	0
Integrated Farming				0			0	0
Water management				0			0	0
Seed production	2	42	14	56	11	6	17	73
Nursery management				0			0	0
Integrated Crop Management	5	136	22	158	12	6	18	176
Fodder production				0			0	0
Production of organic inputs				0			0	0
Total	10	247	49	296	30	12	42	338
II Horticulture				0			0	0
a) Vegetable Crops				0			0	0
Production of low volume and high value crops	1	32	4	36	3	2	5	41
Off-season vegetables				0			0	0
Nursery raising				0			0	0
Exotic vegetables like Broccoli				0			0	0
Export potential vegetables				0			0	0
Grading and standardization				0			0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0
b) Fruits				0			0	0
Training and Pruning				0			0	0
Layout and Management of Orchards				0			0	0
Cultivation of Fruit	1	26	6	32	3	3	6	38
Management of young plants/orchards				0			0	0
Rejuvenation of old orchards				0			0	0
Export potential fruits				0			0	0
Micro irrigation systems of orchards				0			0	0
Plant propagation techniques				0			0	0
c) Ornamental Plants				0			0	0
Nursery Management				0			0	0
Management of potted plants				0			0	0

Export potential of ornamental plants				0			0	0
Propagation techniques of Ornamental Plants				0			0	0
d) Plantation crops				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
e) Tuber crops				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
f) Spices				0			0	0
Production and Management technology	1	24	8	32	4	6	10	42
Processing and value addition				0			0	0
g) Medicinal and Aromatic Plants				0			0	0
Nursery management				0			0	0
Production and management technology				0			0	0
Post harvest technology and value addition				0			0	0
Total	3	82	18	100	10	11	21	121
III Soil Health and Fertility Management				0			0	0
Soil fertility management				0			0	0
Soil and Water Conservation				0			0	0
Integrated Nutrient Management	2	49	9	58	7	3	10	68
Production and use of organic inputs				0			0	0
Management of Problematic soils				0			0	0
Micro nutrient deficiency in crops				0			0	0
Nutrient Use Efficiency				0			0	0
Soil and Water Testing				0			0	0
Total	2	49	9	58	7	3	10	68
IV Livestock Production and Management				0			0	0
Dairy Management				0			0	0
Poultry Management				0			0	0
Piggery Management				0			0	0
Rabbit Management				0			0	0
Disease Management	1	47	16	63	8	4	12	75
Feed management				0			0	0

Production of quality animal products				0			0	0
Total	1	47	16	63	8	4	12	75
V Home Science/Women empowerment				0			0	0
Household food security by kitchen gardening and nutrition gardening				0			0	0
Design and development of low/minimum cost diet				0			0	0
Designing and development for high nutrient efficiency diet				0			0	0
Minimization of nutrient loss in processing				0			0	0
Gender mainstreaming through SHGs				0			0	0
Storage loss minimization techniques				0			0	0
Value addition	1		27	27		6	6	33
Income generation activities for empowerment of rural Women	4		135	135		17	17	152
Location specific drudgery reduction technologies				0			0	0
Rural Crafts	1		32	32		3	3	35
Women and child care	2		52	52		14	14	66
Total	8	0	246	246	0	40	40	286
VI Agril. Engineering				0			0	0
Installation and maintenance of micro irrigation systems				0			0	0
Use of Plastics in farming practices				0			0	0
Production of small tools and implements				0			0	0
Repair and maintenance of farm machinery and implements				0			0	0
Small scale processing and value addition				0			0	0
Post Harvest Technology				0			0	0
Total	0	0	0	0	0	0	0	0
VII Plant Protection				0			0	0
Integrated Pest Management	12	265	30	295	25	7	32	327
Integrated Disease Management	6	142	13	155	5	2	7	162
Bio-control of pests and diseases	2	42	7	49	4	3	7	56

Production of bio control agents and bio pesticides				0			0	0
Total	20	449	50	499	34	12	46	545
VIII Fisheries				0			0	0
Integrated fish farming	1			0	23	8	31	31
Carp breeding and hatchery management				0			0	0
Carp fry and fingerling rearing				0			0	0
Composite fish culture	1			0	20	9	29	29
Hatchery management and culture of freshwater prawn				0			0	0
Breeding and culture of ornamental fishes				0			0	0
Portable plastic carp hatchery				0			0	0
Pen culture of fish and prawn				0			0	0
Shrimp farming				0			0	0
Edible oyster farming				0			0	0
Pearl culture				0			0	0
Fish processing and value addition				0			0	0
Total	2	0	0	0	43	17	60	60
IX Production of Inputs at site				0			0	0
Seed Production	1	26	11	37	10	4	14	51
Planting material production				0			0	0
Bio-agents production				0			0	0
Bio-pesticides production				0			0	0
Bio-fertilizer production				0			0	0
Vermi-compost production	30	450	175	625	78	32	110	735
Organic manures production				0			0	0
Production of fry and fingerlings				0			0	0
Production of Bee-colonies and wax sheets				0			0	0
Small tools and implements				0			0	0
Production of livestock feed and fodder				0			0	0
Production of Fish feed				0			0	0
Total	31	476	186	662	88	36	124	786
X Capacity Building and Group Dynamics				0			0	0
Leadership development	1	26	5	31	4	2	6	37
Group dynamics				0			0	0
Formation and Management of SHGs	2	46	15	61	5	2	7	68
Mobilization of social capital				0			0	0

Entrepreneurial development of farmers/youths				0			0	0
WTO and IPR issues				0			0	0
Total	3	72	20	92	9	4	13	105
XI Agro-forestry				0			0	0
Production technologies				0			0	0
Nursery management				0			0	0
Integrated Farming Systems				0			0	0
Total	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)				0			0	0
TOTAL	80	1422	594	2016	229	139	368	2384
(B) RURAL YOUTH				0			0	0
Mushroom Production				0			0	0
Bee-keeping				0			0	0
Integrated farming				0			0	0
Seed production				0			0	0
Production of organic inputs				0			0	0
Integrated Farming	1	28	8	36	4		4	40
Planting material production	3	56	14	70	8	4	12	82
Vermi-culture				0			0	0
Sericulture				0			0	0
Protected cultivation of vegetable crops				0			0	0
Commercial fruit production				0			0	0
Repair and maintenance of farm machinery and implements				0			0	0
Nursery Management of Horticulture crops				0			0	0
Training and pruning of orchards				0			0	0
Value addition	2		52	52		4	4	56
Production of quality animal products				0			0	0
Dairying				0			0	0
Sheep and goat rearing				0			0	0
Quail farming				0			0	0
Piggery				0			0	0
Rabbit farming				0			0	0
Poultry production				0			0	0
Ornamental fisheries	1			0	22	7	29	29
Para vets				0			0	0
Para extension workers				0			0	0
Composite fish culture				0			0	0

Freshwater prawn culture	1			0	18	9	27	27
Shrimp farming				0			0	0
Pearl culture				0			0	0
Cold water fisheries				0			0	0
Fish harvest and processing technology				0			0	0
Fry and fingerling rearing				0			0	0
Small scale processing				0			0	0
Post Harvest Technology				0			0	0
Tailoring and Stitching				0			0	0
Rural Crafts				0			0	0
TOTAL	8	84	74	158	52	24	76	234
(C) Extension Personnel				0			0	0
Productivity enhancement in field crops	3	62	4	66	6	2	8	74
Integrated Pest Management				0			0	0
Integrated Nutrient management				0			0	0
Rejuvenation of old orchards				0			0	0
Protected cultivation technology				0			0	0
Formation and Management of SHGs				0			0	0
Group Dynamics and farmers organization				0			0	0
Information networking among farmers				0			0	0
Capacity building for ICT application				0			0	0
Care and maintenance of farm machinery and implements				0			0	0
WTO and IPR issues				0			0	0
Management in farm animals				0			0	0
Livestock feed and fodder production				0			0	0
Household food security				0			0	0
Women and Child care				0			0	0
Low cost and nutrient efficient diet designing				0			0	0
Production and use of organic inputs				0			0	0
Gender mainstreaming through SHGs				0			0	0
Any other (Pl. Specify)				0			0	0
TOTAL	3			0			0	0
Grand Total	**91**	**1506**	**668**	**2174**	**281**	**163**	**444**	**2618**

