

ANNUAL PROGRESS REPORT – 2013-14

KVK, SURAT(GUJARAT)

(01.04.2013 TO 31.03.2014)

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 Navsari Agricultural University Athwa Farm, Surat Dist. Surat Gujarat-395007	(0261) 2655565	(0261) 2668045 pp	kvkvsurat@nau.in

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

Address	Telephone		E mail
	Office	FAX	
Director of Extension Education Navsari Agricultural University Navsari	(02637) 282026	(02637) 282706	dee@nau.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. J. J. Pastagia	-	9879038539	aayoj2000@yahoo.com

1.4. Year of sanction: 2012

1.5. Staff Position (as on 31st March 2014)

Sr. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. J. J. Pastagia	PC	Entomology	37400-67000 G.P. – 9000	46400	03/03/2012	Temporary	OBC
2	Subject Matter Specialist	Dr. P. D. Verma	SMS	Extension Education	15600-39100 G.P. – 6000	26590	1/01/2013	Temporary	General
3	Subject Matter Specialist	Dr. H. C. Parmar	SMS	Veterinary Science	15600-39100 G.P. – 6000	21600	2/4/2012	Temporary	OBC
4	Subject Matter Specialist	Dr. J.V. Suthar	SMS	Agronomy	15600-39100 G.P. – 6000	21600	16/04/2013	Temporary	OBC
5	Subject Matter Specialist	Ms. Sunilakumari Chahal	SMS	Horticulture	15600-39100 G.P. – 6000	21600	22.06.2012	Temporary	General
6	Subject Matter Specialist	Ms. Dipal N. Soni	SMS	Home Science	15600-39100 G.P. – 6000	21600	26.06.2012	Temporary	General
7	Subject Matter Specialist	Dr. S. K. Chawda	SMS	Plant Pathology	15600-39100 G.P. – 6000	21600	2.04.2013	Temporary	SC
8	Farm manager	Mr. A. T. Patel	Farm Manager	--	10000 Fix	10000	12/7/2012	Temporary	OBC
9	Computer Programmer	Vacant	Comp. Prog.	--	--	--	--	--	--
10	Prog. Assistant	Vacant	Farm Manager	--	--	--	--	--	--
11	Accountant / Superintendent	Vacant	Acct. / Super.	--	--	--	--	--	--
12	Stenographer	Vacant	Steno.	--	--	--	--	--	--
13	Driver	Vacant	Driver	--	--	--	--	--	--
14	Driver	Vacant	Driver	--	--	--	--	--	--
15	Supporting staff	Vacant	Supp. Staff	--	--	--	--	--	--
16	Supporting staff	Vacant	Supp. Staff	--	--	--	--	--	--

1.6. Total land with KVK (in ha):

Sr. No.	Item	Area (ha)
1	Under Buildings	-
2.	Under Demonstration Units	-
3.	Under Crops	2.00 ha
4.	Orchard/Agro-forestry	-
5.	Others (specify)	-

1.7. Infrastructural Development: NIL

A) Buildings: NIL

Sr. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	--	--	--	--	--	--	--
2	Farmers Hostel	--	--	--	--	--	--	--
3	Staff Quarters (5)	--	--	--	--	--	--	--
4	Demonstration Units (2)	--	--	--	--	--	--	--
5	Fencing	--	--	--	--	--	--	--
6	Rain Water harvesting system	--	--	--	--	--	--	--
7	Threshing floor	--	--	--	--	--	--	--
8	Farm go-down	--	--	--	--	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Tata)	2012	599999	75158	Working
Tractor	2012	549900	605.30 hrs	Working

C) Equipments & AV aids: Grant not allotted:

Sr. No.	Name of Equipments/ Instruments/ Farm Machineries	No.	Date of Purchase	Price	Present Status
1	2	3	4	5	6
1	Cultivator	1	22.03.2012	22500	Working
2	Plough	1	22.03.2012	22500	Working

1.8. A). Details SAC meeting conducted in the year: Second SAC was conducted on 10-02-2014

SR. No.	Name and Designation of Participants			Silent Recommendations	Action Taken
1	Dr.A.R.Pathak	Hon. Vice Chancellor, NAU, Navsari	Chairperson	<p>Demonstrations: Following demonstrations were suggested :</p> <p>A. Front Line Demonstrations:</p> <ol style="list-style-type: none"> 1) CSV 21 F for fodder purpose. 2) Castor in Mangrol block 3) Sugarcane: 1. Variety (GNS-8) 2.Use of Bio-agents/Bio-pesticides. 4.) Use of Bio-pesticides/ Bio fertilizers in Pigeonpea. 5.) Spices crop in Umarpada block <p>B. Method Demonstrations:</p> <ol style="list-style-type: none"> 1) Dapog method of nursery raising in paddy to motivate the farmers for the use of paddy transplanter. 2) Field multiplication of Bio-agents/Bio-pesticides. 3) Organize more number of programmes to promote organic farming in close collaboration with SURUCHI Bardoli, 	All Suggestions have been incorporated for the year 2014-15
2	Dr.A.N.Sabalpara	Director of Research & dean P.G.studies, NAU, Navsari	Member		
3	Dr.H.J.Derasari	Director of Extension, NAU, Navsari	Member		
4	Dr.Nikam Vinayak	Representative, CSSRI (ICAR), RRS, Bharuch	Member		
5	Dr.C.K.Patel	Representative (Crop Science), Main research Station NAU,Surat	Member		
6	Dr.R.M.Patel	Professor (Horticulture), GABI,NAU, Surat,	Member		
7	Shri N.K.Gabani	Project Director ATMA, Bardoli, Surat	Member		
8	Shri N.G.Gamit	District Agricultural officer – State Dept. of Agriculture, Surat	Member		
9	Shri B.R.Patel	Deputy Dir. of Horticulture, State Dept. of Agriculture, Surat	Member		
10	Shri N.M.Barot	Representative (WALMI) – Irrigation Dept. , Surat	Member		
11	Dr.N.B.Patel	Representative – State Dept. of Animal Husbandry, Surat	Member		
12	Shri Ramsingbhai Chaudhri	Progressive farmer , Village: Moritha, Taluka: Mandvi ,	Member		
13	Lataben D. Patel	Progressive woman farmer, Village: Mandroi, Taluka: Olpad,	Member		
14	Ramchandrabhai Patel	Agri-entrepreneur, Village: Bhatgam, Surat,	Member		

15	Sharmilaben H. Chaudhri	Chairperson of women self help group(agriculture), Village: Gamtalav, Taluka: Mandvi	Member	<p>Forest department and other concern line department.</p> <p>4) Emphasized to create awareness about Bamboo products, plantation, and use of bio-gas plant to support forest areas.</p> <p>5) Popularizing use of bio-fertilizers in tribal areas. In this connection KVK may help to start an outlet center at Visdalia cluster operated by forest department.</p> <p>6) More programme should be organized to popularize the importance of terrace and kitchen gardening for enrichment of nutritional status in urban, rural and tribal areas.</p>
16	Shri Anil Vasava	Deputy Conservator of Forest, Forest Dept., Surat	Member	
17	Shri P.N.Rathod	Representative Project Director, DWDU, Surat	Member	
18	Dr.J.J.Pastagia	Programme Coordinator, KVK, Surat	Member Secretary	
19	Dr.B.G.Solanki	Research Scientist Sorghum, Main Research station Sorghum, Surat	Special Invitee	
20	Dr.K.B.Sankat	Representative Research Scientist Cotton, Main Research Station cotton, Surat	Special Invitee	
21	Shri Ramkumar Shing	Director and Managing Trustee, Suruchi Centre, Bardoli	Special Invitee	
22	Shri Chhaganbhai Patel	Project Director, Ambuja Foundation, Surat	Special Invitee	
23		All SMS, KVK, Surat		
List of absent members:				
1	Zonal Project Director or one of the scientist from ZPD, CAZARI, Jodhpur		Member	
2	Representative of NABARD, Surat		Member	
3	District officer of the line department – Fisheries, Surat		Member	

Copy of SAC proceedings along with list of participants: - Annexure - III

2. DETAILS OF DISTRICT

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

Sr. No	Farming system/enterprise
1.	Crop production
2.	Crop production and Horticulture
3.	Crop production and Livestock
4.	Crop production, Horticulture and Livestock

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography) Basic Information of the District: (AES I –IV)

Taluka (AES)	Soil texture	Rainfall (mm)	Crops	Features
(AES-I) Mandvi (30%), Mangrol (40%), Umarpada	Hilly and highly undulating fine texture, highly erosive	< 1100	Paddy, Maize, Cotton, Sorghum, Pulses	Highly erosive Shallow to medium in depth Poor permeability Low to medium N & P content
(AES-II) Bardoli, Choryasi (75%), Kamrej, Palasana, Surat and Mahuva	Leveled, deep, fine textured	> 1450	Sugarcane, Paddy, Sorghum, Pulses, Orchards	Poor drainage Water logging Very poor permeability Poor soil physical condition Low to medium in N & P content
(AES-III) Mandvi (70%), Mangrol (60%), Olpad (70%)	Deep to medium black	1000 – 1250	Sorghum, Pulses, Paddy, Cotton, Oil Seeds	Moderate to severe erosive Poor soil fertility Poor irrigation facility
(AES-IV) Choryasi (25%), Olpad (30%)	Coastal plain, deep, fine texture, salt affected	900-1000	Paddy - Cotton, Sorghum, Pulses, Wheat	High salt accumulation Poor soil physical condition High water table Water logging condition

2.3 Information on Land use pattern in the SURAT District

Sr. No.	Block	Geographical Area (Ha.)	Cultivable Area (Ha.)	Cultivated Area (Ha.)	Cultivable waste	Current Fallow (Ha.)
1	Olpad	68705	60901	44981	12	191
2	Mangrol	61884	51029	50845	15	143
3	Umarpada	39370	14949	14818	-	117
4	Mahuva	35428	28788	28307	-	71
5	Mandvi	73113	50158	43758	-	21
6	Kamrej	32920	31343	30592	27	521
7	Choryasi	47134	40495	31265	310	3610
8	Palasana	20084	17572	17235	-	21
9	Bardoli	37917	31872	31296	-	11
	Total	4275540	330952	294141	364	4706

2.4.1 Soil type/s:

The soils of Surat district is classified into three major groups

1. Inceptisols: Inceptisols are found on the hilly areas as well as along the hill slopes. These soils are shallow to moderately deep and highly eroded. Their texture varies from loamy to clay. Their water holding capacity is moderate. They are moderate to high in nitrogen, low in phosphoric acid and high in potash content.

2. Vertisols: Vertisols are found in the midlands and flood plains. These soils are very deep and silty to clay in texture. Their water holding capacity varies with clay content. These soils crack on drying and have poor drainage characteristics. These are moderate in nitrogen, low to medium in phosphoric acid and high in potash content

3. Coastal saline soils: The soils are sandy clay loam to clay in texture. The soil reaction varies with situation ranging from neutral to highly alkaline. These soils are normally medium in fertility.

2.4.2 Types of soils in Surat district: (according to AES)

Taluka (AES)	Soil texture
(AES-I) Mandvi (30%), Mangrol (40%),Umarpada	Hilly and highly undulating fine texture, highly erosive
(AES-II) Bardoli, Choryasi (75%), Kamrej, Palasana,,Surat and Mahuva	Leveled, deep, fine textured
(AES-III) Mandvi (70%), Mangrol (60%), Olpad(70%)	Deep to medium black
(AES-IV) Choryasi (25%), Olpad (30%)	Coastal plain, deep, fine texture, salt affected

2.5.1 Area, Production and Productivity of major crops cultivated in the district (Major Kharif)

Sr. No.	Name of crop	Area (ha.)	Productivity kg/ha	Production (MT)
1	Paddy (Transplanted)	34707	3456	12031
2	Paddy (Drilled)	10933	1638	17908
3	Sorghum	6186	1273	7875
4	Maize	1603	1558	2497
5	Other cereals	64	495	32
6	Pigeon pea (Irrigated)	1648	1125	1854
7	Pigeon pea (Un- Irrigated)	9209	750	6907
8	Green gram (Mung bean)	926	690	570
9	Black gram (Urid)	1019	413	421
10	Other legumes	206	130	109
11	Groundnut	515	1539	793
12	Sesamum	49	432	21
13	Castor	174	1665	290
14	Cotton	2181	1917	5139
15	Soybean	10982	875	9609
16	Fodder	7030	-	-
17	Green manures	10562	-	-
	Total	99061	-	-

Source: DAO, Surat

2.5.2 Area, Production and Productivity of major crops cultivated in the district (Major Rabi/summer)

Sr. No.	Name of crop	Area (ha.)	Productivity kg/ha	Production (MT)
1	Paddy (Summer)	5349	4610	24659
2	Wheat	7051	3942	27795
3	Sorghum	6835	1723	11777
4	Maize	848	2174	1844
5	Indian bean	704	871	613
6	Pigeon pea	936	1230	1151
7	Green Gram (Mung bean) (Summer)	2407	663	1596
8	Gram	1130	878	992
9	Other legumes	456	426	194
10	Groundnut (Summer)	1167	1950	2275
11	Sugarcane	100203	92540	9272786
12	Castor	150	1823	273
13	Mustard	95	1186	113
14	Fodder	15307	-	-
	Total (Source: DAO, Surat)	141493	-	-

2.5.3 Area, Production and Productivity of major fruit crops cultivated in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Mango	8923	71384	8.00
Sapota	2145	18447	8.6
Lemon	71	675	9.50
Banana	4432	288080	65.00
Papaya	602	36120	60.00
Custard Apple	4	24	6.00
Aonla	18	126	7.00
Coconut	147	1147	7.8
Others	171	803	4.7
Total	16513	416806	

Source: DDH, Surat

2.5.4 Area and Production of Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity(MT)
Brinjal	5032	101395	20.15
Okra	9765	114250	11.7
Tomato	1023	16112	15.75
Cow Pea	1101	7707	7.00
Cluster Bean	591	4137	7.00
Cauliflower	1096	19092	17.42
Cabbage	310	6386	20.6
Onion	71	1136	16.00
Cucurbits	3541	36827	10.40
Others	2296	22730	9.9
Total	21076	329772	

Source: DDH, Surat

2.5.5 Area and Production of Flower Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity(MT)
Rose	284	2726.4	9.6
Marigold	322	3542	11.00
Lily	52	156	3.00
Gerbera	49	882 lacs	18.00 lacs
Other	176	1267	7.20
Total	1007		

