ANNUAL PROGRESS REPORT (April-2015-March-2016)

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of	Male	Female	Total
	Courses			participants
Farmers & farm women	83	1794	847	2641
Rural youths	2	28	34	62
Extension functionaries	3	25	59	84
Sponsored Training	13	226	161	387
Vocational Training	2	50	32	82
Total	103	2123	1133	3256

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	30	12	30
Pulses	514	50	514
Cereals	320	97	320
Vegetables	60	20	60
Other crops	110	44	110
Hybrid crops (Cotton)	110	22	110
Total	1144	245	1144
Livestock & Fisheries	60	-	60
Other enterprises	-	-	-
Total	60	-	60
Grand Total	1204	245	1204

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	5	23	23
Livestock	2	20	20
Various enterprises	3	25	25
Total	10	68	68
Technology Refined			
Crops	0	0	0
Livestock	0	0	0
Various enterprises	0	0	0
Total	0	0	0
Grand Total	10	68	68

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	230	11309
Other extension activities	-	5288
Total	230	16597

5. Mobile Advisory Services

Name of	Message Type	Type of Messages						
KVK		Crop	Livestock	Weather	Marketing	Awar eness	Other enterprise	Total
Surat	Text only	1852	5868	1343	-	6277	-	15340
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
Total Mess	sages	4	1	1	-	4	-	10
Total farm	ers Benefitted	1852	5868	1343	-	6277	-	15340

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	21.25	57800
Planting material (No.)	-	-
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	250	-
Water	-	-
Plant	-	-
Total	-	-

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	2
2	Conferences	6
3	Meetings	10
4	Trainings for KVK officials	3
5	Visits of KVK officials	0
6	Book published	2
7	Training Manual	0
8	Book chapters	0

9	Research papers	7
10	Lead papers	
11	Seminar papers	4
12	Extension folder	3
13	Proceedings	3
14	Award & recognition	1
15	Ongoing research projects	7

DETAIL REPORT OF APR-2015-16

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

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

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

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: 2011-12

1.5. Staff Position (as on 31th March, 2016)

Sl. No.	Sanctioned post	Name of the incumbent	Designati on	Discipline	Pay Scale (Rs.)	Gra de Pay	Prese nt basic	Date of joining	Permanent /Temporar y	Category (SC/ST/OB C/	Mobile No.	Age	Email id
							(Rs.)			Others)			
1	Programme Coordinator	Dr. J. J. Pastagia	PC	Entomology	37400- 67000	9000	40240	03/3/2012	Temporary	OBC	9879038539	49	aayoj2000@yahoo.com
2	Subject Matter Specialist	Dr. P. D. Verma	SMS	Extension Education	15600- 39100	6000	22220	1/01/2013	Temporary	General	7575011107	54	drverma@nau.in
3	Subject Matter Specialist	Dr. H. C. Parmar	SMS	Veterinary Science	15600- 39100	6000	17610	2/4/2012	Temporary	OBC	9727743501	35	drhitesh@nau.in
4	Subject Matter Specialist	Dr. J.V. Suthar	SMS	Agronomy	15600- 39100	6000	15600	16/4/2013	Temporary	OBC	757501198	32	jvs2476@gmail.com
5	Subject Matter Specialist	Dr Bhavesh Patel	SMS	Horticulture	15600- 39100	6000	15600	12/8/2015	Temporary	General	9727768012	30	bhavu9697@yahoo.co.in
6	Subject Matter Specialist	Smt. Gita J. Bhimani	SMS	Home Science	15600- 39100	6000	19050	5/02/2016	Temporary	General	8511178903	41	gj2kvk@yahoo.com
7	Subject Matter Specialist	Dr. Sehul Chavda	SMS	Plant Pathology	15600- 39100	6000	15600	2/04/2013	Temporary	SC	998002502	32	sk_pathology@yahoo.com
8	Farm manager	Mr. A. T. Patel	Farm Manager		13700 Fix	00	00	12/7/2012	Temporary	OBC	9687614098	30	atp@nau.in
9	Computer Programmer	Mr. C.G.Lad	Comp. Prog.		13700 Fix			1/8/2015	Temporary	OBC	9979393220	28	cglad@nau.in
10	Prog. Assistant	Mr. Y.D.Patel	Training Assistant		13700 Fix			10/8/2015	Temporary	General	9586383403	28	ydpatel@nau.in
11	Accountant / Superintendent	Mr. K.N.Kothari	Acct. / Super.		9300- 34800	4200	15140	1/7/2015	Temporary	General	9725018775	55	knkothari@nau.in
12	Stenographer	J.M.Verma	Steno.		7800 Fix			19/8/2015	Temporary	General	9426760841	32	jmverma@nau.in
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:

A) Buildings

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Tata)	2012	599999	145568	Working
Tractor	2012	549900	1510.55(h)	Working

C) Equipments & AV aids

Name of the equipment	Year of	Cost (Rs.)	Present status
	purchase		
Cultivator	2012-13	22500	Working
Plough	2012-13	22500	Working
Lenovo Computer with printer- 4	2015-16	162816	Working
Canon printer- 4	2015-16	34704	Working
Canon Copier machine	2015-16	47565	Working
Multi- media projector-2	2015-16	103691	Working
DSLR Camera	2015-16	39555	Working
Digital camera	2015-16	10305	Working

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

Proceeding of 4th Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat held on 22/02/2016 at 10:00 a.m., KVK, Surat

The Fourth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat was held at KVK, Surat on 22 February, 2016 to review the progress made by KVK during last year (1-4-2015 to 31-01-2016) and discuss the future action plan for the next year (April-2016 to March-2017). 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 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 Gautam Niak Chief Conservator of Forest, Surat appreciated the technological backup provided by the KVK in tribal areas. Dr. G. R. Patel, Director of Extension Education, NAU, Navsari emphasized to accelerate adoption level of improved technologies through farmers participatory approach. Hon. Vice Chancellor and Chairman of SAC, Dr. C. J. Dangaria gave very positive remarks on convergence made by the KVK with other concern departments. He also focused that it is the high time to create the awareness about the organic farming among the farmers.

4.1 | Approval of the minutes of Third Scientific Advisory Committee

The action taken report of the minutes of Third SAC meeting (Held on 19-2-2015) was presented before the house and it was approved by the Scientific Advisory Committee.

4.2 Progress made by KVK during April 2015 to January 2016

Programme Coordinator, KVK, NAU, Surat presented the report on progress made by KVK, for the period of April-2015 to January 2016. The committee was satisfied with the activities and achievements made by the KVK.

4.3 Action plan for the period of April-2016 to March-2017.

Discussion was made on the Action Plan for the period of April-2016 to March-2017 which was approved by the house. However, few suggestions were made by the house to strengthen the action plan.

4.3.1 Demonstrations:

- 1) Too old (> ten years old) variety should not be taken in FLDs
- 2) Varieties/ hybrids released from other State Agricultural Universities should also be considered for FLDs
- 3) There is need to conduct FLDs on varieties/ hybrids of vegetable crops.

4.3.2 Awareness programmes on:

- A) Promotion of Organic farming in tribal area
- B) Seed availability of improved varieties.

The meeting was ended with vote of thanks by Dr. P. D. Verma, Scientist (Extension Education), KVK, NAU, Surat.

Sd/ Programme Coordinator Krishi Vigyan Kendra Athwa Farm, Surat Sd/ Vice – Chancellor and Chairman SAC Navsari Agril. University, Navsari

	Scientific Advisory Committee Date: 22.02.2016					
SN	Particulars of members remained present	Des	ignation			
1.	Hon. Vice Chancellor, NAU, Navsari	(Chairman			
2.	Director of Extension, NAU, Navsari		Member			
3.	Head, CSSRI (ICAR), RRS, Bharuch		Member			
4.	Professor and Head, Department of Agronomy, NMCA, NAU,		Member			
	Navsari					
5.	Professor (Horticulture), GABI,NAU, Surat,		Member			
6.	Project Director ATMA, and Deputy Director (Agriculture) Surat	-	Member			
7.	District officer of the line department – Agricultural, Surat	-	Member			
8.	District officer of the line department – Horticulture, Surat		Member			
9.	District officer of the line department – Irrigation Dept. (WALMI), Surat	-	Member			
10.	District officer of the line department – Animal Husbandry, Surat		Member			
11.						
12.	Progressive woman farmer, Village: Mandroi, Taluka: Olpad,		Member			
13.	Agri-entrepreneur, Village: Bhatgam, Surat,	-	Member			
14.	Chief Conservator of Forest, Surat	-	Member			
15.	DDM, NABARD, Surat		Member			
16.	Professor (LPM) Vanbandhu Veterinary College, NAU, Navsari	-	Member			
17.	Programme Coordinator, KVK, Surat		Member			
			Secretary			
18.	Representative Research Scientist (Sorghum), Main	Spe	cial Invitee			
	Research Station Sorghum, Surat					
19.	Research Scientist (Cotton), Main Research Station Cotton, Surat	_	cial Invitee			
20.	Director and Managing Trustee, Suruchi Sikshan Vasahat, Bardoli		cial Invitee			
21.	Project Director, Ambuja Foundation, Surat	_	cial Invitee			
22.						
23	All SMS, KVK, Surat					
	List of Absent members		l			
1.	Director, ATRI,, CAZARI, Jodhpur		Member			
2.	Assistant Deputy Director Fisheries, Surat		Member			
3.	Smt. Sharmilaben Chaudhri Chairperson of women SHG		Member			
	Village: Gamtalav, Taluka: Mandvi					

