

ANNUAL PROGRESS REPORT – 2014-15

(01.04.2014 TO 31.03.2015)

KVK, ATHWA FARM, SURAT (GUJART)

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 2015)

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	Vacant	SMS	Horticulture	15600-39100 G.P. – 6000				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. Sehul Chavda	SMS	Plant Pathology	15600-39100 G.P. – 6000	21600	2.04.2013	Temporary	OBC
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):

S. 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**

S. 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 godown	--	--	--	--	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Tata)	2012	599999	112881	Working
Tractor	2012	549900	975.35	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	22/3/2012	22500/-	Working
2.	Plough	1	22/3/2012	22500/-	Working

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

(3rd SAC was conducted on 19-02-2015)

SR. No.	Name and Designation of Participants			Silent Recommendations	Action Taken
1.	Dr.C.J.Dangaria	Hon. Vice Chancellor, NAU, Navsari	Chairman	<p>Demonstrations: Following demonstrations were suggested :</p> <p>A. Front Line Demonstrations: 1) Castor in Mangrol block 2) Salinity tolerant technologies in coastal area</p> <p>B. Method Demonstrations: 1) DAPOG method of nursery raising in paddy to motivate the farmers for the use of paddy transplanter.</p> <p>Trainings/field days : A) Fish rearing training with fisheries department B) Number of Field day must be increased</p> <p>Awareness programmes on: A) Promotion of vegetable cultivation in tribal area B) Kitchen Gardening in tribal area to</p>	All Suggestions have been incorporated for the year 15-16
2	Dr.G.R.Patel	Director of Extension, NAU, Navsari	Member		
3	Dr. Anil Chinchmalanpure	Head, CSSRI (ICAR), RRS, Bharuch	Member		
4	Dr. J. D. Thanki	Professor and Head, Department of Agronomy, NMCA, NAU, Navsari	Member		
5	Dr. R. L Leva	Representative Professor (Horticulture), GABI,NAU, Surat,	Member		
6	Shri N. K. Gabani	Project Director ATMA, and Deputy Director (Agriculture) Surat	Member		
7	Shri N. G Gamit	District officer of the line department – Agricultural, Surat	Member		
8	Shri B. R. Patel	District officer of the line department – Horticulture, Surat	Member		
9	Shri S .N. Shah	District officer of the line department – Irrigation Dept.(WALMI), Surat	Member		
10	Dr. P S. Jagirwala	District officer of the line department – Animal Husbandry, Surat	Member		
11	Shri Ramsingbhai Chaudhri	Progressive farmer, Village: Moritha, Taluka: Mandvi ,	Member		
12	Lataben D. Patel	Progressive woman farmer, Village: Mandroi, Taluka: Olpad,	Member		
13	Ramchandrabhai Patel	Agri-entrepreneur, Village: Bhatgam, Surat,	Member		
14	Sharmilaben Chaudhri	Chairperson of women SHG	Member		

		Village: Gamtalav, Taluka: Mandvi		combat malnutrition.	
15	Shri Anil Vasava	Deputy Conservator of Forest, Forest Division, Surat	Member	Convergence with : A) MRS Faculty of Veer Narmad South Gujarat University with respect to advances in agriculture B) NABARD for the formation of Farmers club C) Irrigation Cooperatives of Mandavi to increase water use efficiency.	
16	Shri Vilas P. Save	DDM, NABARD, Surat	Member		
17	Smt. B. R. Patel	ASF, Fisheries Department, Surat	Member		
18	Dr. T. K. S Rao	Representative Professor (LPM) Vanbandhu Veterinary College, NAU, Navsari	Member		
19	Smt. Prajakta P. Rathod	Representative, Project Director, DWDU, Surat	Member		
20	Dr. J. J. Pastagia	Programme Coordinator, KVK, Surat	Member Secretary		
21	Dr. K. A. Patel	Research Scientist (Sorghum), Main Research Station Sorghum, Surat	Special Invitee		
22	Dr. B. G. Solanki	Research Scientist (Cotton), Main Research Station Cotton, Surat	Special Invitee		
23	Shri Ramkumar Singh	Director and Managing Trustee, Suruchi Sikshan Vasahat, Bardoli	Special Invitee		
24	Shri Chhaganbhai Patel	Project Director, Ambuja Foundation, Surat	Special Invitee		
25	Dr. Vipul Somani	Professor and Head, MRS Department, Veer Narmad South Gujarat University, Surat	Special Invitee		
26		All SMS, KVK, Surat			
List of absent members:					
1	Zonal Project Director or one of the scientist from ZPD, CAZARI, Jodhpur		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-1) 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-2) 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-3) 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-4) 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 CROPS AND CROPPING SYSTEMS IN THE DISTRICT Surat (Block wise)

Blocks	Kharif		Rabi		Summer		Cropping system
	Crop		Crop		Crop		
Olpad:							
1	Paddy		Wheat		Paddy		Paddy - Sugarcane
2	Sorghum		Sorghum		Fodder		Paddy - Wheat
3	Green gram		Sugarcane		Green gram	-	Fodder - Vegetables
4	Pigeon pea		Gram		-	-	Jowar - Gram
5	Fodder		Vegetables		-	-	Paddy - fallow- Paddy
6	Horticulture crops		-		-	-	Cotton - Fallow
7	Cotton		-	-	-	-	-
Mangrol							
1	Paddy		Wheat		Paddy		Sorghum mixed pulses
2	Sorghum		Sorghum		G'nut		Paddy - Wheat
3	Green gram		Sugarcane		Fodder		Cotton - Cotton - Fallow
4	Pigeon pea		Gram		Green Gram	-	Paddy - Sugarcane
5	Fodder		Vegetables		-	-	Sorghum - Pigeonpea
6	Horticulture crops		Maize		-	-	Paddy - G'nut
7	Cotton		-		-	-	-
Umarpada							
1	Paddy drill		Wheat		Paddy		Sorghum - Pigeonpea
2	Sorghum		Sorghum		Oil seed		Paddy - Fallow
3	Green gram		Sugarcane		Fodder		Sorghum - mixed pulses
4	Pigeon pea		Gram		Green Gram	-	G'nut - Wheat
5	Maize		-		-	-	Maize - Vegetables
6	Cotton		-		-	-	Maize - Vegetables
7	Horticulture crops		-	-	-	-	Cotton - Fallow
8	Vegetables		-	-	-	-	-
Mahuva							
1	Paddy		Wheat		Paddy		Paddy - Sugarcane
2	Sorghum		Sugarcane		Oil seed		Green manure - Sugarcane
3	Green gram		Gram		Fodder		Paddy - Wheat
4	Pigeon pea		Vegetables		-	-	Sorghum - Pigeonpea
5	Fodder		-	-	-	-	-

6	Horticulture crops	-	-	-	Vegetables - Paddy Paddy - Fallow - G'nut
Mandvi					
1	Paddy	Wheat	Paddy		Paddy - Sugarcane Paddy - Pulses Sorghum - Pigeonpea Vegetables - Fallow Cotton - Fallow Fodder - Vegetables
2	Sorghum	Sugarcane	Oil seed		
3	Green gram	Gram	G Nut	-	
4	Pigeon pea	-	-	-	
5	Fodder	-	-	-	
6	Cotton	-	-	-	
7	Horticulture crops	-	-	-	
8	Vegetables	-	-	-	
Kamrej					
1	Paddy	Wheat	Vegeta bles		Paddy - Sugarcane Gram - Wheat Fodder - Vegetables Sorghum – Pigeon pea
2	Sorghum	Sugarcane	Groun Nut	-	
3	Green gram	Gram	-	-	
4	Cotton	Maize	-	-	
5	Fodder	-	-	-	
6	Oil seed	-	-	-	
7	Horticulture crops	-	-	-	
Choryasi					
1	Paddy	Wheat	Fodder		Paddy - Sugarcane Sorghum - Pigeonpea Paddy - Wheat Fodder - Vegetables
2	Sorghum	Sorghum	Oil seed		
3	Pigeon pea	Sugarcane	-	-	
4	Fodder	Vegetables	-	-	
5	Cotton	-	-	-	
6	Horticulture crops	-	-	-	
Palasana					
1	Paddy	Wheat	Oil seed		Paddy - Sugarcane Paddy - Wheat Sorghum – Pigeon pea Paddy - Oilseed
2	Sorghum	Sugarcane	-	-	
3	Pigeon pea	Gram	-	-	
4	Fodder	Vegetables	-	-	
5	Horticulture crops	-	-	-	
Bardoli					
1	Paddy	Wheat	Paddy		Paddy -Sugarcane Paddy - Wheat Gram - Vegetables Green manure - Sugarcane
2	Sorghum	Sugarcane	Fodder		
3	Green gram	Gram	-	-	
4	Pigeon pea	Vegetables	-	-	
5	Fodder	-	-	-	
6	Horticulture crops	-	-	-	

2.4.1 Soil types:

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-1) Mandvi (30%), Mangrol (40%), Umarpada	Hilly and highly undulating fine texture, highly erosive
(AES-2) Bardoli, Choryasi (75%), Kamrej, Palasana,,Surat and Mahuva	Leveled, deep, fine textured
(AES-3) Mandvi (70%), Mangrol (60%), Olpad(70%)	Deep to medium black
(AES-4) 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

Sr. No.	Crop	Area (ha.)	Productivity Q/ha.	Production MT
1	Paddy Irrigated	40000	3650	146000
2	Paddy rainfed	15000	2100	31500
3	Kh. Sorghum	10500	1600	16800
4	Kh. Maize	1000	2000	2000
5	Pigeon pea	15000	1200	18000
6	Green gram	3000	850	2550
7	Urid	1000	250	250
8	Other pulses	500	600	300
9	Ground nut	2200	1800	3960
10	Sesame	300	500	150
11	Castor	500	1900	950
12	Cotton	3000	2300	6900
13	Soybean	15000	1100	16500
14	Vegetables	18000	0	0
15	Fodder	3500	0	0
16	Green manuring	15000	0	0
	Total	143500	--	245860

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

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Mango	7365	58920	8.00
Sapota	2044	18396	9.00
Lemon	62	589	9.50
Banana	10889	696896	64.00
Papaya	240	14400	60.00
Custard Apple	24	144	6
Aonla	10	70	7.00
Coconut	147	1147	7.80
Others	152	684	4.50
Total	20933	791246	37.80

2.5.3 Area and Production of Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity(MT)
Brinjal	4928	100038	20.30
Okra	5390	59290	11.00
Tomato	1023	16112	15.75
Cow Pea	1235	8645	7.00
Cluster Bean	535	3745	7.00
Cauliflower	818	14601	17.85
Cabbage	310	6386	20.6
Onion	43	1290	30.00
Cucurbits	3015	30150	10.00
Others	2248	22255.2	9.9
Total	19545	262512.2	13.43

2.5.4 Area and Production of Flower Crops in the district

Crop	Area(Ha.)	Production (MT)	Productivity(MT)
Rose	348	3306	9.5
Marigold	260	2860	11.00
Lily	50	150	3.00
Gerbera	43	756 lacs	18.00 lacs
Other	164	1181	7.20
Total	847	7834	9.25

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

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Dry Chilli	706	854.26	1.21
Green Chilli	845	8872.5	10.5
Ginger	378	6142.5	16.25
Turmeric	255	4335	17.00
Fenugreek	78	105.3	1.35
Coriander	70	490	7.00
Others	26	24.7	0.95
Total:-	2358	20824.26	8.83

2.5.6 Protected Cultivation in Surat District

Crop	Area (Acre.)	Production	Productivity Per Acre
Gerbera	105	756 Lacs Flowers	7.2 Lacs Flowers
Dutch Rose	34	229.5 Lacs Flowers	6.75 Lacs Flowers
Colour Capsicum	15	25200 quintal	1120 quintal

2.5.7 Livestock and poultry population in the Surat district

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

Source: DAO, Surat

2.6 Details of Operational area / Villages

S N	Name of Cluster	No. and Name of villages in the Cluster	Identified Thrust areas	Identified Problems	Specific activities
1	Mahuva	1. Tarkanai 2. Lasanpore 3. Wagaldhara 4. Kosh	1. Increase productivity of major crops e.g. Paddy, 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. 5. Popularize eco-friendly crop production with special reference to IPDM & INM.	1. The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation 2. 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 knowhow about mango orchards plantation and management. 3. High use of water in canal command area and water scarcity in hilly area -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 new variety of rice and sugarcane. Demonstration on intercropping in sugarcane Training programmers on package of practices of these vegetable crops. And precision farming. 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 and demonstrations on INM and IPDM in different crops

			<p>6. Increasing milk production by dissemination of latest technologies.</p> <p>7 .Imparting skill oriented training to the tribal women for sustaining their livelihood.</p> <p>8. Promotion of small scale farm mechanization in tribal area.</p>	<p>-High incidence of wilt and parval vine borer in pointed gourd.</p> <p>Low milk productivity</p> <p>-High calf mortality</p> <p>-Problem of anoestrus</p> <p>-Lack of awareness about Feeds and fodder management</p> <p>Lack of knowleged of small scale agricultural base enterprises, value addition etc.</p> <p>Drudgery reduction through improved hand tools.</p>	<p>Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management</p> <p>Training on value addition and income generating activity</p> <p>Demonstrations on use of improved sickles and other hand tools.</p>
2	Mandvi	<p>1. Gamtalav</p> <p>2. Salaiya</p> <p>3. Moritha</p>	<p>1. Increase productivity of major crops e.g. Paddy, sugarcane, Soybean</p> <p>2. Dissemination of production technology of fruits and vegetables and their post harvest</p>	<p>1.The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation</p> <p>2. Brinjal and okra are important crops but the productivity is very low, problem of insect pests and disease</p> <p>No technical know how regarding green house net house technology and crops</p>	<p>Training and demonstrations on new variety of rice and sugarcane. Demonstration on intercropping in sugarcane</p> <p>Awareness programmes on protected cultivation on low cost net house and green house.</p>

		<p>management as well promotion of precision farming.</p> <p>3.Management of natural resource, including salinity management</p> <p>4. 5. Popularize eco-friendly crop production with special reference to IPDM & INM.</p> <p>6. Increasing milk production by dissemination of latest technologies.</p> <p>7 .Imparting skill oriented training to the tribal women for sustaining their livelihood.</p> <p>8. Promotion of small</p>	<p>Lack of technical know - how about mango orchards plantation and management.</p> <p>3.High use of water in canal command area and water scarcity in hilly area</p> <p>-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</p> <p>Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management</p> <p>Lack of knowleged of small scale agricultural base enterprises, value addition etc.</p> <p>Drudgery reduction through improved</p>	<p>Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes</p> <p>Training and demonstrations on INM and IPDM in different crops</p> <p>Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management</p> <p>Training on value addition and income generating activity</p> <p>Demonstrations on use of improved sickles and other hand tools.</p>
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			scale farm mechanization in tribal area.	hand tools.	
3	Umarpada	1. Kolvan 2. Moti- devrupen 3. Umarda	1. Increase productivity of major crops e.g. Paddy, cotton, sorghum, pigeon pea 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. 5. Popularize eco- friendly crop production with special reference to IPDM & INM.	1. The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation 2. 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. 3. Water scarcity in rabi / summer due hilly area -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 new variety of Paddy, cotton, sorghum, pigeon pea, increasing seed replacement ratio Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on Low cost net house. Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Promotion of water conservation technologies Training and demonstrations on INM and IPDM in different crops