Source: DDH, Surat

2.5.6 Area, Production and productivity of Spices Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Dry Chilli	642	166.92	0.26
Green Chilli	864	7879.68	9.12
Ginger	201	3266.25	16.25
Turmeric	255	4335	17.00
Fenugreek	70	136.5	1.95
Corriander	76	532	7.00
Others	21	19.95	0.95
Total	2129	16336.3	

Source: DDH, Surat

2.5.7 Protected Cultivation in Surat District

Crop	Area (Acre.)	Production	Productivity Per Acre
Gerbera	123	932 Lacs Flowers	7.4 Lacs Flowers
Duch Rose	32	212.8 Lacs Flowers	6.65 Lacs Flowers
Colour Capcicum	22	24530 quintal	1115 quintal

Source: DDH, Surat

2.5.8 Area, Production and productivity of Medicinal Crops in the district

Crop	Area(Ha.)	Production (MT)	Productivity(MT)
Aloe Vera	0.45	4.63	10.29
Ashwagandha	0.05	0.45	9.06
Others	1.5	10.50	7.00
Total	2.00	15.58	

Source: DDH, Surat

2.5.9 Livestock and poultry population in the Surat district

Cattle	213107	Pigs	2589
Buffaloes	219243	Poultry	707205
Indigenous cow	213107	Milk production per animal (Kg/lactation)	1104
Cross bred cows		Indigenous cow @ 3.68 kg/day,	2520
Sheep	1086	Cross breed cow @8.4 kg/day	1350
Goat	106237	Buffalo @ 4.5 kg/day	

Source: As per the census 2007

2.6 Details of Operational area / Villages

Sr. No	Name of Cluster	No. and Name of villages in the Cluster	Identified Thrust areas	Identified Problems	Specific activities
1	Mahuva	1. Tarkanai	Increase productivity of major crops e.g. Paddy, sugarcane	The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation	Training and demonstrations on new variety of rice and sugarcane. Demonstration on intercropping in sugarcane
		2. Lasanpore			
		3. Wagaldhar			
		4. Kosh			
		Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.	Okra, brinjal and creepers are important crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding green house net house technology and crops Lack of technical knows how about mango orchards plantation and management.	Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on net house and green house.	
		Management of natural resource, including salinity management	High use of water in canal command area and water scarcity in hilly area	Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes	
		Popularize eco-friendly crop production with special reference to IPDM & INM.	Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides High incidence of wilt and parval vine borer in pointed gourd.	Training and demonstrations on INM and IPDM in different crops	

			Increasing milk production by dissemination of latest technologies.	Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management	Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management
			Imparting skill oriented training to the tribal women / Rural Youth for sustaining their livelihood.	Lack of knowledge of small scale agricultural base enterprises, value addition <i>etc.</i>	Training on value addition and income generating activity
			Promotion of small scale farm mechanization in tribal area.	Drudgery reduction through improved hand tools.	Demonstrations on use of improved sickles and other hand tools.
2	Mandvi	1. Gamtalav 2. Salaiya 3. Moritha	Increase productivity of major crops e.g. Paddy, sugarcane, Pigion pea	The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation	Training and demonstrations on new variety of rice and sugarcane. Demonstration on intercropping in sugarcane
			Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.	Brinjal and okra are important crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding green house net house technology and crops Lack of technical knowhow about mango orchards plantation and management.	Awareness programmes on protected cultivation on low cost net house and green house.
			Management of natural resource, including salinity management	High use of water in canal command area and water scarcity in hilly area	Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes

			Popularize eco-friendly crop production with special reference to IPDM & INM.	Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides -High incidence of wilt and fruit and shoot borer in brinjal	Training and demonstrations on INM and IPDM in different crops
			Increasing milk production by dissemination of latest technologies.	Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management	Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management
			Imparting skill oriented training to the tribal women / Rural Youth for sustaining their livelihood.	Lack of knowledge of small scale agricultural base enterprises, value addition etc.	Training on value addition and income generating activity
			Promotion of small scale farm mechanization in tribal area.	Drudgery reduction through improved hand tools.	Demonstrations on use of improved sickles and other hand tools.
3	Umarpada	1. Kolvan 2. Moti-devrupen 3. Umarda	Increase productivity of major crops e.g. Paddy, cotton, sorghum, pigeon pea and Groundnut	The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation	Training and demonstrations on new variety of Paddy, cotton, sorghum, pigeon pea and Groundnut. Increase seed replacement ratio

			Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.	Indian bean is an important crops but the productivity is very low, problem of insect pests and disease Lack of technical knowhow about orchards plantation and management.	Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on Low cost net house
			Management of natural resource, including salinity management	3. Water scarcity in rabi / summer due hilly area	Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Promotion of water conservation technologies
			Popularize eco-friendly crop production with special reference to IPDM & INM.	Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy vegetables etc, No use of bio fertilizers	Training and demonstrations on INM and IPDM in different crops
			Increasing milk production by dissemination of latest technologies.	-Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management Large no of non descript animals	Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management
			Imparting skill oriented training to the tribal women / Rural Youth for sustaining their livelihood.	Lack of knowledge of small scale agricultural base enterprises, value addition etc.	Training on value addition and income generating activity
			Promotion of small scale farm mechanization in tribal area.	Drudgery reduction through improved hand tools.	Demonstrations on use of improved sickles and other hand tools.

4	Mangrol	1. Kantvav 2. Pataldevi 3. Mandan	Increase productivity of major crops e.g. Paddy, cotton, sorghum, Groundnut and Green gram, Soyabean	The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation	Training and demonstrations on new variety of Paddy, pigeon pea, sorghum, cotton, Groundnut and Green gram, Soyabean . Increase seed replacement ratio of these crops.
		Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.	Okra, brinjal and creepers are crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding net house technology and crops Lack of technical knowhow about plantation and management.	Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on low cost net house. Promotion of farm forestry through training and demonstrations	
		Management of natural resource, including salinity management	Water scarcity in hilly area and rain fed farming	Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Popularizing water conservation technologies for rain fed farming	
		Popularize eco-friendly crop production with special reference to IPDM & INM.	Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides -High incidence of wilt and parval vine borer in pointed gourd	Training and demonstrations on INM and IPDM in different crops	
		Increasing milk production by dissemination of latest technologies.	Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder managemen	Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management	

			Imparting skill oriented training to the tribal women / Rural Youth for sustaining their livelihood.	Lack of knowledge of small scale agricultural base enterprises, value addition etc.	Training on value addition and income generating activity
			Promotion of small scale farm mechanization in tribal area.	Drudgery reduction through improved hand tools.	Demonstrations on use of improved sickles and other hand tools.
5	Olpad	1. Mandroi 2. Asnad 3. Karanj-nesh	Increase productivity of major crops e.g. Paddy, sugarcane	The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation	Training and demonstrations on new saline tolerant variety of Paddy and sugarcane.
			Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.	Okra and creepers are important crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding green house net house technology and crops Lack of technical knowhow about fruit crops cultivation.	Training programmers on package of practices of these vegetable crops and precision farming. Awareness programmes on protected cultivation on net house and green house.
			Management of natural resource, including salinity management	High use of water in canal command area and salinity problem in coastal area	Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Training and demonstration on drainage system to reduce salinity and salinity tolerant crops

			Popularize eco- friendly crop production with special reference to IPDM & INM.	Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides -High incidence of wilt and parval vine borer in pointed gourd.	Training and demonstrations on INM and IPDM in different crops
			Increasing milk production by dissemination of latest technologies.	-Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management	Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management
			Imparting skill oriented training to the women / Rural Youth for sustaining their livelihood.	Lack of knowledge of small scale agricultural base enterprises, value addition etc.	Training on value addition and income generating activity
6	Kamrej	1. Dhoranpar di 2. Choryasi	Increase productivity of major crops e.g. sugarcane	The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation	Training and demonstrations on new variety of sugarcane. Demonstration on intercropping in sugarcane
			Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming	Banana is an important crop but the problem of insect pests and disease No technical knowhow regarding green house net house technology and crops	Training programmers on package of practices of banana cultivation Demonstration on quality improvement in banana.

			Management of natural resource, including salinity management	High use of water in canal command area problem of water logging	Awareness programmes on protected cultivation on net house and green house. Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Training on drainage system
			Popularize eco-friendly crop production with special reference to IPDM & INM	Lack of knowledge about Insect pests and diseases and their management and nutrient management in banana	Training and demonstrations on INM and IPDM in different crops
7	Bardoli & Palasana	1. Ruva 2. Bharampor e	Increase productivity of major crops e.g. Paddy, sugarcane	The productivity of crop is low due to lack of technical knowhow regarding its scientific cultivation	Training and demonstrations on new variety of rice and sugarcane. Demonstration on intercropping in sugarcane
			Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.	Okra, brinjal and creepers are important crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding green house net house technology and crops	Training programmers on package of practices of these vegetable crops and precision farming. Awareness programmes on protected cultivation on net house and green house.
			Management of natural resource, including salinity management	High use of water in canal command area and problem of water logging	Promotion of drip irrigation through awareness programmes Demonstrations on drainage technology
			Popularize eco-friendly crop production with special reference to IPDM & INM	Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc Injudicious use of fertilizers and pesticides	Training and demonstrations on INM and IPDM in different crops

2.7 Priority/thrust areas

Crop/Enterprise	Thrust area
Paddy, Sorghum, Vegetables, Sugarcane, Cotton & pulses	Crop production management (ICM)
Vegetables	Eco friendly production
Paddy, Sugarcane, Cotton, Pigeon pea, Banana Vegetables	Integrated pest & disease management
Paddy, Sugarcane, Vegetables, Banana	Integrated nutrient management
Use of Bio-fertilizers	Minimize the use of chemicals
Green house technology	High tech horticulture
Salinity management & Micro irrigation	Soil and Water conservation
Formation of Self Help Groups	Women empowerment
Value addition in Fruits, Vegetables & pulses	Self employment to rural youth
Dairy management	Management of milch animals and calf rearing
Health & Nutrition	Health & nutrition for vulnerable groups.
Farm mechanization	Small scale farm mechanization
Information transfer, Marketing and credit availability	Value addition, market linkage, credit facility and Schemes

Major thrust areas

1. Increase productivity of major crops e.g. Paddy, Cotton, Sorghum, Sugarcane.
2. Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.
3. Management of natural resource, including salinity management
4. Popularize eco-friendly crop production with special reference to IPDM & INM.
5. Increasing milk production by dissemination of latest technologies.
6. Imparting skill oriented training to the tribal women for sustaining their livelihood.
7. Promotion of small scale farm mechanization in tribal area.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK : Proposed for next year

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs (ha)		Number of Farmers	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
5	5	15	15	137	145.25	755	766

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	74	99	2750	3176	11	1227	4000	22935
Rural youth	3	3	75	149				
Extn. Functionaries	3	3	75	109				
Total	80	105	2000	3434	11	1227	4000	22935

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
70.00	74.50	0	0

3. B. Abstract of interventions undertaken

Sr. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Increase productivity of major crops	Paddy, Soybean, Pigeon pea Sorghum Cotton, Sugarcane	Use of local variety High seed rate, Imbalance use of fertilizers No use of bio fertilizer lack of knowledge about SIRA & SRI technology	As per 3.a	Varietal demonstrations Nutrient management Use of bio-fertilizers Demonstration on SIRA technology.	Scientific Cultivation of major crops	As per 3.a	Field days, khedut shibirs, News paper coverage, film show Exhibitions etc.	Seed of improved variety
2.	Dissemination of production technology of fruits and vegetables and their post harvest management as well as promotion of precision farming	Banana Brinjal Pointed gourd Okra Mango Gerbera Green house/ net house technology High value crops	Use of local variety in brinjal Imbalance use of fertilizers in crops No use of bio-fertilizers Lack of knowledge about protective cultivation	-do-	INM in brinjal	Value addition in Papaya, Palas and Bixa Scientific cultivation of various crops Scientific cultivation of crops Training on protected cultivation and precision farming	-do-	Khedut shibirs, News paper coverage, film show Exhibitions etc. Awareness programmes on net house/ green house	Demonstration on INM, IPDM

Sr. 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.
3.	Popularize eco-friendly crop production with special reference to IPDM	Cotton, Pigeon pea Brinjal, Paddy, Sugarcane	Lack of knowledge about disease and insect pest management. Injudicious use of pesticides Lack of knowledge about Bio-fungicides	-do-	GM technology in cotton IPDM in paddy and brinjal	IPM in cotton IPDM in Pigeon pea Management of brinjal diseases	-do-	Khedut shibirs, News paper coverage, film show Exhibitions etc.	Seed of Cotton and trichoderma
4	Popularize eco-friendly crop production with special reference to INM.	Brinjal Okra, Banana Paddy	Imbalance use of fertilizers lack of awareness about use of bio-fertilizers	-do-	SIRA technology in Paddy INM in brinjal	INM in Paddy and pigeon pea	-do-	Field days, khedut shibirs, News paper coverage, film show , etc.	Bio Fertilizers,
5.	Management of natural resource, including salinity management	Paddy, Sugarcane, Soybean, Vegetables	In hilly area problem of water conservation In middle canal command area due to excess irrigation	---do-	Demonstration on salinity tolerant paddy variety GNR2 in coastal area.	Training on micro irrigation system Training on drainage management in water	-do-	Field days, khedut shibirs, News paper coverage, film show Exhibitions etc.	--

Sr. 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.
			problems of water logging and salinity In coastal area salinity problem			logged area			
6.	Increasing milk production by dissemination of latest technologies.	Animal husbandry	Poor dairy management Large number of non-descript animals with low milk production Poor availability of fodder in hilly area. Poor cultivation of fodder crops High calf mortality due to poor management	-do-	Use of mineral mixture Urea treatment to paddy straw Teat dip treatment with KMNO ₄ Scientific calf rearing	Animal health and care Dairy management Animal diseases and their management Scientific calf rearing	-do-	Pashu palan shibirs Animal health camps, awareness programmes, Literature publication etc	Mineral mixture KMNO ₄ Urea Plastic sheets Medicines etc.
7.	Imparting skill oriented training to the tribal women for sustaining	Value addition Small scale agricultural based	Lack of knowledge about value addition of locally available	-do-	--	Value addition in papaya by preparing jam Preparation of Mari- masala	-do-	khedut shibirs, News paper coverage, film show	--

Sr. 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.
	their livelihood.	entrepreneurship development	materials Lack of knowledge, skills regarding various small scale agricultural based enterprises			Preparation of syrup from <i>Hibiscus</i> Training on mushroom cultivation Preparation of various recipes from mushroom, Preparation on herbal Gulal from palas flowers As well as bixa seeds		Exhibitions etc	
8.	Popularizing of location specific farming system	Sugarcane, Paddy, wheat, Vegetables etc.	No proper farming system adopted by farmers according to AES	--	--	--	--	khedut shibirs, News paper coverage, film show, Mahila Shibir,	--

3.a. On Going On Farm Testing:

Discipline	Title
Plant protection	Assessment of stem application method of insecticide for the management of sucking pest in Okra
Horticulture	Validation of kitchen garden model suggested by Navsari Agricultural University
Home science	Evaluation of Low cost high calorie diets made from locally available food materials for Pre-school children.
Crop production	Assessment of aerobic rice in Olpad block of Surat District
Animal science	Nutritional enrichment in local grass <i>Fatedu</i>

3.1 Achievements on technologies assessed and refined -NIL(On going)

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

NIL

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Crop Management	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--

A.1.1 Abstract of the number of technologies assessed in respect of livestock / enterprises: (On going)

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Adolescent girls	TOTAL
TOTAL	1	-	-	-	-	-	-	1	2

A.2. Abstract of the number of technologies refined* in respect of crops/enterprises (On going)

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
TOTAL	1	--	--	--	2	--	--	--	--	3

A.2.1 Abstract on the number of technologies assessed in respect of livestock/ enterprises :- (On going)

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL	1	-	-	-	-	-	-	1

B. Details of each On Farm Trial to be furnished in the following format: Proposed in next year (On going)

1. Results of On Farm Testing (Agronomy) : Assessment of aerobic rice in Olpad block of Surat District

Crop	Variety	Farming situation	Title	No. of Farmers	Technology Assessed	Yield (Kg/ha)	% increase	BCR
Crop Production	GNR - 3	Irrigated	Assessment of aerobic rice in Olpad block of Surat District	1	T ₁ - Farmers method Broadcasting method of sowing	4080	-	1:2.42
					T ₂ - Transplanting	4830	18.38	1:2.32
					T ₃ - Aerobic method of rice cultivation	4650	13.97	1:2.71

2. Results of On Farm Testing (Home Science): Evaluation of Low cost high calorie diets made from locally available food materials for Pre-school children.