2. DETAILS OF DISTRICT (2015-16)

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

	Sr. No	Farming system/enterprise		
	1.	1. Crop production		
	2.	Crop production and Horticulture		
	3. Crop production and Livestock			
Ī	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	Crops	Features
		(mm)		
(AES-1)	Hilly and	< 1100	Paddy, Maize,	Highly erosive
Mandvi (30%),	highly		Cotton, Sorghum,	Shallow to medium in
Mangrol (40%),	undulating fine		Pulses	depth
Umarpada	texture, highly			Poor permeability
	erosive			Low to medium N & P
				content
(AES-2)	Leveled, deep,	> 1450	Sugarcane, Paddy,	Poor drainage
Bardoli,	fine textured		Sorghum, Pulses,	Water logging
Choryasi (75%),			Orchards	Very poor permeability
Kamrej,				Poor soil physical
Palasana,				condition
Surat and				Low to medium in N &
Mahuva				P content
(AES-3)	Deep to	1000 –	Sorghum, Pulses,	Moderate to severe
Mandvi (70%),	medium black	1250	Paddy, Cotton,	erosive
Mangrol (60%),			Oil Seeds	Poor soil fertility
Olpad (70%)				Poor irrigation facility
(AES-4)	Coastal plain,	900-	Paddy - Cotton,	High salt accumulation
Choryasi (25%),	deep, fine	1000	Sorghum, Pulses,	Poor soil physical
Olpad (30%)	texture, salt		Wheat	condition
	affected			High water table
				Water logging
				condition

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

Taluka (AES)	Soil texture	
(AES-1)	Hilly and highly undulating fine texture,	
Mandvi (30%), Mangrol (40%), Umarpada	highly erosive	
(AES-2)		
Bardoli, Choryasi (75%), Kamrej,	Leveled, deep, fine textured	
Palasana,,Surat and Mahuva		
(AES-3)	Deep to medium black	
Mandvi (70%), Mangrol (60%), Olpad(70%)	Deep to medium black	
(AES-4)	Coastal plain, deep, fine texture, salt	
Choryasi (25%), Olpad (30%)	affected	

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

Sr. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
Kharif				• . •
1	Paddy Irrigated	32907	113858	3460
2	Paddy rainfed	5701	9349	1640
3	Kh. Sorghum	11052	14091	1275
4	Kh. Maize	1245	1942	1560
5	Pigeon pea irrigated	916	1032	1127
	Pigeon pea- rainfed	9506	7224	760
6	Green gram	944	690	651
7	Urid	1587	415	658
8	Other pulses	347	183	530
9	Ground nut	530	816	1540
10	Sesame	26	11	435
11	Castor	30	50	1667
12	Cotton	2352	4515	1920
13	Soybean	9830	8620	877
14	Vegetables	31991	0	
15	Fodder	7164	0	
16	Green manuring	7616	0	-
	Total	123796	0	1
Rabi-s	ummer crops			
1	Paddy (Summer)	2732	12594	4610
2	Wheat	6305	24570	3942
3	Sorghum	6305	10863	1723
4	Maize	862	1873	2174
5	Bean	824	717	871
6	Pigeonpea	1085	1334	1230
	Greengram summer	2041	1353	663
	Gram	1453	1275	878
9	Groundnut Summer	409	889	2176
10	Sugarcane	84464	7816298	92540
	Castor	43	78	1823
	Mustard	79	93	1186
13	Fodder	2675		-
14	vegetables	9368	-	-
	Total	118911		Source: DAO Surat

Source: DAO,Surat 2.4.2 **Area, Production and Productivity of major fruit crops cultivated in the district**

2.4.2 Mea, 1 Toutelion and 1 Toutelivity of major if are crops editivated in the district							
Crop	Area (Ha.)	Production (MT)	Productivity (MT)				
Mango	8975	76288	8.50				
Sapota	2122	22387	10.55				
Lemon	75	592	7.89				
Banana	7497	509796	68.00				
Guava	52	598	11.50				
Pomegranate	35	333	9.50				
Papaya	615	35055	57.00				

Custard Apple	24	144	6
Coconut	224	18.8	8.40
Cashew	30	30	2.59

2.4.3 Area and Production of Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity(MT)
Brinjal	4915	93385	19.00
Onion	825	196365	23.80
Okra	10840	135500	12.50
Tomato	1645	37835	23.00
Cauliflower	1340	26800	20.00
Cabbage	820	15170	18.50
Others	11325	162442	14.34

2.4.4 Area and Production of Flower Crops in the district

Crop	Area(Ha.)	Production (MT)	Productivity(MT)
Rose	122	1205	9.8
Marigold	456	4553	9.90
Lily	122	1568	9.50
Other	184	1626	8.84

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

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Ginger	192	3298	17.00
Turmeric	180	3060	17.00
Fenugreek	82	123	1.50
Coriander	38	68	1.80
Others	26	24.7	0.95
Total:-	2358	20824.26	8.83

Source: DDH,Surat

2.5. Weather data (2015-16)

Month	Rainfall	Tempera	ture 0 C	Relative Humidity (%)		
	(mm)	Maximum	Minimum	Maximum	Minimum	
April 2015	19.4	35.8	27.3	83	60	
May 2015	0	38	29.9	79	62	
June 2015	270	33.5	28.7	77	72	
July 2015	135.2	32.5	29.2	84	79	
August 2015	27	32	28.6	88	75	
September 2015	174.4	32	27.4	90	77	
October 2015	0	36.4	26.6	79	62	
November 2015	0	34.9	23.7	82	69	
December 2015	0	32.8	18	70	61	
January 2016	0	32.1	18.4	71	62	
February 2016	0	33.1	21.4	70	48	
March 2016	0.7	35.1	23.8	72	58	

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

2.7 Details of Operational area / Villages (2015-16)

Sr. No.	Name of	No. and Name of	Identified Thrust areas	Identified Problems	Specific activities
	Cluster	villages in the Cluster			-
1	Mahuva	 Tarkanai Lasanpore Wagaldhara Kosh 	Increase productivity of major crops e.g. Paddy, sugarcane Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.	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	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.
			3.Management of natural resource, including salinity management 4. 5. Popularize eco-friendly crop production with special reference to IPDM & INM.	No technical knowhow regarding green house net house technology and crops Lack of technical knowhow about mango orchards plantation and management.	Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes
			6. Increasing milk production by dissemination of latest technologies.7 .Imparting skill oriented training to the tribal women for sustaining their livelihood.	3. High use of water in canal command area and water scarcity in hilly area -Lack of knowledge about	Training and demonstrations on INM and IPDM in different crops
				Insect pests and diseases and their management and nutrient management in	Training and demonstrations on scientific calf rearing, feeding

			8. Promotion of small scale farm mechanization in tribal area.	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. Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management Lack of knowleged of small scale agricultural base enterprises, value addition etc. Drudgery reduction through improved hand tools.	mineral mixture and Popularize Fodder crops and feeds and fodder management Training on value addition and income generating activity Demonstrations on use of improved sickles and other hand tools.
2	Mandvi	Rakaskhadi Latgam	Increase productivity of	1.The productivity of crop is very low due to lack of	Training and demonstrations on new variety of rice and sugarcane.
		3. Katkuva	major crops e.g. Paddy,	technical knowhow	Demonstration on intercropping in
			sugarcane, Soybean	regarding its scientific cultivation	sugarcane
			2. Dissemination of production		A
			technology of fruits and	2. Brinjal and okra are	Awareness programmes on protected cultivation on low cost
			vegetables and their post	important crops but the	net house and green house.
			harvest management as well	productivity is very low,	
			promotion of precision	problem of insect pests and disease	

farming. 3.Management of natural resource, including salinity management 4. 5. Popularize eco-friendly crop production with special reference to IPDM & INM. 6. Increasing milk production	No technical know how regarding green house net house technology and crops Lack of technical know how about mango orchards plantation and management. 3. High use of water in canal command area and water scarcity in hilly area	Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Training and demonstrations on INM and IPDM in different crops
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.	-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 Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management	Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management Training on value addition and income generating activity Demonstrations on use of improved sickles and other hand tools.