C) Consolidated table (On and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	4	85	10	95	9	0	9	104
Resource Conservation Technologies	0	0	0	0	0	0	0	0
Cropping Systems	2	38	15	53	0	0	0	53
Crop Diversification	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0
Seed production	3	65	18	83	15	8	23	106
Nursery management	0	0	0	0	0	0	0	0
Integrated Crop Management	9	220	40	260	16	7	23	283
Fodder production	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0
Total	18	408	83	491	40	15	55	546
II Horticulture	0	0	0	0	0	0	0	0
a) Vegetable Crops	0	0	0	0	0	0	0	0
Production of low volume and high value crops	2	54	11	65	6	4	10	75
Off-season vegetables	0	0	0	0	0	0	0	0
Nursery raising	1	16	5	21	3	1	4	25
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0
b) Fruits	0	0	0	0	0	0	0	0
Training and Pruning	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0
Cultivation of Fruit	2	46	10	56	5	5	10	66
Management of young plants/orchards	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0
c) Ornamental Plants	0	0	0	0	0	0	0	0
Nursery Management	1	16	6	22	3	4	7	29
Management of potted plants	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0

Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0
Production and Management technology	2	42	14	56	7	10	17	73
Processing and value addition	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0
Total	8	174	46	220	24	24	48	268
III Soil Health and Fertility Management	0	0	0	0	0	0	0	0
Soil fertility management	1	16	8	24	4	1	5	29
Soil and Water Conservation	0	0	0	0	0	0	0	0
Integrated Nutrient Management	4	88	16	104	11	5	16	120
Production and use of organic inputs	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0
Soil and Water Testing	1	18	0	18	3	0	3	21
Total	6	122	24	146	18	6	24	170
IV Livestock Production and Management	0	0	0	0	0	0	0	0
Dairy Management	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0
Disease Management	1	47	16	63	8	4	12	75
Feed management	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0
Total	1	47	16	63	8	4	12	75
V Home Science/Women empowerment	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
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0
Value addition	2	0	44	44	0	8	8	52
Income generation activities for empowerment of rural Women	12	0	281	281	0	35	35	316
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0
Rural Crafts	3	0	70	70	0	7	7	77
Women and child care	6	0	214	214	0	29	29	243
Total	23	0	609	609	0	79	79	688
VI Agril. Engineering	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
VII Plant Protection	0	0	0	0	0	0	0	0
Integrated Pest Management	20	463	56	519	47	13	60	579
Integrated Disease Management	12	268	27	295	11	6	17	312
Bio-control of pests and diseases	4	80	16	96	9	6	15	111
Production of bio control agents and bio pesticides	1	21	5	26	3	0	3	29
Total	37	832	104	936	70	25	95	1031
VIII Fisheries	0	0	0	0	0	0	0	0
Integrated fish farming	2	0	0	0	37	16	53	53
Carp breeding and hatchery management	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0

Composite fish culture	2	0	0	0	37	18	55	55
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0
Total	4	0	0	0	74	34	108	108
IX Production of Inputs at site	0	0	0	0	0	0	0	0
Seed Production	3	72	27	99	22	9	31	130
Planting material production	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	44	693	339	1032	166	64	230	1262
Organic manures production	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0
Total	47	765	366	1131	188	73	261	1392
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0
Leadership development	2	48	11	59	6	4	10	69
Group dynamics	0	0	0	0	0	0	0	0
Formation and Management of SHGs	4	88	26	114	10	4	14	128
Mobilization of social capital	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0
Total	6	136	37	173	16	8	24	197
XI Agro-forestry	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0
TOTAL	150	2484	1185	3669	438	268	706	4375

	0	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
Bee-keeping	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0
Integrated Farming	2	48	14	62	8	0	8	70
Planting material production	6	110	36	146	16	8	24	170
Vermi-culture	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0
Value addition	4	0	109	109	0	16	16	125
Production of quality animal products	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0
Ornamental fisheries	2	0	0	0	40	12	52	52
Para vets	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Freshwater prawn culture	2	0	0	0	30	9	39	39
Shrimp farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0
TOTAL	16	158	159	317	94	45	139	456
	0	0	0	0	0	0	0	0
(C) Extension Personnel	0	0	0	0	0	0	0	0

Productivity enhancement in field crops	6	120	11	131	10	5	15	146
Integrated Pest Management	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Any other (Pl. Specify)	0	0	0	0	0	0	0	0
TOTAL	6	0	0	0	0	0	0	0
Grand Total	172	2642	1344	3986	532	313	845	4831

Details of training programmes given in Annexure – III

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			No. of persons employed else where
				Male	Female	Total	Type of units	No. of units	No. of persons employed	
Vermi compost	Shortage of FYM	Production and use of organic input	1	87	32	119	Vermicompost unit	7	7	-
Vegetable	Value addition in vegetable	Packaging & Preservation of vegetables	1		40	40	Home unit	1	1	-
Fruit	Value addition in fruits	Preparation of Jam - Jelly & pickles	1		16	16	Home unit	2	2	-

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

Sl. No.	Title	Thematic area	Month	Dura-tion	Client	No.	Total No. of participants							Sponsoring Agency
							Male			Female			Total	
							Other	SC/ ST	Total	Other	SC/ ST	Total		
1	Isopom (Oilseeds)	Soil fertility/ Crop Prod./ Plant Prot.	Oct. 06	2	PF	4	362	15	377	38	6	44	421	DAO
2	Cotton Mini-mission	Soil fertility/ Crop Prod./ Plant Prot.	Oct. 06	2	PF	2	185	5	190	20	3	23	213	DAO
3		Extension/	Oct. 06	1	PF	1	-	-	0	26	4	30	30	NGO
4	Land Utiliza-tion	Soil fertility/ Crop Prod./ Plant Prot.	Oct. 06	2	PF	1	65	3	68	-	-	0	68	GNFC
5		Extension	Jun 07	1	PF	1	62	5	67	-	-	0	67	BOB
6		Soil fertility/ Crop Prod./ Plant Prot.	Jun 07	2	PF	1	47	5	52	22	5	27	79	NABARD
7	Efficient use of waste land	Soil fertility/ Crop Prod./ Plant Prot.	May 07	1	PF	1	36	7	43	-	-	0	43	Forestry
8	Vermi compost	Soil fertility/ Crop Prod./ Plant Prot.	May 07	2	PF	1	112	6	118	13	3	16	134	DRDA
9	Canning & kitchen gardening	Soil fertility/ Crop Prod./ Plant Prot.	Oct. 06	1	PF	3	360	18	378	42	12	54	432	Horticu-lture
10	Vermi-compost	Soil fertility/ Crop Prod./ Plant Prot.	Oct. 06	1	RY	10			0	590	120	710	710	DRDA
11	Organic farming	Soil fertility/ Crop Prod./ Plant Prot.	Dec. 06	1	RY	1	112	8	120	-	-	0	120	NABARD
12	Water-shed techno-logy	Soil fertility/ Crop Prod./ Plant Prot./ Agri. Engineering	March 07	1	RY	1	105	6	111	-	-	0	111	DRDA
13	Vermi-compost	Soil fertility/ Crop Prod./ Plant Prot.	Nov. 06	1	EF	1	44	11	55	18	6	24	79	NGO
14	Organic farming	Fruit-Vegetable Prod./ Plant Prot.	Dec. 06	1	EF	1	42	6	48	-	-	0	48	Horticulture
15	Cotton Minimission-II	Soil fertility/ Crop Prod./ Plant Prot./	April 07	2	EF	1	23	3	26	-	-	0	26	DAO
	Total						**1555**	**98**	**1653**	**769**	**159**	**928**	**2581**	

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	43	733	200	933	185	20	205	918	220	1138
Kisan Mela										
Kisan Ghosthi	22	300	24	324	5	2	7	305	26	331
Exhibition	2	3000	800	3800	200	50	250	3200	850	4050
Film Show										
Method Demonstrations										
Farmers Seminar	111	3050	1046	4096	410	125	535	3460	1171	4631
Workshop										
Group meetings										
Lectures delivered as resource persons	32							0	0	0
Newspaper coverage	26							0	0	0
Radio talks	6							0	0	0
TV talks	2							0	0	0
Popular articles	5							0	0	0
Extension Literature	35							0	0	0
Advisory Services	38	852	220	1072	52	12	64	904	232	1136
Scientific visit to farmers field	121	332	-	332	21	-	21	353	0	353
Farmers visit to KVK	55	1008	260	1268	65	5	70	1073	265	1338
Diagnostic visits	3	18	6	24				18	6	24
Exposure visits										
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp	14	756		756	80		80	836	0	836
Agri mobile clinic	858	1146		1146				1146	0	1146
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Any Other (Specify)										
Soil & water sample analysis	56	56		56				56	0	56
Total	**1429**	**11251**	**2556**	**13807**	**1018**	**214**	**1232**	**12269**	**2770**	**15039**