Crop/enterprise	No. of Children	Technology Assessed	Parameters of assessment	Avg. Body wt. Gain compare with before treatment (gm)	Results of assessment
Home Science	10	T1- Control	Gain in Body wt at 1st, 2nd, 3rd, 4th, 5th and 6th month of treatment	1st M : 130 2nd M :130 3rd M:220 4th M: 230 5th M: 220 6th M: 290	-
	10	T2- Low cost high calorie diet prepared from locally available food materials		1st M : 150 2nd M :185 3rd M:245 4th M: 270 5th M: 340 6th M: 400	30.32% increase in body weight than T1

3.2 Achievements of Frontline Demonstration

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

List of technologies demonstrated during previous year and popularized during 2013-14 and recommended for large scale adoption in the district

Sr No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Paddy – NAUR-1	ICM	New variety	FLDs	4	20	4
2	Paddy – GNR-3	ICM	New variety	FLDs	3	20	8
3	Paddy – GNR-4	ICM	New variety	FLDs	5	10	1
4	Paddy - GR-5	ICM	New variety	FLDs	4	20	4
5	Paddy - GAR-13	ICM	New Variety	FLDs	3	20	4
6	Paddy – GNR-3	ICM	SIRA technology	FLDs	3	20	8
7	Cotton Hy 6 Bt	ICM	New Variety	FLDs	5	20	3
8	Cotton Hy 8 Bt	ICM	New Variety	FLDs	5	20	3
9	Pigeon pea- Vaishali	ICM	New Variety	FLDs	7	50	20
10	Paddy	IPDM	Trichocard	FLDs	4	10	4
11	Paddy	IPDM	Azospirillum, pheromone trap and PSB	FLDs	5	20	8
12	Sugarcane	ICM	Intercrop	FLDs	4	20	8
13	Sugarcane	IPM	<i>Trichogramma</i>	FLDs	1	10	4
14	Sorghum – CSV 21 F (Fodder)	ICM	New variety	FLDs	4	20	4
15	Brinjal	IPM	Pheromone trap	FLDs	3	10	2
16	Brinjal	INM	Biofertilizer	FLDs	3	10	2
17	Kitchen garden	--	--	FLDs	2	20	0.2

b. Details of FLDs implemented during 2013-14 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

S N	Crop	Them atic area	Techn. Demonstra ted	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievem ent
					Pro posed	Actu al	SC /ST	Othe rs	Tot al	
Cereal crops										
1	Paddy – NAUR-1	ICM	New variety	Kharif -13	4	4	18	2	20	--
2	Paddy – GNR-3	ICM	New variety	Kharif-13	24	24	50	10	60	--
3	Paddy - GR-5	ICM	New variety	Kharif-13	4	4	20	0	20	--
4	Paddy-GNR 4	ICM	New variety	Kharif-13	1	1	0	10	10	--
5	Paddy – GNR-3	ICM	SIRA technology	Kharif-13	8	8	15	5	20	--
6	Paddy -	IPDM	Bio pesticide and pheromone trap	Kharif-13	8	8	15	5	20	--
7	Paddy	IPM	<i>Trichogramma</i>	Kharif-13	4	4	10	0	10	-
8	Sorghum – GSV 21 F	ICM	New variety	Rabi-13	4	4	20	0	20	--
Pulses										
1	Pigeon pea	ICM	New variety	Kharif-13	20	20	50	0	50	--
2										
Cash crops										
1	Cotton Hy 6 Bt (BG II)	ICM/IPM	New Bt Hybrid	Kharif-13	3	3	20	0	20	--
2	Cotton Hy 8 Bt (BG II)	ICM/IPN	New Bt Hybrid	Kharif-13	3	3	20	0	20	--
3	Sugarcane	ICM	Intercrop	Rabi-12	8	8	0	20	20	--
4	Sugarcane	IPM	<i>Trichogramma</i>	Rabi-12	4	4	0	10	10	--
Horticultural crops										
1	Brinjal	IPDM	IPDM	Rabi-12	2	2	10	0	10	--
2	Brinjal	INM	INM	Rabi-12	2	2	10	0	10	--
3	Kitchen garden	--	--	Rabi-12	2	2	20	0	20	--

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Cereal Crops											
Paddy – NAUR-1	Kharif-13	Irrigated/Rainfed	Medium Black	L	M	H	Fallow /Rabi vegetables	6 th June to 30 th June, 2013	30 th Oct. to 30 th Nov. 2013	1778.3	84
Paddy – GNR-3	Kharif-13	Irrigated	Medium Black	L	M	H	Sugarcane Summer Paddy	6 th June to 30 th June, 2013	30 th Oct. to 30 th Nov. 2013		
Paddy – GAR-13	Kharif-13	Irrigated	Medium Black	L	M	H	Sugarcane Summer Paddy	6 th June to 30 th June, 2013	30 th Oct. to 30 th Nov. 2013		
Paddy – GR 5	Kharif-13	Rainfed	Light soil Medium Black	L	M	H	Fallow	20 th June to 5 st July, 2013	15 th Oct. to 10 th Nov. 2013		
Paddy – GNR 4	Kharif-13	Irrigated	Light soil medium black Saline	L	M	H	Fallow	20 th June to 25 th July, 2013	17 th Oct. to 25 th Nov. 2013		
Paddy – GNR 3 SIRA	Kharif-13	Irrigated	Medium black	L	M	H	Sugarcane Summer paddy	6 th June to 30 th June, 2013	30 th Oct. to 30 th Nov. 2013		
Paddy – IPDM	Kharif-13	Irrigated	Medium black	L	M	H	Summer paddy/ Sugarcane	6 th June to 30 th June, 2013	30 th Oct. to 30 th Nov. 2013		
Pulses											
Pigeon pea	Kharif-13	Irrigated/rain fed	Light soil and Light Shallow	L	M	H	Fallow	30 th June to 15 th July, 2013	30 th Jan. to 10 th March 2014	1778.3	84

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					
Cash crop											
Cotton Hy 6 Bt (BG II)	Kharif - 13	Irrigated/rain fed	Medium black	L	M	H	Cotton	First week of July	Dec 13 to Feb. 2014	1778.3	84
Cotton Hy 8 Bt (BG II)	Kharif - 13	Irrigated/rain fed	Medium black	L	M	H	Cotton	First week of July	Dec.13 Feb. 2014		
Sugarcane	Rabi12	Irrigated	Medium black	L	M	H	Sugarcane	Oct. to Dec. - 12	Dec. to March 13-14		
Sugarcane	Rabi-12	Irrigated	Medium black	L	M	H	Sugarcane	Oct. to Dec. - 12	Dec. to March 13-14		
Fodder crops											
Sorghum CSV 21 F	Rabi-12	Irrigated	Medium black	L	M	H	Sugarcane	Nov. to Dec. - 12	March – April 13	1778.3	84
Horticultural crops											
Brinjal	Rabi -12	Irrigated	Medium black	L	M	H	Paddy	Nov.- Dec. 2012	April - May 2013	1778.3	84
Brinjal	Rabi -12	Irrigated	Medium black	L	M	H	Paddy	Nov.- Dec. 2012	April - May 2013		
Kitchen garden	Rabi -12	-	Medium black	L	M	H	Paddy	Nov.- Dec. 2012	April - May 2013		

Performance of FLD

Sr. 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
Cereal Crops												
1	Paddy	Variety	NAUR – 1	225	15	53.00	37.40	41.80	39.58	5.61	1:1.96	1:1.80
2	Paddy	Variety	GR – 5	20	4	16.10	13.50	14.76	12.82	15.13	1:4.10	1:3.56
3	Paddy	Variety	GNR – 4	10	1	32.00	27.15	29.03	22.00	31.95	1:3.41	1:2.67
4	Paddy	Variety	GNR – 3	20	20	56.24	37.05	46.07	44.07	4.54	1:2.30	1:2.20
5	Paddy	Variety	GAR – 13	20	4	51.20	36.50	45.08	42.51	6.05	1:2.25	1:2.13
6	Paddy	SIRA	-	101	20	53.00	42.15	45.28	38.72	16.94	1:2.41	1:1.94
7	Paddy	IPM	Bio pesticide, Pheromone trap	20	8	5300.00	3350.00	4308.00	4047.00	6.45	1:2.01	1:1.77
8	Paddy	IPM	<i>Trichogramma</i>	10	4	50.30	36.50	46.52	40.90	13.74	1:2.18	1:1.76
Pulses												
1	Pigeon pea	New variety	Vaishali	60	6	14.20	11.00	12.11	10.60	14.25	1:3.23	1:2.57
Cash Crops												
1	Sugarcane	Intercrop	Co 4	20	8	1050 (4.05)	830 (2.99)	970 (3.57)	920	5.43	1:1.33	1:1.30
2	Sugarcane	Bio control	<i>Trichogramma</i>	10	4	1020	820	950	900	5.55	1:1.36	1:1.25
3	Cotton Hy 6 Bt (BG II)	ICM/IPM	New Bt Hybrid	25	6.25	21.90	18.90	20.39	18.36	11.06	1:2.80	1:2.45
4	Cotton Hy 8 Bt (BG II)	ICM/IPM	New Bt Hybrid	25	6.25	19.30	16.10	17.60	16.25	8.31	1:2.01	1:1.81
Fodder crop												
1	Sorghum (fodder)	New variety	CSV-21F	5	2	410	360	387	326	18.71	1:4.74	1:4.43
Horticultural Crop												

Sr. 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	Brinjal	INM	Surti Ravaiya	10	2	128.00	109.10	117.46	98.20	19.61	1:3.82	1:3.15
2	Brinjal	IPM	Surti Ravaiya	10	2	139.10	90.00	111.36	98.60	12.94	1:2.59	1:2.10

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	Demo	Local
14	15	16	17	18	19	20	
Cereal Crops							
26700	27500	52250	49475	25550	21975	1.96	1.80
4500	4500	18450	16025	13950	11525	4.10	3.56
17000	16500	58060	44000	41060	19375	3.42	2.67
25000	25000	57588	55088	32588	30088	2.30	2.20
25000	25000	56350	53138	31350	28138	2.25	2.13
23500	25000	56600	48400	33100	23400	2.41	1.94
26700	27500	53580	48564	26880	21064	2.01	1.77
26700	27500	58150	48500	31450	21000	2.18	1.76
Pulses							
15000	16500	48440	42400	33440	25900	3.23	2.57
Cash Crops							
112073	107780	261090	248400	149017	140620	2.33	2.30
108500	107780	256500	243000	148000	135220	2.36	2.25
35000	36000	97872	88128	62872	52128	2.80	2.45
35000	36000	70400	65000	35400	29000	2.01	1.81

Fodder crop							
16330	15560	77360	65280	61030	49720	4.74	4.20
Horticulture Crop							
46070	46730	176190	147300	130120	100570	3.82	3.15
46570	47620	167040	147900	120470	100280	3.59	3.11

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 (q/ha)	Percentage increase in productivity over local check
Paddy NAUR – 1	Kharif-2013	ICM	Irrigated/ Rainfed	41.80	39.58	5.61
Paddy GR – 5	Kharif-2013	ICM	Rainfed	14.76	12.82	15.13
Paddy GNR – 4	Kharif-2013	ICM	Irrigated	29.03	28.70	31.95
Paddy GNR – 3	Kharif-2013	ICM	Irrigated	46.07	44.07	4.54
Paddy GAR – 13	Kharif-2013	ICM	Irrigated	45.08	42.51	6.05
Paddy SIRA	Kharif-2013	ICM	Irrigated	45.28	38.72	16.94
Paddy	Kharif-2013	INM	Irrigated	43.08	40.47	6.45
Paddy	Kharif-2013	IPM	Irrigated	46.52	40.90	13.74
Pigeon pea	Kharif-2013	ICM	Rainfed/irrigated	12.11	10.60	14.25
Sugarcane	Rabi-2012	ICM	Irrigated	970	920	5.43
Sugarcane	Rabi-2012	IPM	Irrigated	950	900	5.55
Cotton Hy 6 Bt (BG II)	Kharif-2013	ICM	Rainfed/irrigated	20.39	18.36	11.06
Cotton Hy 8 Bt (BG II)	Kharif-2013	ICM	Rainfed/irrigated	17.60	16.25	8.31
Sorghum (fodder)	Rabi-2012	ICM	Irrigated	387	326	18.71
Brinjal (Surti ravaiya)	Rabi-2012	INM	Irrigated	117.46	98.20	19.82
Brinjal (Surti ravaiya)	Rabi-2012	IPM	Irrigated	111.36	98.60	12.41

Technical feedback on the demonstrated technologies of plant protection

SN	Technology	Feed back
1	IPM	Good technology, pesticide load reduced and increase yield
2	<i>Trichogramma</i>	Reduce the per cent damage by stem borer

Technical Feedback on the demonstrated technologies of crop production

SN	Crop	Feed back
1	Paddy GR-5	1. Good fodder quality, 2. Weed smoothing variety 3. High yielding
2	NAUR-1	1. High yielding 2. Farmers expressed good interest as compare to hybrid 3. Early maturity as compared to hybrid 4. Good taste as compare to hybrid 5. Logging problems has been observed
3	GNR-3	1. High yielder and preferred by the farmers 2. Good quality 3. Low incidence of Insect pest
4	GNR - 4	1. Late maturity 2. Preferred for organic farming 3. BLB incidence was observed 4. Preferred due to nutritive value
5	GR – 13	1. Good performance as compare to GR -11 2. Problems of False smut 3. Good rice quality
6	SIRA	1. Fertilizer saving 2. Labour problems compel to adopt the technology 3. Preferred by the farmers
7	Pigeon pea	1. High yield 2. Good for green vegetables 3. Poor cooking quality
8	Brinjal INM	1. Increase quality of brinjal 2. Less incidence of wilt and other insect pests
9	Brinjal IPDM	1. Reduced number of pesticidal sprays 2. Less incidence of wilt and other diseases 3. Quality of brinjal improved as less number of infested fruits
10	Moong Sugarcane intercrop	1. Get additional income of moong 2. No weed problem/ no need to apply weedicide
11	Sugarcane <i>Trichogramma</i>	1. Less incidence of Early shoot borer and top borer 2. Reduced insecticides application
12	Fodder sorghum CSV 21 F	4. Good fodder production/ preferred by animal 5. Harvesting is very difficult because of its hardness at maturity stage.