				Lack of knowleged of small scale agricultural base enterprises, value addition etc. Drudgery reduction through improved hand tools.	
3	Umarpada	 Kadvali Venjali Umargot 	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. 6. Increasing milk production by dissemination of latest technologies.	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	Training and demonstrations on new variety of Paddy, cotton, sorghum, pegion 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

			7 .Imparting skill oriented training to the tribal women for sustaining their livelihood. 8. Promotion of small scale farm mechanization in tribal	-Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy vegetables etc, No use of bio fertilizers	Training and demonstrations on INM and IPDM in different crops
			area.	Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management Large no of non descript	Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management
				animals Lack of knowledge of small scale agricultural base enterprises, value addition etc.	Training on value addition and income generating activity
				Drudgery reduction through improved hand tools.	Demonstrations on use of improved sickles and other hand tools.
4	Mangrol	 Pataldevi Mandan Godbar 	Increase productivity of major crops e.g. Paddy, cotton, sorghum Dissemination of production technology of fruits and	1. The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation 2. Okra, brinjal and creepers	Training and demonstrations on new variety of rice, pigeon pea, sorghum and cotton. Increase seed replacement ratio of these crops. Training programmers on package of practices of these vegetable crops. And precision farming.

	vegetables and their post	are crops but the	Awareness programmes on
	harvest management as well	productivity is very low,	protected cultivation on low cost
		problem of insect pests and	net house.
	promotion of precision	disease	
	farming.		Promotion of farm forestry through
	3.Management of natural	No technical knowhow	training and demonstrations
	resource, including salinity	regarding net house technology and crops	
	management		Training on drip irrigation to rural
	4. 5. Popularize eco-friendly	Lack of technical knowhow about plantation and	youth. Promotion of drip irrigation
	crop production with special	management.	through awareness programmes
	reference to IPDM & INM.	3. Water scarcity in hilly	Popularizing water conservation technologies for rain fed farming
	6. Increasing milk production	area and rain fed farming	
	by dissemination of latest		
	technologies.		
	7 .Imparting skill oriented	-Lack of knowledge about Insect pests and diseases	Training and demonstrations on INM and IPDM in different crops
	training to the tribal women	and their management and	
	for sustaining their livelihood.	nutrient management in crops like paddy sugar cane,	
	8. Promotion of small scale	okra, creepers etc,	
	farm mechanization in tribal	Injudicious use of fertilizers	Training and demonstrations on
	area.	and pesticides -High incidence of wilt and	scientific calf rearing, feeding mineral mixture and
		parval vine borer in pointed	Popularize Fodder crops and feeds
		gourd.	and fodder management
		Low milk productivity	
		-High calf mortality -Problem of anoestrus	Training on value addition and
		-Lack of awareness about	income generating activity

				Feeds and fodder management Lack of knowledge of small scale agricultural base enterprises, value addition etc. Drudgery reduction through improved hand tools.	Demonstrations on use of improved sickles and other hand tools.
5	Olpad	1. Mandroi	1. Increase productivity of	1. The productivity of crop is	Training and demonstrations on
		2. Bhatgam	major crops e.g. Paddy,	very low due to lack of technical knowhow	new variety of rice and sugarcane. Demonstration on intercropping in
			sugarcane	regarding its scientific cultivation	sugarcane
			2.Dissemination of production	Cultivation	Training programmers on package
			technology of fruits and		of practices of these vegetable
			vegetables and their post	2. Okra and creepers are important crops but the	crops. And precision farming. Awareness programmes on
			harvest management as well	productivity is very low,	protected cultivation on net house
			promotion of precision	problem of insect pests and disease	and green house.
			farming.		
			3.Management of natural	No technical knowhow	
			resource, including salinity	regarding green house net	
			management	house technology and crops	Training on drip irrigation to rural youth.
			4. 5. Popularize eco-friendly	Lack of technical knowhow	Promotion of drip irrigation
			crop production with special	about fruit crops cultivation.	through awareness programmes Training and demonstration on
			reference to IPDM & INM.	3. High use of water in	drainage system to reduce salinity
			6. Increasing milk production	canal command area and salinity problem in coastal area	and salinity tolerant crops

			by dissemination of latest technologies. 7 .Imparting skill oriented training to the tribal women for sustaining their livelihood.	-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. Low milk productivity -High calf mortality -Problem of anoestrus -Lack of awareness about Feeds and fodder management Lack of knowleged of small scale agricultural base enterprises, value addition etc.	Training and demonstrations on INM and IPDM in different crops Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management Training on value addition and income generating activity
6	Kamrej	 Dhoranpardi Choryasi 	 Increase productivity of major crops e.g. sugarcane Dissemination of production 	1. The productivity of crop is very low due to lack of technical knowhow regarding its scientific	Training and demonstrations on new variety of sugarcane. Demonstration on intercropping in sugarcane
			technology of fruits and vegetables and their post	cultivation	Training programmers on package of practices of banana cultivation
			harvest management as well	2. Banana is an important crop but the problem of	Demonstration on quality improvement in banana.
			promotion of precision	insect pests and disease	•

farming. 3.Management of natural resource, including salinity management	No technical knowhow regarding green house net house technology and crops	Awareness programmes on protected cultivation on net house and green house.
4. 5. Popularize eco-friendly crop production with special reference to IPDM & INM.	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 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

2.8 **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 during 2015-16

	OFT (Technology Asses	ssment and Refi	nement)	FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)				
		1		2				
Num	ber of OFTs	Number of Farmers		Number of FLDs (ha)		Numb	er of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
10	10	30	30	120	245	446	1204	

Training (includ	- ·	vocational and othe ter Harvesting Uni	Extension Activities						
3						4			
Nun	Number of Courses				Number	of activities	Number of	Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
Farmers	63	98	1575	3110	75	230	3750	16597	
Rural youth	2	2	50	62					
Extn.	3	3	75	84					
Functionaries									
Total	68	103	1700	3256	75	230	3750	16597	

Seed Produ	ection (Qtl.)	Planting material (Nos.)		
	5	6		
Target	Achievement	Target	Achievement	
20.00	21.25	00	00	

B. Abstract of interventions undertaken

						Inter	ventions		
Sr. No	Thrust area	Crop/ Enterprise	Identified Problem	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 biofertilizers 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 farming	Banana Brinjal Pointed gourd Okra Mango Gerbera Green house/ net house technology High value crops	Use of local variety in brinjal Imbalance use of fertilizers in crops No use of biofertilizers No knowledge about post harvest management and processing Low technical know house regarding green house/ net		INM in brinjal	Value addition in Papaya Scientific cultivation of various crops Value addition in Palas and Bixa Scientific cultivation of crops Training on protected cultivation and precision farming		Khedut shibirs, News paper coverage, film show Exhibitions etc. Awareness programmes on net house/ green house	Demonstration on INM, IPDM

				Interventions					
Sr. No	Thrust area	Crop/ Enterprise	Identified Problem	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.
			house and production technology						
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 Biofungicides		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
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 biofertilizers		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,
5.	Management of natural resource, including salinity management	Paddy, Sugarcane, Soybean, Vegetables	In hilly area problem of water conservation In middle canal command area due to excess irrigation		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.	

						Inter	ventions		
Sr. No	Thrust area	Crop/ Enterprise	Identified Problem	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.
6.	Increasing milk	Animal	problems of water logging and salinity In coastal area salinity problem Poor dairy		Use of mineral mixture	Animal health		Pashu palan shibirs	Mineral Mineral
	production by dissemination of latest technologies.	husbandry	management Large number of non-descript animals with low milk production Poor availability of fodder in hilly area. Poor cultivation of fodder crops High calf mortality due to poor management		Urea treatment to paddy straw Teat dip treatment with KMNO ₄ Scientific calf rearing	and care Dairy management Animal diseases and their management Scientific calf rearing		Animal health camps, awareness programmes, Literature publication etc	mixture 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			Value addition in papaya by preparing jam and other products Preparation of		khedut shibirs, News paper coverage, film show Exhibitions etc	

				Interventions					
Sr. No	Thrust area	Crop/ Enterprise	Identified Problem	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.
			knowledge, skills regarding various small scale agricultural based enterprises			Preparation of syrup from Hibiscus 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,	

I.A TECHNOLOGY ASSESSMENT

Thematic areas	Crop	Name of the technology assessed	No. of trials	Name of KVK
Crop Assessment	Стор	Trume of the teemhology assessed	VI ICIS	22 / 22
Varietal Evaluation				
Seed / Plant				
production				
Weed Management				
Integrated Crop	Sugarcane		3	KVK Surat
Management		Effect of trimming operation in sugarcane yield		
Integrated Crop			5	KVK Surat
Management	Paddy	Assessment of aerobic rice in Olpad block of Surat District		
Integrated Nutrient			5	KVK Surat
Management	-	Validation of kitchen garden model developed by NAU		
Integrated Nutrient	Brinjal	Assessment of enrich banana sap for yield and quality of brinjal	5	KVK Surat
Management				
Integrated Farming				
System				
Mushroom				
cultivation				
Drudgery reduction				
Farm machineries				
Value addition				
Integrated Pest		Assessment of effective methodology for the management of Banana	5	KVK Surat
Management	Banana	Pseudo stem weevil		
Integrated Pest		Assessment of stem application method of insecticide for management of		KVK Surat
Management	Okra	sucking pest in okra	5	
Integrated Disease				
Management				
Resource				
conservation				