			<p>6. Increasing milk production by dissemination of latest technologies.</p> <p>7 .Imparting skill oriented training to the tribal women for sustaining their livelihood.</p> <p>8. Promotion of small scale farm mechanization in tribal area.</p>	<p>Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management Large no of non descript animals</p> <p>Lack of knowledge of small scale agricultural base enterprises, value addition etc.</p> <p>Drudgery reduction through improved hand tools.</p>	<p>Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management</p> <p>Training on value addition and income generating activity</p> <p>Demonstrations on use of improved sickles and other hand tools.</p>
4	Mangrol	<p>1. Kantvav 2. Pataldevi 3. Mandan</p>	<p>1. Increase productivity of major crops e.g. Paddy, cotton, sorghum</p> <p>2.Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision</p>	<p>1.The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation</p> <p>2. Okra, brinjal and creepers are crops but the productivity is very low, problem of insect pests and disease</p> <p>No technical knowhow regarding net house technology and crops</p> <p>Lack of technical knowhow about</p>	<p>Training and demonstrations on new variety of rice, pigeon pea, sorghum and cotton. Increase seed replacement ratio of these crops.</p> <p>Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on low cost net house.</p> <p>Promotion of farm forestry through training and demonstrations</p>

			<p>farming.</p> <p>3. Management of natural resource, including salinity management</p> <p>4. 5. Popularize eco-friendly crop production with special reference to IPDM & INM.</p> <p>6. Increasing milk production by dissemination of latest technologies.</p> <p>7. Imparting skill oriented training to the tribal women for sustaining their livelihood.</p> <p>8. Promotion of small scale farm mechanization in tribal area.</p>	<p>plantation and management.</p> <p>3. Water scarcity in hilly area and rain fed farming</p> <p>-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</p> <p>-High incidence of wilt and parval vine borer in pointed gourd.</p> <p>Low milk productivity</p> <p>-High calf mortality</p> <p>-Problem of anoestrus</p> <p>-Lack of awareness about Feeds and fodder management</p> <p>Lack of knowledge of small scale agricultural base enterprises, value addition etc.</p> <p>Drudgery reduction through improved hand tools.</p>	<p>Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes</p> <p>Popularizing water conservation technologies for rain fed farming</p> <p>Training and demonstrations on INM and IPDM in different crops</p> <p>Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management</p> <p>Training on value addition and income generating activity</p> <p>Demonstrations on use of improved sickles and other hand tools.</p>
5	Olpad	<p>1. Mandroi</p> <p>2. Asnad</p>	<p>1. Increase productivity</p>	<p>1. The productivity of crop is very low due to lack of technical knowhow regarding</p>	<p>Training and demonstrations on new variety of rice and sugarcane.</p>

		<p>3. Karanj-nesh</p>	<p>of major crops e.g. Paddy, sugarcane</p> <p>2. Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.</p> <p>3. Management of natural resource, including salinity management</p> <p>4. 5. Popularize eco-friendly crop production with special reference to IPDM & INM.</p> <p>6. Increasing milk production by dissemination of latest technologies.</p>	<p>its scientific cultivation</p> <p>2. Okra and creepers are important crops but the productivity is very low, problem of insect pests and disease</p> <p>No technical knowhow regarding green house net house technology and crops</p> <p>Lack of technical knowhow about fruit crops cultivation.</p> <p>3. High use of water in canal command area and salinity problem in coastal area</p> <p>-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.</p> <p>Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management</p>	<p>Demonstration on intercropping in sugarcane</p> <p>Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on net house and green house.</p> <p>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</p> <p>Training and demonstrations on INM and IPDM in different crops</p> <p>Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management</p>
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			7 .Imparting skill oriented training to the tribal women for sustaining their livelihood.	Lack of knowleged of small scale agricultural base enterprises, value addition etc.	Training on value addition and income generating activity
6	Kamrej	1. Dhoranpardi 2. Choryasi	1. Increase productivity of major crops e.g. 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. 5. Popularize eco-friendly crop production with special reference to	1.The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation 2. Banana is an important crop but the problem of insect pests and disease No technical knowhow regarding green house net house technology and crops 3.High use of water in canal command area problem of water logging -Lack of knowledge about Insect pests and diseases and their management and nutrient management in banana	Training and demonstrations on new variety of sugarcane. Demonstration on intercropping in sugarcane Training programmers on package of practices of banana cultivation Demonstration on quality improvement in banana. . 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 Training and demonstrations on INM and IPDM in different crops

			IPDM & INM.		
7	Bardoli	1. Ruva	<p>1. Increase productivity of major crops e.g. Paddy, sugarcane</p> <p>2. Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.</p> <p>3. Management of natural resource, including salinity management</p> <p>4. Popularize eco-friendly crop production with special reference to IPDM & INM.</p>	<p>1. The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation</p> <p>2. Okra, brinjal and creepers are important crops but the productivity is very low, problem of insect pests and disease</p> <p>No technical knowhow regarding green house net house technology and crops</p> <p>3. High use of water in canal command area and problem of water logging</p> <p>-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</p> <p>-High incidence of wilt and parval vine borer in pointed gourd.</p>	<p>Training and demonstrations on new variety of rice and sugarcane. Demonstration on intercropping in sugarcane</p> <p>Training programmers on package of practices of these vegetable crops and precision farming. Awareness programmes on protected cultivation on net house and green house.</p> <p>Promotion of drip irrigation through awareness programmes</p> <p>Demonstrations on drainage technology</p> <p>Training and demonstrations on INM and IPDM in different crops</p>

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	Eco-practice and to 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, 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. Popularizing of location specific farming system
5. Popularize eco-friendly crop production with special reference to IPDM & INM.
6. Increasing milk production by dissemination of latest technologies.
7. Imparting skill oriented training to the tribal women for sustaining their livelihood.
8. 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	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
10	10	30	30	122	122	564	564

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	81	107	2025	3824	88	502	8800	54481
Rural youth	2	2	50	50				
Extn. Functionaries	3	3	75	82				
Total	87	87	2150	3956				

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
4.43	4.43	00	00

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	--	Varietal demonstrations Nutrient management Use of bio-fertilizers Demonstration on SIRA technology.	Scientific Cultivation of major crops	-----	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	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 No	--	INM in brinjal	Value addition in Papaya Scientific cultivation of various crops Value addition in Palas and Bixa Scientific	--	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.
	farming		knowledge about post harvest management and processing Low technical know house regarding green house/ net house and production technology			cultivation of crops Training on protected cultivation and precision farming			
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	--	GM technology in cotton IPDM in brinjal	IPM in cotton IPDM in Pigeon pea Management of brinjal diseases	--	Khedut shibirs, News paper coverage, film show Exhibitions etc.	Seed of Cotton and trichoderma

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.
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	--	SIRA technology in Paddy INM in brinjal	INM in Paddy and pigeon pea	--	Field days, khedut shibirs, News paper coverage, film show , etc.	Bio Fertilizers,
6.	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 problems of water logging and salinity In coastal area salinity problem	--	Demonstration on salinity tolerant paddy variety GNR2 in coastal area.	Training on micro irrigation system Training on drainage management in water logged area	--	Field days, khedut shibirs, News paper coverage, film show Exhibitions etc.	--
7.	Increasing milk	Animal husbandry	Poor dairy management	--	Use of mineral mixture	Animal health and care	--	Pashu palan shibirs	Mineral mixture

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.
	production by dissemination of latest technologies.		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		Urea treatment to paddy straw Teat dip treatment with KMNO ₄ Scientific calf rearing	Dairy management Animal diseases and their management Scientific calf rearing		Animal health camps, awareness programmes, Literature publication etc	KMNO ₄ Urea Plastic sheets Medicines etc.
7	Imparting skill oriented training to the tribal women for sustaining their livelihood.	Value addition Small scale agricultural based entrepreneurship development	Lack of knowledge about value addition of locally available materials Lack of knowledge, skills	--	--	Value addition in papaya by preparing jam and other products Preparation of Mari- masala	--	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.
			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			
9	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,	--

3.1 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 :NIL (On going)

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Adolscent girls	TOTAL
TOTAL	--	-	-	-	-	-	-	--	--

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

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

A.2.1 Abstract on the number of technologies assessed in respect of livestock/enterprises :- NIL

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

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

A. Technology Assessment:

3.2.3 On Farm Testing conducted during 2014-15. (On going)

Discipline	Title
Plant protection	Assessment of stem application method of insecticide for the management of sucking pest in Okra
	Assessment of effective methodology for the management of Banana Pseudo-stem weevil
Horticulture	Validation of kitchen garden model suggested by Navsari Agricultural University
	Assessment of enrich banana sap for yield and quality of brinjal
Home science	Evaluation of Low cost high calorie diets made from locally available food materials for Pre-school children.
	Response of adolescent girls to iron rich feed in relation to Hemoglobin level
Crop production	Assessment of aerobic rice in Olpad block of Surat District
	Effect of trimming operation in sugarcane yield
Animal science	Nutritional enrichment in local grass <i>Fatedu</i>
	Use of Chelated minerals in the diet of crossbred HF cows.

Results of On Farm Testing:

Plant Protection:

Assessment of stem application method of insecticide for management of sucking pest in okra

Treatments	Whitefly /3 leaves	Jassids / 3 leaves	Yield q/ha	BCR
1. Stem application of Acephate 75 SP (4:1 Water : Insecticide)	0.63	0.70	156.02	4.46
2. Spraying of recommended insecticides	0.74	0.79	144.82	3.79
3. Control (farmers method)	1.65	2.09	126.39	3.69

Animal Husbandry

Title: Nutritional enrichment in local "grass Fatedu"

T1: Farmers Practice - without treated dry local grass (Batedu / Full grass) ad lib. First 15 days after that 4% UTLG 6-8 kg daily up to 2 months

T2: Farmers Practice - without treated paddy straw ad lib. First 15 days after that 4% UTPS 6-8 kg daily up to 2 months

Nutritional parameters of paddy straw and local dry grass

Parameters	Paddy Straw	UTPS	Local Dry Grass	UTLG
Moisture %	11.1	53.9	7.1	51.9
CP %	3.2	7.1	3.4	8.3
CF %	36.8	34.2	38.7	36.1
EE %	1.1	1.1	1.0	1.2
NFE %	42.5	41.5	43.8	41.9
NDF%	79.6	76.7	73.5	71.8
ADF%	51.5	51.4	48.3	47.1
Ash %	16.4	16.1	13.1	12.5

UTPS: Urea treated paddy straw, UTLG: Urea treated local grass

On Farm Testing Results

Parameters	Paddy straw	UTPS	Local grass	UTLG
Daily milk yield (L)	8.545±3.080	9.485±3.053	8.513±2.398	9.370±2.539
Milk Fat %	3.47±0.30	4.48±0.30	3.6±0.25	4.63±0.14
4% FCM	7.813±2.943	10.17±3.14	8.01±2.226	10.39±2.612
Body wt. (Kg)	292.6±82	297.6±83	293.1±82	295.4±83
Post partum estrus (D)	75.1		72.2	

Crop Production:

Assessment of aerobic rice in Olpad block of Surat District

Crop	Variety	Farming situation	Title	No. of Farmers	Technology Assessed	Yield (Kg/ha)	% increase
Crop Production	GNR - 3	Irrigated	Assessment of aerobic rice in Olpad block of Surat District	5	T ₁ - Farmers method Broadcasting method of sowing	0	-
					T ₂ - Transplanting	5320	22.30
					T ₃ - Aerobic method of rice cultivation	5010	15.17

FLDs of Other Agency							
AICCIP – TSP							
1	Cotton	INM	-	FLDs	7	50	20
NFSM – Commercial crops							
2	Cotton (NFSM)	ICM	-	FLDs	3	25	10
Adaptive Trials							
3	Sugarcane (GNS – 8)	ICM	New variety	FLDs	4	10	4

b. Details of FLDs implemented during 2014-15 (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	
FLDs of KVK										
Cereal crops										
1	Paddy (NAUR – 1)	ICM	New variety	Kharif -14	8	9	29	0	29	--
2	Paddy (GNR – 3)	ICM	New variety	Kharif -14	8	10	25	10	35	--
3	Paddy (GAR –13)	ICM	New variety	Kharif -14	4	4	0	10	10	--
4	Paddy	ICM	SIRA technology	Kharif -14	4	4	10	0	10	--
5	Paddy	IPDM	IPM	Kharif-14	4	4	20	0	20	--
6	Sorghum (GJ – 42)	ICM	New variety	Rabi-13	8	8	20	0	20	--
Pulses										
1	Soybean (JS – 335)	ICM	New variety	Kharif-14	8	9	37	0	37	--
Cash crops										
1	Cotton (G. Cot. Hy. – 6)	ICM	New Bt Hybrid	Kharif-14	4	4	10	0	10	--
2	Cotton (G. Cot. Hy. – 8)	ICM	New Bt Hybrid	Kharif-14	4	4	10	0	10	--
3	Sugarcane (Co – 4)	ICM	Intercrop	Rabi-13	4	4	0	10	10	-
4	Sugarcane	IPM	IPM	Rabi-14	4	4	10	0	10	
5	Sugarcane	IDM	Biofertilizers and Biopesticides	Rabi-14	4	4	10	0	10	

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	
Fodder crops										
1	Sorghum (Fodder)	ICM	New Variety	Rabi – 13	8	8	20	0	20	-
Horticulture crops										
1	Okra	INM	INM	Rabi-14	2	2	10	0	10	
2	Okra	IPDM	IPDM	Rabi-14	2	2	10	0	10	
3	Brinjal	INM	INM	Rabi-14	4	4	20	0	20	
4	Brinjal	IPDM	IPDM	Rabi-14	4	4	20	0	20	
5	Parvar	IPDM and INM	IPDM and INM	Kharif-14	4	4	20	0	20	
6	Parvar	IPM	Salinity tolerant Trichoder ma	Kharif-14	4	4	20	0	20	
7	Parvar	IPM	Carbendazi m tolerant Trichoder ma	Kharif-14	4	4	20	0	20	
8	Banana	INM	INM	Kharif-14	4	4	10	0	10	
9	Banana	IPDM	IPDM	Kharif-14	4	4	10	0	10	
10	Banana	INM	Bunch Treatment	Kharif-14	5	5	10	0	10	
11	Mango	IPM	Fruitfly traps	Rabi-14	5	5	10	0	10	
12	Pigeonpea	IDM	Biofertilize rs and Biopesticid es	Kharif-14	5	5	10	0	10	
FLDs of Other Agency										
AICCIP - TSP										
1	Cotton	INM	-	Kharif-14	20	20	50	0	50	-
NFSM – Commercial crops										
2	Cotton	ICM	-	Kharif-14	10	10	25	0	25	
Adaptive Trials										
3	Sugarcane (GNS – 8)	ICM	New Variety	Rabi-13	8	8	0	20	20	--