General feed back of the Farmers'/Scientists other than FLDs

1. Incidence of sugarcane whitefly was found in new plantation in Kamrej Sugar factory area.
2. Problem of banana rhizome rot in tissue culture plant as well as Wilting of banana plant with splitting pseudo stem was reported in Kholeswer and nearby villages in Kamrej.
3. Heavy incidence of scale and mealy bugs was observed in variety Co 86002 at Kholeshwer, Taluka Kamrej District Surat.
4. Sorghum varieties GJ 38 and GJ 42 are good yielder but fetching poor price in market.
5. Harvesting of CSV 21 F fodder variety of sorghum is very difficult to harvest because of its hardness at maturity stage.
6. Nutritional value improvement as fodder in Fatedu – a local grass in tribal area

Horticulture: Kitchen garden

No. of FLD	Area (Guntha)	Crop yield (Kg.) per demonstration							
		Tomato	Okra	Brinjal	Chilli	Pigeon pea	Cluster bean	Cow pea	Indian bean
20	20	15.8	20.4	22.6	6.5	8.9	4.2	7.6	3.0

Crop yield (Kg.) per demonstration					Total Product ion (Kg.)	Average rate (Rs./Kg)	Gross return (Rs.)	
Cucum ber	Bitter gourd	Bottle gourd	Ridge gourd	Sponge gourd			Before FLD	After FLD
6.4	3.7	10.5	5.3	3.9	118.8	35	912=00	4158=00 along with domestic consumption

Farm Women feedback:

SN	Feed Back
1	Continuous supply of fresh vegetables at lower cost which provides daily nutritious diet.
2	They produce organic vegetables because farm women are not applying any pesticides or agrochemicals in their backyard.
3	Before demonstration, farm women were growing only two or three vegetable crops in their backyard but after demonstration they are growing different vegetable crops through kitchen gardening in scientific way.
4	They are utilized maximum backyard space and waste water.
5	Farm women are attracted towards hybrid vegetables.
6	Income is generated by selling extra vegetables grown in kitchen garden.

Animal Husbandry: Scientific calf rearing:

Parameters	Deworming + calf dan up to six months		Farmers method	
	3 Month	6 Month	3 Month	6 Month
Calf No.	10		6	
Body Wt.	56.8±3.22	84.8±4.94	52.50±4.72	74±6.80
% Increase	8.2	13.5	-	-

Use of mineral mixture:

Category	Thematic area	Name of the Technology Demonstrated	No. of Farmer	No. of Units	Major Parameters (L/Day)		% change in major parameter
					Demonstration	Check	
Cow	Nutrition Management	Mineral Mixture	20	20	Avg. milk yield	Avg. milk yield	12
					10.32 (20)	8.20 (10)	
					Service Period (Days)	Service Period (Days)	30
					104 (18)	152 (10)	
					0 (20)	2(10)	

Prevention of mastitis by teat dipping:

Category	Thematic area	Name of the Technology Demonstrated	No. of Farmer	No. of Units	Major Parameters	% change in major parameter
					Demonstration	Check
Cow	Preventive Measures	Mastitis prevention by Teat dipping (KMnO ₄)	20	20	No. of Incidence	No. of Incidence
					0 (20)	2(10)

Feed back

Sr. No.	Technology	Animals	Feedback reported
1	Urea Treatment to paddy straw	Cow	<ul style="list-style-type: none"> ➤ Increase milk yield ➤ Increase the total intake of paddy straw and reduce the wastage.
2	Mineral Mixture	Cow	<ul style="list-style-type: none"> ➤ Increase the milk yield ➤ Reduce service period
3	Teat dipping (KMnO ₄)	Cow	<ul style="list-style-type: none"> ➤ Reduce mastitis cases

Home Science: Introduction of improved Suruchi sickle for paddy harvesting:

Thematic area: Women drudgery reduction technology

Crop	No. of Demo. /farm woman	Field capacity per labour (ha/h)		Increase in field capacity (%)	Labour requirement (man/h/ ha)		Economics		
		Harvesting by local sickle	Harvesting by Suruchi sickle		D	L	Cost of operation * Rs./ ha		Savings cost (%)
							D	L	
Paddy	60	0.0063	0.0080	26.95	125	159	1875	2385	27.20

Labour cost calculated @ Rs. 15/hour

*Cost of operation is calculated as per Govt. rules.

Suruchi sickle is recommended by Suruchi centre, Bardoli.

Technical feedback:

1. Improved **Suruchi sickle** helps to reduce women drudgery in terms of time, efficiency and physical stress.
2. It also helps to overcome from physical hazards like finger injuries, hand grip, muscle stress etc.

Farm women's reaction:

1. **Suruchi sickle** increases working efficiency in short period of time, i.e. it is cost saving and time saving.
2. **Suruchi sickle** reduces fatigue, muscle stress, wrist pain and pain in shoulders as compared to local sickle.

Other FLDs - NIL

Name of Enterprise	Crop yield (Kg.) per demonstration							
	Tomato	Ridge gourd	Brinjal	Bottle gourd	Pigeon pea	Cluster bean	Bitter gourd	Sponge gourd
1	2	3	4	5	6	7	8	9
--	-	-	-	-	-	-	-	-

Extension and Training activities under FLD

Sr.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days				
	Rice	3	11, 14, 15-10-2013	285	
	Cotton	1	21-12-2013		
	Sorghum	1	2-1-2014		
	Brinjal	1	3-3-2014		
2	Farmers Training				
	Plant Production	3	19/6/13, 8/4/13, 15/4/13	107	
	Agronomy	7	25/5/13, 28/5/13, 30/11/13, 21/6/13, 18/6/13, 16/5/13, 29/5/13,	208	
	Horticultural	5	19/7/13, 15/10/13, 9/12/13, 4/1/14, 28/1/14	81	
	Animal Science	3	31/5/13, 31/7/13, 4/1/14	24	
	Home Science	4	15/6/13, 18/6/13, 10/7/13, 6/1/14	106	

3.3 Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit) :

A) ON Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	2	62	16	78	25	0	25	87	16	103
Integrated Crop Management	1	0	0	0	35	0	35	35	0	35
II Horticulture										
a) Vegetable Crops										

Production of low volume and high value crops	1	40	0	40	0	0	0	40	0	40
Nursery raising	1	0	0	0	30	27	57	30	27	57
Protective cultivation (Green Houses, Shade Net	1	0	0	0	30	0	30	30	0	30
b) Fruits										
Cultivation of fruits	1	16	0	16	0	0	0	16	0	16
c) Ornamental Plants										
d) Plantation crops										
e) Tuber crops										
f) Spices										
g) Medicinal and Aromatic Plants										
III Soil Health and Fertility Management										
IV Livestock Production and Management										
Feed management	2	0	0	0	50	51	101	50	51	101
V Home Science/Women empowerment										
Design and development of low/minimum cost diet	1	0	15	15	0	0	0	0	15	15
Value addition	1	0	0	0	4	11	15	4	11	15
VI Agril. Engineering										
VII Plant Protection										
Integrated Pest Management	3	35	2	37	126	6	132	161	8	169
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	2	0	0	0	8	35	43	8	35	43
XI Agro-forestry										
TOTAL	15	137	33	170	308	130	438	445	163	608
(B) RURAL YOUTH										
TOTAL	0	0	0	0	0	0	0	0	0	0
(C) Extension Personnel										
Productivity enhancement in field crops	1	29	4	33	0	0	0	29	4	33
Group Dynamics and farmers organization	2	0	0	0	31	45	76	31	45	76
TOTAL	3	29	4	33	31	45	76	60	49	109
Grand Total	18	166	37	203	339	175	514	505	212	717

Off Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	0	0	0	22	9	31	22	9	31
Nursery management	4	19	0	19	54	33	87	73	33	106
Integrated Crop Management	9	0	0	0	203	53	256	203	53	256
Fodder production	1	0	0	0	13	0	13	13	0	13
Production of organic inputs	1	0	0	0	95	3	98	95	3	98

II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	6	35	1	36	189	0	189	224	1	225
Nursery raising	4	43	0	43	94	47	141	137	47	184
Grading and standardization	7	2	108	110	9	115	124	11	223	234
Protective cultivation (Green Houses, Shade Net etc.)	2	0	0	0	0	35	35	0	35	35
b) Fruits										
Cultivation of Fruit	1	16	0	16	0	0	0	16	0	16
c) Ornamental Plants										
d) Plantation crops										
e) Tuber crops										
f) Spices										
g) Medicinal and Aromatic Plants										
III Soil Health and Fertility Management										
IV Livestock Production and Management										
Dairy Management	4	0	0	0	49	25	74	49	25	74
Disease Management	5	41	5	46	60	31	91	101	36	137
Feed management	1	0	0	0	18	4	22	18	4	22
Production of quality animal products	2	0	0	0	106	28	134	106	28	134
V Home Science/Women empowerment										
Designing and development for high nutrient efficiency diet	3	0	30	30	4	55	59	4	85	89
Gender mainstreaming through SHGs	1	0	21	21	0	0	0	0	21	21
Value addition	8	0	32	32	20	137	157	20	169	189
Location specific drudgery reduction technologies	2	0	0	0	19	39	58	19	39	58
VI Agril. Engineering										
VII Plant Protection										
Integrated Pest Management	7	0	0	0	128	24	152	128	24	152
Integrated Disease Management	2	0	0	0	74	38	112	74	38	112
Bio-control of pests and diseases	3	55	0	55	0	0	0	55	0	55
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
Group dynamics	1	0	0	0	19	0	19	19	0	19
Mobilization of social capital	2	0	0	0	77	32	109	77	32	109
Entrepreneurial development of farmers/youths	7	0	0	0	87	112	199	87	112	199

XI Agro-forestry										
TOTAL	84	211	197	408	1340	820	2160	1551	1017	2568
(B) RURAL YOUTH										
Mushroom Production	1	0	0	0	10	20	30	10	20	30
Dairying	1	0	0	0	31	15	46	31	15	46
Para vets				0			0	0	0	0
Para extension workers	1	0	0	0	67	6	73	67	6	73
TOTAL	3	0	0	0	108	41	149	108	41	149
(C) Extension Personnel										
TOTAL	0	0	0	0	0	0	0	0	0	0
Grand Total	87	211	197	408	1448	861	2309	1659	1058	2717

Consolidated training

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	3	62	16	78	47	9	56	109	25	134
Nursery management	4	19	0	19	54	33	87	73	33	106
Integrated Crop Management	10	0	0	0	238	53	291	238	53	291
Fodder production	1	0	0	0	13	0	13	13	0	13
Production of organic inputs	1	0	0	0	95	3	98	95	3	98
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	7	75	1	76	189	0	189	264	1	265
Nursery raising	5	43	0	43	124	74	198	167	74	241
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	7	2	108	110	9	115	124	11	223	234
Protective cultivation (Green Houses, Shade Net etc.)	3	0	0	0	30	35	65	30	35	65
b) Fruits										
Cultivation of Fruit	1	16	0	16	0	0	0	16	0	16
c) Ornamental Plants										
d) Plantation crops										
e) Tuber crops										
f) Spices										
g) Medicinal and Aromatic Plants										
III Soil Health and Fertility Management										
IV Livestock Production and Management										
Dairy Management	4	0	0	0	49	25	74	49	25	74
Disease Management	5	41	5	46	60	31	91	101	36	137
Feed management	3	0	0	0	68	55	123	68	55	123

Production of quality animal products	2	0	0	0	106	28	134	106	28	134
V Home Science/Women empowerment										
Design and development of low/minimum cost diet	1	0	15	15	0	0	0	0	15	15
Designing and development for high nutrient efficiency diet	3	0	30	30	4	55	59	4	85	89
Gender mainstreaming through SHGs	1	0	21	21	0	0	0	0	21	21
Value addition	9	0	32	32	24	148	172	24	180	204
Location specific drudgery reduction technologies	2	0	0	0	19	39	58	19	39	58
VI Agril. Engineering										
VII Plant Protection										
Integrated Pest Management	10	35	2	37	254	30	284	289	32	321
Integrated Disease Management	2	0	0	0	74	38	112	74	38	112
Bio-control of pests and diseases	3	55	0	55	0	0	0	55	0	55
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
Group dynamics	1	0	0	0	19	0	19	19	0	19
Mobilization of social capital	2	0	0	0	77	32	109	77	32	109
Entrepreneurial development of farmers/youths	9	0	0	0	95	147	242	95	147	242
XI Agro-forestry										
TOTAL	99	348	230	578	1648	950	2598	1996	1180	3176
(B) RURAL YOUTH										
Mushroom Production	1	0	0	0	10	20	30	10	20	30
Dairying	1	0	0	0	31	15	46	31	15	46
Para extension workers	1	0	0	0	67	6	73	67	6	73
TOTAL	3	0	0	0	108	41	149	108	41	149
(C) Extension Personnel										
Productivity enhancement in field crops	1	29	4	33	0	0	0	29	4	33
Group Dynamics and farmers organization	2	0	0	0	31	45	76	31	45	76
TOTAL	3	29	4	33	31	45	76	60	49	109
Grand Total	105	377	234	611	1787	1036	2823	2164	1270	3434