Small Scale income			
generating			
enterprises			
Crop Refinement			
Varietal Evaluation			
Seed / Plant			
production			
Weed Management			
Integrated Crop			
Management			
Integrated Nutrient			
Management			
Integrated Farming			
System			
Mushroom			
cultivation			
Integrated Pest			
Management			
Integrated Disease			
Management			
Resource			
conservation			
technology			
Small Scale income			
generating			
enterprises			
Livestock			
Assessment			
Evaluation of			
Breeds			
Nutrition		10	KVK Surat
Management	Use of chelated minerals in the diet of cross bred HF cows		

Nutrition		10	KVK Surat
Management	Nutritional enrichment in local "grass Fatedu"		
Disease of			
Management			
Value Addition			
Production and			
Management			
Feed and Fodder			
Small Scale income			
generating			
enterprises			
Livestock			
Refinement			
Nutrition			
Management			
Disease of			
Management			
Value Addition			
Production and			
Management			
Small Scale income			
generating			
enterprises			
Women &			
Children			
Nutrition	Response of adolescent girls to iron rich feed in relation to Hemoglobin	10	KVK Surat
Management	level		
Nutrition	Evaluation of Low cost high calorie diets made from locally available	10	KVK Surat
Management	food materials for		
	Pre-school children		

Crop Production:

1. Assessment of aerobic rice in Olpad block of Surat District

Crop	Variety	Farming situation	Title	No. of Farmers	Technology Assessed	Yield (Kg/ha)	% increase
Paddy	GNR -	Irrigated	Assessment of aerobic rice in Olpad block of Surat	5	T ₁ - Farmers method Broadcasting method of sowing	4126	-
			District		T ₂ - Transplanting	5470	32.57
					T ₃ - Aerobic method of rice cultivation	4760	15.37

2. Effect of trimming operation in sugarcane yield

Crop	Variety	Farming situation	Title	No. of Farmers	Technology Assessed	Yield (t/ha)	% increase
Sugarcane	-	Irrigated	Effect of	3	T ₁ - Farmers	92.60	_
			trimming		method (No		
			operation in		trimming with		
			sugarcane		Higher doses		
			yield		of fertilizer		
					350-200-200)		
					T ₂ -	98.20	6.05
					Recommended		
					practice (No		
					trimming with		
					recommended		
					dose 250-125-		
					125)		
					T ₃ - Trimming	125.00	34.99
					of first shoot		
					at 45 days		
					after planting		
					with		
					recommended		
					dose		

Crop Protection

Title: Assessment of effective methodology for the management of Banana Pseudo stem weevil

Crop	Variety	Farming situation	No. of Farmers	Technology Assessed	% Infestation	%Decrease over control	%Decrease over Farmers method	Yield (Kg/ha)	% increase
Banana	Gran naine	Irrigated	5	T ₁ - Stem injection with Triazophos (NRC on Banana)	0.95	65.18	36.73	709.59	-
				T ₂ - Longitudinal Split stem traps (25 traps/0.2 ha) swabbed with Beauveria (20 gm/trap)	1.73			688.39	25.18
				T ₃ - Farmers method (Control)	2.73			566.84	21.44

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

Treatments: T1. Stem application of Acetamaprid (4:1 Water: Insecticide) T2. Spraying of recommended insecticides

T3. Control (farmers method)

		Whitefly population/3 leaves			%Decrease	%Decrease	Jassid	population/3	leaves	%Decrease	%Decrease
No. of OFT	Area	Treated	Farmers method	Control	over control	over Farmers method	Treated	Farmers method	Control	over control	over Farmers method
5	0.5	0.70	1.61	1.65	57.37	56.46	0.67	1.60	2.09	68.13	58.41

Ave	Average yield (q/ha)			A	verage Co	st	Avera	ige Gross In	come		BCR	
D	FM	L	Increase	D	D FM L D		D	\mathbf{FM}	${f L}$	D	FM	${f L}$
157.705	144.82	127.968	23.24	46130	50700	45180	208170.6	191162.4	168917.8	4.51	3.77	3.74

Horticulture:

Title: Assessment of enrich banana sap for yield and quality of brinjal

Crop	Variety	Farming situation	Title	No. of Farmers	Technology Assessed	Yield (t/ha)	% increase
Brinjal	-	Irrigated	Assessment of enrich banana sap for yield	5	T ₁ : Farmers method	112.5	-
			and quality of brinjal		T ₂ : Drenching of banana sap @1.0 %at one month interval	121.3	7.82
					T ₃ : Spraying of banana sap @1.0 % twice at peak flowering stage (15 days interval)	126.42	12.37
					T₄: T2 + T3	158.34	31.85

Title: Validation of kitchen garden model developed by NAU

Crop	Variety	Farming situation	Title	No. of Farmers	Technology Assessed	Yield (Kg/ha)	% increase
Kitchen Garden	-	-	Validation of kitchen garden model developed by NAU	5	T ₁ - NAU kitchen garden model	245.00	36.81
					T ₂ - Control (farmers method)	180.00	-

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

Parameters	Paddy straw	UTPS	Local grass	UTLG
Daily milk yield (L)	8.605±3.04	9.420±3.10	8.739±2.71	9.635±2.82
Milk Fat %	3.5±0.29	4.4±0.37	3.7±0.20	4.5±0.27
4% FCM	8.00±2.65	9.883±3.04	8.33±2.56	10.29±2.76
Body wt. (Kg)	302.6±86	299.6±76	300.6±71	304.2±82
Post partum estrus (D)		78.1	80	0.2

UTLG- Urea Treated Local Grass, UTPS – urea Treated Paddy Straws

Home Science

1.Title: Response of adolescent girls to iron rich feed in relation to Hemoglobin level T1: Control T2: Recommended Iron supplement capsules

T3**:100gm roasted Bengal gram + 100gm roasted Rice flakes/day + iron tablet/day with existing dietary pattern

			Data on the param	eter		<i>2</i> , 1		
Parameters			Hb level (gm%)	Body weight (Kg.)			Results of assess-ment	Feedback
	Before	After	increase in Hb level	Before	After	Wt. gain		
6			7		•		8	9
Hb level &	9.36	10.02	0.66	29.040	29.800	0.760	Daily use of 100gm roasted Bengal gram +	Hb level & body wt. of rural tribal adolescent
Body weight for three months period	9.22	11.00	1.78	29.780	30.840	1.060	100gm roasted Rice flakes + one iron tablet	girls increased by using iron rich diet and iron
	8.82	12.04	3.22	31.540	34.500	2.960	with existing dietary pattern gave better result to prevent Anemia	tablet daily with existing dietary pattern

^{*}No. of tribal adolescent girls (12 to 18 yrs)** 100 gm Bengal gram contains 9.5 mg iron. 100 gm Rice flakes contains 20.0 mg iron.

2. Title: Evaluation of Low cost high calorie diets made from locally available food materials for Pre-school children.

Demonstration period: July-2014 to October-2014 (4 months)

Village: Rakhalnagar Taluka: Choryasi

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of Children	Technology Assessed	Parameters of assessment	Average Gain in Body weight as compared to before treatment (gm)	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Home	Rain fed	Evaluation of	Evaluation of	10	T1- Control	Gain in Body	1st:260	-	-
Science		Low cost high	Low cost high			wt at 1^{st} , 2^{nd} ,	2nd:160		
		calorie diets	calorie diets			3 rd and 4 th	3rd :190		
		made from	made from			month of	4th: 180		
		locally available	locally available			treatment	Total- 790		
		food materials	food materials	10	T2- Low cost		1st: 290	39.24%	Increase in
		for Pre-school	for Pre-school		high calorie diet		2nd:260	increase in	body
		children.	children		prepared from		3rd :280	total body	weight
					locally		4th: 270	weight than	
					available food materials		Total-1100	T1	

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2014-15 and recommended for large scale adoption in the district

	Crop/			Details of	Horizo	ontal spread of t	echnology
Sr. No	Enterprise	Thematic Area*	Technology demonstrated	popularization methods suggested to the Extension system	No. of villages	No. of farmers	Area in ha
FLDs of	KVK						
1	Paddy (NAUR – 1)	ICM	New variety	FLDs	3	29	9
2	Paddy (GNR – 3)	ICM	New variety	FLDs	3	35	10
3	Paddy (GAR – 13)	ICM	New Variety	FLDs	4	10	4
4	Paddy	ICM	SIRA technology	FLDs	3	10	4
5	Paddy	IPM	IPDM	FLDs	3	20	8
6	Bt Cotton (G. Cot. Hy. – 6)	ICM	New Variety	FLDs	5	20	5
7	Bt Cotton (G. Cot. Hy. – 8)	ICM	New Variety	FLDs	5	20	5
8	Sugarcane	ICM	Intercrop	FLDs	3	10	4
9	Sugarcane	IPDM	IPDM	FLDs	3	10	4
10	Soybean (JS – 335)	ICM	New Variety	FLDs	4	37	9
11	Sorghum (GJ – 42)	ICM	New Variety	FLDs	5	20	8
12	Sorghum (Fodder) (CSV 21 F)	ICM	New variety	FLDs	4	10	4
13	Okra	IPDM and INM	IPDM and INM	FLDs	3	10	2
14	Brinjal	IPDM and INM	I IPDM and INM	FLDs	3	10	2
15	Parvar	IPDM and INM	IPDM and INM	FLDs	4	20	8
16	Banana	IPDM and INM	IPDM and INM	FLDs	2	20	8