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	235	2455	1052	3507				2455	1052	3507
Demonstrations	1700			1700				0	0	1700
District Training	6	104	76	180	6			110	76	180
Village Training	43	1150	489	1639				1150	489	1639
Exposure visits	2	68	14	82				68	14	82
Inter State Exposure Visit	6	199	85	284				199	85	284
Capacity Building of the Groups	135			1500				0	0	1500
Organizing Kishan Mela	3	8000	4000	12000				8000	4000	12000
Field Days	12	309	15	324				309	15	324
Dissemination of Technology through Printed Leaflet	9			19000				0	0	19000
F-S interaction	4	289	214	512				289	214	512
Kisan Gosthi	27	886	589	1475				886	589	1475
FAIC	1							0	0	0
	2183	**13460**	**6534**	**42203**	**6**	**0**	**0**	**13466**	**6534**	**20003**

3.5 Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
OILSEEDS	Groundnut	GG-5	40.05	106125.5	11
PULSES					
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)	Vermi culture	*Icenea fatida*	2020	404000	405
	Vermi compost		160	480	2

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS			
2	OILSEEDS	40.05	106125.5	11
3	PULSES			
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS (Vermi Culture)	20.20	404000	405
	Vermi compost	1.60	480	2
TOTAL		**61.85**	**510605.5**	**418**

PLANTING MATERIALS

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

SUMMARY

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

BIO PRODUCTS

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

SUMMARY

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

LIVESTOCK

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

SUMMARY

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

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

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

- 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	Dr. J.N. Thaker	

	Saddharta	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	
	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

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	84	74	35	2250
Water Samples	66	60	17	1600
Total	150	134	52	3850

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	87	32	Nil	Initial development of vermicompost unit
2.	Jam-Jelly, Pickle preparation	40	16	Nil	Initial development
3.	Bekery items	16	4	Nil	Initial development
4.	Inland fisheries	9	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)

4.3.1. Impact of FLDs (Groundnut – GG-5)

There are various ways to teach the farmers about new innovations. Result demonstrations were found to be the most effective to teach the farmers in local conditions. Here the method of new practice is shown to the farmes in a simple and understable manner. Result demonstration conducted at his own field will be a convincing tool for the farmers for adoption of new practices.

A frontline demonstration is modified form of result demonstration. In this demonstration, the scientists or innovators of the new technology him self organizing the demonstration on farmers field. The scientists are getting an opportunity to come in direct contact with the farmers, therefore it is most effective tool for transferring the agricultural technology to the farmers.

The main aim of frontline demonstration is "To demonstrate under real farmers field situations, the superior production potentials and benefits of the latest improved technologies in agriculture".

Groundnut is one of the important commercial oilseed crops in the semi-arid tropical regions like India. India ranks first in both area as well as production of groundnut in the world and contribute about 40 per cent share in area and 30 per cent share in the global production. Groundnut occupies over 31.17 per cent area and 34.62 per cent production among nine oilseed crops in India. Further, Gujarat stands first in respect of area (1.9262 million hectares) and production (2.6159 million tonnes) in India with productivity of 1358 kg/ha. Bulk of the crop is grown during the *kharif* season as a rainfed crop, but it is taken during summer season wherever the irrigation facilities are available. The crop is growing as monoculture in Saurashtra region of the State during monsoon season. In Gujarat, Junagadh, Rajkot, Amreli, Jamnagar, Bhavnagar and Sabarkantha districts contribute about 88 per cent production of groundnut. Groundnut is important crop of Jamnagar district. The total area of groundnut 316210 ha, production 431985 M.T. and productivity was 1366 kg in Jamnagar district.

Frontline demonstration Programme of groundnut (GG-5) organized by KVK, Jamnagar in adopt village during last three year (Kharif 2004-05 to 2006-07) was considered for the study to measure the impact of frontline demonstrations of groundnut GG-5. Demonstrations were organized on those farmers field, they were considered as demonstrator farmers and other farmers of neighbouring area will be considered as non demonstrator farmers.

To cover all the pertinent aspect in light of the objectives of study, an interview schedule with questions on all variables was prepared for collection of data. It was translated into Gujarati language. It was personally introduced to the respondents individually following the principles of interviewing to elicit better response. In order to

test the significance of difference in average for different variables of demonstrator and non demonstrator respondents under the study.

Findings and discussion:

The information related to this study was collected from the respondents by means of personal interview with the help of interview schedule. The data, thus collected were classified, tabulated, analysed and presented in light of the objectives of the study. The facts and findings derived after analyzing the information are presented under the following major heads.

1) Selected characteristics of respondents
2) Comparison of demonstrator and non – demonstrator with respect to their characteristics.

1) Selected characteristics of respondents :

Considering the objectives of the study, Characteristics of the respondents viz, age, education, annual income, social participation, extension participation, size of land holding, risk preference, irrigation potentiality, knowledge, adoption and yield of groundnut were taken for the study.

The findings are presented in Table : 1

Table : 1 Distribution of respondents according to their characteristics

Sr. No	Characteristics	Category of respondents			
		Demonstrator $n_1 = 52$		Non-demonstrator $n_2 = 52$	
		Frequency	%	Frequency	%
1	2	3	4	5	6
1	AGE				
	Young age (up to 35 year)	06	11.54	07	13.46
	Middle age (36 to 50 year)	36	69.23	33	63.46
	Old age (above 50 year)	10	19.23	12	23.08
2	EDUCATION				
	Illiterate	02	03.84	05	09.62
	Low education (1st to 7th std.)	25	48.08	34	65.38
	Medium education (8th to 10th std)	15	28.85	11	21.15
	High education (above 10th std)	10	19.23	02	03.85
3	ANNUAL INCOME				
	Low annual income (below Rs. 20000)	09	17.31	15	28.85
	Medium annual income (Rs.20000 to 30000)	23	44.23	15	28.85
	High annual income (above Rs. 30000)	20	38.46	22	42.30
4	SOCIAL PARTICIPATION				
	Low social participation	04	07.69	10	19.23
	Medium social participation	38	73.08	35	37.31
	High social participation	10	19.23	07	13.46
5	EXTENSION PARTICIPATION				

	Low extension participation	03	05.77	13	25.00
	Medium extension participation	44	84.62	37	71.15
	High extension participation	05	09.61	02	03.85
6	Size of land holding				
	Small holding (up to 2 ha)	25	48.08	27	51.92
	Medium holding (>2 to 5 ha)	18	34.62	15	28.85
	Large holding (above 5 ha)	09	17.30	10	19.23
7	RISK PREFERENCE				
	Low risk preference	04	07.69	08	15.38
	Medium risk preference	34	65.39	36	69.24
	High risk preference	14	26.92	08	15.38
8	IRRIGATION POTENTIALITY				
	Low IP	06	11.54	10	19.23
	Medium IP	35	67.31	32	61.54
	High IP	11	21.15	10	19.23
9	KNOWLEDGE LEVEL				
	Low knowledge level	7	13.46	7	13.46
	Medium knowledge level	19	36.54	34	65.39
	High knowledge level	26	50.00	11	21.15
10	EXTENT OF ADOPTION				
	Low adoption	6	11.54	11	21.15
	Medium adoption	8	15.38	31	59.62
	High adoption	38	73.08	10	19.23
11	YIELD LEVEL				
	Low yield level	10	19.23	13	25.00
	Medium yield level	12	23.08	30	57.69
	High yield level	30	57.69	09	13.31

From above Table : 1 revealed that majority of the demonstrator (69.23 %) and non – demonstrator (63.46 %) respondents were middle age group and had low education to medium education of demonstrator (76.93 %) and non – demonstrator (86.53 %). About (44.23 %) and (38.46 %) demonstrator respondents belong to medium and high annual income respectively. While slightly higher than half (57.70 %), non-demonstrator respondents belong to low and medium income. Majoritydemonstrator (73.08 %) and non –demonstrator (67.31 %) respondents found medium social participation and demonstrator (84.62 %) and non – demonstrator (71.15 %) respondents had medium extension participation. About half of the demonstrator (48.08 %) and non-demonstrator (51.92%) respondents having small size of land holding. Majority of the demonstrator (65.39 %) and non – demonstrator (69.34%) respondents belonged to medium risk preference. Same trend was observed in case of irrigation potentiality.