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date/ Duration	Training title*	Identified Thrust Area	No of Courses	No. of Participants			Self employed after training			Number of persons employed else where
					Male	Female	Total	Type of units	Number of units	Number of persons employed	
Home Science	20/1/14 to 24/1/14 (5 DAYS)	Preservation of Fruits and vegetables	Value addition	1	0	32	32			--	
Plant Protection	21/1/14 to 19/2/14 (30 Days)	Mushroom cultivation	EDP	1	10	20	30			--	
Horticulture	29/1/14 to 3/2/14 (5 Days)	Value addition in flowers	Value addition	1	0	28	28			--	
Crop Production	24/9/13 to 5/10/13 (13 Days)	Micro irrigation	Water management	1	25	00	25			--	
Animals Science	20/1/14 to 21/1/014 (2 Days)	Establishment of Dairy Unit	Quality Production	1	31	15	46			--	

(E) Sponsored Training Programmes

Sr. No	Date	Title	Discipline	Thematic area	Duration (days)	Clientele	No. of courses	Number of other participants			Number of SC/ST			Total number of participants			Sponsoring Agency
								M	F	T	M	F	T	M	F	T	
1	21/9/13	Scientific cultivation of sugarcane	Agronomy	Integrated Crop Management	01	Farmers	01	25	0	25	0	0	0	25	0	25	ATMA
2	21/9/13	Scientific cultivation of Rabi crops	Agronomy	Integrated Crop Management	01	Farmers	01	35	11	46	0	0	0	35	11	46	ATMA
3	6/7/13	Scientific cultivation of	Horticulture	Integrated Crop	01	Farmers	01	0	0	0	54	0	54	54	0	54	Watershed

		Creeper vegetables		Management													
4	26/7/13	Scientific cultivation of Creeper vegetables	Horticulture	Integrated Crop Management	01	Farmers	01	0	0	0	27	0	27	27	0	27	Watershed
5	4/7/13	Scientific cultivation of Creeper vegetables	Horticulture	Integrated Crop Management	01	Farmers	01	0	0	0	25	0	25	25	0	25	Watershed
6	29/8/13	Scientific cultivation of banana	Horticulture	Integrated Crop Management	01	Farmers	01	53	0	53	0	0	0	53	0	53	ATMA
7	8/10/13	Scientific cultivation of Vegetable	Horticulture	Integrated Crop Management	01	Farmers	01	35	1	36	0	0	0	35	1	36	ATMA
8	7/12/13	Management of Dairy animal and calf rearing	Animal husbandry	Dairy management	01	Farmers	01	45	0	45	0	0	0	45	0	45	ATMA
9	6/9/13	IPDM in Paddy and Sugarcane	Plant Protection	Integrated Pest Management	01	Farmers	01	0	0	0	16	17	33	16	17	33	ATMA
10	6/9/13	IPDM in rabi crops	Plant Protection	Integrated Pest Management	01	Farmers	01	32	18	50	0	0	0	32	18	50	ATMA
11	25/11/13	IPDM in Brinjal	Plant Protection	Integrated Pest Management	01	Farmers	01	0	0	0	28	14	42	28	14	42	ATMA
12	3/5/13	Malnutrition in Children	Home Science	Nutrition management	01	Farm Women	01	0	0	0	4	22	26	4	22	26	ATMA
13	8/5/13	Preparation of pickles	Home Science	Nutrition management	01	Farm Women	01	0	32	32	0	0	0	0	32	32	ATMA
14	8/5/13	Preparation of pickles	Home Science	Nutrition management	01	Farm Women	01	0	30	30	0	0	0	0	30	30	ATMA
15	4-6/6/13	Women health and nutritional awareness	Home Science	Nutrition management	01	Farm Women	01	0	46	46	0	0	0	0	46	46	Ambuja Foundation

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Participants											
		Farmers (Others)			SC/ST (Farmers)			Extension Officials			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	6	0	0	0	213	100	313	24	0	24	237	100	337
Kisan Mela	2	0	0	0	900	1400	2300	20	5	25	920	1405	2325
Kisan Ghosthi	1	20	3	23	50	7	57	7	3	10	77	13	90
Exhibition	1	50	25	75	950	900	1850	25	10	35	1025	935	1960
Film Show	57	768	147	915	1178	534	1712	32	14	46	1978	695	2673
Method Demonstrations	6	15	0	15	264	125	389	18	0	18	297	125	422
Farmers Seminar	9	531	36	567	1800	720	2520	60	24	84	2391	780	3171
Workshop	1	0	0	0	140	80	220	0	0	0	140	80	220
Group meetings	4	0	0	0	39	21	60	0	0	0	39	21	60
Lectures delivered as resource persons	15	212	128	340	225	174	399	44	0	44	481	302	783
Newspaper coverage	11	-	-	-	-	-	-	-	-	-	-	-	-
TV talks	3	-	-	-	-	-	-	-	-	-	-	-	-
Popular articles	12	-	-	-	-	-	-	-	-	-	-	-	-
Extension Literature	10	100	0	100	4000	2000	6000	0	0	0	4100	2000	6100
Advisory Services	767	229	8	237	501	29	530			0	730	37	767
Scientific visit to farmers field	111	153	20	173	173	520	693	62	0	62	388	540	928
Farmers visit to KVK	77	287	90	377	184	164	348	0	0	0	471	254	725
Diagnostic visits	113	191	3	194	314	31	345	0	0	0	505	34	539
Exposure visits	2	0	0	0	19	7	26	26	4	30	45	11	56
Animal Health Camp	3	0	0	0	333	30	363	6	0	6	339	30	369
Self Help Group Conveners meetings	9	0	0	0	0	127	127	0	0	0	0	127	127
Celebration of important days	9	110	430	540	1909	756	2665	30	14	44	2049	1200	3249
Total	1227	2616	865	3481	12242	6825	19067	323	64	387	15181	7754	22935

Celebration of Technological week: 28.1.14 to 2.2.14

Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Animal Health camp	1	100	Vaccination
Organic farming	1	112	Bio fertilizer, Bio pesticides
Pashupalan Shibir	1	313	Care and Management of milch animals
Film show	2	313	Cotton cultivation
Filed day	1	171	Terrace gardening and soilless cultivation
Terrace gardening and soilless cultivation	1	124	Scientific Cultivation of sugarcane
Goshthi	2	445	Bee keeping and pollination
Rearing of honey bee and pollination	1	178	Agriculture and dairy management
Distribution of Literature (No.)	5	1443	Sugarcane, Terrace gardening, cotton, dairy management , bio fertilizer
Total number of farmers visited the technology week	----	1443	

Kisan Mobile Advisory

No. of Farmers registered: 1024

Details of SMSs

Content Category	No. of Messages	No. of Farmers	Feed back of farmers if any
Crop Production	1	1024	
Crop Protection	1	441	
Livestock & Fisheries Advisory	1	1024	
Others (specify)	1	1024	
Total		3513	

INTERVENTIONS ON DROUGHT MITIGATION - NO SUCH CONDITION WAS OCCURRED

Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

Animal health camps organized

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

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies - Nil

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

Awareness campaign

KVK	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
	2		2	400							2	400
Total	2		2	400								400

3.5 Production and supply of Technological products

SEED MATERIALS:

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Paddy	GNR 3	7450 kg	169860	Yet to be sold

SUMMARY

Sr. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers	
	CEREALS	Paddy	7450 kg	169860	Yet to be sold

PLANTING MATERIALS: Nil

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
			--	--	--

SUMMARY

Sr. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
		--	--	--

Supply of technological products through KVK

Sr. No.	Crop/ Technology	Variety	Quantity (Kg)	Cost (Rs.)	Provided to No. of farmers	Area (Ha.)
1	Paddy	GNR 3	11250	256500	450	375
2	Paddy	Gurjari	15000	342000	600	500
3	Paddy	Jaya	13750	313500	550	458
4	Paddy	NAUR 1	3000	68400	1500	120
5	Paddy	GR 7	1000	22800	500	33
6	Paddy	IR 28	500	11400	250	20
7	Paddy	GR 5	1250	28500	250	25
8	Pegion pea	Vaishali	6000	600000	3000	400
9	Sorghum	GJ 42	1000	50000	500	83
10	Brinjal	Surti ravaiya	10	19000	20	35
11	<i>Trichoderma</i>	-	300	21000	10	150
12	<i>Pseudomonas</i>	-	300	21000	10	150
13	<i>Azotobactor</i>	-	100	7000	20	50
14	PSB	-	100	7000	20	50
15	KMB	-	100	7000	20	50
Total			53660	1775100	7700	2500

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

KVK News Letter: - Regular news of KVK is published in NAU Spectrum, NAU Publication.

(B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers	Bridging yield gaps in rainfed cotton: Concerns and Issues. An oral paper presented in National Seminar on Technology for Development and Production of rainfed cotton organized by Regional Cotton Research Station, NAU, Bharuch during 24-25 November, 2013. This paper got first prize for the best presentation in Social Science groups.	Verma, P.D., J.J. Pastagia, K.B. Sankat and A.T.Patel(2013).	Not applicable
	Assessment of stem application method of insecticide for management of sucking pests in cotton. A poster paper presented in National Seminar on Technology for Development and Production of rainfed cotton organized by Regional Cotton Research Station, NAU, Bharuch during 24-25 November, 2013.	Jadav, H.R, J.H. Rathod and J.J. Pastagia (2013).	Not applicable
	Basic issues and pragmatism approaches to women's entrepreneurship development in agriculture. An oral paper presented in National Seminar on Farm Women organized by NCCSD, Ahmedabad and JAU, Junagadh on 4-5 February, 2014 at JAU, Junagadh	Verma, P.D., Dipal N. Soni, J. J. Pastagia and V.M. Thumar (2014)	Not applicable
	Effect of growing media properties and its correlation studies in Gerbera production. The Bioscan, 9(1):79-83	Panj F G ,SunilaKumari, and Parmar P B (2014).	Not applicable
	Performance of Chitosan as foliar spray for production and quality improvement in <i>Dendrobium</i> cv. Sonia. Paper presented at "National dialogue on orchid conservation and sustainable development for community livelihood", organized by NRC for orchids, Pakyong and TOSI, Chandigarh held at Chintan Bhawan, Gantok, Sikkim on march 8-9, 2013. pp. 162	SunilaKumari, Jitendra Singh, Prashant Dubey, R. R. Saxena and Vijay Kumar (2013)	Not applicable

	Standardization of chitosan application for production and quality improvement of <i>Dendrobium</i> Paper presented at “National dialogue on orchid conservation and sustainable development for community livelihood”, organized by NRC for orchids, Pakyong and TOSI, Chandigarh held at ChintanBhawan, Gantok, Sikkim on march 8-9, 2013. pp. 163	SunilaKumari, Jitendra Singh, Prashant Dubey , R. R. Saxena and Vijay Kumar (2013) .	Not applicable
Total	6		
Technical reports	4		250
Popular articles	<i>Balako ane Pradushan</i>	Dipal Soni , Aarti Soni	
	<i>Balako na samanya dardo</i>	Dipal Soni	
	<i>Sankalit Balvikas Seva Yojana</i>	Dipal Soni , Aarti Soni	
	<i>Kheti Shetre Mahilao</i>	Dipal Soni	
	<i>Probiotic khorak</i>	Dipal Soni, Aarti Soni	
	<i>Krushu Udyog:Sakbhaji ane falono bakery vangi no upyog</i>	Dr. K.B. Kamalia, Dipal Soni	
	<i>Khet Udyog: Batata no lot</i>	Dr. K.B. Kamalia, Dipal Soni	
	<i>Ahhar ange bhul bhareli manyatao</i>	Dipal Soni, Aarti Soni	
	<i>Soybean ni vividh vanagio</i>	Dipal Soni, Aarti Soni	
	<i>Malaria ane tene atkavavana Upay</i>	Dipal Soni, Aarti Soni	
	<i>Leptospirosis ane under niyantran</i>	Dr. J.J. Pastagia, Dr. I.H. Kalyani	
	Kitchen garden	SunilaKumari	
Total	12		
Book	<i>Gunvatta Sabhar Beej Utpadan Mate Sankalit Rog Vivat Niyanttran</i>	Dr. J.J. Pastagia, Dr S.K.Chavada, A.T. Patel, Dr J.V.Suthar and Verma, P.D	1000

Leaflets/folders	KVK Information leaflet	-----	6000
	KVK ek parichay		2000
	Scientific cultivation of sugarcane	Dr J. V. Suthar <i>et al.</i>	500
	Scientific cultivation of paddy	Dr J. V. Suthar <i>et al.</i>	500
	IPM in Paddy	Dr. J. J. Pastagia <i>et al.</i>	500
	IDM in Paddy	Dr. S. K. Chawda <i>et al.</i>	500
	IPM in Okra	Dr. J. J. Pastagia <i>et al.</i>	500
	IPM in Brinjal	Dr. J. J. Pastagia <i>et al.</i>	500
	Scientific cultivation of okra	Dr. S. K. Chahal <i>et al.</i>	500
	Scientific cultivation of brinjal	Dr. S. K. Chahal <i>et al.</i>	500
	Low cost technology	Dr. P. D. Verma <i>et al.</i>	500
	Calf rearing	Dr. H. C. Parmar <i>et al.</i>	500
Total	12		15000
Grand Total	36		16250

(C) Details of Electronic Media Produced : NIL

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	--	--	--
2	--	--	--

3.7 SUCCESS STORIES / CASE STUDIES:

1. Animal Husbandry

Title: Economic empowerment of tribal and land less labor through animal Husbandry

Name of farmer: Shri Chetan Bahi Patel
Village: Vachhavad, Ta: Mahua, Dist: Surat
Age: 30 Years, Education: 7th std,
Size of land holding: 0.06 ha.
Motivation factor: Less income
Sources of information: KVK, SUMUL & Line department
Comparative study of 25 animals

Farm Details :

Total herd strength : 25 HF cows and calves 5

Total milk production : 280 liter / day

Rate: 24-25 Rs. / liter

Income : 7000 Rs per Day (approx.)

Methods of Milking : Milking machine

Details of progress:

In 2009- only one cow

Per day milk production 7-8 liter

Working with diamond industries and income was Rs. 7-8 thousand per month

At present: 25 cow left the job and earning Rs. 51750/-

Expenditure details:

Initial expenditure 16,50,000/- (Shed preparation, purchase of cows, milking machine and chaff cutter *etc.*)

Expenditure per day:

Sr. No.	Item	Rs.
1	Concentrate	1925/- (60 Kg concentrate + 60 kg cotton seed cake and rice bran 35 kg) total 155 kg per day
2	Fodder	1000/-
3	Labor cost	300 (2 Labors)
4	Miscellaneous cost	1000/- (Electric bill, water supply, Transport, Medicine, Doctor visits, etc)
5	Interest on Initial expenditure	1100/-
	Total Expenditure	5325/-

Income per day:

Sr. No.	Item	Rs.
1	Milk	7000/-
2	FYM	50/-
	Total	7050/-

Total Income	7050/- per day
Total Expense	5325/- per day
Total Benefits	1725/- per day
Cost benefit ratio: 1:1.32	
Per month Income: 51750/-	
His earning nearly Rs. 43000/- more as compare to previous job.	