Details of farming situation: FLDs of KVK

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-14	Irrigated/Rainfed	Medium Black	L	M	H	Fallow /Rabi vegetables	15 th June to 15 th July, 2014	1 st Nov. to 15 th Dec. 2014	As given below	As given below
Paddy – GNR-3	Kharif-14	Irrigated	Medium Black	L	M	H	Sugarcane Summer Paddy	15 th June to 15 th July, 2014	1 st Nov. to 15 th Dec. 2014		
Paddy – GAR-13	Kharif-14	Irrigated	Medium Black	L	M	H	Sugarcane Summer Paddy	15 th June to 15 th July, 2014	1 st Nov. to 15 th Dec. 2014		
Paddy –SIRA	Kharif-14	Irrigated	Medium black	L	M	H	Sugarcane Summer paddy	15 th June to 15 th July, 2014	1 st Nov. to 15 th Dec. 2014		
Paddy-IPDM	Kharif-14	Irrigated	Medium black	L	M	H	Sugarcane Summer paddy	15 th June to 15 th July, 2014	1 st Nov. to 15 th Dec. 2014		
Pulses											
Soybean	Kharif - 14	Irrigated/rain fed	Medium black	L	M	H	Fallow /Rabi vegetables	First week of July	15 th Oct. to 15 th Nov. 2014		
Cash crops											
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		
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 (Co – 4)	Rabi-13	Irrigated	Medium black	L	M	H	Sugarcane	Oct. to Dec. - 13	Dec. to March 14-15		

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					
Fodder crop											
Sorghum CSV 21 F	Rabi-13	Irrigated	Medium black	L	M	H	Paddy	Nov. to Dec. - 13	March – April 14		
Horticultural crops											
Okra (INM)	Rabi -13	Irrigated	Medium black	L	M	H	Paddy	Feb. to March. - 13	Sept. to Oct -13		
Okra (IPDM)	Rabi -13	Irrigated	Medium black	L	M	H	Paddy	Feb. to March. - 13	Sept. to Oct -13		
Brinjal (INM)	Rabi -13	Irrigated	Medium black	L	M	H	Groundnut	Feb. to March. - 13	Oct. to Nov. - 13		
Brinjal (IPDM)	Rabi -13	Irrigated	Medium black	L	M	H	Groundnut	Feb. to March. - 13	Oct. to Nov. - 13		
Parvar (IPDM &INM)	Kharif - 13	Irrigated	Medium black	L	M	H	Parvar	July to Aug.-13	-		
Parvar (Trichoderma - Salinity tolerant)	Kharif - 13	Irrigated	Medium black	L	M	H	Parvar	July to Aug.-13	-		
Parvar (Carbendazim tolerant Trichoderma)	Kharif - 13	Irrigated	Medium black	L	M	H	Bottle gourd	July to Aug.-13	-		
Banana (INM)	Kharif - 13	Irrigated	Loamy	L	M	H	Banana	June to July -13	Aug- Sept. - 14		
Banana (IPDM)	Kharif - 13	Irrigated	Loamy	L	M	H	Banana	June to July -13	Aug- Sept. - 14		
Banana (Bunch treat.)	Kharif - 13	Irrigated	Loamy	L	M	H	Sugarcane	June to July -13	Aug- Sept. - 14		

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					
Bitter gourd (F. fly traps)	Rabi -13	Irrigated	Medium black	L	M	H	Pointed gourd	Sept. to Oct -13	-		
Mango (F. fly traps)	Rabi -13	Irrigated	Medium black	L	M	H	-	-	-		
FLDs of Other Agency											
AICCIP – TSP											
Cotton	Kharif - 13	Irrigated/ rain fed	Medium black	L	M	H	Cotton	First week of July	Dec.13 Feb. 2014		
NFSM – Commercial crops											
Cotton	Kharif - 13	Irrigated/ rain fed	Medium black	L	M	H	Cotton	First week of July	Dec.13 Feb. 2014		
Adaptive Trials											
Sugarcane (GNS – 8)	Rabi-13	Irrigated	Medium black	L	M	H	Sugarcane	Oct. to Dec. - 13	Dec. to March 14-15		

Weather information:

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
April	0	41.6	23.5	65.3
May	0	40.7	25.6	72.2
June	5	36.7	26.3	77.6
July	497	36.0	26.0	84.1
August	150	34.5	26.3	85.4
September	239	36.3	25.5	79.1
October	0	38.1	22.5	63.7
November	0	37.1	19.6	68.8
December	0	34.3	14.6	64.5
January	0	32.1	14.0	65.8
February	0	37.2	16.5	66.0
March	0	41.3	19.0	55.5

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
FLDs of KVK												
Cereal Crops												
1	Paddy	variety	NAUR - 1	29	9	48.00	24.00	31.29	27.20	15.04	1.74	1.45
2	Paddy	variety	GNR - 3	35	10	57.80	35.20	44.87	39.48	13.65	2.28	2.01
3	Paddy	variety	GAR - 13	10	4	58.50	52.00	56.71	48.80	16.21	2.95	2.54
4	Paddy	SIRA	-	10	4	56.20	49.60	52.92	46.29	14.32	2.81	2.31
5	Paddy	IPDM	-	20	8	5160	4125	4971.0	4678.0	6.26	2.64	2.34
6	Sorghum	Variety	GJ - 42	20	8	18.70	13.50	15.42	12.61	22.28	2.01	1.72
Pulses												
1	Soybean	variety	JS - 335	37	9	13.20	6.50	8.55	7.67	11.47	1.78	1.60
Cash Crops												
1	Cotton	variety	G.Cot.H.- 6	20	5	21.50	17.30	18.81	16.34	15.12	2.10	1.77
2	Cotton	variety	G.Cot.H.- 8	20	5	17.60	15.40	16.43	14.44	13.78	1.78	1.52
3	Sugarcane	Intercrop	Co - 4	10	2.5	1040.00	900.00	970.00	890.00	8.99	2.16	1.91
4	Sugarcane	Release of Trichogramma	-	10	4	1030.00	950.00	980.30	910.90	7.62	2.12	2.01
Fodder crop												
1	Sorghum (fodder)	New variety	CSV-21F	20	8	421.50	296.98	360.13	312.98	15.06	5.14	4.47
Horticulture Crop												
1	Okra	INM	Hybrid	10	2	164.50	142.60	156.62	136.09	15.09	3.54	3.07
2	Okra	IPDM	Hybrid	10	2	167.00	145.10	158.23	139.11	13.74	4.34	3.59
3	Brinjal	INM	Surti ravaiya	10	2	158.60	129.40	144.37	128.02	12.77	2.61	2.19
4	Brinjal	IPDM	Surti ravaiya	20	4	172.50	149.60	162.23	112.40	44.33	3.19	2.03

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
5	Parvar	IPDM and INM	Local	20	4	227.50	190.00	178.41	136.68	30.53	2.51	1.83
6	Parvar	Salinity tolerant Trichoderma	Local	20	8	196.50	98.00	147.41	133.07	10.78	2.21	1.95
7	Parvar	Carbendazim tolerant Trichoderma	Local	20	8	202.00	134.00	172.71	152.75	13.07	1.14	0.08
8	Banana	INM	Grand Nain	20	5	715.00	551.00	649.68	543.13	19.62	4.41	3.62
9	Banana	IPDM	Grand Nain	10	4	756.00	592.00	690.68	551.90	25.14	4.88	3.74
10	Banana	Bunch Treatment	Grand Nain	20	5	745.00	582.00	668.45	582.75	14.71	4.97	3.82
11	Bitter gourd	Fruitfly traps	-	20	4	127.50	109.50	123.72	107.09	15.53	2.54	1.99
12	Mango	Fruitfly traps	-	20	4	79.20	48.50	66.04	59.75	10.52	3.10	2.19
FLDs of Other Agency												
AICCIP - TSP												
1	Cotton	ICM	-	50	20	19.84	12.00	14.78	13.19	12.05	1.82	1.51
NFSM – Commercial Crops												
2	Cotton	ICM	-	25	10	21.50	15.60	17.90	15.75	13.65	2.20	1.80
Adaptive Trials												
3	Sugarcane	variety	CoN - 7072	10	2.5	1350.00	940.00	1070.00	920.00	16.30	2.29	1.97

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	
FLDs of KVK							
Cereal Crops							
22500	23500	39113	34000	16613	10500	1.74	1.45
25000	25000	56985	50140	31985	25140	2.28	2.01
25000	25000	73723	63440	48723	38440	2.95	2.54
23500	25000	66150	57863	42650	32863	2.81	2.31
23500	25000	62138	58475	38638	33475	2.64	2.34
14500	14500	29130	24915	14630	10415	2.01	1.72
Pulses							
12000	12000	21375	19175	9375	7175	1.78	1.60
Cash Crops							
35000	36000	73359	63726	38359	27726	2.10	1.77
35000	36000	62434	54872	27434	18872	1.78	1.52
116000	112000	250800	213600	134800	101600	2.16	1.91
109045	107620	231005	215965	121960	108345	2.12	2.01
Fodder crop							
14000	14000	72026	62596	58026	48596	5.14	4.47
Horticulture Crop							
55250	55470	195775	170112.5	140525	114642.5	3.54	3.06
48130	51180	208863.6	183625.2	160733.6	132445.2	4.34	3.59
44300	46750	115496	102416	71196	55666	2.60	2.19
48270	52720	154090	106780	105820	54060	3.19	2.03
135000	142000	338969.5	259685.8	203969.5	117685.8	2.51	1.83
127000	129300	280060	252700	153060	123400	2.21	1.95
145000	147500	328130	290130	183130	142630	2.26	1.97

95700	97600	422288.75	353035.6	326588.75	255435.5	4.41	3.61
92000	96000	448825	358800	356825	262800	4.88	3.74
97500	99200	484770	378731.17	387270	279531.1	4.97	3.81
46700	46400	247440	214180	200740	167780	5.30	4.62
20210	20000	33018	29875	12808	9875	1.63	1.49
FLDs of Other Agency							
AICCIP – TSP							
32500	35000	59120	52760	26620	17760	1.82	1.51
NFSM – Commercial crops							
32500	35000	71600	63000	39100	28000	2.20	1.80
Adaptive Trials							
112000	112000	256800	220800	144800	108800	2.29	1.97
Horticulture Crop							

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
FLDs of KVK						
Paddy NAUR - 1	Kharif – 14	ICM	Irrigated/Rainfed	31.29	27.20	15.04
Paddy GNR - 3	Kharif – 14	ICM	Irrigated	44.87	39.48	13.65
Paddy GAR - 13	Kharif – 14	ICM	Irrigated	56.71	48.80	16.21
Paddy SIRA	Kharif – 14	ICM	Irrigated	52.92	46.29	14.32
Paddy	Kharif – 14	IPDM	Irrigated	4971.0	4678.0	6.26
Sorghum GJ - 42	Rabi – 14	ICM	Irrigated/Rainfed	15.42	12.61	22.28
Soybean JS - 335	Kharif – 14	ICM	Irrigated/Rainfed	8.55	7.67	11.47
Cotton G.Cot.H.- 6	Kharif – 14	ICM	Irrigated/Rainfed	18.81	16.34	15.12

Cotton G.Cot.H.- 8	Kharif – 14	ICM	Irrigated/Rainfed	16.43	14.44	13.78
Sugarcane Intercrop	Rabi – 13	ICM	Irrigated	970.00	890.00	8.99
Sugarcane	Rabi – 13	IPDM	Irrigated	980.30	910.90	7.62
Sorghum (fodder) CSV 21 F	Rabi – 13	ICM	Irrigated	360.13	312.98	15.06
Okra	Rabi -13	INM	Irrigated	156.62	136.09	15.09
Okra	Rabi -13	IPDM	Irrigated	158.23	139.11	13.74
Brinjal	Rabi -13	INM	Irrigated	144.37	128.02	12.77
Brinjal	Rabi -13	IPDM	Irrigated	162.23	112.40	44.33
Parvar	Kharif -13	IPDM and INM	Irrigated	178.41	136.68	30.53
Parvar	Kharif -13	Salinity tolerant Trichoderma	Irrigated	147.41	133.07	10.78
Parvar	Kharif -13	Carbendazim tolerant Trichoderma	Irrigated	172.71	152.75	13.07
Banana	Kharif -13	INM	Irrigated	649.68	543.13	19.62
Banana	Kharif -13	IPDM	Irrigated	690.68	551.90	25.14
Banana	Kharif -13	Bunch treatment	Irrigated	668.45	582.75	14.71
Bitter gourd	Rabi -13	Fruitfly trap	Irrigated	123.72	107.09	15.53
Mango	Rabi -13	Fruitfly trap	Irrigated	66.04	59.75	10.52
FLDs of Other Agency						
AICCIP – TSP						
Cotton	Kharif – 14	ICM	Irrigated/Rainfed	14.78	13.19	12.05
NFSM – Commercial crops						
Cotton	Kharif – 14	ICM	Irrigated/Rainfed	17.90	15.75	13.65
Adaptive Trials						
Sugarcane CoN - 7072	Rabi – 13	ICM	Irrigated	1070.00	920.00	16.30

Kitchen garden: 20**Crop yield (Kg.) per demonstration**

Chilli	Cabbage	Brinjal	Carrot	Onion	Indian Bean	Okra	Coriander	Tomato	Radish
2.9	8.4	24.2	3.5	32.5	4.5	14.8	1.5	14.3	6,8

Fenugreek	Spinach	Total Production (Kg)	Average Rate (Rs./Kg)	Gross return (Rs.)	
				Before FLD	FLD plot
6.4	6.1	119.1	35	1100	4168.5

Terrace garden:

Name of Enterprise	No.	Yield (Kg.) per demonstration					
		Palak	Fenugreek	Coriander	Lemon	Curry Neem	Fudina
Terrace garden	25	3.2	4.8	2.3	-	0.7	6.5

Animal husbandry

Category	Thematic area	Technology	No. of Units	Major Parameters (L/D)		Remarks	
Cow	Nutritional Management	Mineral Mixture	40	Demo.	Check	12.35 % Increase	Less no of 42nfertility cases as compare to check
				Average milk Yield			
				11.46 (40)	10.2 (10)		
				Service period (Days)		44 days reduce	
110 (40)	154 (10)						

Use of Bypass Fat

Category	Thematic area	Name of Technology Demonstrate	No. of Farmers	No. of Units	Major Parameters (L/D)		Remarks	
					Demo.	Check		
Cow	Nutritional Management	Bypass Fat @200 g / day	20	20	Average milk Yield		20.20 % Increase	Less no. of nutritional disease observed as compare to check
					14.28 (20)	11.88 (10)		
					Average Fat %		26.31 % Increase	
					4.8 (20)	3.8 (10)		
					Service period (Days)		44 days reduce	
					106 (20)	150 (10)		