17	Bitter gourd	IPDM	Fruitfly traps	FLDs	3	10	4			
18	Mango	IPM	Fruitfly traps	FLDs	5	20	8			
19	Pigeon pea	IDM	IDM	FLDs	2	10	4			
20	Groundnut	IDM	IDM	FLDs	2	10	4			
FLDs of Other Agency										
AICCIP – TSP										
1	Cotton	INM	-	FLDs	7	50	20			
NFSM – Commercial crops										
1	Cotton (NFSM)	ICM	-	FLDs	3	25	10			
	Adaptive Trials									
1	Sugarcane	ICM	New variety	FLDs	4	10	4			
	(GNS – 8)									
			·		<u>-</u>					

b. **Details of FLDs implemented during 2015-16**

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in		
					Proposed	Actual	SC/ST	Others	Total	achievement		
FLDs of KVK												
Cereal crops												
1	Paddy	ICM	New variety	Kharif	8	8	20	0	20			
	(NAUR – 1)			-15								
2	Paddy	ICM	New variety	Kharif	8	8	20	0	20			
	(GNR – 3)			-15								
3	Paddy	ICM	New variety	Kharif	4	4	0	10	10			
	(GAR –13)			-15								
Pulses and oilseeds												
1	Soybean	ICM	New variety	Kharif-15	8	8	20	0	20			
	(JS - 335)											
2	Green gram	ICM	New variety	Summer - 16	4	4	10	0	10			
	(Meha)											
3	Pigeonpea	IDM	IDM	Kharif-15	4	4	10	0	10			
4	Ground nut	IDM	IDM	Rabi 15	4	4	10	0	10			
Cash crops												

1	Sugarcane	IPDM	Biofertilizers and Biopesticides, Tricho.	Rabi-15	4	4	10	0	10	31
Hortic	ulture crops	•				,				
1	Okra	IPDM and INM	IPDM and INM	Rabi-15	2	2	10	0	10	
2	Brinjal	IPDM and INM	IPDM and INM	Rabi-15	4	4	20	0	20	
3	Parvar	IPDM and INM	IPDM and INM	Kharif-14	8	8	20	0	20	
4	Banana	IPDM and INM	IPDM and INM	Kharif-15	8	8	0	20	20	
5	Mango	IPM	Fruitfly traps	Rabi-15	8	8	20	0	20	
6	Bittergourd	IPM	IPM	Rabi- 15	8	8	20	0	20	
FLDs o	of Other Agency									
Crop p	roduction									
1				T	AICCIP -					
2	Cotton	INM	-	Kharif-15	12	30	30	0	30	-
3	Cotton	IPM	-	Kharif-15	12	30	30	0	30	-
4	Cotton	Intercrop	Intercrop	Kharif-15	14	35	35	0	35	-
5	Cotton	HDPS	HDPS	Kharif-15	2	5	5	0	5	-
Rabi –			trations on Pulse							
1	Green gram	Variety and INM	Meha	Summer - 16	30	75	75	0	75	-
NARP.	, Navsari									
1	Paddy	Variety & INM	Variety & INM	Kharif-15	4	30	30	0	30	-
				IARI var	ietal demons	trations				
1	Pigeon pea	Variety	Variety	Kharif-15	1	4	4	0	4	-
2	Wheat	Variety	Variety	Rabi – 15	0.8	2	0	2	2	
3	Chick pea	Variety	Variety	Rabi - 15	0.2	2	2	0	2	-
TSP –	ICAR Maize									
1	Maize	Variety	Variety	Rabi - 15	6	15	15	0	15	-

	ive Trials									30
Cereal	crops									
1	Paddy (NAUR – 1)	Variety	Variety	Kharif-15	8	80	80	0	80	-
2	Paddy (GNR – 3)	Variety & SIRA	Variety & SIRA	Kharif-15	20	60	0	60	60	-
3	Paddy (GAR – 13)	Variety	Variety	Kharif-15	20	50	50	0	50	-
4	Paddy (Purna)	Variety	Variety	Kharif-15	2	10	10	0	10	-
5	Sorghum (GJ – 42)	Variety	Variety	Rabi - 15	15	20	20	0	20	-
Pulses	and oilseeds			<u> </u>						
1	Pigeonpea	Variety	Variety	Kharif-15	45	500	500	0	500	-
2	Green gram (Meha)	Variety	Variety	Summer - 16	57	380	380	0	380	-
3	Sesame (GT – 2)	Variety	Variety	Summer - 16	20	50	50	0	50	-
Cash c	erops									
1	Cotton (G.Cot.Hy. – 6)	Variety	Variety	Kharif-15	10	50	50	0	50	-
2	Cotton (G.Cot.Hy. – 8)	Variety	Variety	Kharif-15	10	50	50	0	50	-
3	Cotton (NHH - 49)	Variety	Variety	Kharif-15	2	10	10	0	10	-
4	Castor (GCH - 7)	Variety	Variety	Rabi - 15	18	45	10	35	45	-
5	Sugarcane (GNS - 8)	Variety	Variety	Rabi - 15	2	10	0	10	10	-
Fodde	r crops									
1	Fodder Maize (African Tall)	Variety	Variety	Rabi - 15	10	50	50	0	50	-

${\tt c.}\ \textbf{Details}\ \textbf{of}\ \textbf{farming}\ \textbf{situation}$

		Farming		S	tatus of s	oil				Seaso-	No. of
Сгор	Season	situation (RF/ Irrigated)	Soil type	N	P	K	Previous crop	Sowing date	Harvest date	nal rainfall (mm)	rainy days
Cereal Crops											1
Paddy – NAUR-1	Kharif- 15	Irrigated/Rainfed	Medium Black	L	M	Н	Fallow /Rabi vegetables	15 th June to 15 th July, 2015	1 st Nov. to 15 th Dec. 2015	606	25
Paddy –GNR-3	Kharif- 15	Irrigated	Medium Black	L	M	Н	Sugarcane Summer Paddy	15 th June to 15 th July, 2015	1 st Nov. to 15 th Dec. 2015		
Paddy –GAR- 13	Kharif- 15	Irrigated	Medium Black	L	M	Н	Sugarcane Summer Paddy	15 th June to 15 th July, 2015	1 st Nov. to 15 th Dec. 2015		
Paddy-IPDM	Kharif- 15	Irrigated	Medium black	L	M	Н	Sugarcane Summer paddy	15 th June to 15 th July, 2015	1 st Nov. to 15 th Dec. 2015		
Pulses and oils											
Soybean	Kharif - 15	Irrigated/ rainfed	Medium black	L	M	Н	Fallow /Rabi vegetables	First week of July, 2015	15 th Oct. to 15 th Nov. 2015		
Green gram	Summer - 16	Irrigated/ rainfed	Medium black	L	M	Н	Cotton Rabi vegetables	First week of Feb, 2016	15 th April to 30 th April, 2016		
Pigeonpea	Kharif - 14	Rainfed	Medium black	L	M	Н	Brinjal	July to Aug-15	-		
Groundnut	Summer- 14	Rainfed	Medium black	L	M	Н	Sorghum	Dec to Jan 15	May- June 14		
Horticultural	crops										
Okra (IPDM and INM)	Rabi -14	Irrigated	Medium black	L	M	Н	Paddy	Feb. to March 14	Sept. to Oct -13		
Brinjal (IPDM and INM)	Rabi -14	Irrigated	Medium black	L	M	Н	Groundnut	Feb. to March 14	Oct. to Nov	606	25