2. Cropping System:

Title: Sugarcane with Brinjal based innovative cropping system for small and marginal farmers:

Name of farmer: Manharbhai Mulchandbhai Patel
Village: Zokha Ta: Kamrej, Dist: Surat
Age: 56 Years, Education: 11th std,
Size of land holding: 2.4 ha.
Motivation factor: Economic return from vegetable
Sources of information: KVK, NAU & Line department
Comparative study of 1 ha.
Cropping system : Sugarcane + Brinjal as intercropping
Variety : Sugarcane - 707, Brinjal - Sungrow 143
Specialty : Organic practices
Source of Irrigation : Canal

Methods of Sowing:

- Sugarcane + Brinjal
- Distance between sugarcane rows: 8'
- Distance between Brinjal rows: 4' (Between sugarcane)

Sowing Time sequence:

- Brinjal - August.
- Sugarcane - October

Cost of cultivation

Year	2013	
Crops	Sugarcane + Brinjal	
Variety	Sugarcane - 707, Brinjal - Sungrow 143	
Cost items	Physical Unit	Value in Rs.
Preparatory Tillage		4761
Seeds (Kg)	Brinjal	4166
	Sugarcane	5952
FYM	3 trailer	5952
Sowing cost	Sugarcane + Brinjal	4524
Bio-fertilizers		952
Irrigation	10 days interval	2381

Weed management	Manually	11904
Plant protection	Cow urine, Lamon flour, Flour of permilletts, allum <i>etc</i> (6 times)	5952
Harvesting / Picking	40 times (11 lobar per time)	35200
Miscellaneous		5000
Total cost		81983
Production:		
Sugarcane	35.71 ton	71420
Brinjal	18000 kg	196071
Total Income (Rs./ha)		267491
Total cost		81983
Total benefit		185508
BC ratio		1: 3.26

Sugarcane Alone		
Total cost		82000
Production	80 ton	192000
Total Income (Rs/ha)		192000
Total cost		82000
Total benefit		110000
BC ratio		1:2.34

Benefits and limitations of the system

1. Highly remunerative
2. Improve soil fertility.
3. Gave higher yield as compare to sugarcane alone
4. Incidence of insect pest is lees.
5. Facing labor problem to perform the regular operations.

Suggestions: Distance between two rows may be up to 6' instead of 8'

3. Entrepreneurship development

Entrepreneurship development of Self Help Group through spices and condiments

1.	Name & type of SHG	Vanravan tribal Self Help Group
2.	Village	Gamtalav
3.	Taluka & District	Mandvi, Surat
4.	Name of President of SHGs	President : Chaudhari Sharmilaben Harisingbhai (Vanravan SHG)
5.	Total member of SHG	12 tribal farm women
6.	Motivation factor	Krishi Vigyan Kendra, Surat and Forest department
7.	Technical guidance	Krishi Vigyan Kendra, Surat
8.	Key intervention made by KVK	1. Irregular activity 2. Low income 3. Lack of awareness about need based income generation activities 4. Engaged in labor work

		Preferred activities by the KVK to empower the SHGs: 1. Value addition in soybean papaya, Mango, Tomato, Aonla 2. Mushroom cultivation 3. Establishment of dairy unit 4. Value addition in Spices and condiments
9.	Group activity before training	Limited up to saving only
10.	Month & Year of Vocational Training on Masala preparation	22 & 28, January' 2013
11.	Types of various products of spices and condiments	1. Tea masala 2. Pavbhaji masala 3. Chhole masala 4. Sambhar masala 5. Pulav masala 6. Garam masala 7. Garlic masala 8. Chat masala 9. Fruit masala
12.	Initial expenditure	5000/-
	Expenditure up to march 2014	37600/-
13.	Initial Income	6450
	Income up to March 2014	23400/-
	Total selling up to March 2014	61000/-
14.	Benefit	23400/- (Krishi Vigyan Kendra motivating the group to start the activity on regular bases)
15.	Benefit cost ratio	1:1.62
16.	Bank loan for income generating activities	7,500/- Paid
17.	Materials/ equipment purchased for Masala preparation	Raw materials for masala preparation, plastic bags etc.
18.	Income generation of SHG through Masala products	1500/- to 2000/- per month
19.	Marketing	1. Agri. & Gandhi fair, Khedut Shibir, Mahila samelan, other SHG/Sakhi mandal members, etc. 2. Village people also purchased from SHG centre (Home).
20.	Opinion of the group	1. Remunerative and less risk 2. Marketing easy 3. Need financial help to start large scale business

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year

Students of MRS have been updated with latest technologies for dissemination in respective villages.

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development

Sr. No.	ITK Practiced	Purpose of ITK
1.	Soak seed with sour butter milk overnight to control the catter piller in caster crop and may be used in other crops too.	Plant Protection
2.	Use of Alum to control wilt disease.	
	Crush Bitter Drum stick (3 kg) + Pilvan leaves (3 kg) and boil it. Mix 3 litre of solution in 10 litre of water and spray for the control of powdery mildew of bottle gourd.	
	Make the hole with the help of needle above half feet from ground level and insert <i>Asphatodia</i> with the help of needle and plug it with mud for the management of Bottle gourd powdery mildew.	
3.	Removed of tips in Paddy and other seedlings to enhance drought tolerance and also sustained to water logging/ flowing condition.	Agronomy
4.	Using smoke of Honey comb in treating post partum udder edema in cattle.	Animal Science
5	Using hot sand cover with cloth in treating post partum udder edema in cattle.	Animal Science

3.10 Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers / farm women: – PRA and group discussion, Field visits
- Rural Youth: – Group discussion with youth, at the time of field visit.
- Inservice personnel: – Discussion with concern department.

3.11 Field activities

- i. Number of villages adopted: - 19
- ii. No. of farm families selected :-
- iii. No. of survey/PRA conducted :- 19

3.12 Activities of Soil and Water Testing Laboratory NIL Yet to be granted

- Status of establishment of Lab :
1. Year of establishment :
 2. List of equipments purchased with amount :

3.13 Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

4.0 IMPACT: KVK was started in 2012

4.1. Impact of KVK activities : NIL

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

4.2. Cases of large scale adoption

Sr. No	Crop/ Enterprise	Thematic Area	Large scale adoption (%) in adopted villages	
			Before KVK	After KVK
1	Rice (GNR – 3)	Crop production	0	37

*Rice GNR – 3 variety adopted in 600 ha area of Olpad taluka in Surat district.

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

5. LINKAGES

5.1 Functional linkage with different organizations

Sr. No.	Name of Organization	Nature of Linkage
1	Dept. of Agriculture	Participation <ul style="list-style-type: none"> • Khedut Shibir • Soil Health Card & In-service Training • Extension Activities, RKVY, SRI techniques, Krishi Mela, Krishi Mahotsav etc.
2	Dept. of Horticulture	Participation <ul style="list-style-type: none"> • Khedut Shibir • Extension Activities, NHB & NHM Krishi Mela, krishi mahotsav etc.
3	ATMA	Participation <ul style="list-style-type: none"> • Khedut Shibir/Mahila Shibir • Extension Activities • Training programmes • Krishi Mela, krishi mahotsav etc.
4	Main Cotton Res. Station, NAU, Surat	Collaboration-FLD on cotton
5	Main Water Management Research Unit, NAU, Navsari	Greenhouse
6	Research Stations, NAU	Participation-Farmers day, Seed-FLDs, etc.
7	FTC Bardoli	Farmer's Fair, Krishi Mela,

8	Co-operative Societies Mandvi Rice Mill Sosak Cotton Co-op. Mandli Olpad Cotton Co-op. Mandli Talad Co-op. Mandli Jahangirpura Co-op. Mandli Village Milk Co-operatives	<ul style="list-style-type: none"> • Khedut Shibir/Mahila Shibir • Extension Activities • Training programmes
9	NGOs 1. Ambuja Foundation 2. Sant Banadas Trust 3. Bhal Area Adijati Vikas Trust 4. Ambedkar Trust	Training, Khedut shibir.
10	Department of Animal Husbandry	Animal Husbandry camps, shibirs, Exhibitions, Dairy related activities.
11	College of veterinary, NAU, Navsari	Animal Husbandry camp, Surgical camps, Pashupalan shibirs, .
	Central Soil Salinity Research Institute, Bharuch	Demonstration on salinity tolerant varieties of rice and technical support.
12	N. M. College of Agriculture, & Horticulture NAU, Navsari	Participation <ul style="list-style-type: none"> • Diagnostic services,
13	SUMUL	Animal Husbandry related activities
14	District Watershed Management Unit	Participation : Khedut Shibir/Mahila Shibir, Extension Activities, Training programmes
15	Water and Land Management Institute	Participation in training programmes
16	Geology Department	Participation in training programmes
17	Forest Department	Participation : Khedut Shibir/Mahila Shibir <ul style="list-style-type: none"> • Extension Activities • Training programmes
18	District Rural Development Agency (DRDA)	Participation : Khedut Shibir/Mahila Shibir <ul style="list-style-type: none"> • Extension Activities • Training programmes • SHGs meeting
19	NBAII, Bangalore	Insecticide and heat tolerant <i>Trichogramma</i> and salinity resistant <i>Trichodema</i> spp.
20	Gujarat Green Revolution Company (GGRC)	Vocational training
21	Mahuva Taluka Sugar Co-operative Mandali	Training programmes

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.)
Seed Village Programme	June 2013	Govt. of India, New Delhi	489150
ICAR Seed Project (TSP)	Sept. 2013	ICAR, New Delhi	100000
AICCIP Cotton (TSP)	Aug. 2013	AICCIP, Coimbatore	100000
Adaptive Trial	Sept. 2013	Govt. of Gujarat, Gandhinagar	200000

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes / No

Sr. No.	Programme	Nature of linkage	Remarks
1	Participation in <ul style="list-style-type: none"> • Modality of Demonstration • Staff capacity building • Field visit • Farmers Training • Field Days • Farm School • Technology assessment and refinement • Best ATMA farmers award visits • Impact assessment of ATMA Activities Training programmes 	Technical Support through training etc	--

5.4 Give details of programmes implemented under National Horticultural Mission: -NIL

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)

5.5 Nature of linkage with National Fisheries Development Board :- NIL

6 PERFORMANCE OF INFRASTRUCTURE IN KVK : NIL

(Infrastructure is yet to be developed)

6.1 Performance of demonstration units (other than instructional farm) No demonstration unit has been established as no grant allotted

Sr. No.	Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
									--

6.2 Performance of instructional farm (Crops) including seed production: Farm is in development phase

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (Kg)	Cost of inputs	Gross income	
paddy	15/07/13	30/10/13	2.0	GNR3	Seed	7450	8374	169860	
Green gram	14/2/14		1.0	Meha	Seed	Crop standing			
Green gram	15/11/13	-	0.5	Co 4	Seed	Crop standing			

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

6.4 Performance of instructional farm (livestock and fisheries production) :- -- NIL--

6.5 Rainwater Harvesting: - --No structure Develop

6.6 Utilization of hostel facilities: - No Hostel facilities available

7. FINANCIAL PERFORMANCE

7.1 Budget and Account

Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With KVK NAU KVK's A/C	State Bank Of India	Nanpura Surat	32212880883
Revolving fund NAU KVK Revolving Fund A/C	State Bank Of India	Nanpura, Surat	32212887448

7.2 Utilization of KVK funds during the year 2013-14 (in Rs.)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	45.00	45.00	4445849
2	Traveling allowances	1.25	1.25	133048
3	Contingencies	10.50	10.50	1037961
TOTAL (A)		56.75	56.75	5616858
B. Non-Recurring Contingencies				
TOTAL (B)		-	-	-
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		56.75	56.75	5616858

7.3 Status of Revolving Fund (Rs. in lakhs) for the three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2011 to March 2012	1.00	0.00	0.21754	0.78248
April 2012 to March 2013	0.78248	0.6511	0.28539	0.56768
April 2013 to March 2014	0.56768	0.268128	0.225053	0.99843

Note: Approx. Income of Rs. 6.00 lakhs will be generated from selling of Paddy Seed and amount of project report of watershed evaluation

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

No Fund is released by council.

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

No Fund is released by council.

7.6 Utilization of funds under FLD on Cotton (Rs. in thousand)

No Fund is released by council.

7.0 Please include information which has not been reflected above (write in detail).

1. Monitoring and evolution of watershed projects (Total 15 projects)
2. Survey of children for assessing level of malnutrition
3. Participated in exhibition of Gujarat Gaurav Din celebrated at NAU, Navsari.
4. Developed cluster of 32 villages with Forest Department.
5. Channelize seed distribution system in surat district.
6. Formation of group of organic farmers.

8.1 Constraints

(a) Administrative

Eight vacant posts of computer programmer, field assistant, stenographer, clerk, drivers (2), supporting staff (2)

(b) Financial

No fund allotted for Administrative Building, Farmers Hostel, Quarters, Office furniture/ equipments, field equipments and others etc.