Exact half of the demonstrator respondents had high knowledge level. While majority of the non – demonstrator (65.39 %) respondents fall in medium knowledge level about the groundnut production technology.

Majority of demonstrator (73.08%) respondents were high adopters. while in case of non demonstrator majority respondents (59.62%) fall in medium adoption category.

Majority of demonstrator (57.69 %) fall in high yield level category. while in case of non – demonstrator (57.69 %) respondents belong to medium yield level about groundnut production technology.

2) Comparison of demonstrator and non – demonstrator with respect to their characteristics.

The impact of frontline demonstration is influenced by different characterstics of the respondents. it was not possible to consider all the characteristics of the respondents for this study. However, some of the important characteristics were selected.

The responses obtained from the respondents were subjected to statistical tests to find out the difference between two groups of respondents with respect to 11 selected characterstics. For this purpose Z – test was applied. The findings in these regards are presented in Table : 2.

Table : 2 Comparison between the selected characteristics of demonstrator and non – demonstrator respondents. N=104

Sr. No.	Variables	Unit	Mean values		Mean difference	'Z' value
			Demon. N= 52	Non-demo. N=52		
1	Age	Year	43.40	43.75	-0.35	0.29^{NS}
2	Education	Std.	7.40	6.90	0.50	0.94^{NS}
3	Annual income	Rank	2.21	2.13	0.80	0.72^{NS}
4	Social participation	Score	3.13	2.46	0.67	2.68**
5	Extension participation	Score	41.42	21.44	19.98	44.4**
6	Size of land holding	Ha	3.52	3.20	0.32	1.06^{NS}
7	Risk preference	Score	11.71	8.58	3.13	7.83**
8	Irrigation potentiality	Percent	58.94	49.29	9.65	4.80**
9	Knowledge level	Percent	64.33	50.36	13.97	7.89**
10	Extent of adoption	Percent	65.62	53.00	12.62	8.14**
11	Yield level	Kg/ha	2374.8	1483.4	891.4	9.63**

The data in Table :2 indicated that 'Z' value were not significant in case of age, education, annual income and size of land holding/. Hence, it can be concluded that there was no significant difference in case of age, education, annual income and size of land holding of demonstrator and non demonstrator respondents. While in case of social participation, extension participation, risk preference, irrigation potentiality, knowledge level, extent of adoption and yield level, higly significant differences were observed at

0.01 level of significance. Looking to the mean value to these characteristics of demonstrator and non – demonstrator respondents, it can be concluded that demonstrator respondents found superior than non demonstrator respondents in case of social participation, extension participation, risk preference, irrigation potentiality, knowledge level, extent of adoption and yield level.

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	50000/-
Establishment of Transfer of Technology (TOT)	2005-06	State Government	100000/-
Agricultural Technology Management Agency (ATMA)	2004-05	Government of India	2700000

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.	We have submitted proposal for fisheries development		

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	2005-06	150 sq. m	*Icenea fatida*	Vermi compost	19.25	4000	5775	Newly established vermi compost
2	Vermi compost Unit	2005-06	150 sq. m	*Icenea fatida*	Vermi culture	0.41		8200	
3	Vermi compost	2006-07	10X60	*Icenea*	Vermi	20.20	1.5	404000	

	Unit		m	*fatida*	culture		lakh		
4	Vermi compost Unit	2006-07	10X60 m	*Icenea fatida*	Vermi compost	1.60		480	

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	12-10-06	Feb.07	1.0	GW-496	Grain	58.80		49268	
					Fodder	69.00			
Pulses									
Chick Pea	12-10-06	Feb.07	0.5	GG-4	Grain	0.87		1936	
					Fodder	1.50			
Oilseeds									
Ground-nut	3-7-06	Oct.06	13	GG-5	Fodder	120.00		17100	
					Pod	46.75		121568	
Sesamum	15-7-06		3	G.Til-1	Grain	-		-	
Mustard	12-10-06	Feb.07	0.5	GM-3	Grain	2.50		3550	
					Fodder	3.50			
Fibers	-	-	-	-	-	-	-	-	-
Spices & Plantatpion crops	-	-	-	-	-	-	-	-	-
Floriculture	-	-	-	-	-	-	-	-	
Fruits	-	-	-	-	-	-	-	-	
vegetable	-	-	-	-	-	-	-	-	
Other (Fodder)	-	-	-	-	-	-	-	-	
Sorghum	8-7-06	Oct.-06	4	Gundri	Fodder	20.00		4100	
					Grain	-	-		

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	Qty.	Cost of	Gross	

			Produce		inputs	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 2006	-	-	-
November 2006	-	-	-
December 2006	-	-	-
January 2007	-	-	-
February 2007	-	-	-
March 2007	-	-	-
April 2007	-	-	-
May 2007	-	-	-
June 2007	-	-	-
July 2007	-	-	-
August 2007	-	-	-
September 2007	-	-	-

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

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

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2007
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Inputs	70000	17500	35000	3507	14813
Extension activities	10000	2500	5000	501	2116

TA/DA/POL etc.	20000	5000	10000	1002	4232
TOTAL	100000	25000	50000	5010	21161

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2007
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Inputs	-	10838	-	3556	7280
Extension activities	-	1548	-	508	1040
TA/DA/POL etc.	-	3096.56	-	1016	2080.56
TOTAL	**-**	**15482.56**	**-**	**5080**	**10402.56**

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2007
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
TOTAL	-	-	-	-	-

7.5 Utilization of KVK funds during the year 2006 -07 and 2007 -08 (upto Sep. 2007) (year-wise separately) (current year and previous year)

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	**Recurring Contingencies**			
1	**Pay & Allowances**	**2600000**	**2600000**	**1874147**
2	**Traveling allowances**	75000	75000	71132
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	65000	65000	66380
B	POL, repair of vehicles, tractor and equipments	40000	40000	46000

C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	50000	50000	56500
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	25000	25000	32100
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	30000	30000	37800
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	25000	25000	32600
G	Training of extension functionaries	15000	15000	30026
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)	**2925000**	**2925000**	**2246685**
B.	**Non-Recurring Contingencies**			
1	**Works**	999000	999000	999000
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)	10000	10000	6120
	TOTAL (B)	**1009000**	**1009000**	**1005120**
C.	**REVOLVING FUND**			
GRAND TOTAL (A+B+C)		**3934000**	**3934000**	**3251805**

Utilization of KVK funds during the year 2007 -08 (upto Sep. 2007) (year-wise separately) (current year)

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	**Recurring Contingencies**			
1	**Pay & Allowances**	2900000	2900000	1274842
2	**Traveling allowances**	90000	90000	8282
3	**Contingencies**			
A	Stationery, telephone, postage and other	125000	125000	9106

	expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments	65000	65000	31281
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	75000	75000	14188
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	85000	85000	22319
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	90000	90000	74041
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	65000	65000	53795
G	Training of extension functionaries	45000	45000	25352
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)			
B.	**Non-Recurring Contingencies**	**3540000**	**3540000**	**1513206**
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)		**3540000**	**3540000**	**1513206**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2004 to March 2005	-	-	-	-

April 2005 to March 2006	1	0.2772	0.07674	1.20043
April 2006 to March 2007	1.20043	1.5697	0.68064	2.08946
April 2007 to Sept. 2007	2.08946	5.438	0.84502	6.68248

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

8.1 CONSTRAINTS

a. Administrative

1. Additional post of Junior Clerk should provide 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. Reddening of cotton leaves.
4. Sulphur, zinc & iron deficiency found in groundnut.

d. Others

1. Separate lecture hall, Office building, Museum hall, Soil Testing Laboratory and home science laboratory should be provided as early as possible.

8.2. KRISHI MAHOTSAV (20-04-07 to 19-05-07) 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 (MAY– 2007)
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 2nd SCIENTIFIC ADVISORY COMMITTEE MEETING OF KRISHI VIGYAN KENDRA, JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR HELD ON 7th OCTOBER-2006

The second Scientific Advisory Committee meeting of Krishi Vigyan Kendra Junagadh Agricultural University, Jamnagar was held at Museum Hall of Millet Research Station, K.V.K., J.A.U., Jamnagar on 7th October-2006.