Cron Seas		Farming		S	tatus of s	oil				Seaso-	No. of
Crop	Season	situation (RF/ Irrigated)	Soil type	N	P	K	Previous crop	Sowing date	Harvest date	nal rainfall (mm)	rainy days
Parvar (IPDM &INM)	Kharif - 14	Irrigated	Medium black	L	M	Н	Parvar	July to Aug14	-	606	25
Banana (IPDM and INM)	Kharif - 14	Irrigated	Loamy	L	M	Н	Banana	June to July -14	Aug- Sept 14	606	25
Bitter gourd (F. fly traps)	Rabi -14	Irrigated	Medium black	L	M	Н	Pointed gourd	Sept. to Oct -14	-	606	25
Mango (F. fly traps)	Rabi -14	Irrigated	Medium black	L	M	Н	-	-	-	606	25
					FLDs o	of Othe	r Agency				
Crop producti	on										
AICCIP - TSP	•										
Cotton INM	Kharif - 15	Irrigated/ rainfed	Medium black	L	M	Н	Cotton	First week of July, 2015	Dec. 15 to Feb. 2016		
Cotton IPM	Kharif - 15	Irrigated/ rainfed	Medium black	L	M	Н	Cotton	First week of July, 2015	Dec.15 to Feb. 2016		
Cotton Intercrop	Kharif - 15	Irrigated/ rainfed	Medium black	L	M	Н	Cotton	First week of July, 2015	Dec.15 to Jan. 2016		
Cotton HDPS	Kharif - 15	Irrigated/ rainfed	Medium black	L	M	Н	Cotton	First week of July, 2015	Dec.15 Feb. 2016		
Rabi – Cluster	Front Lin	e Demonstrations of	on Pulses								
Green gram Meha and INM	Summer - 16	Irrigated/ rainfed	Medium black	L	M	Н	Cotton Sugarcane	First week of Feb., 2016	Up to April 2016		
NARP, Navsai	ri					•		•	•		
Paddy – NAUR-1	Kharif- 15	Irrigated/Rainfed	Medium Black	L	M	Н	Fallow /Rabi vegetables	15 th June to 15 th July, 2015	1 st Nov. to 15 th Dec. 2015	606	25
IARI varietal	demonstra	tions									

Crop Sea		Farming		S	tatus of s	oil				Seaso-	No. of
Сгор	Season	situation (RF/ Irrigated)	Soil type	N	P	K	Previous crop	Sowing date	Harvest date	nal rainfall (mm)	rainy days
Pigeon pea P - 991	Kharif- 15	Irrigated/Rainfed	Medium Black	L	M	Н	Fallow /Rabi vegetables	15 th June to 15 th Aug., 2015	Up to 15 th Feb. 2016	606	25
Wheat HD - 2932	Rabi - 15	Irrigated/Rainfed	Medium Black	L	M	Н	Paddy Sugarcane	15 th Nov. to 15 th Dec., 2015	Up to 30 th March. 2016	606	25
Chick pea BG - 1103	Rabi - 15	Irrigated/Rainfed	Medium Black	L	M	Н	Paddy	15 th Nov. to 30 th Dec., 2015	Up to 15 th March. 2016	606	25
					TSP	– ICAI	R Maize		•		
Maize GAYMH – 1 HQPM - 1	Rabi - 15	Irrigated/Rainfed	Medium Black	L	M	Н	Paddy	15 th Nov. to 15 th Dec., 2015	Up to 15 th March. 2016	606	25
	•				Ad	aptive '	Trials	•		•	
Cereal crops									_	_	
Paddy (NAUR – 1)	Kharif- 15	Irrigated/Rainfed	Medium Black	L	M	Н	Fallow /Rabi vegetables	15 th June to 15 th July, 2015	1 st Nov. to 15 th Dec. 2015	606	25
Paddy (GNR – 3)	Kharif- 15	Irrigated	Medium Black	L	M	Н	Sugarcane Summer Paddy	15 th June to 15 th July, 2015	1 st Nov. to 15 th Dec. 2015	606	25
Paddy (GAR – 13)	Kharif- 15	Irrigated	Medium Black	L	M	Н	Sugarcane Summer Paddy	15 th June to 15 th July, 2015	1 st Nov. to 15 th Dec. 2015	606	25
Paddy (Purna)	Kharif- 15	Irrigated/Rainfed	Medium Black	L	M	Н	Fallow /Rabi vegetables	15 th June to 15 th July, 2015	1 st Nov. to 30 th Nov. 2015	606	25
Sorghum (GJ – 42)	Rabi -	Irrigated/Rainfed	Medium Black	L	M	Н	Paddy	15 th Oct. to 15 th Dec., 2015	Up to 15 th March. 2016	606	25
Pulses and oil		T 1/D	3.6.22	₊	3.7	17	E II	1.5th T . 4.5th	TT . 15th		25
Pigeonpea Vaishali	Kharif- 15	Irrigated/Rainfed	Medium Black	L	M	Н	Fallow /Rabi vegetables	15 th June to 15 th Aug., 2015	Up to 15 th Feb. 2016	606	25

		Farming		S	tatus of s	oil				Seaso-	No. of
Crop	Season	situation (RF/ Irrigated)	Soil type	N	P	K	Previous crop	Sowing date	Harvest date	nal rainfall (mm)	rainy days
Green gram	Summer	Irrigated/ rainfed	Medium	L	M	Н	Cotton	First week of Feb.,	Up to April	606	25
(Meha)	- 16		black				Sugarcane	2016	2016		
Sesame	Summer	Irrigated/ rainfed	Medium	L	M	Н	Cotton	First week of Feb.,	Up to April	606	25
(GT-2)	- 16		black				Sugarcane	2016	2016		
Cash crops											
Cotton	Kharif -	Irrigated/ rainfed	Medium	L	M	Н	Cotton	First week of July,	Dec. 15 to Feb.	606	25
(G.Cot.Hy. –	15		black					2015	2016		
6)											
Cotton	Kharif -	Irrigated/ rainfed	Medium	L	M	H	Cotton	First week of July,	Dec. 15 to Jan.	606	25
(G.Cot.Hy. –	15		black					2015	2016		
8)											
Cotton (NHH	Kharif -	Irrigated/ rainfed	Medium	L	M	Н	Cotton	First week of July,	Dec. 15 to Feb.	606	25
- 49)	15		black					2015	2016		
Castor (GCH	Late	Irrigated/Rainfed	Medium	L	M	Н	Paddy	15 th Aug. to 15 th	Up to 15 th	606	25
- 7)	kharif - 15		Black				Fallow	Oct., 2015	March. 2016		
Sugarcane	Rabi - 15	Irrigated	Medium	L	M	Н	Paddy	1 st Oct. to 31 st	Up to Dec., 16	606	25
(GNS - 8)			Black				Fallow	Dec., 15	,		
Fodder crops											
Fodder Maize	Rabi - 15	Irrigated/Rainfed	Medium	L	M	Н	Paddy	1 st Oct. to 31 st	Up to Feb., 16	606	25
(African Tall)			Black				Fallow	Dec., 15			

Technical Feedback on the demonstrated technologies

S.N.	Crop	Technology demonstrated	Feed back
1	Paddy	NAUR-1	1. High yielding
			2. Early maturity as compared to hybrid
			3. Good taste in rice plate/roti making as compare to hybrid
2	Paddy	GNR-3	1. High yielder and preferred by the farmers 2. Good quality 3. Low
			incidence of insect pest

3	Paddy	GAR - 13	1. Good performance as compare to GR-11 2. Good rice quality
4	Paddy	SIRA	 Fertilizer saving Labour problems compel to adopt the technology Preferred by the farmers
5	Soybean	JS – 335	 Good performance as compare to local varieties. Low incidence of pest and dieseases
6	Cotton	INM Cotton	 Reduced the cost of cultivation due to use of biofertilizers Low incidence of pest and diseases
7	Cotton	IPM Cotton	Reduced the cost of cultivation due to reduced the use of pesticides
8	Cotton	Intercropping with Soybean	Reduced the cost of cultivation due to reduced the use of chemical fertilizers weed management, irrigation etc.
9	Pigeon pea	P 991	Good performance in yield 2. Due to red colour not preferred by farmers 3. Low market value
10	Sorghum	GJ - 42	 Higher grain production Bold and white grain Good performance in irrigated conditions only.
11	Okra	IPDM & INM	1. Reduced number of pesticidal sprays 2. Less incidence of disease, fruit borer and increase in yield 3. Quality of okra improved.
12	Brinjal	IPDM & INM	1. Reduced number of pesticidal sprays 2. Less incidence of wilt and other diseases 3. Less incidence of fruit and shoot borer
13	Parvar	IPDM & INM	1. Less incidence of wilt
14	Bitter gourd	Fruit fly trap	1. Less infestation of fruit fly
15	Mango	Fruit fly trap	1. Less infestation of fruit fly
16	Banana	IPDM & INM	1. Less incidence of wilt 2. Less infestation of weevil in the field
17	Pigeon pea	IDM	 Increase in yield and less incidence of wilt Reduce the cost of cultivation by lowering the use of pesticide
18	Groundnut	IDM	1. Increase in yield and less incidence of wilt
19	Sugarcane	IPDM	Reduced the cost of cultivation Less incidence of disease and pest

Extension and Training activities under FLD

Sr. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days				
	Rice	1	21-10-2015	21	
	Cotton	4	11-09-2015, 15-09-2015, 20-10-2015, 27-01-2016	189	
	Sorghum	1	16-10-2015	59	
2	Farmers Training				
	Plant Protection	9	17/07/2015, 14/08/2015, 20/08/2015, 12/10/2015, 06/11/2015 11/12/2015, 16/12/2015, 06/01/2016, 15/01/2016	277	
	Horticulture	5	29/10/2015, 07/11/2015, 11/12/2015, 15/01/2016, 22/01/2016	111	
	Agronomy	4	14-05-2015, 9-06-15, 5-08-15, 11-09-15	62	
	Animal Science	4	08-06-2015,04-09-2015, 21-09-2015,30-10-2015	86	
	Home Science	2	23/06/15, 7/07/15	46	
3	Media coverage				
4	Training for extension functionaries				