Home Science

Sr. No.	Technology Demonstrated	No. of Farmers	Per cent Yield loss Demonstration			Per cent yield loss Control	Reduction in Incest Pest (%)
			H	L	A		
1	Plastic Bag for Storage Cereals	60	2	5.5	3.5	13.18	73.36

Technical Feedback on the demonstrated technologies of crop production

SN	Crop	Feed back
1	NAUR-1	<ol style="list-style-type: none"> 1. High yielding 2. Early maturity as compared to hybrid 3. Good taste in rice plate/roti making as compare to hybrid
2	GNR-3	<ol style="list-style-type: none"> 1. High yielder and preferred by the farmers 2. Good quality 3. Low incidence of insect pest
3	GAR - 13	<ol style="list-style-type: none"> 1. Good performance as compare to GR-11 2. Good rice quality
4	SIRA	<ol style="list-style-type: none"> 1. Fertilizer saving 2. Labour problems compel to adopt the technology 3. Preferred by the farmers
5	Soybean	<ol style="list-style-type: none"> 1. Poor yield due to unfavorable climatic condition
6	Fooder sorghum CSV 21 F	<ol style="list-style-type: none"> 1. Good fodder production/ preferred by animal 2. Harvesting is very difficult because of its hardness at maturity stage.
7	Moong Co - 4 Sugarcane intercrop	<ol style="list-style-type: none"> 1. Get additional income of moong 2. No weed problem/ no need to apply weedicide
8	Fooder sorghum CSV 21 F	<ol style="list-style-type: none"> 1. Good fodder production/ preferred by animal 2. Harvesting is very difficult because of its hardness at maturity stage.
9	Brinjal INM	<ol style="list-style-type: none"> 1. Increase quality of brinjal 2. Less incidence of wilt and other insect pests
10	Brinjal IPDM	<ol style="list-style-type: none"> 3. <i>Reduced number of pesticidal sprays</i> 4. <i>Less incidence of wilt and other diseases</i> 5. <i>Quality of brinjal improved as less number of infested fruits</i>
11.	Parvar IPDM	<ol style="list-style-type: none"> 1. <i>Less incidence of wilt was observed as compared to the other field.</i>
12	Banana IPDM	<ol style="list-style-type: none"> 1. <i>Less infestation of Pseudo-stem weevil and Wilting in Banana</i>
13	Banana Bunch treatment	<ol style="list-style-type: none"> 1. <i>Higher quality and weight of banana with 15 days earlier maturity</i>
14	Sugarcane <i>Trichogramma</i>	<ol style="list-style-type: none"> 4. Less incidence of Early shoot borer and top borer 5. Reduced insecticides application
15	Kitchen Garden	<ol style="list-style-type: none"> 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.
16	Plastic bags	1. Low cost technology for storing house hold grains.
17	Use of mineral mixture	1. Use of mineral mixture increases the milk production and reduces the service period
18	Use of bypass fat	1. Use of bypass fat increases milk production, fat percentage and reduced service period.

Extension and Training activities under FLD

Sr. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days				
	Rice	3	17-09-2014, 1-11-2014, 8-11-2014	118	
	Cotton	2	17-09-2014, 11-01-2014	263	
2	Farmers Training				
	Plant Production	4	24-06-2014, 10-07-2014, 14-08-2014, 20-11-2014,	160	
	Agronomy	7	22-05-14, 22-05-14, 31-05-14, 3-06-14, 3-06-14,19-07-14, 7-02-15	117	
	Animal Science	2	4-12-2014, 26-12-2014	33	
	Home Science	2	24-05-2014, 9-09-2014	66	

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

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				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming	4	31	0	31	83	51	134	114	51	165
Water management				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management	1	0	0	0	58	8	66	58	8	66
Integrated Crop Management	4	171	0	171	30	0	30	201	0	201
Fodder production				0			0	0	0	0
Production of organic inputs	2	98	2	100	0	0	0	98	2	100
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential				0			0	0	0	0

fruits									
Micro irrigation systems of orchards			0			0	0	0	0
Plant propagation techniques			0			0	0	0	0
c) Ornamental Plants									
Nursery Management			0			0	0	0	0
Management of potted plants			0			0	0	0	0
Export potential of ornamental plants			0			0	0	0	0
Propagation techniques of Ornamental Plants			0			0	0	0	0
d) Plantation crops									
Production and Management technology			0			0	0	0	0
Processing and value addition			0			0	0	0	0
e) Tuber crops									
Production and Management technology			0			0	0	0	0
Processing and value addition			0			0	0	0	0
f) Spices									
Production and Management technology			0			0	0	0	0
Processing and value addition			0			0	0	0	0
g) Medicinal and Aromatic Plants									
Nursery management			0			0	0	0	0
Production and management technology			0			0	0	0	0
Post harvest technology and value addition			0			0	0	0	0
III Soil Health and Fertility Management									
Soil fertility management			0			0	0	0	0
Soil and Water Conservation			0			0	0	0	0
Integrated Nutrient Management			0			0	0	0	0
Production and use of organic inputs			0			0	0	0	0
Management of Problematic soils			0			0	0	0	0

Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Soil and Water Testing				0			0	0	0	0
IV Livestock Production and Management										
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed management	1	0	0	0	24	12	36	24	12	36
Production of quality animal products	1	0	0	0	32	14	46	32	14	46
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques	1	0	36	36	0	0	0	0	36	36
Value addition	1	3	49	52	0	0	0	3	49	52
Income generation activities for empowerment of rural Women				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
VI Agril. Engineering										
Installation and maintenance of				0			0	0	0	0

micro irrigation systems										
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
VII Plant Protection										
Integrated Pest Management	3	83	80	163	73	3	76	156	83	239
Integrated Disease Management	3	36	67	103	44	4	48	80	71	151
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
IX Production of Inputs at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0

Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development	2	0	59	59	0	0	0	0	59	59
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths	4	0	39	39	29	88	117	29	127	156
WTO and IPR issues				0			0	0	0	0
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
TOTAL	27	422	332	754	373	180	553	795	512	1307
(B) RURAL YOUTH										
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Sericulture				0			0	0	0	0

Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Value addition				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Para vets				0			0	0	0	0
Para extension workers	1	0	0	0	18	6	24	18	6	24
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
TOTAL	1	0	0	0	18	6	24	18	6	24
(C) Extension Personnel										
Productivity enhancement in field crops	2	5	0	5	31	10	41	36	10	46
Integrated Pest Management				0			0	0	0	0

Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization	1	4	0	4	26	6	32	30	6	36
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
TOTAL	3	9	0	9	57	16	73	66	16	82
Grand Total	31	431	332	763	448	202	650	879	534	1413

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	2	45	0	45	27	1	28	72	1	73
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0

Integrated Farming				0			0	0	0	0
Water management	2	2	0	2	58	1	59	60	1	61
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	8	39	5	44	140	48	188	179	53	232
Fodder production	2	50	8	58	0	0	0	50	8	58
Production of organic inputs				0			0	0	0	0
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	0	0	0	25	0	25	25	0	25
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
c) Ornamental Plants										
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation										

crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
III Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Soil and Water Conservation				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Soil and Water Testing				0			0	0	0	0
IV Livestock Production and Management										
Dairy Management	5	41	3	44	60	78	138	101	81	182
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management	7	45	29	74	104	81	185	149	110	259
Feed management	2	0	0	0	13	11	24	13	11	24

Production of quality animal products	5	89	69	158	24	16	40	113	85	198
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	0	0	60	72	132	60	72	132
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	16	6	222	228	55	140	195	61	362	423
Income generation activities for empowerment of rural Women				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care	7	0	31	31	15	189	204	15	220	235
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
VII Plant Protection										
Integrated Pest	5	32	0	32	59	50	109	91	50	141

Management										
Integrated Disease Management	5	93	15	108	0	0	0	93	15	108
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
IX Production of Inputs at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0

Production of Fish feed				0			0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development	5	0	0	0	98	50	148	98	50	148
Group dynamics	4	12	21	33	91	43	134	103	64	167
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths	2	30	21	51	0	0	0	30	21	51
WTO and IPR issues				0			0	0	0	0
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
TOTAL	80	484	424	908	829	780	1609	1313	1204	2517
(B) RURAL YOUTH										
Mushroom Production	1	0	0	0	21	5	26	21	5	26
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Sericulture				0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Value addition				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0

Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Para vets				0			0	0	0	0
Para extension workers				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
TOTAL	1	0	0	0	21	5	26	21	5	26
(C) Extension Personnel										
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0

Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
Grand Total	81	484	424	908	850	785	1635	1334	1209	2543

ON + 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	2	45	0	45	27	1	28	72	1	73
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	4	31	0	31	83	51	134	114	51	165
Water management	2	2	0	2	58	1	59	60	1	61
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	1	0	0	0	58	8	66	58	8	66
Integrated Crop Management	12	210	5	215	170	48	218	380	53	433
Fodder production	2	50	8	58	0	0	0	50	8	58
Production of organic inputs	2	98	2	100	0	0	0	98	2	100
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	0	0	0	25	0	25	25	0	25
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0

Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0
b) Fruits										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0

Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
IV Livestock Production and Management										
Dairy Management	5	41	3	44	60	78	138	101	81	182
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	7	45	29	74	104	81	185	149	110	259
Feed management	3	0	0	0	37	23	60	37	23	60
Production of quality animal products	6	89	69	158	56	30	86	145	99	244
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	0	0	60	72	132	60	72	132
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	1	0	36	36	0	0	0	0	36	36
Value addition	17	9	271	280	55	140	195	64	411	475
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	7	0	31	31	15	189	204	15	220	235
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0

Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
VII Plant Protection										
Integrated Pest Management	8	115	80	195	132	53	185	247	133	380
Integrated Disease Management	8	129	82	211	44	4	48	173	86	259
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
VIII Fisheries										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development	7	0	59	59	98	50	148	98	109	207

Group dynamics	4	12	21	33	91	43	134	103	64	167
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	6	30	60	90	29	88	117	59	148	207
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
TOTAL	107	906	756	1662	1202	960	2162	2108	1716	3824
(B) RURAL YOUTH										
Mushroom Production	1	0	0	0	21	5	26	21	5	26
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	1	0	0	0	18	6	24	18	6	24
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0

Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	0	0	39	11	50	39	11	50
(C) Extension Personnel										
Productivity enhancement in field crops	2	5	0	5	31	10	41	36	10	46
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	1	4	0	4	26	6	32	30	6	36
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
TOTAL	3	9	0	9	57	16	73	66	16	82
	112	915	756	1671	1298	987	2285	2213	1743	3956

Sponsored Training Programmes

Name of KVK :

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	4	120	0	120			0	120	0	120
II Horticulture				0			0	0	0	0
a) Vegetable Crops				0			0	0	0	0
b) Fruits				0			0	0	0	0
c) Ornamental Plants				0			0	0	0	0
d) Plantation crops				0			0	0	0	0
e) Tuber crops				0			0	0	0	0
f) Spices				0			0	0	0	0
g) Medicinal and Aromatic Plants				0			0	0	0	0
III Soil Health and Fertility Management				0			0	0	0	0
IV Livestock Production and Management	4	128	8	136			0	128	8	136
V Home Science/Women empowerment	5	0	58	58	12	60	72	12	118	130
VI Agril. Engineering				0			0	0	0	0
VII Plant Protection	8	40	0	40	278	54	332	318	54	372
VIII Fisheries				0			0	0	0	0
IX Production of Inputs at site				0			0	0	0	0
X Capacity Building and Group Dynamics	4	31	0	31	83	51	134	114	51	165
XI Agro-forestry				0			0	0	0	0
TOTAL	25	319	66	385	373	165	538	692	231	923
(B) RURAL YOUTH										
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Sericulture				0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Repair and maintenance of farm machinery				0			0	0	0	0

and implements										
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Value addition				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Para vets				0			0	0	0	0
Para extension workers				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
(C) Extension Personnel				0			0	0	0	0
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0

Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
	25	319	66	385	373	165	538	692	231	923

Vocational trainings

Discipline	Title	Duration	No. of participants Others			No. of participants (SC / ST)			No. of participants			Self employed after training
			M	F	T	M	F	T	M	F	T	
Home Science- 4 course	Preservation of fruits and vegetables	5 days	0	113	113	0	0	0		113	113	--
Plant protection- 2 course	Mushroom cultivation	7 days				23	83	106	23	83	106	--
Animal husbandry -1 course	Goat rearing	4 days				22	13	35	22	13	35	--
Total 7 courses			7	117	124	0	0	0	7	117	124	--

Extension activities

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	5			0	198	102	300	17	0	17	215	102	317
Kisan Mela	4	2000	300	2300	3000	1500	4500			0	5000	1800	6800
Kisan Ghosthi	63	3899	2341	6240	6139	5428	11567	240	75	315	10278	7844	18122
Exhibition	8	500	100	600	5500	3882	9382			0	6000	3982	9982
Film Show	42	409	289	698	771	324	1095			0	1180	613	1793
Method Demonstrations	4			0	170	8	178	4	2		6	174	184
Farmers Seminar	5			0	903	225	1128	27	5	32	930	230	1160
Workshop				0			0			0	0	0	0
Group meetings	7			0	0	95	95			0	0	95	95
Lectures delivered as resource persons	51	500	100	600	1500	1200	2700	150	50	200	2150	1350	3500
Newspaper coverage	8			0			0			0	0	0	0
Radio talks	3			0			0			0	0	0	0
TV talks	2			0			0			0	0	0	0
Popular articles	43			0			0			0	0	0	0
Extension Literature	7650	1000	150	1150	5500	1000	6500			0	6500	1150	7650
Advisory Services	1849	1109	228	1337	442	70	512			0	1551	298	1849
Scientific visit to farmers field	147	200	8	208	98	0	98			0	298	8	306
Farmers visit to KVK	659	124	184	308	218	133	351			0	342	317	659
Diagnostic visits	147	200	8	208	98	0	98			0	298	8	306
Exposure visits	4			0	100	50	150			0	100	50	150
Ex-trainees Sammelan				0			0			0	0	0	0
Soil health Camp				0			0			0	0	0	0
Animal Health Camp	3			0	170	52	222			0	170	52	222
Agri mobile clinic				0			0			0	0	0	0
Soil test campaigns				0			0			0	0	0	0
Farm Science Club Conveners meet	2			0	40	20	60	4		4	44	20	64
Self Help Group	0			0			0			0	0	0	0

Conveners meetings													
Mahila Mandals Conveners meetings				0									
Celebration of important days ()	4	20	370	390	540	357		31	4				
Total	10708	996	4078	140	253	1444	398	473	136	609	358	1866	544
		1		39	87	6	33			35	591	731	132 2

Celebration of Technological Week: 7.1.15 to 13.1.15

Name of KVK	surat (7.1.15 to 13.1.15)			
Number of Technology weeks celebrated	Types of Activities	No. of Activities	Numaber of Participants	Related crop/livestock technology
1	Gosthies	8	753	Terrece gardening, sugarcane, mango, cotton, Animal husbandry and bee keeping
	Lectures organised	20	681	
	Exhibition			
	Film show	2	169	sugarcane
	Fair			
	Farm Visit	1	193	Cotton
	Diagnostic Practicals	1	53	Bee keeping
	Distribution of Literature (No.)	1500	753	Crop, animals and Bee
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
Total number of farmers visited the technology week			753	

SMS Sent

Content Category	No. of Messages	No. of Farmers	Content Category	No. of Messages	No. of Farmers
Crop Production	3	3828	Crop Production		
Crop Protection	1	3200	Crop Protection		
Livestock & Fisheries Advisory	2	2320	Livestock & Fisheries Advisory		
Weather Advisory			Weather Advisory		
Market Information			Market Information		
Events Information			Events Information		
Input availability			Input availability		
Others (specify)			Others (specify)		
Total	6	9348	Total	0	0

INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

Major area coverage under alternate crops/varieties

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

Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No. of participants
Total			

Animal health camps organised

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

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

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

3.5 Production and supply of Technological products

Farm Development is in Progress.