(c) Technical - Nil

Annexure 1

Annexure I: District Profile

1. General census

Description	2011	2001
Actual Population	6,079,231	4,275,540
Male	3,399,742	2,362,072
Female	2,679,489	1,913,468
Population Growth	42.19%	54.30%
Area Sq. Km	4,327	4,327
Density/km ²	1,376	968
Proportion to Gujarat Population	10.07%	8.44%

2. Agricultural and allied census

Livestock and poultry population in the Surat district

Cattle	213107
Buffaloes	219243
Indigenous cow	213107
Cross bred cows	
Sheep	1086
Goat	106237
Pigs	2589
Poultry	707205
Milk production per animal (Kg/lactation)	
Indigenous cow @ 3.68 kg/day	1104
Cross breed cow @8.4 kg/day	2520
Buffalo @ 4.5 kg/day	1350

Information on Land use pattern in the SURAT District

Block	Geographical Area (Ha.)	Cultivable Area (Ha.)	Cultivated Area (Ha.)	Cultivable waste	Current Fallow (Ha.)
Olpad	68705	60901	44981	12	191
Mangrol	61884	51029	50845	15	143
Umarpada	39370	14949	14818	-	117
Mahuva	35428	28788	28307	-	71
Mandvi	73113	50158	43758	-	21
Kamrej	32920	31343	30592	27	521
Choryasi	47134	40495	31265	310	3610
Palasana	20084	17572	17235	-	21
Bardoli	37917	31872	31296	-	11
Total	4275540	330952	294141	364	4706

3. **Agro-climatic zones (As per 2.2)**
4. **Agro-ecosystems (As per 2.2)**
5. **Major and micro-farming systems (As per 2.1)**
6. **Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc. (As per 2.4)**
7. **Major agriculture and allied enterprises (As per 2.1 & 2.5)**

Agro-ecosystem Analysis of the focus/target area

1. Names of villages, focus area, target area etc. (As per 2.6)
2. Survey methods used :- PRA, Group Discussion
3. Various techniques used and brief documentation of process involved in applying the techniques used :- Transect, resource map
4. Analysis and conclusions:-
 - Increase productivity of major crops e.g. Paddy, Cotton, Sorghum, sugarcane.
 - Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.
 - Management of natural resource, including salinity management
 - Popularizing of location specific farming system
 - Popularize eco-friendly crop production with special reference to IPDM & INM.
 - Increasing milk production by dissemination of latest technologies.
 - Imparting skill oriented training to the tribal women for sustaining their livelihood.
 - Promotion of small scale farm mechanization in tribal area.
5. List of location specific problems and brief description of frequency and extent/ intensity/severity of each problem (As per 2.6)
6. Matrix ranking of problems – Not applicable
7. List of location specific thrust areas (As per 2.6)
8. List of location specific technology needs for OFT and FLD :

FLDs on Crops

Sr. No	Crop	Technology Demonstrated	Variety
1	2	3	4
1	Paddy	Popularize New variety	NAUR – 1
2	Paddy		GR – 5
3	Paddy	popularize new variety	GNR – 4

4	Paddy	popularize new variety	GNR – 3
5	Paddy	popularize new variety	GAR – 13
6	Paddy SIRA	popularize new variety	GNR-3
7	Pigeon pea	popularize new variety	Vashali
8	Sugarcane+ CO4 green gram	Popularize intercropping system	CO4
9	Cotton Hy 6 Bt (BG II)	popularize new variety	G COT Hy -6 and 8 BT
10	Cotton Hy 8 Bt (BG II)	popularize new variety	G COT Hy -6 and 8 BT
11	Sorghum (fodder)	popularize new variety	CSVF-21
12	Brinjal (Surti ravaiya)	popularize Quality variety	Surti ravaiya
13	Brinjal (Surti ravaiya)	INM & IPDM	Surti ravaiya & bio fertilizers
14	Kitchen gardening & model	Malnutrition	Improved varieties of different vegetables
15	----	Sickle	Drudgery reduction
16	Paddy	Sowing method(Aerobic rice)	GNR-3
17	Malnutrition	Enrichment of Diet	Locally available

FLDs on Live stock

Sr. No	Technology to be demonstrated	Objective
1.	Scientific calf rearing	To reduce calf mortality and induce early calving
2.	Mineral Mixture	To popularize Mineral Mixture Supplementation
3.	Urea treatment to Paddy straw	To introduce urea treatment
4.	Teat dipping	To Control the Mastitis

9. Matrix ranking of technologies : Not Applicable

10. List of location specific training needs (As per annexure II)

Technology Inventory and Activity Chart

Sr. No	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference/citation
1	Brinjal	Biopesticides, Pheromone Trap	-	NAU, Navsari	NAU, Navsari
2	Paddy	Biofertilizers	-	NAU, Navsari	NAU, Navsari
3	Sugarcane	Heat tolerant <i>Trichogramma</i>	-	NBAII, Bangalore	NBAII, Bangalore
4	Paddy	Insecticide resistant <i>Trichogramma</i>	--	NBAII, Bangalore	NBAII, Bangalore
5	Scientific calf rearing	Animal Husbandry	--	Nutrition Department Anand Agri. Uni. Anand	Live stock Reproduction and Management by G C Banerjee
6	Suppliant feeding Mineral Mixture	Animal Husbandry	--	Nutrition Department Anand Agri. Uni. Anand	Live stock Reproduction and Management by G C Banerjee
7	Urea Treatment	Animal Husbandry	--	Nutrition	Live stock

	on Paddy straw			Department Anand Agri. Uni. Anand	Reproduction and Management by G C Banerjee
8	Paddy	NAUR – 1	2007	NAU, Navsari	RRRS, Vyara
9	Paddy	GR – 5	1990	NAU, Navsari	RRRS, Vyara
10	Paddy	GNR – 4	2013	NAU, Navsari	NAU, Navsari
11	Paddy	GNR – 3	2011	NAU, Navsari	NAU, Navsari
12	Paddy	GAR – 13	2009	AAU, Anand	MRRS, Nawagam
13	Paddy	SIRA	2010	NAU, Navsari	RRRS, Vyara
14	Cotton	G.Cot.H.- 6	2011	NAU, Navsari	NAU, Navsari
15	Cotton	G.Cot.H.- 8	2011	NAU, Navsari	NAU, Navsari
16	Pigeon pea	<i>Vaishali</i>	-	NAU, Navsari	NAU, Navsari
17	Sorghum	CSV 21 F	-	NAU, Navsari	NAU, Navsari
18	NAU kitchen garden model	Kitchen Gardening		NAU	Suggested by NAU
19	INM- biofertilizers	Brinjal	2007	NAU, Navsari	Research accomplishments and recommendations 2006-07, Published by DR NAU, Navsari page 19

1. Activity Chart (As per 3B)

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

1. Paddy: High yielder better performance in saline soil
2. Pigeon pea High yielder
3. Bio-Fertilizer: Minimized use of chemicals
4. SIRA & SRI Technology in Paddy: High Yield and minimized use of fertilizer
5. Feed & Fodder management in Calf Rearing: Better growth and early calving
6. Feed & Fodder management through Urea Treatment and Use of Mineral Mixture:
Improve in milk production, Reduce anoestrus problems
7. Use of KMNO₄ for Teat dipping: Reducing mastitis problems

Annexure – II

Details of Training programmes:

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off / On Campus)	Number of other participants			Number of SC/ST			Total number of participants		
							M	F	T	M	F	T	M	F	T
Plant Protection															
26-27/8-13	PF	IPDM in Kharif crops	Plant Protection	IPDM	2	ON	0	0	0	52	00	52	52	00	52
16/11/13	PF	IPDM in for organic vegetables	Plant Protection	IPDM	1	ON	35	2	37	0	0	0	35	2	37
23/11/13	PF	IPDM in Brinjal	Plant Protection	IPDM	1	ON	0	0	0	74	6	80	74	6	80
8/4/2013	P.F.	Integrated Pest & Disease management in Parval	Plant Protection	IPDM	1	OFF	53	0	53	0	0	0	53	0	53
15/4/2013	P.F.	Integrated Pest & Disease management in Brinjal and Sugarcane	Plant Protection	IPDM	1	OFF	0	0	0	28	0	28	28	0	28
22/4/2013	P.F.	Seed treatment importance and methods	Plant Protection	IPDM	1	OFF	0	0	0	0	21	21	0	21	21
7/5/13	P.F.	IPDM in Paddy	Plant Protection	IPDM	1	OFF	0	0	0	20	00	20	20	00	20
14/5/13	P.F.	IPDM in creeper vegetables	Plant Protection	IPDM	1	OFF	0	0	0	27	00	27	27	00	27
28/5/13	P.F.	IPDM in Paddy	Plant Protection	IPDM	1	OFF	0	0	0	14	00	14	14	00	14
29/5/13	P.F.	IPDM in Paddy	Plant Protection	IPDM	1	OFF	0	0	0	14	3	17	14	3	17
15/6/13	P.F.	IPDM in Kharif crops	Plant Protection	IPDM	1	OFF	0	0	0	25	00	25	25	00	25
19/6/13	P.F.	IPDM in Banana with biocontrol	Plant Protection	IPDM	1	OFF	16	00	16	0	0	0	16	00	16
20/6/13	P.F.	IPDM of Banana with biocontrol	Plant Protection	IPDM	1	OFF	16	0	16	0	0	0	16	0	16

19/7/13	P.F.	IPM & in parval with biocontrol	Plant Protection	IPDM	1	OFF	23	0	23	0	0	0	23	0	23
25/11/13	PF	IPDM in Brinjal	Plant Protection	IPDM	1	Off	0	0	0	28	14	42	28	14	42
17/1/14	P.F.	IPDM in vegetable crops in green house	Plant Protection	IPDM	1	Off	0	0	0	46	24	70	46	24	70
21/1/14	R.Y.	Mushroom cultivation	Plant Protection	Entrepreneurship development	7	OFF	0	0	0	10	20	30	10	20	30
Agronomy															
24-9-13 to 5/10/2013	R. Y.	Drip and Sprinkler irrigation	Agronomy	Water Management	13	ON	0	0	0	25	0	25	25	0	25
26/4/13	P.F.	Scientific Cultivation of Cotton	Agronomy	ICM	1	ON	0	0	0	35	0	35	35	0	35
6-7/8/13	EF	Water harvesting and ground water recharge techniques	Agronomy	Water management	2	ON	29	4	33	0	0	0	29	4	33
24/7/13	PF	Water harvesting and ground water recharge techniques	Agronomy	Water management	1	ON	62	16	78	0	0	0	62	16	78
4/5/13	P.F.	Nursery raising of <i>kharif</i> crops	Agronomy	Nursery Management	1	Off	0	0	0	13	29	42	13	29	42
16/5/13	P.F.	Weed management in <i>Kharif</i> crops	Agronomy	Weed Management	1	Off	0	0	0	22	9	31	22	9	31
22/5/13	P.F.	Nursery raising of <i>kharif</i> crops	Agronomy	Nursery Management	1	Off	19	00	19	0	0	0	19	00	19
25/5/13	P.F.	Scientific Cultivation of Paddy through SIRA method	Agronomy	ICM	1	Off	0	0	0	24	13	37	24	13	37
28/5/13	P.F.	Scientific Cultivation of Paddy	Agronomy	ICM	1	Off	0	0	0	17	3	20	17	3	20
28/5/13	P.F.	Scientific Cultivation of Paddy	Agronomy	ICM	1	Off	0	0	0	24	0	24	24	0	24
29/5/13	P.F.	Scientific Cultivation of Paddy	Agronomy	ICM	1	Off	0	0	0	21	13	34	21	13	34
31/5/13	P.F.	Scientific Cultivation of Paddy	Agronomy	ICM	1	Off	0	0	0	13	2	15	13	2	15
6/6/13	P.F.	Scientific Cultivation of <i>Kharif</i> crops	Agronomy	ICM	1	Off	0	0	0	21	2	23	21	2	23

6/6/13	P.F.	Scientific Cultivation of <i>Kharif</i> crops	Agronomy	ICM	1	Off	0	0	0	31	4	35	31	4	35
14/6/13	P.F.	SRI and SIRA methods of cultivation in Rice	Agronomy	Organic Inputs	1	OFF	0	0	0	95	3	98	95	3	98
21/6/13	P.F.	DAPOG method of rice nursery for mechanical transplanting	Agronomy	ICM	1	OFF	0	0	0	26	0	26	26	0	26
21/6/13	P.F.	DAPOG method of rice nursery for mechanical transplanting	Agronomy	ICM	1	OFF	0	0	0	15	4	19	15	4	19
20/9/13	P.F.	Scientific cultivation of early <i>Rabi</i> crops (S)	Agronomy	ICM	1	OFF	0	0	0	17	5	22	17	5	22
24/10/13	P.F.	Scientific cultivation of early <i>Rabi</i> crops (S)	Agronomy	ICM	1	OFF	0	0	0	35	11	46	35	11	46
28/10/13	E.F.	Scientific cultivation of <i>Rabi</i> crops	Agronomy	ICM	1	OFF	18	7	25	0	0	0	18	7	25
30/11/13	P.F.	Scientific cultivation of fodder crops	Agronomy	Fodder production	1	OFF	0	0	0	13	0	13	13	0	13
10/12/13	P.F.	Use of paddy transplanter	Agronomy	FM	1	OFF	0	0	0	18	2	20	18	2	20
Animal Husbandry															
6/7/13	P.F.	Feed and Fodder management in Dairy animals	Animal Husbandry	Feed and Fodder Management	1	ON	0	0	0	30	16	46	30	16	46
24/2/14	P.F.	Feed and Fodder management in Dairy animals	Animal Husbandry	Feed and Fodder Management	1	ON	0	0	0	20	35	55	20	35	55
16/4/13	P.F.	Care and Management of Dairy Animals	Animal Husbandry	Disease Management	1	OFF	0	0	0	19	31	50	19	31	50
4/5/13	W.F.	Management of Dairy Animals in summer	Animal Husbandry	Dairy Management	1	OFF	0	0	0	20	18	38	20	18	38
10/5/13	P.F.	Care and Management of Dairy Animals	Animal Husbandry	Disease Management	1	OFF	24	5	29	0	0	0	24	5	29
7/5/13	P.F.	Feed and Fodder management in Dairy animals	Animal Husbandry	Feed and Fodder Management	1	OFF	0	0	0	18	4	22	18	4	22
11/6/13	P.F.	Management of Pregnant dairy animals	Animal Husbandry	Dairy management	1	OFF	0	0	0	15	1	16	15	1	16

30/7/13	P.F.	Care and Management of Pregnant and dry animals	Animal Husbandry	Disease Management	1	OFF	0	0	0	19	0	19	19	0	19
13/8/13	P.F.	Care and Management of Pregnant and dry animals	Animal Husbandry	Disease Management	1	OFF	0	0	0	22	0	22	22	0	22
3/9/13	P. F.	Management of calf rearing	Animal Husbandry	Production of quality animals	1	OFF	0	0	0	88	11	99	88	11	99
3/9/13	P. F.	Management of calf rearing	Animal Husbandry	Production of quality animals	1	OFF	0	0	0	18	17	35	18	17	35
12/1/14	P.F.	De worming and vaccination	Animal Husbandry	Disease Management	1	OFF	17	0	17	0	0	0	17	0	17
13/1/14	P.F.	Clean milk production	Animal Husbandry	Dairy Management	1	OFF	0	0	0	14	6	20	14	6	20
20-21/1/14	P.F.	Dairy Management for entrepreneurship	Animals Husbandry	Dairy Management	2	OFF	0	0	0	31	15	46	31	15	46
Horticulture															
26/6/13	P.F.	Nursery raising of Vegetables	Horticulture	Nursery Raising	1	ON	0	0	0	30	27	57	30	27	57
18/10/13	P.F.	INM in Vegetables	Horticulture	Production of low volume and high value crops	1	ON	40	0	40	0	0	0	40	0	40
26/11/13	P.F.	Ginger Cultivation in green house	Horticulture	Protected Cultivation	1	ON	0	0	0	30	0	30	30	0	30
6/5/13	P.F.	Scientific Cultivation of Papaya	Horticulture	Production of low volume and high value crops	1	OFF	16	0	16	0	0	0	16	0	16
16/5/13	P.F.	Protected Cultivation	Horticulture	“	1	OFF	0	0	0	0	15	15	0	15	15
4/7/13	P.F.	Cultivation of Creeper Vegetable	Horticulture	Production of low volume and high value crops	1	OFF	0	0	0	40	0	40	40	0	40
6/7/13	P.F.	Cultivation of Creeper Vegetable	Horticulture	Production of low volume and high value crops	1	OFF	0	0	0	27	0	27	27	0	27
27/7/13	P.F.	Nursery raising of Vegetables	Horticulture	Nursery Raising	1	OFF	0	0	0	40	0	40	40	0	40