The following members participated in the meeting.

Sr. No.	Name & Designation	Position
1	Director of Research, Junagadh Agricultural University, Junagadh -362001.	Chairmen
2	Director of Extension Education, Junagadh Agricultural University, Junagadh -362001.	Member
3	Zonal Coordinator, Zonal Coordination Unit- VI, CZRI Campus, Jodhpur (Rajasthan)	Member
4	Asso. Director of Extension Education, Junagadh Agricultural University, Junagadh	Member
5	Associate Director of Research, Junagadh Agricultural University, Junagadh	Member
6	Associate Director of Research, Main Dry Farming Research Station, Junagadh Agricultural University, Targhadia (Rajkot).	Member
7	Deputy Director, Gujarat Land Development Corporation Ltd., Near: Shubhash Market, Jamjnagar.	Member
8	Assistant Conservation of Forest, Forest Department,(Extension), Nagnath Gate, Ganjiwad, Jamnagar.	Member
9	Research Scientist (Millet), Main Millet Research Station, Junagadh Agrultural University, Jamnagar- 361 006.	Member
10	Research Officer, Fisheries Research Centre, Junagadh Agricultural University, Okha, Dist: Jamnagar.	Member
11	District Agricultural Officer District Panchayat, Jamnagar	Member
12	Director, District Rural Development Agency, Sardar Bhavan, Rameshwarnagar, Jamnagar (Navagam Ghed).	Member
13	Lead District Manager, State Bank of Saurashtra, Ranjit Road, Jamnagar	Member
14	Dy. Director of Animal Husbandry, Veterinary polyclinic, Nagnath gate of Grain market, Jamnagar	Member
15	Dy. Director of Agriculture, Farmers Training Centre, Air Force Road, Opp. Digjam Mill,	Member

	Jamnagar.	
17	Shri. Karansingh Solanki Programme Executive, Doordarshan Kendra, Rajkot	Member
18	Shri. Haribhai Shamjibhai Bhanushali 48 , Digvijay plot "Satnam", Jamnagar.	Member
19	Shri. Mansukhbhai Chaganbhai Mungara AT & Po. Theba, Dist. Jamnagar.	Member
20	Smt. Bhanuben Prabhudas Solanki At & Po. Falla, Tal. & Dist. Jamnagar	Member
21	Programme Coordinator (KVK), Junagadh Agricultural University, Jamnagar- 361 006.	Member
22	Programme Coordinator (KVK), Junagadh Agricultural University, Tadghadiya (Rajkot)	Invitee
23	Programme Coordinator (KVK), Junagadh Agricultural University, Khapt (Porbandar)	Invitee
24	Programme Coordinator (KVK), Junagadh Agricultural University, Amreli	Invitee
25	Programme Coordinator (KVK), Junagadh Agricultural University, Nana Kandhasar	Invitee
26	Dr. N. B. Jadav SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
27	Dr. V. J. Zizala SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
28	Dr. K. P. Baraiya SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
29	Dr. J. N. Thaker SMS, KVK, J.A.U, Jamnagar- 361 006.	Member
30	Shri. A.M. Kanani SMS, KVK, J.A.U, Jamnagar- 361 006.	Member

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

After garlanding the guests and dignitaries on the dais, and inaugurating the meeting by lighting a lamp, Introductory addressed by Dr. A.M. Parakhiya, Director of Extension Education, J.A.U., Junagadh and views of KVK presented by Dr. M.K. Mandape, Zonal Coordinator, Zonal Coordination Unit-VI, CAZRI Campus, Jodhpur (Rajasthan)

Dr. J.N. Nariya, Programme Coordinator, Krishi Vigyan Kendra, Millet Research Station, J.A.U., Jamnagar presented action taken report of the minutes of 1st SAC meeting, progress report 2005-06 and technical programme (Action Plan 2006-07)

Committee made the following recommendations after active interaction.

1. Arrange maximum Vocational Training, Identify thrust area and priority of the thrust area.
2. Trained farmers about new agro-techniques and practices
3. List out farmers doing mix farming and train them on same base

4. Survey of district about availability of ponds, lakes, reservoirs for composite fish culture and demonstrate.
5. Increase cooperation with Television and Radio telecast. Increase broadcasting about work done by KVK. For this matter fully supported and financed by DRDA
6. Arrange exposure visits of progressive farmers, FIGs, SHGs, and other groups. This will fully financed by DRDA.
7. Prepare animal unit and silo pit for greed fodder preservation on KVK farm as well farmers field in different villages, arrange training on the same subject, this will sponsored by DRDA
8. Prepare fish pond and farm pond as demonstration unit on KVK farm as well as farmers field in different villages, arrange training on the same subject, this will sponsored by DRDA
9. Prepare drip irrigation for Horticultural and Vegetable crops as demonstration unit on KVK farm as well as farmers field in different villages, arrange training on the same subject, this will sponsored by DRDA
10. Develop Home Science laboratory as demonstration unit on KVK farm and arrange training for farmwomen. This will sponsored by DRDA
11. Prepare vermin compost and crop cafeteria as demonstration unit on KVK farm as well as farmers field in different villages, arrange training on the same subject, this will sponsored by DRDA
12. Arrange training on "Jetrofa Cultivation" and interested groups/ farmers are provided seed/ seedlings and other information. Information and financial helped by DRDA and Forest department
13. Work cooperatively with GLDC for guidance to farmers about different crops
14. Arrange Inland Fishing Training Programme with DRDA department also provide financial help by them.
15. Training on law cost technology like own seed production, utilization of available resources, seed treatment, nutritional requirement.
16. Revised training programme as per seasons and requirements of farmers in all discipline
17. Revised action plan for training programme of all the discipline as per crop situation, product, and resources availability. All the programs specify in details
18. Strong linkage and better cooperation as well as collaborative work with other departments
19. Publications literatures should be surplus to all the SAC members
20. Prepare Power point presentation in local language (Gujarati), and also prepare annual report in Gujarati as well as English as per proforma

21. Report should be circulated to all the SAC members & DDO before one week of meeting

After recommendation of the house Dr. A. M. Parakhiya, Director of Extension Education, J.A.U, Junagadh, addressed 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 departments.

Dr. M. K. Mandape presented the zonal co-ordinator's view and stressed development and dissipation of technology for the marginal farmers, which constituted almost 75%. He also appreciate for list out farmers doing mix farming, training them about new agro-techniques and practices. He further point out for survey of resources for water harvesting.

After recommendation of the house Dr. D. B. Kuchhadiya, Director of Reaearch, J.A.U., Junagadh, delivered keynotes address. And highlighted changing agricultural scenario and challenges to be faced by KVKs.

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

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

ANNEXURE – II

WEEKLY METEOROLOGICAL DATA 2006-07

Std. week	Temp. ºC Max.	Temp. ºC Min.	R.H. Morning	R.H Evening	Rainfall mm	Rainy days
22	35.0	27.5	83	64	000.0	--
23	34.9	27.8	80	57	000.0	--
24	35.7	27.7	80	33	000.0	--
25	35.9	28.0	80	54	000.0	--
26	34.7	26.9	89	63	015.0	1
27	32.0	26.9	91	85	102.5	5
28	32.6	26.3	86	64	000.0	--
29	34.3	25.4	90	63	034.0	2
30	29.2	24.5	94	82	065.0	5
31	27.3	23.4	96	92	229.0	7
32	29.3	24.0	94	85	049.0	4
33	27.4	23.1	97	90	190.0	5
34	29.5	24.3	92	77	004.0	1
35	30.7	24.1	90	66	000.5	--
36	30.7	23.9	92	69	002.0	--
37	31.7	23.9	93	61	000.0	--
38	32.4	24.8	94	73	083.5	5
39	32.0	24.0	92	65	000.0	-
40	32.4	24.0	91	67	000.0	-
41	32.2	21.7	93	54	000.0	-
42	34.6	21.9	91	41	000.0	-
43	34.4	20.5	84	42	000.0	-
44	34.3	19.5	76	30	000.0	-
45	32.6	18.8	80	38	000.0	-
46	32.2	17.2	76	30	000.0	-
47	30.6	16.3	79	33	000.0	-
48	28.1	14.1	73	29	000.0	-
49	26.8	15.7	72	45	000.0	-
50	25.6	12.7	72	36	000.0	-
51	27.8	12.4	79	41	000.0	-
52	26.4	12.9	85	48	000.0	-
1	25.7	11.8	76	39	000.0	-
2	24.6	9.4	72	27	000.0	-