Supply of technological products:

Sr. No.	Crop/ Technology	Variety	Quantity (Kg)	Cost (Rs.)	Provided to No. of farmers
1	Paddy	NAUR 1	5000	125000	2500
2	Pegion pea	Vaishali	6000	600000	6000
3	Trichoderma	-	300	21000	10
4	Pseudomonas	-	300	21000	10

5	Azotobactor	-	100	12000	20
6	PSB	-	100	12000	20
7	KMB	-	100	12000	20
Total			11900	803000	8580

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
		--	--	--

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

3.2.6 Publications and human resource development

Training Manual - 1

1. Pastagia, J.J., Verma, P. D. and Parmar H.C.(2014). Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 12-14.

Technical Report

1. NAU Spectrum - 2
2. Watershed evaluation report - 4
3. ZREAC Report - 2
4. AGRESCO Report - 1
5. SAC Report - 1
6. Annual Action Plan - 1
7. APR - 1

Research papers published/presented in Seminars and research journals.

1.	Soni D. N. and Kamaliya K. B. (2014). "Relationship between knowledge of tribal women about Nutrition with their personal characteristics". A paper presented in National seminar on "Dimension of Extension Education in Holistic Development of Farmers" organized by Society of Extension Education, Anand and AAU, Anand on 5 April, 2014.
2.	Kamaliya K. B. and Soni D. N. (2014). "Evaluation of Food habit of tribal women and its relationship with their personal characteristics". A paper published in National seminar on "Dimension of Extension Education in Holistic Development of Farmers" organized by Society of Extension Education, Gujarat and AAU, Anand on 5 April, 2014.

3.	Soni D. N., Pastagia J. J. and Soni A. N. (2014). "Impact of Fruits and Vegetable Preservation Training on Women". A paper published in Gujarat Journal of Extension Education, 25(1):110.
4.	Soni A. N., Soni D. N. and Patel H. B. (2014). "Opinion of Farmers about Information of Animal Husbandry Practices given during Krishi Mahotsav". Gujarat Journal of Extension Education, 25(2):184
5.	Soni D. N. and Kamaliya K. B. (2014). Relationship between knowledge of tribal women about Nutrition with their personal characteristics. A paper presented in National seminar on "Dimension of Extension Education in Holistic Development of Farmers" organized by Society of Extension Education, Anand and AAU, Anand on 5 April, 2014.
6.	Kamaliya K. B. and Soni D. N. (2014). Evaluation of Food habit of tribal women and its relationship with their personal characteristics. A paper published in National seminar on "Dimension of Extension Education in Holistic Development of Farmers" organized by Society of Extension Education, Anand and AAU, Anand on 5 April, 2014.
7.	Soni D. N., Pastagia J. J. and Verma P. D. (2014). Evaluation of Women's training on Preservation of Fruits and Vegetables. A paper presented in National seminar on "Dimension of Extension Education in Holistic Development of Farmers" organized by Society of Extension Education, Anand and AAU, Anand on 5 April, 2014.
8.	Soni A. N., Pandya C. D. and Soni D. N. (2014). Drudgery reduction in tribal farm women through NAVEEN Sickle. A paper presented in National seminar on "Women Empowerment during XII Five year plan through Agricultural Mechanization" organized by Department of Extension Education and Communication Management, College of Home Science, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur (U. P.) on 24-25 December, 2014.
9.	Soni D. N., Pastagia J. J. and Soni A. N. (2015). Impact of Fruits and Vegetable Preservation Training on Women. A paper presented in National Seminar on "Magnitude of Extension Approaches in Agricultural Development" organized by Society of Extension Education, Gujarat and NAU, Navsari on 7-8 February, 2015. Abst:104pp
10.	Soni A. N., Pandya C. D. and Soni D. N. (2015). Introduction of Improved NAVEEN Sickle for Paddy Harvesting to Reduce Drugery in Farm Women. A paper presented in National Seminar on "Magnitude of Extension Approaches in Agricultural Development" organized by Society of Extension Education, Gujarat and NAU, Navsari on 7-8 February, 2015. Abst:119pp
11.	Verma P.D. and Pastagia J. J. (2014). Feeding pattern adopted by the tribal to strengthen dairy husbandry. Paper presented in National Seminar on Revisiting Management Policies and Practice for Indigenous Livestock and Poultry Breeds as Eco-friendly Economic Produces held at Navsari Agricultural University, Navsari during 9-11 October, 2014.
12.	Verma P.D. Soni, D.N. Pastagia, J.J. and Thumar, V.N. (2014). Basic issues and pragmatic approaches to women's entrepreneurship development in

	agriculture. A paper published in National Seminar on Farm Women organized by NCCSD, Ahmedabad and JAU, Junagadh on 4-5, February, 2014.
13.	Gadhiya V. C. and Pastagia J. J. (2014). Potentials of utilizing bumble bee in crop pollination in protected cultivation. Poster paper presented in Global Conference on Technology Challenges and Climate Smart Horticulture-Issues and Strategies Organized during 28-31 May, 2014 at NAU, Navsari.
14.	Patil P. N. and Pastagia J. J. (2014). Effect of bee pollination on yield of coriander <i>Coriandrum sativum</i> Linnaeus Poster paper presented in Global Conference on Technology Challenges and Climate Smart Horticulture-Issues and Strategies Organized during 28-31 May, 2014 at NAU, Navsari.
15.	Patil P. N. and Pastagia J. J. (2014).Morphometrics of worker bees of European honeybee, <i>Apis mellifera</i> L. in Gujarat AGRES- An International e- Journal, 3(2):166-170
16.	Patil P. N. and Pastagia J. J. (2014).Morphometrics of worker bees of Indian honeybee, <i>Apis cerana</i> F. in Gujarat AGRES- An International e- Journal, 3(2):148-153.
17.	Patil P. N. and Pastagia J. J. (2014).Morphometrics of worker bees of little honeybee, <i>Apis florea</i> F. in Gujarat Journal of Plant Protection and Environment,11(1):36-39.
18.	Patil P. N. and Pastagia J. J. (2014).Morphometrics of worker bees of rock bee, <i>Apis dorsata</i> in Gujarat Journal of Plant Protection and Environment,11(1):40-43.
19.	Pastagia J. J and Patel M. B. (2014).Brood rearing activity of <i>Apis cerana</i> F. in South Gujarat, <i>AGRES – An International e-Journal</i> , Vol. 3(4): 403-409.
20.	Pastagia, J. J. and Patel M. B. (2014).Influence of weather parameters on brood rearing and foraging activities of Indian bee, <i>Apis cerana</i> , <i>AGRES – An International e-Journal</i> , Vol. 3(4): 375-381
21.	Patel H. K., Patel P. M., Suthar J. V. and Patel M. R. (2014). Yield, quality and post harvest nutrient status of chickpea as influence by application of sulphur and phosphorus fertilizer management, <i>Int. J. of Sci. and Res. Publications</i> , 4(7):
22.	Patel H. K., Sadhu A. C., Lakum Y. C. and Suthar J. V. (2014). Response of integrated nutrient management on wheat and its residual effect on subsequent crop, <i>Int. J. Agril. Sci. and Vet. Medicines</i> , 2(4):
23.	Chawda S. K. and Sabalpara A. N. (2014). Survey, Loss Assessment and Genotypes Evaluation of Turmeric (<i>Curcuma longa</i> L.) against Leaf Spot [<i>Colletotrichum gloeosporioides</i> (Penz. and Sacc.)], paper at Global Conference- Issues and Challenges and Human Resources for Climate Smart Horticulture organised on 28-31 May, 2014 at NAU, Navsari.

Popular articles:

1.	Pastagia J. J., Chawda S. K. and Suthar J. V. (2014). Bij Mavjat: Pak utpadan vadharva matenu agatyanu ang: Krishi Jagran, August, 2014: 34-37
2.	Chawda S. K, Pastagia J. J. and Patel H. V. (2014). Mukhya Pakma Nuksan Karti Paropjivi Vanaspatio, Krishi Jagran, August, 2014:
3.	Pastagia J. J., Chawda S. K and Patel H. V. (2014). Chrysopa: Chusiya prakar ni jivato nu parbhakshi kitak, Swadesh Swapna dated 7 th January,2014.
4.	Chawda S. K. and Pastagia J. J. (2014). Sakhaji Pakoma visanujanya rogo ane tenu sankalit niyantran, Swadesh Swapna dated 20 th May,2014.
5.	Pastagia J. J., Chawda S. K. and Suthar J. V. (2014). Ringan na pakne mahattam nuksan karti jivat, Swadesh Swapna dated 20 th May,2014.
6.	Pastagia J. J., Chawda S. K and Patel H. V. (2014). Trichogramma chilonis : Kheti pakoni asarkarak parjivi. Swadesh Swapna dated 13 th May,2014.
7.	Chawda S. K, Pastagia J. J. and Suthar J. V. (2014). Green house ma ugadata pakoma

	krumi no upadrav ane tenu niyantran, Swadesh Swapna dated 1 st April,2014.
8.	Chawda S. K. and Pastagia J. J. (2014). Kalvarna rog ne odkhi keri nu gunvatta sabhar utpadan lo, Swadesh Swapna dated 7 th January,2014.
9.	Suthar J. V., Pastagia J. J. and Chawda S. K. (2014). Dangar ni vagyanik kheti paddhati, Swadesh Swapna dated 24 th July,2014.
10.	Pastagia J. J., Chawda S. K. and Suthar J. V. (2014). Bij Mavjat : Pak utpadan vadharva matenu agatyanu ang, Swadesh Swapna dated 16 th December,2014.
11.	Parmar H. C. (2014). Vaigyanic padhdhati thi padi/vacchardi no uchher, May, 2014: 35.
12.	Parmar H. C and Pastagia J. J. (2014). Unalama janvaro par garmini asar ane tena upayo. Krishi Jagran, May, 2014: 39-40.
13.	Parmar H. C and Pastagia J. J. (2014). Pashu aharma zeri tatvo, teni aad asaro and tena upayo. Krishi Jagran, August, 2014: 46-47.
14.	Parmar H. C and Pastagia J. J. (2014). Unalama janvaro par garmini asar ane tena upayo. Swadesh Swapna dated 22 nd April, 2014.
15.	Soni D. N. and Soni A. N. “ <i>Balkrumi</i> ”, Champion Agro World, April – 2014, Pp. 28-29
16.	Soni D. N. “ <i>Reshmi Kapad Jalavavani Kala</i> ”, Krishigovidhya, April – 2014, Pp. 39-40
17.	Soni D. N. “ <i>Aarogyavardhak Pinu - Neero</i> ”, Ek Prayas, April – 2014, Pp. 34
18.	Solanki B. G. and Soni D. N. “ <i>Juvarmathi Banti Vividh Vangio Vishe Jano</i> ”, Krishigovidhya, May – 2014, Pp. 29-36
19.	Soni D. N. and Soni A. N. “ <i>Poshanyukt Purak Aahar</i> ”, Champion Agro World, June – 2014, Pp. 32-33
20.	Soni D. N. “ <i>Aarogyavardhak Pinu - Neero</i> ”, Khetini Vat, May – 2014, Pp. 36
21.	Soni D. N. and Pastagia J. J. “ <i>Vividh Pakona Aushadhiya Upayog</i> ”, Krishi Jagran, July – 2014, Pp. 9
22.	Soni D. N. and Soni A. N. “ <i>Fangavel Anaj Ane Kathol</i> ”, Champion Agro World, July – 2014, Pp. 29
23.	Soni D. N. and Soni A. N. “ <i>Bal Aaharna Prashno</i> ”, Champion Agro World, August – 2014, Pp. 38-39
24.	Verma, P. D., Pastagia, J. J. and Patel A. T. (2014). Safal talim Karyakram Chavi Rup Muddao, Krishi Jagran September (2014): 50-52.
25.	Verma, P. D and Pastagia, J. J. (2014). Ochha Kharchni Kheti paddhatiyo, Krishi Jagran, July (2014).32-36.
26.	Verma, P. D., Pastagia, J. J. and Patel A. T. (2014). Sajiv Kheti: Saharsh sweekarva layak Panch Sutra Karyakram, Krishi Jagran, July (2014):38-40.
27.	Verma, P. D., Pastagia, J. J. and Patel A. T. (2014). Safal talim karyakram: chavirup muddao in Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from1-7, Septembr, 2014: 1-5.
28.	Verma, P. D., Pastagia, J. J. and Suthar J. V. (2014). Gunvatta sabhar biyaran: Khedutlakshi suchano in Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from1-7, September, 2014: 6-11.
29.	Pastagia, J. J., Chawda S. K. and Verma, P. D. (2014). Pak ni rasi atle ke bij mavjat in Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from1-7, September, 2014: 12-14.
30.	Suthar, J. V., Pastagia, J. J. and Verma P. D. (2014). Pak utpadan ni adhunik paddhatiyo, In Talim Samput on Krishi Kshetre Navi Kshitijo, Training programme organized by Krishi Vigyan Kendra, NAU, Surat from1-7, September, 2014:

	15-37.
31.	Verma P. D., Pastagia, J. J. and Suthar, J. V. (2014). Ochha kharchni kheti paddhatiyo, In Talim Samput on Krishi Kshetre Navi Kshitijo, Training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 38-43.
32.	Verma P. D., Suthar, J. V. and Pastagia J. J. (2014). Jal ane jamin vyavsthapan In Talim Samput on Krishi Kshetre Navi Kshitijo, Training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 49-50.
33.	Pastagia, J. J. (2014). Madhmakhi Dwara Paragnayan In Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 68-71.
34.	Verma, P. D., Pastagia, J. J. and Patel A. T. (2014). Sajiv Kheti: Saharsh sweekarva layak Panch Sutra Karyakram In Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 72-77.
35.	Pastagia, J. J. (2014). Agro Forestry and carbon sequestration, In Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 78-82.
36.	Singh Ram Kumar, Verma P. D. and Pastagia J. J. (2014). Nana payanu farm yantrikaran mate sudharela kheti ozaro, In Talim Samput on Krishi Kshetre Navi Kshitijo, Training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 98-115.
37.	Verma P. D., Pastagia J. J. and Suthar J. V. (2014). Krishima biotechnology no vyap. In Talim Samput on Krishi Kshetre Navi Kshitijo, Training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 123-125.
38.	Verma P. D., Suthar J. V. and Sing Ram Kumar (2014). Vermi compost taiyar karvana chha pagathiya. In Talim Samput on Krishi Kshetre Navi Kshitijo, Training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 126-129.
39.	Chawda, S. K. and Patel A. T. (2014). Jaivik khataro nu mahatva ane upayog, In Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 130-136.
40.	Pastagia, J. J. and Patel A. T. (2014). Sankalit Kit Niyantran, In Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 193-200.
41.	Soni D. N. (2014). Krishima mulyavrudhdhi no anivarya abhigam, In Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 201-205.
42.	Verma P. D. and Parmar H. C. (2014). Dudhala pashuo ni mavjat chavirup muddao. In Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 206-210.
43.	Parmar H. C. (2014). Pashupalan ma navi kshitijo. In Talim Samput on Krishi Kshetre Navi Kshitijo, training programme organized by Krishi Vigyan Kendra, NAU, Surat from 1-7, September, 2014: 211-222.