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)		Yie	ld (q/ha)		% Increase	Econom	nics of demo	onstration (Rs./ha)		Economics (Rs./		
							Demo			in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	8				Cost	Return	Return	(R / C)	Cost	Return	Return	(R/C)
Groundnut	IDM	Bio control	GG2	10	4	16.17	9.5	12.183	11.008	10.67	15200	31675.8	16475.8	2.08	17900	28620.8	10720.8	1.60
		(Trichoderma)																
Soybean	ICM	New Variety	JS –	20	8	1126	680	823	710	15.92	15000	24690	9690	1.65	15000	21300	6300	1.42
			335															

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

Crop	Thema	technology	Variety	No. of	Area		Yield (q/ha)			%	Eco	nomics of	demonstra	tion	Economics of check			
	tic	demonstrate		Farmers	(ha)		1			Increas		(Rs.	/ha)			(Rs.	/ha)	
	Area	d					Demo		Check	e in	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average		yield	Cost	Return	Return	(R / C)	Cost	Return	Return	(R/C
)
Pigeon	IDM	Bio control	Vaishali	10	4	14.12	7.45	10.133	8.958	13.12	10500	35465.5	24965.5	3.38	12600	31353	18753	2.49
pea		(Trichoderma																
)																
Pigeon	ICM	New Variety	P – 991	4	1	1250	960	1109	980	13.16	16000	66540	50540	4.16	16000	68600	52600	4.29
pea																		
Pigeon	ICM	New Variety	Vaishali	500	45	1530	857	1218	960	26.88	15000	54810	39810	3.65	16000	43200	27200	2.70
pea																		

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	Variety	No. of Farmers	Area (ha)	`				% Change	Econ	nomics of d (Rs./		tion	Economics of check (Rs./ha)			
							Demo		Check	in Yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average			Cost	Return	Return	(R / C)	Cost	Return	Return	(R / C)
Cereals																		
Paddy	IPDM	Paddy IPDM	-	20	8	3932	3846	3890	3486	11.59	23500	62138	38638	2.64	25000	58475	33475	2.34
Paddy	ICM	New Variety	NAUR – 1	20	8	5642	3310	4130	3640	13.46	24000	55755	31755	2.32	25000	49140	24140	1.97
Paddy	ICM	New Variety	GNR – 3	20	8	5839	3895	4890	4518	8.23	28000	66015	38015	2.36	28000	60993	32993	2.18
Paddy	ICM	New Variety	GAR – 13	10	4	5754	4287	4760	4155	14.56	28000	64260	36260	2.30	28000	56093	28093	2.00
Paddy	ICM	Variety & INM	NAUR – 1	30	4	5730	2060	2836	2560	10.78	28000	38286	10286	1.37	29000	34560	5560	1.19
Paddy	ICM	New Variety	NAUR – 1	80	8	4560	1847	3125	2865	9.08	28000	42188	14188	1.51	29000	38678	9678	1.33
Paddy	ICM	Variety & SIRA	GNR – 3	60	20	6450	4170	5530	4720	17.16	27000	74655	47655	2.77	28000	63720	35720	2.28
Paddy	ICM	New Variety	GAR – 13	50	20	5680	4210	4820	4278	12.67	28000	65070	37070	2.32	28000	57753	29753	2.06
Paddy	ICM	New Variety	Purna	10	2	2674	1620	2240	1870	19.79	18000	29120	11120	1.62	18000	24310	6310	1.35

Millets																		
Sorghum	ICM	New Variety	GJ – 42	20	15	1680	1230	1460	1280	14.06	15000	26280	11280	1.75	15000	23040	8040	1.54
Vegetables	II.	<u>'</u>	11	l l		u u	L.		u u				ı.	<u> </u>	L L		·	
Okra	IPM, INM	Okra IPM and INM	Hybrid	10	2	171.2	132.46	153.61	131.77	16.58	53730	205069	151339	3.82	57255	177056	119801	3.09
Brinjal	IPM, INM	Brinjal IPM and INM	Surti ravaiya	10	2	175	142.1	163.73	127.88	28.04	45345	163720	118375	3.61	49552	151890	102338	3.07
Parvar	IPDM, INM	Parvar IPDM and INM	Local	20	8	198	142.2	164.06	141.65	15.82	145000	311705	166705	2.15	147500	269126	121626	1.82
Bitter gourd	IPM	Pheromone trap	F1	20	8	167.5	149.5	163.72	151.89	7.79	56700	261952	205252	4.62	62400	243024	180624	3.89
Flower crops																		
Fruit crops	TD3 5	 			_		,		-c		242.0				22	00:::=		
Mango	IPM	Pheromone trap	-	20	8	79.2	49.2	64.5	58.74	9.80	21210	96750	75540	4.56	22000	88113	66113	4.01
Banana	IPDM, INM	Banana IPDM and INM	G9	20	8	758.44	594.44	693.115	562.34	23.26	95700	415869	320169	4.35	97600	337404	239804	3.46
Spices & condiments																		
Commercial Crops																		
Sugarcane	IPDM	Sugarcane IPDM	-	10	4	1000	920	949	879	7.96	109045	161330	52285	1.48	107620	149430	41810	1.39
Cotton	ICM	INM	-	30	12	2400	1850	2097	1962	6.88	30800	94365	63565	3.06	32200	88290	56090	2.74
Cotton	ICM	IPM	-	30	12	2450	1760	2013	1864	7.99	30760	90585	59825	2.94	32160	83880	51720	2.61
Cotton	ICM	Intercrop	G.Cot.Hy. 8	35	14	1820	1480	1668	1502	11.05	31430	84435	53005	2.69	33020	67590	34570	2.05
Cotton	ICM	HDPS	Suraj	5	2	1800	1650	1723	1632	5.58	27200	77535	50335	2.85	32000	73440	41440	2.30
Cotton	ICM	New Variety	G.Cot.Hy. - 6	50	10	2360	1740	1984	1820	9.01	33000	75392	42392	2.28	35000	69160	34160	1.98
Cotton	ICM	New Variety	G.Cot.Hy. - 8	50	10	1940	1542	1732	1570	10.32	33000	65816	32816	1.99	35000	59660	24660	1.70
Cotton	ICM	New Variety	NHH – 49	10	2	2341	1648	1920	1750	9.71	33000	72960	39960	2.21	35000	66500	31500	1.90
Medicinal & aromatic plants																		
Fodder Crops																		

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Use of mineral mixture + De-worming:

Categor	Thematic	Name of the	No. of	No.	Major Pa	rameters	% change
y	area	Technology Demonstrated	Farmer	of Unit s	Demo.	Check	in major parameter
Cow	Nutrition Manage ment	Mineral Mixture 40 mg per Day and De-	20	20	Avg. milk yield (L/Day) 8.78 (20)	Avg. milk yield (L/Day) 7.80 (10)	12.5
		worming 3 g Tablet			Service Period (Days) 105 (19)	Service Period (Days) 150 (9)	30

Feed back: Use of mineral mixture increase milk production and reduced service periods and sometimes resolved reproductive problems also.

Prevention of mastitis by teat Spray:

Category	Thematic area	Name of the Technology Demonstrated	No. of Farmer	No. of Units	Major Parameters Demonstration	% change in major parameter Check
Cow	Preventive	Mastitis	20	20	No. of	No. of
	Measures	prevention by			Incidence	Incidence
		Teat Spray				
		Visprayk [®]			1 (20)	3(10)

Scientific calf rearing:

Parameters	De-worming + calf I	Oan up to six months	Farmers n	nethod
	3 Month	6 Month	3 Month	6 Month
Calf No.	2	0	10	
Av. Body Wt. (Kg)	60.43	88.84	54.62	76.46
% Increase	10.6	16.2	-	-

Feed back

Sr. No.	Technology	Animals	Feedback reported
1	Mineral Mixture	Cow	Increase the milk yield
			Reduce service period
2	Teat spray	Cow	Reduce mastitis cases
3	De-worming and Dan to calf	Calf	 Increase the growth rate Reduced the parasitic problems Improve health condition

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
NIL	NIL	NIL	NIL	NIL	NIL

FLD on Farm Implements and Machinery

Name of the implemen t	Cro p	Technology demonstrate d	No. of Farme r	Are a (ha)	Major parameter s	obser (outpu	led vation ıt/man ur)	% change in major	Labor	reduction	(man days)	(Rs.	Cost redu /ha or Rs.	action /Unit etc.)	
·						Dem o	Chec k	paramete r	Land preparatio n	Sowin g	Weedin g	Tota l	Land preparatio n	Labou r	Irrigatio n	Tota 1
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FLD on Other Enterprise: Kitchen Gardening