3	26.6	9.2	84	32	000.0	-
4	26.4	8.9	76	27	000.0	-
5	28.6	12.3	82	37	000.0	-
6	29	15.4	91	47	000.0	-
7	27.0	13.6	90	41	000.0	-
8	30.5	15.6	78	34	000.0	-
9	29.0	15.0	75	41	000.0	-
10	31.0	15.2	88	35	000.0	-
11	32.4	16.9	73	34	000.0	-
12	31.9	17.9	85	43	000.0	-
13	35.1	19.4	93	48	000.0	-
14	36.9	20.3	89	44	000.0	-
15	34.6	22.6	90	61	000.0	-
16	34.9	23.3	91	57	000.0	-
17	35.7	24.1	88	52	000.0	-
18	34.6	24.7	89	69	000.0	-
19	36.6	24.4	83	51	000.0	-
20	34.6	24.7	80	58	000.0	-
21	35.2	24.8	78	52	000.0	-
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	5
26	31.9	24.2	93	72	044.5	5
27	30.0	24.9	91	77	414.0	3
28	31.6	24.6	90	69	001.5	1
29	33.4	23.9	91	68	019.5	2
30	32.6	24.3	93	79	025.5	2
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	24.3	97	83	208.0	6
36	31.6	24.1	97	72	057.0	1
37	31.7	23.6	94	66	-	-
38	32.9	23.6	94	63	028.0	2
39	31.7	23.1	94	68	030.0	1

ANNEXURE – III
DETAILS OF TRAINING PROGRAMME

Date	Clientele PF/ RY/EF	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total

ANNEXURE – IV

“ 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	5/9/06	Khambhaliya	Khambhaliya	30	4	Deputy RFO (Extension)
2	6/9/06	Dhrol	Dhrol	30	4	“
3						
4	8/09/06	Madhupur	Jamkhambhadia	53	3	DAO
5	9/09/06	Rojada	Bhanvad	120	3	DAO
6	12/9/06	Kalavad	Kalavad	25	3	DRDA
7	13/09/06	Latipur	Dhrol	58	6	Dy.Dir.Hort.
8	14/09/06	Nani Bhagedi	Kalavad	78	3	DAO
9	15/09/06	Sanosara	Lalpur	63	3	DAO
10	16/09/06	Khimrana	Jamnagar	43	3	DAO
11	19/09/06	Bavadidar	Jamjodhpur	74	2	DAO
12	21/09/06	Jamraval	Kalyanpur	63	2	DAO
13	22/09/06	Mulila	Lalpur	58	2	DAO
14	26/09/06	Bhandaria	Jamkhambhadia	62	2	DAO
15	27-28/9/06	Jamnagar	Jamnagar		30	Joint Dir.Agri.
16	27-28/9/06	Rajkot	Rajkot		30	Joint Dir.Agri.
17	28/09/06	Dudhiya	Kalyanpur	42	2	DAO
18	29/09/06	Balambhadi	Kalavad	52	2	DAO
19	29-30/9/06	Jamnagar	Jamnagar		30	DAO
20	4/10/06	Naghedi	Jamnagar	40	2	DAO
21	12-	Jamnagar	Jamnagar		30	Joint Dir.Agri.

	13/10/06					
22	10/10/06	Mota Itala	Dhrol	56	2	DAO
23	11/10/06	Kalyanpur	Jamjodhpur	62	3	DAO
24	12/10/06	Bhadra	Jodia	45	3	DAO
25	13/10/06	Ambardi	Bhanvad	46	3	DAO
26	13/10/06	Sahidevaliya	Bhanvad	86	4	Dy.Dir.Hort.
27	14/10/06	Dhutarpur,	Jamnagar	56	2	Gram panchayat
28	8/11/06	Dudhala	Kalavad	46	2	DAO
29	10/11/06	Rinjpar	Lalpur	48	3	DAO
30	15/11/06	Keshiya	Jodia	110	4	Dy.Dir.Hort.
31	16/11/06	Falla	Jamnagar	133	4	Dy.Dir.Hort.
32	14/11/06	Khaddhoraji	Kalavad	62	2	DAO
33	15/11/06	Daldevadia	Jamjodhpur	53	3	DAO
34	17/11/06	Bhanvad	Bhanvad	42	4	DAO
35	18/11/06	Morkanda	Jamnagar	48	3	DAO
36	21/11/06	Nandana	Jajmodhpur	52	4	DAO
37	24/11/06	Ranpur	Bhanvad	62	3	DAO
38	28/11/06	Apiya	Lalpur	43	4	DAO
39	29/11/06	Sortha	Kalavad	62	2	DAO
40	1/12/06	Gadhka	Kalyanpur	42	2	DAO
41	2/12/06	Mandasan	Jamjodhpur	53	2	DAO
42	6/12/06	Navi Verabal	Lalpur	48	3	DAO
43	8/12/06	Jambuda	Jamnagar	52	3	DAO
44	12/12/06	Bhogat	Kalyanpur	71	2	DAO
45	13/12/06	Nava Tathiya	Jamkhambhadia	62	3	DAO
46	13/12/06	Anandpur	Kalavad	52	3	Dy.Dir.Hort.
47	14/12/06	Gokulpur	Jamkhambhadia	58	3	DAO
48	15/12/06	Jamnagar	Jamnagar	63	3	DAO
49	19/12/06	Paneli	Kalyanpur	52	3	Dy.Dir.Hort.
50	22/12/06	Mandasan	Jamjodhpur	62	3	Dy.Dir.Hort.

51	6/01/07	Chella	Jamnagar	56	3	DAO
52	12/01/07	Jambuda	Jamnagar	62	3	DAO
53	16/01/07	Bhogat	Jamkalyanpur	60	2	DAO
54	16/01/07	Mandasan	Jamjodhpur	63	2	Dy.Dir.Hort.
55	20/01/07	Nava Tathiya	Jamkhambhadia	54	3	DAO
56	22/01/07	Keshavpur	Kalyanpur	75	3	Dy.Dir.Hort.
57	24/01/07	Gokulpur	Jamkhambhadia	71	2	DAO
58	10/02/07	Khaydi	Lalpur	43	2	GSFC
59	20/02/07	Mandasan	Jamjodhpur	64	2	Dy.Dir.Hort.
60	17/05/07	Jamkhambhadia	Jamkhambhadia, kalyanpur, Dwarka	80	6	DRDA
61	18/05/07	Dhrol	Dhrol, Jodia, Kalawad	75	5	DRDA
62	19/05/07	Lalpur	Lalpur, Jamjodhpur, Bhanvad, Jamnagar	90	5	DRDA
63	18/06/07	Jamnagar	Jamnagar	76	1	DRDA
64	19/06/07	Lalpur	Lalpur	62	2	DRDA
65	20/06/07	Bhanvad	Bhanvad	56	1	DRDA
66	21/06/07	Jamjodhpur	Jamjodhpur	60	2	DRDA
67	22/06/07	Jodia	Jodia	68	3	DRDA
68	25/06/07	Dhrol	Dhrol	60	1	DRDA
69	26/06/07	Dwarka	Dwarka	46	2	DRDA
70	27/06/07	Kalyanpur	Kalyanpur	68	3	DRDA
71	28/06/07	Jamkhambhadia	Jamkhambhadia	58	2	DRDA
72	29/06/07	Kalavad	Kalavad	36	2	DRDA
		TOTAL		**4001**	**308**	

ANNEXURE – V

District wise list of critical inputs supplied under demonstration

District : Jamnagar **Crop** : Wheat

Taluka : Jamnagar **Season** : *Rabi*-2006-07

Sr. No.	Village	No.of FLDs	Area (ha.)	Critical inputs demonstrated	Situation
1	Kansumra	1	0.5	Recently release variety GW-496	Irrigation
2	Bed	5	2.5	Recently release variety GW-496	Irrigation
3	Amra	5	2.5	Recently release variety GW-496	Irrigation
4	Jivapar	4	2	Recently release variety GW-496	Irrigation
5	Dodhiya	4	2	Recently release variety GW-496	Irrigation
6	Dhandha	4	2	Recently release variety GW-496	Irrigation
7	Konja	3	1.5	Recently release variety GW-496	Irrigation
8	Mokhana	4	2	Recently release variety GW-496	Irrigation
9	Makwana	4	2	Recently release variety GW-496	Irrigation
10	Chandraga	5	2.5	Recently release variety GW-496	Irrigation
11	KVK Farm	1	0.5	Recently release variety GW-496	Irrigation
	Total	**40**	**20**		