Human Resource Development:

No.	Training/ Seminar attended	Attended by
1.	National seminar on Dimensions of Extension Education in Holistic Development of Farmers	P.D. Verma and D. N. Soni

	organized by Society of Extension Education, Gujarat and Anand Agricultural University, Anand at Anand on 5 th April, 2014.	
2.	Orientation Programme (80 th) organized by Academic Staff College, Gujarat University, Ahmedabad at Ahmedabad from 30 October, 2014 to 26 November, 2014	D. N. Soni
3.	National seminar on “Women Empowerment during XII Five year plan through Agricultural Mechanization organized by Department of Extension Education and Communication Management, College of Home Science, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur from 24-25 December, 2014	D.N. Soni
4.	National seminar on “Magnitude of Extension Approaches in Agricultural Development organized by Society of Extension Education, Gujarat and Navsari Agricultural University, Navsari during 7-8, February, 2015	J. J. Pastagia, P.D. Verma and D. N. Soni
5.	Global Conference- Issues and Challenges and Human Resources for Climate Smart Horticulture organised by Navsari Agricultural University, Navsari from 28-31, May, 2014.	J. J. Pastagia and S. K. Chawda
6.	Seminar on Plant protection in Spices and Condiments held at Sardar Krishi Nagar, Dantiwada on 11th October, 2014	S.K. Chawda
7.	Training on Integrated Pest Management of Crops during 16 – 18 th October, 2014 organized by NCIPM, New Delhi at Jaipur	S. K. Chawda
8.	Workshop on Gender Sensitization organized by EEI, Anand and NAU, Navsari on 26 th September 2014	J. J. Pastagia, J.V. Suthar, H. C. Parmar, P. D. Verma and D. N. Soni
9.	Knowledge management system and web designing for Agricultural Extension organized by NAU, Navsari on 25-27 November, 2014	J.V. Suthar and H. C. Parmar
10.	National Seminar on Revisiting Management Policies and Practice for Indigenous Livestock and Poultry Breeds as Eco-friendly Economic Produces held at Navsari Agricultural University, Navsari during 9-11 October, 2014.	P.D. Verma
11	ASCARD seminar on Strategy, Approaches and Preparedness of veterinarians in control of emerging and reemerging zoonosis at navsari on 4 th Jan., 2015	H. C. Parmar
12	National symposium on Impact of climate change on patho biology of disease of animals, poultry and fish at anand on 13-15 nov., 2014	H. C. Parmar
13.	Refresher course on participatory extension research and management organized by Department of Extension Education, College of Agriculture, MPUAT, 2-22 December, 2014.	P.D. Verma

Meetings/ workshops attended

No.	Particulars	Attended by
1.	National initiative on climate resilient agriculture ICAR – DAC interface meeting on operationalization of district level Contingency plan in Gujarat at Mahatma Gandhi Labour Institute at Ahmedabad on 11.06.2014	J. J. Pastagia
2.	Krishi Mahotsav orientation programme on 21 st May, 2014	J. J. Pastagia, J. V. Suthar, H. C. Parmar, P.D. Verma and S.K.Chawda
3.	Annual Zonal Workshop of Zone VI at SDAU, Dantiwada during 24-26 May,2014.	J. J. Pastagia
4.	Meeting of Seed Production at NAU, Navsari on 14.06.2014 with Hon. Vice Chancellor	J. V. Suthar
5.	Protection of plant varieties and farmers' right meeting at Navsari on 27.06.2014	J. J .Pastagia, J.V. Suthar and H.C. Parmar
6.	Meeting of watershed project monitoring and evaluation at Gandhinagar on 16 th September, 2014	J. J. Pastagia
7.	Meeting at Ambuja Cement Foundation, Magdalla at 26 th September, 2014	S. K. Chawda
8.	Workshop on Protection of plant varieties and farmers' right meeting on 8 th October, 2014 at AAU, Anand	J. J. Pastagia
9.	Rabi ZREAC meeting on 7 th October, 2014.	J. J. Pastagia, P. D. Verma and H.C. Parmar
10.	Jury member in the competition of district level National Children's Science Congress – Department of Science and Technology, GOI and supported by Government of Gujarat on 20 th November, 2014.	J.V.Suthar
11.	Ravi Krushi Mahotsav meeting at Collector Office, Surat on 8 th December, 2014	J. V. Suthar
12.	Board of Studies meeting of NRM group meeting, 9 th December, 2014.	J. V. Suthar
13.	Meeting at Ambuja Cement Foundation, Magdalla at 11 th December, 2014	D. N. Soni
14.	Awareness programme on commodity futures market to bankers, retailers, producers and NGOs on 23 rd December, 2014 organised by NABARD at Surat.	J. V. Suthar
15.	Workshop on Annual Action Plan of KVKs Zone VI on 24-25 December, 2014.	J. J. Pastagia
16.	RKVY, NFSM and NHM meetings at District Panchayat, Surat on 8 th January, 2015	J. V. Suthar
17.	Kharif ZREAC meeting on 3 rd February, 2015	J. J. Pastagia, P. D. Verma and H.C. Parmar
18.	Board of study meeting of social science group on 3rd February, 2015	P.D. Verma and D.N. Soni
19.	Board of Studies meeting of Plant Protection on 5th January, 2015	J.J. Pastagia and S. K. Chawda

TV Talk

1.	Dr. S.K.Chawda Live TV programme on Bij janya rog niyantranma b ij mavjat no falo at BISAG channel, Gandhinagar on 2 nd June, 2014
2.	Dr. H.C.Parmar , TV talk on Padi/vachhardi no vaigyanik padhdhati thi uchher on doordarshan in krushi darshan programme.

Radio talk:

1.	Dr. J. J. Pastagia Radio talk on Madhmakhi Uccher On Daman Akashvani Radio recorded on 4.02.2015
2.	Dr. J. J. Pastagia Radio talk on Bee Keeping On Daman Akashvani Radio recorded on 13.03.2015

3.2.5 Awards/ recognition

1.	Soni A. N., Pandya C. D. and Soni D. N. (2014). Drudgery reduction in tribal farm women through NAVEEN Sickle. A paper presented and awarded First prize in National seminar on “ Women Empowerment diring XII Five year plan through Agricultural Mechanization” organized by Department of Extension Education and Communication Management, College of Home Science, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur (U. P.) on 24-25 December, 2014.
2.	Chavda H. H. and Soni D. N. (2014). “ <i>Talim Dhwarra Khedut Mahilaonu Sashaktikaran</i> ”. Awarded First prize in subject of Extension, Agriculture Economics, IT and MBA published in “ <i>Krishigovidhya</i> ” magazine AAU, Anand during 2009-10.
3.	Soni A. N. and Soni D. N. (2014). “ <i>Bal Aarogya Mate Soyabean no Upayog</i> ”. Awarded First prize in subject of Dairy, Food Processing and Home Science published in “ <i>Krishigovidhya</i> ” magazine AAU, Anand during 2010-11.
4.	Soni D. N. and Soni A. N. (2014). “ <i>Swasth Drashti Mate Vitamin - A</i> ”. Awarded Second prize in subject of Dairy, Food Processing and Home Science published in “ <i>Krishigovidhya</i> ” magazine AAU, Anand during 2011-12.

(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:

Title: Spine guard and Cowpea an innovative cropping system for small and marginal farmers in tribal areas

Name of farmers: Shri Rajesh Thakor Patel **Village:** Tarkani

Age :45 **Education:** 12 **Size of Land holding:** 2.40 ha

Area under crop: 0.24 ha **Comparison:** 1 ha.

Year	2013-14	
Crops	Spineguard and Cow pea	
Variety	Gomti in drip irrigation	
Cost items	Physical Unit	Value in Rs.
Preparatory Tillage	Poll and wire structure and tillage ridge and furrow etc	25000 (125000/ha) average life 5 years
Seeds (Kg)	Cutting for Spine guard	41667
	cowpea	1042
Fertilizers	FYM, Vermi and chemicals	20833
Sowing cost	Cutting for Spine guard	8333
	cowpea	1000
Plant protection	Pesticides etc	12500
Irrigation	10 days interval	12500
Weed management	Manually	8333
Pollination	Manually in spine guard	25000
Harvesting / Picking	Manually	33333
		20853
	Total	210394
Miscellaneous	10%	21039
Total cost		231433
Production:	spine guard 8.33 ton	416500
	Cow pea (Green)7.28 ton	291666
	Total Income (Rs./ha)	708166
	Total benefit	476733
	BC ratio	1: 3.05

Benefits and limitations of the system:

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

Case study: II

Title: Pointed guard farming - A boon to Marginal and small farmers

Name of farmers: Shri Vimal Thakor Patel **Village:** Tarkani

Age : 46 **Education:** 8 **Size of Land holding:** 1.0 ha

Area under crop: 0.48 ha **Comparison per ha.**

Year	2013-14
Crops	Pointed guard in drip irrigation
Variety	kalkati and Local

Cost items	Physical Unit	Value in Rs.
Preparatory Tillage	Poll and wire structure and tillage ridge and furrow etc	25000 (125000/ha) average life 5 years
Seeds (Kg)	Cutting	6250
Fertilizers	FYM, Vermi and chemicals	33333
Sowing cost	Cutting	4000
Plant protection	Pesticides etc	12500
Irrigation	10 days interval	12500
Weed management	Manually	12500
Harvesting / Picking	Manually	70000
		176083
Miscellaneous	10% of total cost	17608
	Total cost	193691
Production:	Pointed guard 17.61 ton	
	Total Income (Rs./ha)	616666
	Total benefit	422975
	BC ratio	1: 3.18

Benefits and limitations of the system

1. Highly remunerative
2. Improve soil fertility.
3. Gave higher yield as compare paddy
4. Incidence of insect pest is lees.
5. Less labor problem to perform the regular operations.
6. High risk in rainy season and high temprature

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

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.	Sock 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.	
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 :

Title: Impact of FLDs on knowledge and adoption of improved paddy production technology

- Objectives:**
1. To study the selected profile of the respondents
 2. To measure the Knowledge and adoption of improved paddy production technology by beneficiaries and non beneficiaries.
 3. To know the factors responsible for extent of variation by using proper statistical techniques.

Methodology:

Present study was conducted in three tribal dominated talukas of Surat district. Total 8 villages were selected where FLDs on paddy were organized by the KVK during Kharif 2012 and 2013. Thus, the study will be confined to 8 villages only. Out of 8 selected villages, total 120 framers were selected from each group ie FLDs and non FLds group (60 from each) by using random sampling technique. Knowledge and adoption were measure with 0 and 1 score. The obtained score one of a particular practice was given for knowledge and adoption and zero for no knowledge and non- adoption of a particular technology respectively. These mean scores were again converted in to percentage for all the selected 13 improved practice. The

information was collected through personal interview methods with the help of well structured schedule. The statistical tools like Z test, correlation, regression were used to interpret the result.

Major Findings:

Abbreviations' (NBF- Non Beneficiaries farmers BF: Beneficiaries farmers)

Majority of the respondents (Table 1.) were belonged to middle to old age group(77.33%) and 86.67 per cent, educate up to primary and secondary level (70.00%) and 86.67% , marginal to small land holding(85.00%) and 86.67, more than 25% land were under irrigation in NBF and BF group respectively . The respondents under NBF group were very less ie. 18.33 in case of training to acquire the proper skill. However in BF group all the respondents were provided the training by the KVK. In case of , knowledge and adoption 80.00 and 93.33 per cent respondents from NBF group having low to medium level of knowledge and adoption. However, in case of BF group the knowledge and adoption level was medium to high ie 96.97 and 85.00 per cent. Same trend was observed in case of yield. The average yield was 2707 kg/ha in case of NBF group and 3579 Kg/ha clearly showed the superiority of improved technology demonstrated through FLDs.

Table 1. Distribution of NBF and BF respondents as per their characteristics(n=60+60)

Sr No.	Particular/category	NBF	BF
		Frequency and %	Frequency and %
1.	Age: 1. up to 35 years 2.35-50 >50 years	13-(21.67%) 27(45.00%) 20(33.33%)	8(13.33%) 16(26.67%) 36(60.00%)
2.	Education: 1.Illiterate 2.Primary 3.9-12 std 4.>12 std	12(20.00%) 25(41.67%) 17(28.33%) 6(10.00%)	7(11.67%) 34(56.67%) 18(30.00%) 1(1.66%)
3.	Size of land holding 1 marginal 2 Small 3. Medium 4.Large	31(51.67%) 20(33.33%) 7(11.67%) 2(3.33%)	36(60.00%) 16(26.67%) 5(8.33%) 3(5.00%)
4.	% Irrigated land 1.un-irrigated 2.25%area under irrig. 3.>25 to 50 % 4.>50 %	14(22.34%) 3(5.00%) 20(33.33%) 23(38.33%)	11(18.33%) 2(3.33%) 17(28.34%) 30(50.00%)

5.	Training: Trained Untrained	11(18.33) 49(81.67)	All were trained
6.	Knowledge: 1.Low(Up to 3 score) 2.Medium(>3 to 8) 3.High>8	Mean-5.78 SD-2.63 11(18.33%) 37(61.67%) 12(20.00%)	Mean 10.26 SD--0.86 < 10 score: 2(3.33%) 10 to<12: 28(46.67%) > 12 : 30(50.00%)
7.	Adoption: 1.Low(Up to 1 score) 2.Medium(>1 to 4) 3.High>4	Mean-2.13 SD-1.37 24(40.00%) 32(53.33%) 4(6.67%)	Mean 5.30 SD-1.69 < 4 score: 9(15.00%) >4 to7: 44(73.33%) > 7 : 7(11.67%)
8.	Yield: kg/ha 1.Low(<1757 kg) 2.Medium(>1757 to3650) 3.High>3650	Mean-2706 SD-944 17(28.33%) 33(55.00%) 10(16.67%)	Mean 3579 SD-9.33 < 2647: 12(20.00%) >2647 to4512: 44(73.33%) > 4512 : 4(6.67%)

An attempt was also made to know the practice wise extent of Knowledge and adoption among the NBF and BF group Table2.