16/8/13	P.F.	Nursery raising of Vegetables	Horticulture	Nursery Raising	1	OFF	0	0	0	33	24	57	33	24	57
19/9/13	P.F.	Scientific cultivation of parval	Horticulture	Production of low volume and high value crops	1	OFF	0	0	0	98	0	98	98	0	98
8/10/13	P.F.	Scientific Cultivation of Brinjal and Okra	Horticulture	Production of low volume and high value crops	1	OFF	35	1	36	0	0	0	35	1	36
10/10/13	P.F.	Nursery raising of Vegetables	Horticulture	Nursery Raising	1	OFF	43	0	43	0	0	0	43	0	43
11/10/13	P.F.	Scientific Cultivation of Brinjal and Okra	Horticulture	Production of low volume and high value crops	1	OFF	0	0	0	40	0	40	40	0	40
15/10/13	P.F.	Nursery raising in port trays	Horticulture	Nursery Raising	1	OFF	0	0	0	21	23	44	21	23	44
9/12/13	WF	Value addition in fruits and vegetables	Horticulture	Value addition	1	OFF	0	0	0	9	36	45	9	36	45
10/12/13	WF	Value addition in fruits and vegetables	Horticulture	Value addition	1	OFF	0	30	30	0	0	0	0	30	30
30/12/13	WF	Value addition in fruits and vegetables	Horticulture	Value addition	1	OFF	2	47	49	0	0	0	2	47	49
4/1/14	WF	Kitchen Gardening	Horticulture	Mal nutrition	1	OFF	0	0	0	0	20	20	0	20	20
29/1/14 3/2/14	WF	Value addition in flowers	Horticulture	Value addition	5	OFF	0	28	28	0	0	0	0	28	28
31/1/14	WF	Value addition in fruits	Horticulture	Value addition	1	OFF	0	0	0	0	39	39	0	39	39
3/3/14	WF	Value addition in plash flowers	Horticulture	Value addition	1	OFF	0	0	0	0	23	23	0	23	23
11/3/14	WF	Value addition in plash flowers	Horticulture	Value addition	1	OFF	0	0	0	0	17	17	0	17	17
Home Science															
4-6/6/13	W.F.	Importance of balance diet (S)	Home Science	Malnutrition	3	ON	0	15	15	0	0	0	0	15	15
12/9/13	W.F.	Value addition in papaya	Home Science	Value Addition	1	ON	0	0	0	4	11	15	4	11	15
15/4/13	W.F.	SHG formation and Importance	Home Science	Formation of SHG	1	OFF	0	21	21	0	0	0	0	21	21

3/5/13	W.F.	Awareness about malnutrition in children	Home Science	Malnutrition	1	OFF	0	0	0	4	22	26	4	22	26
8/5/13	W.F.	Importance of vegetables in balance diet	Home Science	Malnutrition	1	OFF	0	30	30	0	0	0	0	30	30
18/6/13	W.F.	Use of improve sickles	Home Science	Drudgery Reduction	1	OFF	0	0	0	19	24	43	19	24	43
18/6/13	W.F.	Use of improve sickles	Home Science	Drudgery Reduction	1	OFF	0	0	0	12	8	20	12	8	20
10/7/13	W.F.	Use of improve sickles	Home Science	Drudgery Reduction	1	OFF	0	0	0	0	15	15	0	15	15
16/7/13	W.F.	Value addition in Soybean	Home Science	Value Addition	1	OFF	0	0	0	0	18	18	0	18	18
16/8/13	W.F.	Value addition in Wheat flour	Home Science	Value Addition	1	OFF	0	0	0	0	13	13	0	13	13
20/9/13	W.F.	Value addition in locally available food materials	Home Science	Value Addition	1	OFF	0	0	0	0	16	16	0	16	16
16/10/13	W.F.	Value addition in corn flour	Home Science	Value Addition	1	OFF	0	0	0	0	15	15	0	15	15
23/11/13	W.F.	Value addition in papaya	Home Science	Value Addition	1	OFF	0	0	0	20	40	60	20	40	60
25/1/14	W.F.	Preparation of Various Spice and Condiment items	Home Science	Value Addition	1	OFF	0	0	0	0	15	15	0	15	15
13/2/14	W.F.	Preparation of Choc lets	Home Science	Value Addition	1	OFF	0	0	0	0	20	20	0	20	20
28/2/14	W.F.	Balance diet for pregnant women and children	Home Science	Malnutrition	1	OFF	0	0	0	0	33	33	0	33	33
20-24/1/14	W.F.	Preservation of fruits and vegetables	Home Science	Value addition	5	OFF	0	32	32	0	0	0	0	32	32
Extension Education															
18/4/13	EF	Agricultural need assessment	Extension Education	Capacity Building	1	ON	0	0	0	15	36	51	15	36	51
17/7/13	EF	Orientation programme	Extension Education	Capacity Building	1	ON	0	0	0	16	9	25	16	9	25

11-12/10/13	W,F,	Income generation options for lively hood security	Extension Education	Income Generation	2	ON	0	0	0	4	13	17	4	13	17
18-19/10/13	W,F,	Income generation options for lively hood security	Extension Education	Income Generation	2	ON	0	0	0	4	22	26	4	22	26
2/4/13	P.F.	Use of ICT in Agricultural (S)	Extension Education	Information and communication technology	1	OFF	0	0	0	19	0	19	19	0	19
16/4/13	P.F.	Value addition through seed production	Extension Education	Value addition	1	OFF	0	0	0	14	0	14	14	0	14
22/4/13	P.F.	Marketing Strategy for Agricultural Produce	Extension Education	Marketing	1	OFF	0	0	0	34	14	48	34	14	48
16/5/13	P.F	Banking Procedure with special difference to KCC	Extension Education	Credit availability	1	OFF	0	0	0	23	25	48	23	25	48
31/5/13	P.F	Banking Procedure with special difference to KCC	Extension Education	Credit availability	1	OFF	0	0	0	44	7	51	44	7	51
11/6/13	SHG,	Value addition through seed production	Extension Education	Income Generation	1	OFF	0	0	0	0	27	27	0	27	27
29/6/13	SHG,	Income generation options for lively hood security	Extension Education	Income Generation	1	OFF	0	0	0	0	31	31	0	31	31
6/9/13	P.F	Marketing Strategy for Agricultural Produce	Extension Education	Marketing	1	OFF	0	0	0	16	17	33	16	17	33
20/9/13	P.F	Marketing Strategy for Agricultural Produce	Extension Education	Marketing	1	OFF	0	0	0	17	5	22	17	5	22
29/1/14	P.F	Marketing Strategy for Agricultural Produce	Extension Education	Marketing	1	OFF	0	0	0	8	16	24	8	16	24
26/3/14	R.Y.	Role of rural youth in rural development	Extension Education	Capacity Building	1	OFF	0	0	0	67	6	73	67	6	73

Annexure III

Proceeding of Second Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat held on 10/02/2014 at 10:00 a.m., KVK, Surat

The Second Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat was held at KVK, Surat on 10th February, 2014 to review the progress made by KVK during last year (1-4-2013 to 31-01-2014) and discuss the future action plan for the next year (April-2014 to March-2015). The meeting was inaugurated by Dr. A. R. Pathak, Honorable Vice Chancellor, NAU, Navsari and Chairman of Scientific Advisory Committee, KVK, Surat. Dr. J. J. Pastagia, Member Secretary & Programme Coordinator, Krishi Vigyan Kendra, Surat welcomed the dignitaries, committee members, farmers and other invitees. He also presented the activities and achievements harnessed by the KVK during the last year. The achievements made by the KVK was appreciated by the house and congratulated the Programme Coordinator and his team for addressing the key issues within a short span of time with limited resources as per the needs of the farmers of Surat district. The Action Plan for the next year was also presented before the house with due emphasis on mandatory activities with special reference to focus on tribals.

Shri Anil Vsava Deputy Conservator of Forest, Forest Division, district Surat appreciated the technological backup provided by the KVK in the forest villages. Besides, he also requested to use the Visdalia cluster facilities for the development of tribals.

Dr. H. J. Derashri, Director of Extension Education, NAU, Navsari admired that even though this KVK is new one, the performance is overwhelming. He also emphasized that the Farmer to Farmer led Extension approach should be followed to accelerate the adoption level of improved technologies.

Dr. A. N. Sabalpara, Director of Research and Dean P.G. studies, NAU, Navsari emphasized to identify the problems in adoption of new technologies in the form of feed back, which will be helpful to strengthen the research programme as per the farmers' needs.

Hon. Vice Chancellor and Chairman of SAC, Dr. A. R. Pathak appreciated the tune of work made by the KVK team under the leadership of Dr J.J.Pastagia, Programme Coordinator KVK surat. He gave very positive remarks on cluster based approach and the convergence made by the KVK especially with the forest department. He emphasized that it is the high time to disseminate the use of bio-fertilizers as well as bio pesticides for maintaining the environmental safety and fertility status of the soil.

2.1 Approval of the minutes of First Scientific Advisory Committee

The action taken report of the minutes of First SAC meeting (Held on 10-4-2013) was presented before the house and it was approved by the Scientific Advisory Committee.

2.2 Progress made by KVK during April 2013 to January 2014

Programme Coordinator, KVK, NAU, Surat presented the report on progress made by KVK, for the period of April-2013 to Jan-2014. The committee was satisfied with the activities and achievements made by the KVK.

2.3 Action plan for the period of April-2014 to March-2015.

Discussion was made on the Action Plan for the period of April-2014 to March-2015 which was approved by the house. However, few suggestions were made by the house to strengthen the action plan.

2.3.1 Demonstrations: Following demonstrations were suggested :

A. Front Line Demonstrations:

- 1) CSV 21 F for fodder purpose.
- 2) Castor in Mangrol block
- 3) Sugarcane: 1. Variety (GNS-8) 2. Use of Bio-agents/Bio-pesticides.
- 4.) Use of Bio-pesticides/ Bio fertilizers in Pigeonpea.
- 5.) Spices crop in Umarpada block

B. Method Demonstrations:

- 1) Dapog method of nursery raising in paddy to motivate the farmers for the use of paddy transplanter.
- 2) Field multiplication of Bio-agents/Bio-pesticides.

2.3.2 Organize more number of programmes to promote organic farming in close collaboration with SURUCHI Bardoli, Forest department and other concern line department.

2.3.3 Emphasize to create awareness about Bamboo products, plantation, and use of bio-gas plant to support forest areas.

2.3.4 Popularizing use of bio-fertilizers in tribal areas. In this connection KVK may help to start an outlet center at Visdalia cluster operated by forest department.

2.3.5 More programme should be organized to popularize the importance of terrace and kitchen gardening for enrichment of nutritional status in urban, rural and tribal areas.

The meeting was ended with Vote of thanks by Dr. P. D. Verma Subject Matter Specialist (Extension Education), KVK, NAU, Surat.

Programme Coordinator
Krishi Vigyan Kendra
Athwa Farm, Surat

Vice – Chancellor and Chairman SAC
Navsari Agril. University,
Navsari

Following members and invitees were remain present in Second Scientific Advisory Committee meeting

1	Dr.A.R.Pathak	Hon. Vice Chancellor, NAU, Navsari	Chairperson
2	Dr.A.N.Sabalpara	Director of Research & dean P.G.studies, NAU, Navsari	Member
3	Dr.H.J.Derasari	Director of Extension, NAU, Navsari	Member
4	Dr.Nikam Vinayak	Representative, CSSRI (ICAR), RRS, Bharuch	Member
5	Dr.C.K.Patel	Representative (Crop Science), Main research Station NAU, Surat	Member
6	Dr.R.M.Patel	Professor (Horticulture), GABI, NAU, Surat,	Member
7	Shri N.K.Gabani	Project Director ATMA, Bardoli, Surat	Member
8	Shri N.G.Gamit	District Agricultural officer – State Dept. of Agriculture, Surat	Member
9	Shri B.R.Patel	Deputy Dir. of Horticulture, State Dept. of Agriculture, Surat	Member
10	Shri N.M.Barot	Representative (WALMI) – Irrigation Dept. , Surat	Member
11	Dr.N.B.Patel	Representative – State Dept. of Animal Husbandry, Surat	Member
12	Shri Ramsingbhai Chaudhri	Progressive farmer , Village: Moritha, Taluka: Mandvi ,	Member
13	Lataben D. Patel	Progressive woman farmer, Village: Mandroi, Taluka: Olpad,	Member
14	Ramchandrabhai Patel	Agri-entrepreneur, Village: Bhatgam, Surat,	Member
15	Sharmilaben . Chaudhri	chairperson of women self help group(agriculture), Village: Gamtalav, Taluka: Mandvi	Member
16	Shri Anil Vasava	Deputy Conservator of Forest, Forest Dept., Surat	Member
17	Shri P.N.Rathod	Representative Project Director, DWDU, Surat	Member
18	Dr.J.J.Pastagia	Programme Coordinator, KVK, Surat	Member Secretary
19	Dr.B.G.Solanki	Research Scientist Sorghum, Main Research station Sorghum, Surat	Special Invitee
20	Dr.K.B.Sankat	Representative Research Scientist Cotton, Main Research station cotton, Surat	Special Invitee
21	Shri Ramkumar Sing	Director and Managing trustee, Suruchi Centre, Bardoli	Special Invitee
22	Shri Chhaganbhai Patel	Project Director, Ambuja Foundation, Surat	Special Invitee
23		All SMS, KVK, Surat	
List of absent members:			
1	Zonal Project Director or one of the scientist from ZPD, CAZARI, Jodhpur		Member
2	Representative of NABARD, Surat		Member
3	District officer of the line department – Fisheries, Surat		Member

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