District : Jamnagar **Crop** : Gram

Taluka : Jamnagar **Season** : *Rabi*-2006-07

Sr. No.	Village	No.of FLDs	Area (ha.)	Critical inputs demonstrated	Situation
1	Kansumra	1	0.5	Vriety G.G-2, Endosulfan 500 ml	Irrigation
2	Bed	1	0.5	Vriety G.G-2, Endosulfan 500 ml	Irrigation
3	Amra	1	0.5	Vriety G.G-2, Endosulfan 500 ml	Irrigation
4	Jivapar	2	1	Vriety G.G-2, Endosulfan 500 ml	Irrigation
5	Dhandha	1	0.5	Vriety G.G-2, Endosulfan 500 ml	Irrigation
6	Konja	1	0.5	Vriety G.G-2, Endosulfan 500 ml	Irrigation
7	Makwana	1	0.5	Vriety G.G-2, Endosulfan 500 ml	Irrigation
8	Chandraga	1	0.5	Vriety G.G-2, Endosulfan 500 ml	Irrigation
9	KVK Farm	1	0.5	Vriety G.G-2, Endosulfan 500 ml	Irrigation
	Total	**10**	**5**		

District : Jamnagar **Crop** : Mustard

Taluka : Jamnagar **Season** : *Rabi*-2006-07

Sr. No.	Village	No.of FLDs	Area (ha.)	Critical inputs demonstrated	Situation
1	Bed	2	1	Vriety GM-3, Imidacloprid 250 ml	Irrigation
2	Amra	6	3	Vriety GM-3, Imidacloprid 250 ml	Irrigation
3	Jivapar	6	3	Vriety GM-3, Imidacloprid 250 ml	Irrigation
4	Makwana	2	1	Vriety GM-3, Imidacloprid 250 ml	Irrigation
5	Chandraga	3	1.5	Vriety GM-3, Imidacloprid 250 ml	Irrigation
6	KVK Farm	1	0.5	Vriety GM-3, Imidacloprid 250 ml	Irrigation
	Total	**20**	**10**		

District : Jamnagar **Crop** : Groundnut
Taluka : Jamnagar **Season** : *Kharif* -2006

Sr. No.	Village	No.of FLDs	Area (ha.)	Critical inputs demonstrated	Situation
1	Mokhana	2	1	Vriety GG-5, Imidacloprid 250 ml	Irrigation
2	Chandraga	1	0.5	Vriety GG-5, Imidacloprid 250 ml	Irrigation
3	Makwana	2	1	Vriety GG-5, Imidacloprid 250 ml	Irrigation
4	Dhandha	2	1	Vriety GG-5, Imidacloprid 250 ml	Irrigation
5	Konja	2	1	Vriety GG-5, Imidacloprid 250 ml	Irrigation
6	Amra	2	1	Vriety GG-5, Imidacloprid 250 ml	Unirrigated
7	Bed	1	0.5	Vriety GG-5, Imidacloprid 250 ml	Unirrigated
8	Kansumra	2	1	Vriety GG-5, Imidacloprid 250 ml	Unirrigated
9	Dodhiya	3	1.5	Vriety GG-5, Imidacloprid 250 ml	Unirrigated
10	Jivapar	3	1.5	Vriety GG-5, Imidacloprid 250 ml	Unirrigated
	Total	**20**	**10**		

District : Jamnagar **Crop** : Castor
Taluka : Jamnagar **Season** : *Kharif* -2006

Sr. No.	Village	No.of FLDs	Area (ha.)	Critical inputs demonstrated	Situation
1	Mokhana	2	1	Improved seed (GCH-6) + Endosulfan 500 ml	Irrigation
2	Chandraga	3	1.5	Improved seed (GCH-6) + Endosulfan 500 ml	Irrigation
3	Makwana	1	0.5	Improved seed (GCH-6) + Endosulfan 500 ml	Irrigation
4	Dhandha	3	1.5	Improved seed (GCH-6) + Endosulfan 500 ml	Irrigation
5	Konja	2	1	Improved seed (GCH-6) + Endosulfan 500 ml	Irrigation
6	Amra	3	1.5	Improved seed (GCH-6) + Endosulfan 500 ml	Unirrigated
7	Amardi	1	0.5	Improved seed (GCH-6) + Endosulfan 500 ml	Unirrigated
8	Harshadpur	1	0.5	Improved seed (GCH-6) + Endosulfan 500 ml	Unirrigated
9	Dodhiya	1	0.5	Improved seed (GCH-6) + Endosulfan 500 ml	Unirrigated
10	Jivapar	2	1	Improved seed (GCH-6) + Endosulfan 500 ml	Unirrigated
11	KVK Farm	1	0.5	Improved seed (GCH-6) + Endosulfan 500 ml	Irrigated
	Total	**20**	**10**		

District : Jamnagar **Crop** : Sesamum
Taluka : Jamnagar **Season** : *Kharif* -2006

Sr. No.	Village	No.of FLDs	Area (ha.)	Critical inputs demonstrated	Situation
1	Mokhana	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Irrigation
2	Chandraga	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Irrigation
3	Makwana	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Irrigation
4	Dhandha	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Irrigation
5	Konja	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Irrigation
6	Amra	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Unirrigated
7	Kansumra	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Unirrigated
8	Dodhiya	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Unirrigated

9	Jivapar	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Unirrigated
10	KVK Farm	1	0.5	Improved seed (G.T.-2) + Endosulfan 500 ml	Irrigated
	Total	**10**	**5**		

District : Jamnagar **Crop** : Pearl Millet
Taluka : Jamnagar **Season** : *Kharif* -2006

Sr. No.	Village	No.of FLDs	Area (ha.)	Critical inputs demonstrated	Situation
1	Mokhana	3	1.5	Recently release variety GHB-577	Irrigation
2	Chandraga	1	0.5	Recently release variety GHB-577	Irrigation
3	Makwana	3	1.5	Recently release variety GHB-577	Irrigation
4	Dhandha	5	2.5	Recently release variety GHB-577	Irrigation
5	Konja	2	1	Recently release variety GHB-577	Irrigation
6	Amra	11	5.5	Recently release variety GHB-577	Unirrigated
7	Gordhanpar	2	1	Recently release variety GHB-577	Unirrigated
8	Kansumra	5	2.5	Recently release variety GHB-577	Unirrigated
9	Dhichada	1	0.5	Recently release variety GHB-577	Unirrigated
10	Jivapar	2	1	Recently release variety GHB-577	Unirrigated
11	Hadiyana	4	2	Recently release variety GHB-577	Irrigated
12	KVK Farm	1	0.5	Recently release variety GHB-577	Irrigated
	Total	**40**	**20**		

ANNEXURE – VI
Attend training cum workshop by the KVK staff

Sr. No.	Period	Name of Officer	Place	Subject
1	12/12/06 to 19/12/06	Dr. N.B. Jadav	ANAND	Workshop on Gender Sensitization
2	11/01/07 to 31/01/07	Dr. K.P. Baraiya	CCS Hariyana Agricultural University, Hisar	Recent Trends in the Biology and Management of Polyphagous Pests of Agricultural Importance
3	3/03/07 to 26/03/07	Dr. N.B. Jadav	IARI, New Delhi	Advances in Extension Research
4	12/03/07 to 14/03/07	Dr. K.P. Baraiya Smt. A.K.Baraiya Dr. V.J. Zinzala Dr. J.N. Thaker Dr. J.N. Nariya Mr. P.S. Gorphad	Director of Extension Education, JAU, Junagadh	Refreshment course of all the discipline for KVK staff
5	28/05/07 to 1/06/07	Dr. J.N. Nariya Dr. N.B. Jadav	SAMETI-G, ATMA Gandhinagar	Bridging knowledge deficit in Agricultural role in ICT options & apportunities
6	2/07/07 to 4/07/07	Dr. V.J. Zinzala	Anand	"AGMARKET" – Internet based Agricultural Marketing Network to support Agricultural Marketing Extension
7	17/07/07 to 21/07/07	Dr. J.N. Nariya	Hyderabad	Promotion of Farmers Organizations and Federation under Extension Reforms