Table 2.Level of knowledge, adoption and yield between NBF and BF group of paddy growers (60+60=120)

Sr. No.	Practices	Knowledge		Mean Difference	Adoption		Mean Difference
		NBF	BF		NBF	BF	
1	Soil Testing	4.10	6.53	2.43	0	0	0
2	Variety	5.77	7.69	1.92	1.5	4.10	2.6
3	Seed Rate	2.69	6.67	3.98	0.89	5.13	4.24
4	Seed Treatment	0.64	5.90	5.26	0.13	3.72	3.59
5	Nursery	5.77	7.69	1.92	1.92	5.26	3.34
6	Sowing Method	1.28	6.79	5.51	0.26	5.77	5.51
7	Time of Transplanting	3.58	7.69	4.11	0.76	5.77	5.01
8	FYM	6.15	7.69	1.54	4.23	7.69	3.46
9	Bio Fertilizer	0.38	5.64	5.26	0	1.41	1.41
10	Chemical Fertilizers	0.89	5.90	5.01	0	3.21	3.21
11	Weed Management	7.69	7.69	0	7.69	7.69	0
12	Sup. Irrigation	3.72	7.69	3.97	6.15	6.89	0.74
13	Plant Protection	1.79	3.46	1.67	0	2.44	2.44
Total :----		44.15	87.03	42.88	24.27	58.34	34.07
Z Value		3.6062**			3.9414**		
Yield Kg/ha		2707 NBF			3579 BF		911(yield gap24.36 %)

The results indicated that out of 13 selected improved practices the average knowledge (44.45%) and Adoption was 24.27% only in case of NBF. However, the average knowledge and adoption was significantly very high. The overall adoption of improved technology in case of NBF clearly showed the poor level of adoption of paddy production technology.

The association (Table 3-6) between yield and independent variables namely age, education, size of land holding, irrigated land, training, knowledge and adoption were selected

for the study. The knowledge and adoption were significantly associated with the yield as well as the contribution of all the selected variables was only 43.01 per cent. Where as in BF group irrigated land and adoption were associated significantly and the contribution of all selected variables was 61.29 % clearly showed the importance of FLDs conducted by the KVK.

Table: 3. Correlation coefficient between yield of paddy and independent variables (NBF group) n-60

Sr No.	Independent variables	r- Value
1	Age	-0.0539
2	Education	0.1772
3	Size of land holding	-0.1465
4	Irrigation land in %	-0.0027
5	Training	0.0850
6	Knowledge	0.5582**
7	Adoption	0.5704**

Table:4. Multiple regression analysis between yield of paddy and independent variables (N BF group) n-60

Sr No.	Independent variables	Regression coefficient- Value	t, value
1	Age	2.6308	0.352
2	Education	11.1869	0.487
3	Size of land holding	-17.7394	0.184
4	Irrigation land in %	-6.9091	2.343
5	Training	-593.6518	1.841
6	Knowledge	-72.5274	1.193
7	Adoption	613.55137	4.952
	R² =0.4301(43.01 %)		

Table5.: Correlation coefficient between yield of paddy and independent variables (BF group) n-60

Sr. No.	Independent variables	r- Value
1	Age	0.0603
2	Education	0.2104
3	Size of land holding	-0.0154
4	Irrigation land in %	0.5592**
5	Knowledge	0.0774
6	Adoption	0.6895 **

Table6.: Multiple regression analysis between yield of paddy and independent variables (BF group) n-60

Sr No.	Independent variables	Regression coefficient- Value	t, value
1	Age	0.9169	0.146
2	Education	39.84	1.869
3	Size of land holding	-125.26	-1.448
4	Irrigation land in %	8.47	3.383
5	Knowledge	30.40	0.297
6	Adoption	304.11	5.692
	R² =0.6129 (61.29 %)		

Conclusion: It is further concluded that the knowledge and adoption level of BF group was very high as compare to NBF group. There was 24.36% yield gap was observed in case of NBF which clearly showed the positive impact of front line demonstrations. Therefore, demonstration should be organized where the technology adoption is very poor, which will definitely be helpful to accelerate the rate of adoption of paddy production technology.

4.2. Cases of large scale adoption NIL

Sr. No	Crop/ Enterprise	Thematic Area	Large scale adoption (%) in adopted villages	
			Before KVK	After KVK

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

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	Govt. of Gujarat	Collaboration – Krishi Mahotsav, ATMA, RKVY, NFSCM,
9	NGOs	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, .
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	Watershed, Forest	Participation <ul style="list-style-type: none"> • Khedut Shibir/Mahila Shibir • Extension Activities • Training programmes
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5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies : NIL

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Strengthening of testing of universitys' technologies through farmers adptive trials Phase-ii	Sept-13	State govt.	400000
Development and strengthening of infrastructure facilities for production and distribution of quality seeds(Seed village programme)	June 2013	Govt of India	161000
AICCIP-Cotton(TSP)	April-14	AICCIP coimbatore	85000
ICAR seed project(TASP)	April-14	Central Govt.	50000
NFSM	April-14	Central Govt.	42000

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"> • Field visit , • Impact assessment of ATMA Activities Training programmes 	Technical Support through training etc	--

5.3 Give details of programmes implemented under National Horticultural Mission: -

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
NFSM	April-14	Central Govt.	42000

5.4 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): NIL

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	
Green gram	14-15/11-2014	25/4/2014	0.7	CO-4	Seed	80	5249	8000	
Greengram	12-14/2/2014	20/5/2014	1.05	Meha	Seed	108	12414	10800	Failed due to water scarcity
Soybean			2.00	JS-335	Seed	2550	22046	17850	Failed due to water logged condition

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 2014-15 (in Rs.)

SN	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	4800000	4800000	4652843
2	Traveling allowances	50000	50000	145303
3	Contingencies	400000	400000	985011
TOTAL (A)		5250000	5250000	5783157
				(-) 533157

That Grant has been Adjusted from the Revolving Fund of KVK			
B. Non-Recurring Contingencies			
TOTAL (B)	-	-	-
C. REVOLVING FUND	1,00,000	1,00,000	1,00,000*
GRAND TOTAL (A+B+C)	5350000	5350000	2791974

N.B.: The amount of Revolving fund Rs. 100000 (Rs. One lakh) has been transferred to NAU KVK Revolving fund account.

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	56768	268128	225053	99843
April 2014 to March 2015	99,843	7,91,155	779335	111663

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

No Fund is released by council.

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

No Fund is released by council.

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

No Fund is released by council.

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

8.1 Constraints

- (a) **Administrative**
- (b) **Financial:** Urgent need for development of Infrastructure
- (c) **Technical**

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/km2	1,376	968
Proportion to Gujarat Population	10.07%	8.44%

2. Agricultural and allied census

1. Livestock and poultry population in the Surat district

Cattle	213107
Buffaloes	219243
Indigenous cow	213107
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

2. 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 trichocard	-	NBAIL, Bangalore	NBAIL, Bangalore
4	Paddy	Insecticide resistant Trichocard	--	NBAIL, Bangalore	NBAIL, 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 on Paddy straw	Animal Husbandry	--	Nutrition Department Anand Agri. Uni. Anand	Live stock 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

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 participangs		
							M	F	T	M	F	T	M	F	T
Plant Protection															
05/03/2014	P. F.	IPDM in Ground nut	Plant Protection	IPDM	1	ON	50	0	50	0	0	0	50	0	50
26/08/2014	P. F.	IPDM in Mango	Plant Protection	IPDM	1	ON	36	14	50	0	0	0	36	14	50
20/09/2014	P. F.	Use of Biofertilizers and Biopesticides	Plant Protection	IPDM	1	ON	0	0	0	44	4	48	44	4	48
14/11/2014	P. F.	Store grain pest and their management	Plant Protection	IPDM	1	ON	0	53	53	0	0	0	0	53	53
29/11/2014	P. F.	IPDM of sugarcane and brinjal	Plant Protection	IPDM	1	ON	43	42	85	0	0	0	43	42	85
17/01/2015	P. F.	Organic farming in sugarcane	Plant Protection	IPDM	1	ON	0	0	0	73	3	76	73	3	76
24/07/2014	P. F.	IPDM on Kharif Crops	Plant Protection	IPDM	1	ON	40	38	78	0	0	0	40	38	78
01/03/2014	P. F.	Disease Management In Ground Nut	Plant Protection	IPDM	1	OFF	32	20	52	0	0	0	32	20	52
24/06/2014	P. F.	IPDM In Banana	Plant Protection	IPDM	1	OFF	0	0	0	25	0	25	25	0	25
10/07/2014	P. F.	IPDM in Vegetables	Plant Protection	IPDM	1	OFF	25	0	25	0	0	0	25	0	25
22/07/2014	P. F.	IPDM in Pigeon pea	Plant Protection	IPDM	1	OFF	29	2	31	0	0	0	29	2	31
28/07/2014	P. F.	IPDM in Udadbean	Plant Protection	IPDM	1	OFF	21	0	21	0	0	0	21	0	21
14/08/2014	P. F.	IPDM in parvar	Plant	IPDM	1	OFF	0	0	0	25	0	25	25	0	25

			Protection												
21/11/2014	P. F.	Disease Of Sugarcane And their Management	Plant Protection	IPDM	1	OFF	0	0	0	9	16	25	9	16	25
20/08/2014	P. F.	Grain discolouration In Paddy	Plant Protection	IPDM	1	OFF	15	0	15	0	0	0	15	0	15
06/12/2014	P. F.	IPDM in Brinjal and other Vegetables	Plant Protection	IPDM	1	OFF	3	13	16	0	0	0	3	13	16
16/12/2014	P. F.	IPDM in okra and Sugarcane	Plant Protection	IPDM	1	OFF	17	0	17	0	0	0	17	0	17
21/02/2015	P. F.	Scientific cultivation of Mushroom	Plant Protection	IPDM	1	OFF	0	0	0	21	5	26	21	5	26
18/03/2015	P. F.	IPDM mango	Plant Protection	IPDM	1	OFF	15	0	15	0	0	0	15	0	15
Crop production															
19/05/14	R. Y.	Scientific Cultivation of <i>khari</i> crops	Crop production	ICM	1	ON	0	0	0	30	0	30	30	0	30
7/06/14	P. F.	DAPOG method of rice nursery for mechanical transplanting	Crop production	Nursery Management	1	ON	0	0	0	58	8	66	58	8	66
22/08/14	P. F.	Scientific Cultivation of Sugarcane	Crop production	ICM	1	ON	70	0	70	0	0	0	70	0	70
22/08/14	P. F.	Scientific Cultivation of Sugarcane	Crop production	ICM	1	ON	70	0	70	0	0	0	70	0	70
18/09/14	P. F.	Production and use of organic inputs in agriculture	Crop production	SFM	1	ON	41	1	42	0	0	0	41	1	42
18/10/14	P. F.	Production and use of organic inputs in agriculture	Crop production	SFM	1	ON	80	11	91	0	0	0	80	11	91
15/11/14	P. F.	Different method of composting	Crop production	Organic Inputs	1	ON	57	1	58	20	0	20	77	1	78
20/12/14	P. F.	Vermicompost	Crop	Organic Inputs	1	ON	98	2	100	0	0	0	98	2	100

			production												
27/02/15	P. F.	Scientific Cultivation of Summer crops	Crop production	ICM	1	ON	31	0	31	0	0	0	31	0	31
22/05/14	P. F.	Water harvesting and conservation of water in rainfed area	Crop production	Water Management	1	OFF	0	0	0	18	0	18	18	0	18
31/05/14	P. F.	Scientific Cultivation of Paddy	Crop production	ICM	1	OFF	0	0	0	20	0	20	20	0	20
26/06/14	P. F.	SIRA methods of cultivation in Rice	Crop production	ICM	1	OFF	0	0	0	17	18	35	17	18	35
17/07/14	P. F.	Scientific Cultivation of <i>Kharif</i> crops	Crop production	ICM	1	OFF	0	0	0	1	21	22	1	21	22
19/07/14	P. F.	Weed Management in <i>Kharif</i> crops	Crop production	ICM	1	OFF	0	0	0	27	1	28	27	1	28
1/10/2014	P. F.	Integrated Nutrient Management in Cotton	Crop production	ICM	1	OFF	0	0	0	54	5	59	54	5	59
18/11/14	P. F.	Scientific cultivation of early <i>Rabi</i> crops	Crop production	ICM	1	OFF	16	5	21	0	0	0	16	5	21
24/11/14	P. F.	Nursery Management and scientific cultivation of summer rice	Crop production	ICM	1	OFF	23	0	23	0	0	0	23	0	23
29/11/14	R. Y.	Drip Irrigation	Crop production	Water Management	1	OFF	2	0	2	40	1	41	42	1	43
6/2/14	P. F.	Scientific cultivation of summer crops	Crop production	ICM	1	OFF	0	0	0	29	3	32	29	3	32
7/02/15	P. F.	Scientific cultivation of fodder crops	Crop production	Fodder production	1	OFF	0	0	0	29	6	35	29	6	35
13/02/15	P. F.	Scientific cultivation of fodder crops	Crop production	Fodder production	1	OFF	0	0	0	21	2	23	21	2	23
HORTICULTURE															
25/6/2014	P. F.	Scientific Cultivation of Banana	Horticulture	Production of low volume and high value crops	1	OFF	0	0	0	25	0	25	25	0	25
10-02-2015	P. F.	Kitchen gardening	Plant Protection	Malnutrition	1	OFF	0	0	0	0	66	66	0	66	66