ANNEXURE – VII

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		

SUMMARY TABLES OF ANNUAL PROGRESS REPORT
(OCTOBER 2006 TO SEPTEMBER-2007)

KRISHI VIGYAN KENDRA
JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR

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	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed/Thining Management	1(Bajara)									
Integrated Crop Management										
Integrated Nutrient Management				1 (Cotton)						
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management										
Integrated Disease Management		1 (G'nut)								
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	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management	1(Bajara)									
Integrated Crop Management										
Integrated Nutrient Management				1 (Cotton)						
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	-	-
Ground-nut	Management of stem rot in groundnut through *Trichoderma harzaneum*	3	-	-

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	Increase in yield (%)	Data on parameter in relation to technology demonstrated	Average Net Return (Profit)	Benefit-Cost Ratio (Gross

						Qtl./ha		Demo	Local	(Rs./ha)	Return / Gross Cost)
1	Groun-dnut	IDM, Variety	20	10	12.6	9.95	21.03	6200	4000	15292	1:2.47
2	Castor	Variety	20	10	28.6	25.2	11.89	4700	3200	31059	1:6.61
3	Sesamum	Variety, IDM	10	5	5.6	3.6	35.71	2900	1300	15301	1:5.28
4	Mustard	Variety	20	10	17.9	14.9	16.76	4600	3000	22608	1:4.91

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	Chick pea	IPM, Variety	10	5	16.40	12.80	21.95	4900	3000	17732	1:3.62

Table 2C 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	Pearl millet	Time of thinning	40	20	21.40	17.80	16.82	2500	1700	6916	1:2.77
2	Wheat	Variety	40	20	53.6	43.6	18.66	4300	3400	33488	1:7.79

Table – 2 D 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			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	4	85	10	95	9	0	9	104
Resource Conservation Technologies	0	0	0	0	0	0	0	0
Cropping Systems	2	38	15	53	0	0	0	53
Crop Diversification	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0

Seed production	3	65	18	83	15	8	23	106
Nursery management	0	0	0	0	0	0	0	0
Integrated Crop Management	9	220	40	260	16	7	23	283
Fodder production	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0
Total	18	408	83	491	40	15	55	546
II Horticulture	0	0	0	0	0	0	0	0
a) Vegetable Crops	0	0	0	0	0	0	0	0
Production of low volume and high value crops	2	54	11	65	6	4	10	75
Off-season vegetables	0	0	0	0	0	0	0	0
Nursery raising	1	16	5	21	3	1	4	25
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0
b) Fruits	0	0	0	0	0	0	0	0
Training and Pruning	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0
Cultivation of Fruit	2	46	10	56	5	5	10	66
Management of young plants/orchards	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0
c) Ornamental Plants	0	0	0	0	0	0	0	0
Nursery Management	1	16	6	22	3	4	7	29
Management of potted plants	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0
Production and Management technology	2	42	14	56	7	10	17	73
Processing and value addition	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic	0	0	0	0	0	0	0	0

Plants								
Nursery management	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0
Total	8	174	46	220	24	24	48	268
III Soil Health and Fertility Management	0	0	0	0	0	0	0	0
Soil fertility management	1	16	8	24	4	1	5	29
Soil and Water Conservation	0	0	0	0	0	0	0	0
Integrated Nutrient Management	4	88	16	104	11	5	16	120
Production and use of organic inputs	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0
Soil and Water Testing	1	18	0	18	3	0	3	21
Total	6	122	24	146	18	6	24	170
IV Livestock Production and Management	0	0	0	0	0	0	0	0
Dairy Management	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0
Disease Management	1	47	16	63	8	4	12	75
Feed management	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0
Total	1	47	16	63	8	4	12	75
V Home Science/Women empowerment	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
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0
Value addition	2	0	44	44	0	8	8	52

Income generation activities for empowerment of rural Women	12	0	281	281	0	35	35	316
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0
Rural Crafts	3	0	70	70	0	7	7	77
Women and child care	6	0	214	214	0	29	29	243
Total	23	0	609	609	0	79	79	688
VI Agril. Engineering	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
VII Plant Protection	0	0	0	0	0	0	0	0
Integrated Pest Management	20	463	56	519	47	13	60	579
Integrated Disease Management	12	268	27	295	11	6	17	312
Bio-control of pests and diseases	4	80	16	96	9	6	15	111
Production of bio control agents and bio pesticides	1	21	5	26	3	0	3	29
Total	37	832	104	936	70	25	95	1031
VIII Fisheries	0	0	0	0	0	0	0	0
Integrated fish farming	2	0	0	0	37	16	53	53
Carp breeding and hatchery management	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0
Composite fish culture	2	0	0	0	37	18	55	55
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0
Total	4	0	0	0	74	34	108	108
IX Production of Inputs at	0	0	0	0	0	0	0	0

site								
Seed Production	3	72	27	99	22	9	31	130
Planting material production	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	44	693	339	1032	166	64	230	1262
Organic manures production	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0
Total	47	765	366	1131	188	73	261	1392
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0
Leadership development	2	48	11	59	6	4	10	69
Group dynamics	0	0	0	0	0	0	0	0
Formation and Management of SHGs	4	88	26	114	10	4	14	128
Mobilization of social capital	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0
Total	6	136	37	173	16	8	24	197
XI Agro-forestry	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0
TOTAL	150	2484	1185	3669	438	268	706	4375

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

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
Mushroom Production	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0
Integrated Farming	2	48	14	62	8	0	8	70
Planting material production	6	110	36	146	16	8	24	170
Vermi-culture	0	0	0	0	0	0	0	0

Sericulture	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0
Value addition	4	0	109	109	0	16	16	125
Production of quality animal products	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0
Ornamental fisheries	2	0	0	0	40	12	52	52
Para vets	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Freshwater prawn culture	2	0	0	0	30	9	39	39
Shrimp farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0
TOTAL	16	158	159	317	94	45	139	456

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

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
Productivity enhancement in field crops	6	120	11	131	10	5	15	146
Integrated Pest Management	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0

Formation and Management of SHGs	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Any other (Pl. Specify)	0	0	0	0	0	0	0	0
TOTAL	6	0	0	0	0	0	0	0

Table – 4 Numbers of Extension Activities and Beneficiaries

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	43	733	200	933	185	20	205	918	220	1138
Kisan Mela										
Kisan Ghosthi	22	300	24	324	5	2	7	305	26	331
Exhibition	2	3000	800	3800	200	50	250	3200	850	4050
Film Show										
Method Demonstrations										
Farmers Seminar	111	3050	1046	4096	410	125	535	3460	1171	4631
Workshop										
Group meetings										
Lectures delivered as resource persons	32							0	0	0
Newspaper coverage	26							0	0	0
Radio talks	6							0	0	0
TV talks	2							0	0	0
Popular articles	5							0	0	0
Extension Literature	35							0	0	0
Advisory Services	38	852	220	1072	52	12	64	904	232	1136

Scientific visit to farmers field	121	332	-	332	21	-	21	353	0	353
Farmers visit to KVK	55	1008	260	1268	65	5	70	1073	265	1338
Diagnostic visits	3	18	6	24				18	6	24
Exposure visits										
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp	14	756		756	80		80	836	0	836
Agri mobile clinic	858	1146		1146				1146	0	1146
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Any Other (Specify)										
Soil & water sample analysis	56	56		56				56	0	56
Total	**1429**	**11251**	**2556**	**13807**	**1018**	**214**	**1232**	**12269**	**2770**	**15039**

Table – 5 A Productions of Seeds

Sl. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
OILSEEDS	Groundnut	GG-5	40.05	106125.5	11
PULSES					
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)	Vermi culture	*Icenea fatida*	2020	404000	405
	Vermi compost		160	480	2

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS			
2	OILSEEDS	40.05	106125.5	11
3	PULSES			
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS (Vermi Culture)	20.20	404000	405
	Vermi compost	1.60	480	2
TOTAL		**61.85**	**510605.5**	**418**

Table – 5 B Production of planting/seedling materials of Fruits/Vegetables/Forest Species

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

SUMMARY

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

Table –5 C Production of bio products

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

SUMMARY

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

Table 5 D Livestock materials

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					