29-03-2015	P. F.	Terrace gardening	Plant Protection	Malnutrition	1	OFF	0	0	0	60	6	66	60	6	66
Animal Husbandry															
21/06/2014	P. F.	Care & management in Dairy animals after calving	Animal Husbandry	Animal Breeding	1	ON	0	0	0	32	14	46	32	14	46
13/3/115	P. F.	Feed and Fodder management in Dairy animals	Animal Husbandry	Feed and Fodder Management	1	ON	0	0	0	24	12	36	24	12	36
1/7/14	P. F.	Care and Management of Dairy Animals	Animal Husbandry	Disease Management	1	OFF	0	0	0	46	13	59	46	13	59
10/7/14	W.F.	Care & management in pregnant animals	Animal Husbandry	Dairy Management	1	OFF	0	0	0	19	15	34	19	15	59
19/8/14	P.F.	Care and Management of Dairy Animals	Animal Husbandry	Disease Management	1	OFF	0	0	0	2	33	35	2	33	35
12/9/2014	W. F.	Care and Management of Pregnant and dry animals	Animal Husbandry	Disease Management	1	OFF	0	0	0	28	19	47	28	19	47
1/10/2014	P. F.	Importance of Mineral mixture in repeat breeding	Animal Husbandry	Animal Breeding	1	OFF	0	0	0	10	14	24	10	14	24
30/10/2014	P. F.	Management of Pregnant dairy animals	Animal Husbandry	Dairy management	1	OFF	0	0	0	8	32	40	8	32	40
1/11/2014	P. F.	Care and Management of Pregnant and dry animals	Animal Husbandry	Disease Management	1	OFF	0	0	0	16	14	30	16	14	30
17/11/2014	P. F.	De worming and vaccination	Animal Husbandry	Disease Management	1	OFF	28	24	52	0	0	0	28	24	52
28/11/2014	P. F.	Management of calf rearing	Animal Husbandry	Production of quality animals	1	OFF	13	69	82	0	0	0	13	69	82
4/12/2014	P. F.	Clean milk production	Animal Husbandry	Dairy Management	1	OFF	0	0	0	1	16	17	1	16	17
9/12/2014	P. F.	Importance of green	Animal	Feed and Fodder	1	OFF	0	0	0	7	7	14	7	7	17

		fodder in dairy animals	Husbandry	Management											
10/12/2014	P. F.	Importance of green fodder in dairy animals	Animal Husbandry	Feed and Fodder Management	1	OFF	0	0	0	6	4	10	6	4	10
26/12/2014	P. F.	Management of calf rearing	Animal Husbandry	Production of quality animals	1	OFF	0	0	0	14	2	16	14	2	16
5/1/2015	P. F.	De worming and vaccination	Animal Husbandry	Disease Management	1	OFF	0	0	0	12	2	14	12	2	14
28/2/2014	W.F.	Care & management in pregnant animals	Animal Husbandry	Dairy Management	1	OFF	0	0	0	32	16	48	32	16	48
20/5/2014	RY	Clean milk production	Animal Husbandry	Dairy Management	1	OFF (SP)	41	3	44	0	0	0	41	3	44
20/8/2014	PF	Importance of Mineral mixture in repeat breeding	Animal Husbandry	Animal Breeding	1	OFF (SP)	36	0	36	0	0	0	36	0	36
22/8/2014	PF	Management of calf rearing	Animal Husbandry	Production of quality animals	1	OFF (SP)	40	0	40	0	0	0	40	0	40
22/9/2014	RY	De worming and vaccination	Animal Husbandry	Disease Management	1	OFF (SP)	17	5	22	0	0	0	17	5	22
Home Science															
24/4/14	W.F.	Rodent control	Home Scienc	Health	1	ON	0	36	36	0	0	0	0	36	36
30/9/14	W.F.	Value addition in Soybean	Home Scienc	Value addition	1	ON	3	49	52	0	0	0	3	49	52
17/3/15	W.F.	Awareness on health programme	Home Science	leadership development	1	ON	0	20	20	0	0	0	0	20	20
13/5/14	W.F.	preparation of different types of pickles	Home Science	Value addition	1	OFF	0	30	30	0	0	0	0	30	30
12/6/14	W.F.	Low cost nutritional food available for children	Home Science	Malnutrition	1	OFF	0	0	0	0	37	37	0	37	37
9/7/14	W.F.	Value addition in papaya	Home Science	Value addition	1	OFF	0	0	0	0	17	17	0	17	17
14-17/14 (V)	W.F.	Fruits and Vegetables preservation	Home Science	Value addition	4	OFF	0	29	29	0	0	0	0	29	29

18/7/14	P.F.	Importance of SHGs(Sp)	Home Scienc	Group dynamics	1	OFF	0	0	0	12	21	33	12	21	33
21/7/14	W.F.	Balance diet for pregnant women	Home Scienc	Health management	1	OFF	0	0	0	0	19	19	0	19	19
22-24/7/14	W.F.	Value addition in fruits and vegetables(V)	Home Science	Value Addition	3	OFF	0	31	31	0	0	0	0	31	31
13/8/14	W.F.	Importance of soybean in our daily diet	Home Science	Health management	1	OFF	0	31	31	0	0	0	0	31	31
20/8/14	W.F.	Kitchen gardening	Home Scienc	Malnutrition	1	OFF	0	0	0	0	40	40	0	40	40
9/9/14	WF	Storage of food grains	Home Scienc	Value addition	1	OFF	0	0	0	0	30	30	0	30	30
11/9/14	WF	Malnutrition in women		Malnutrition	1	OFF	0	0	0	4	36	40	4	36	40
19/9/14	W.F.	Value addition in tomato (SP)	Home Scienc	Value addition	1	OFF	0	36	36	0	0	0	0	36	36
20/9/14	W.F.	Preparation of Spices and condiments (SP)	Home Scienc	Value addition	1	OFF	0	22	22	0	0	0	0	22	22
9/10/14	W.F.	Kitchen gardening	Home Scienc	Malnutrition	1	OFF	0	0	0	11	22	33	11	22	33
14/10/14	W.F.	Preparation of various snacks	Home Science	Value Addition	1	OFF	0	0	0	0	17	17	0	17	17
16/12/14	W.F.	Anemia and care	Home Scienc	Malnutrition	1	OFF	0	0	0	0	35	35	0	35	35
30/12/14	W.F.	Preservation of fruits and vegetables	Home Science	Value Addition	1	OFF	6	52	58	0	0	0	6	52	58
17/1/15	WF	Storage of food grains	Home Scienc	Value addition	1	OFF	0	0	0	0	21	21	0	21	21
19-23/1/15	W.F.	Value addition in fruits and vegetables(V)	Home Science	Value Addition	5	OFF	0	32	32	0	0	0	0	32	32
19-23/1/15	W.F.	Value addition in fruits and vegetables(V)	Home Science	Value Addition	4	OFF	0	21	21	0	0	0	0	21	21

Extension Education															
22/4/14	EF	How to organize FLDs and OFTs	Extension Education	Capacity Building	1	ON	5	0	5	13	5	18	18	5	23
1/9/201 to 7/9/2014	EF	Advances in Agriculture	Extension Education	Capacity Building	7	ON	0	0	0	18	5	23	18	5	23
19/11/2014	EF	Agricultural need assessment in Forest areas	Extension Education	Capacity Building	1	ON	4	0	4	26	6	32	30	6	36
25/06/2014	W.F.	Women entrepreneurship development	Extension Education	Income Generation	1	ON	0	0	0	0	36	36	0	36	36
2/7/2014	W.F.	Leadership development	Extension Education	Capacity Building	1	ON	0	39	39	0	0	0	0	39	39
15 -17/7-2014	W,F,	Income generation options for lively hood security	Extension Education	Income Generation	3	ON				0	50	52	0	50	52
24-27/7/2014	W,F,	Integrated farming system	Extension Education	Farming system	3	ON				0	51	51	0	51	51
25-27/8/2014	P.F.	Integrated farming system	Extension Education	Farming system	3	ON				42	0	42	42	0	42
28-30/10/14	P.F.	entrepreneurship development	Extension Education	Income Generation	3	ON				29	0	29	29	0	29
10-12/11/2014	P.F.	Integrated farming system	Extension Education	Farming system	3	ON				41	0	41	41	0	41
13-15/11/2014	W.F.	Income generation options for lively hood security	Extension Education	Income generation	3	ON				0	39	39	0	39	39
24-26/1/2015	P.F.	Integrated farming system	Extension Education	Farming system	3	ON	31	0	31	0	0	0	31	0	31
29/1/15	RY	Role of youth in agril development	Extension Education	group dynamics	1	ON				18	6	24	18	6	24
1/4/14	P.F.	Value addition through seed production	Extension Education	Value addition	1	OFF	0	0	0	13	10	23	13	10	23

20/6/14	P. F.	Banking Procedure with special reference to KCC	Extension Education	Credit availability	1	OFF	0	0	0	12	11	23	12	11	23
9/7/2014	P. F.	Banking Procedure with special difference to KCC	Extension Education	Credit availability	1	OFF	0	0	0	36	0	36	36	0	36
17/7/14	P. F.	Value addition through seed production	Extension Education	Value addition	1	OFF	0	0	0	18	4	22	18	4	22
19/7/14	P. F.	Use of ICT in Agricultural (S)	Extension Education	Information and communication technology	1	OFF	0	0	0	24	4	28	24	4	28
20/7/14	P. F.	entrepreneurship development	Extension Education	Income Generation	1	OFF				22	5	27	22	5	27
22/7/14	P. F.	Lively hood security options in tribal areas	Extension Education	Income generation	1	OFF				8	16	24	8	16	24
12/9/2014	P. F.	I Kishan Portal and JanDhan Sadharan Yozana	Extension Education	Rural development programmes	1	OFF				13	8	21	13	8	21
22/9/2014	P. F.	I Kishan Portal and JanDhan Sadharan Yozana	Extension Education	Rural development programmes	1	OFF				28	22	50	28	22	50
25/9/2014	P. F.	I Kishan Portal and JanDhan Sadharan Yozana	Extension Education	Rural development programmes	1	OFF				9	9	18	9	9	18
5/11/14	P. F.	I Kishan Portal and JanDhan Sadharan Yozana and UINI Web	Extension Education	Information and communication technology	1	OFF				66	14	80	66	14	80
1/1/15	WF	Marketing Strategy for Agricultural Produce	Extension Education	Marketing	1	OFF				1	25	26	1	25	26
30/1/15	P. F.	Value addition through seed production	Extension Education	Value addition	1	OFF	0	0	0	13	5	18	13	5	18
6/2/15	P. F.	Value addition through seed production	Extension Education	Value addition	1	OFF	0	0	0	11	5	16	11	5	16

Annexure -III

Proceeding of 3rd Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat held on 19/02/2015 at 10:00 a.m., KVK, Surat

The Third Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat was held at KVK, Surat on 19th February, 2015 to review the progress made by KVK during last year (1-4-2014 to 31-01-2015) and discuss the future action plan for the next year (April-2015 to March-2016). The meeting was inaugurated by Dr. C.J . Dangaria, 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 tribal.

Shri Anil Vsava Deputy Conservator of Forest, Forest Division, district Surat appreciated the technological backup provided by the KVK in the forest clusters.

Dr. G. R. Patel, Director of Extension Education, NAU, Navsari admired that even though this KVK is new one, the performance is overwhelming. He also emphasized to create awareness among the farmers about the importance of frontline demonstration. Besides, he suggested that Farmer led Extension approach should be followed to accelerate the adoption level of improved technologies.

Hon. Vice Chancellor and Chairman of SAC, Dr. C. J. Dangaria appreciated the tune of work made by the KVK team. He gave very positive remarks on convergence made by the KVK with other concern departments. He also focused that it is the high time to disseminate the eco friendly technologies among the farmers.

3.1 Approval of the minutes of Second Scientific Advisory Committee

The action taken report of the minutes of Second SAC meeting (Held on 10-2-2014) was presented before the house and it was approved by the Scientific Advisory Committee.

3.2 Progress made by KVK during April 2014 to January 2015

Programme Coordinator, KVK, NAU, Surat presented the report on progress made by KVK, for the period of April-2014 to January 2015. The committee was satisfied with the activities and achievements made by the KVK.

3.3 Action plan for the period of April-2015 to March-2016.

Discussion was made on the Action Plan for the period of April-2015 to March-2016 which was approved by the house. However, few suggestions were made by the house to strengthen the action plan.

3.3.1 Demonstrations: Following demonstrations were suggested :

A. Front Line Demonstrations:

- 1) Castor in Mangrol block
- 2) Salinity tolerant technologies in coastal area

B. Method Demonstrations:

- 1) DAPOG method of nursery raising in paddy to motivate the farmers for the use of paddy transplanter.
- 3.3.2 Trainings/field days :
- A) Fish rearing training with fisheries department
B) Number of Field day must be increased
- 3.3.3 Awareness programmes on:
- A) Promotion of vegetable cultivation in tribal area
B) Kitchen Gardening in tribal area to combat malnutrition.
- 3.3.4 Convergence with :
- A) MRS Faculty of Veer Narmad South Gujarat University with respect to advances in agriculture
B) NABARD for the formation of Farmers club
C) Irrigation Cooperatives of Mandavi to increase water use efficiency.

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 remained present in 3rd Scientific Advisory Committee meeting

1	Dr.C.J.Dangaria	Hon. Vice Chancellor, NAU, Navsari	Chairman
2	Dr.G.R.Patel	Director of Extension, NAU, Navsari	Member
3	Dr. Anil Chinchmalanpure	Head, CSSRI (ICAR), RRS, Bharuch	Member
4	Dr. J. D. Thanki	Professor and Head, Department of Agronomy, NMCA, NAU, Navsari	Member
5	Dr .R. L Leva	Representative Professor (Horticulture), GABI,NAU, Surat,	Member
6	Shri N. K. Gabani	Project Director ATMA, and Deputy Director (Agriculture) Surat	Member
7	Shri N. G Gamit	District officer of the line department – Agricultural, Surat	Member
8	Shri B. R. Patel	District officer of the line department – Horticulture, Surat	Member
9	Shri S .N. Shah	District officer of the line department – Irrigation Dept.(WALMI), Surat	Member
10	Dr. P S. Jagirwala	District officer of the line department – Animal Husbandry, Surat	Member
11	Shri Ramsingbhai Chaudhri	Progressive farmer, Village: Moritha, Taluka: Mandvi ,	Member
12	Lataben D. Patel	Progressive woman farmer, Village: Mandroi, Taluka: Olpad,	Member
13	Ramchandrabhai Patel	Agri-entrepreneur, Village: Bhatgam, Surat,	Member

14	Sharmilaben Chaudhri	Chairperson of women SHG Village: Gamtalav, Taluka: Mandvi	Member
15	Shri Anil Vasava	Deputy Conservator of Forest, Forest Division, Surat	Member
16	Shri Vilas P. Save	DDM, NABARD, Surat	Member
17	Smt. B. R. Patel	ASF, Fisheries Department, Surat	Member
18	Dr. T. K. S Rao	Representative Professor (LPM) Vanbandhu Veterinary College, NAU, Navsari	Member
19	Smt. Prajakta P.Rathod	Representative, Project Director, DWDU, Surat	Member
20	Dr. J. J. Pastagia	Programme Coordinator, KVK, Surat	Member Secretary
21	Dr. K. A. Patel	Research Scientist (Sorghum), Main Research Station Sorghum, Surat	Special Invitee
22	Dr. B. G. Solanki	Research Scientist (Cotton), Main Research Station Cotton, Surat	Special Invitee
23	Shri Ramkumar Singh	Director and Managing Trustee, Suruchi Sikshan Vasahat, Bardoli	Special Invitee
24	Shri Chhaganbhai Patel	Project Director, Ambuja Foundation, Surat	Special Invitee
25	Dr. Vipul Somani	Professor and Head, MRS Department, Veer Narmad South Gujarat University, Surat	Special Invitee
26		All SMS, KVK, Surat	
List of absent member:			
1	Zonal Project Director or one of the scientist from ZPD, CAZARI, Jodhpur		Member

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