Category	Thematic	Name of the	No. of	No.	Yield	(Kg)	%	0	ther	Ecor		demonstra	tion]	Economics		
and Crop	area	technology	Farmer	of			change	para	meters		(Rs.	/ha)			(Rs.	/ha)	
		demonstrated		Units	Demons	Check	in	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
					ration		yield			Cost	Return	Return	(R / C)	Cost	Return	Return	(R / C)
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FLD on Demonstration details on crop hybrids (Details of Hybrid FLDs implemented during 2015-16)

Crop	technology	Hybrid	No. of	Area		Yie	ld (q/ha)		%	Econor	mics of demo	nstration (R	s./ha)
	demonstrated	Variety	Farmers	(ha)		Demo		Check	Increase in	Gross	Gross	Net	BCR
					High	Low	Average		yield	Cost	Return	Return	(R/C)
Cotton	Variety	G.Cot.Hy. – 6	50	10	2360	1740	1984	1820	9.01	33000	75392	42392	2.28
Cotton	Variety	G.Cot.Hy. – 8	50	10	1940	1542	1732	1570	10.32	33000	65816	32816	1.99
Cotton	Variety	NHH – 49	10	2	2341	1648	1920	1750	9.71	33000	72960	39960	2.21

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of				P	Participan	ts			
	courses		Others			SC/ST		(Frand Total	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Far	m Wome	n								
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				0			0	0	0	0
Micro										
Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery										
management	1	0	40	40	0	0	0	0	40	40
Integrated Crop										
Management	3	0	0	0	80	8	88	80	8	88
Soil & water										
conservatioin				0			0	0	0	0
Integrated nutrient										
management				0			0	0	0	0
Production of										
organic inputs				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	4	0	40	40	80	8	88	80	48	128
II Horticulture										
a) Vegetable										
Crops										
Production of low										
value and high										
valume crops				0			0	0	0	0
Off-season										
vegetables	1	5	30	35	0	0	0	5	30	35
Nursery raising	2	15	49	64	0	0	0	15	49	64
Exotic vegetables				0			0	0	0	0
Export potential										
vegetables				0			0	0	0	0
Grading and				_			_		_	_
standardization				0			0	0	0	0

Protective		I	1							
cultivation				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (a)	3	20	79	99	0	0	0	20	79	99
b) Fruits			17		U	U	•	20	17	
Training and										
Pruning and				0			0	0	0	0
Layout and				0			U	U	U	0
Management of										
Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of				0			0	0	0	0
young										
plants/orchards				0			0	0	0	0
Rejuvenation of				Ü			0	0	U	U
old orchards				0			0	0	0	0
Export potential				U			U		U	U
fruits				0			0	0	0	0
Micro irrigation				-						
systems of										
orchards				0			0	0	0	0
Plant propagation										
techniques	2	24	18	42	0	0	0	24	18	42
Others (pl specify)				0			0	0	0	0
Total (b)	2	24	18	42	0	0	0	24	18	42
c) Ornamental										
Plants										
Plants Nursery										
Nursery Management				0			0	0	0	0
Nursery							0	0		0
Nursery Management				0			0	0	0	0
Nursery Management Management of				0			0	0	0	0
Nursery Management Management of potted plants Export potential of ornamental plants										
Nursery Management Management of potted plants Export potential of ornamental plants Propagation				0			0	0	0	0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of				0			0	0	0	0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants				0 0			0 0	0 0	0 0	0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify)				0 0 0			0 0 0	0 0 0	0 0 0	0 0 0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c)	0	0	0	0 0	0	0	0 0	0 0	0 0	0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation	0	0	0	0 0 0	0	0	0 0 0	0 0 0	0 0 0	0 0 0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops	0	0	0	0 0 0	0	0	0 0 0	0 0 0	0 0 0	0 0 0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops Production and	0	0	0	0 0 0	0	0	0 0 0	0 0 0	0 0 0	0 0 0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops Production and Management	0	0	0	0 0 0 0	0	0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops Production and Management technology	0	0	0	0 0 0	0	0	0 0 0	0 0 0	0 0 0	0 0 0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops Production and Management technology Processing and	0	0	0	0 0 0 0 0	0	0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops Production and Management technology Processing and value addition	0	0	0	0 0 0 0 0	0	0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops Production and Management technology Processing and value addition Others (pl specify)				0 0 0 0 0			0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
Nursery Management Management of potted plants Export potential of ornamental plants Propagation techniques of Ornamental Plants Others (pl specify) Total (c) d) Plantation crops Production and Management technology Processing and value addition	0	0	0	0 0 0 0 0	0	0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0

Production and										
Management										
technology				0			0	0	0	0
Processing and										
value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (e)	0	0	0	0	0	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
Others (pl specify)				0			0	0	0	0
Total (f)	0	0	0	0	0	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
Others (pl specify)				0			0	0	0	0
Others (pl specify) Total (g)	0	0	0	0	0	0	0 0	0	0 0	0 0
	<u>0</u> 5	0 44	0 97		0	0				
Total (g) GT (a-g)	5	44	97	0			0	0	0	0
Total (g) GT (a-g) III Soil Health and	5	44	97	0			0	0	0	0
Total (g) GT (a-g)	5	44	97	0			0	0	0	0
Total (g) GT (a-g) III Soil Health and Soil fertility management	5	44	97	0 141			0	0 44	97	141
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water	5	44	97	0 141			0	0 44	97	141
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management	5 Fertility	44 Manag	97 gement	0 141 0	0	0	0	0 44	0 97 0	0 141
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water	5 Fertility	44 Manag	97 gement	0 141 0	0	0	0	0 44	0 97 0	0 141
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient	5 Fertility	44 Manag	97 gement	0 141 0	0	0	0 0	0 44 0 50	0 97 0	0 141 0 50
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use	5 Fertility	44 Manag	97 gement	0 141 0	0	0	0 0	0 44 0 50	0 97 0	0 141 0 50
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management	5 Fertility	44 Manag	97 gement	0 141 0 0	0	0	0 0 50	0 44 0 50	0 97 0 0	0 141 0 50
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs Management of	5 Fertility	44 Manag	97 gement	0 141 0 0	0	0	0 0 50	0 44 0 50	0 97 0 0	0 141 0 50
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs	5 Fertility	44 Manag	97 gement	0 141 0 0 0	0	0	0 0 50 0	0 44 0 50 0	0 97 0 0	0 141 0 50 0
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs Management of Problematic soils Micro nutrient	5 Fertility	44 Manag	97 gement	0 141 0 0 0	0	0	0 0 50 0	0 44 0 50 0	0 97 0 0	0 141 0 50 0
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs Management of Problematic soils	5 Fertility	44 Manag	97 gement	0 141 0 0 0	0	0	0 0 50 0	0 44 0 50 0	0 97 0 0 0	0 141 0 50 0
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use	5 Fertility	44 Manag	97 gement	0 141 0 0 0	0	0	0 0 50 0	0 44 0 50 0	0 97 0 0 0	0 141 0 50 0
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use Efficiency	5 Fertility	44 Manag	97 gement	0 141 0 0 0 0	0	0	0 0 50 0 0	0 44 0 50 0 0	0 97 0 0 0 0	0 141 0 50 0 0
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use	5 Fertility	44 Manag	97 gement	0 141 0 0 0 0	0	0	0 0 50 0 0	0 44 0 50 0 0	0 97 0 0 0 0	0 141 0 50 0 0
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use Efficiency Balance use of fertilizers	5 Fertility	44 Manag	97 gement	0 141 0 0 0 0 0	0	0	0 0 50 0 0	0 44 0 50 0 0	0 97 0 0 0 0	0 141 0 50 0 0
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use Efficiency Balance use of fertilizers Soil and Water	5 Fertility	44 Manag	97 gement	0 141 0 0 0 0 0	0	0	0 0 50 0 0 0	0 44 0 50 0 0 0	0 97 0 0 0 0 0	0 141 0 50 0 0 0
Total (g) GT (a-g) III Soil Health and Soil fertility management Integrated water management Integrated Nutrient Management Production and use of organic inputs Management of Problematic soils Micro nutrient deficiency in crops Nutrient Use Efficiency Balance use of fertilizers	5 Fertility	44 Manag	97 gement	0 141 0 0 0 0 0	0	0	0 0 50 0 0	0 44 0 50 0 0	0 97 0 0 0 0	0 141 0 50 0 0

Total	1	0	0	0	50	0	50	50	0	50
IV Livestock Produ	iction and	d Mana	gement							
Dairy Management	2			0	81	33	114	81	33	114
Poultry										
Management				0			0	0	0	0
Piggery										
Management				0			0	0	0	0
Rabbit										
Management				0			0	0	0	0
Animal Nutrition										
Management	1			0	31	4	35	31	4	35
Disease				_		_			_	
Management	1			0	55	6	61	55	6	61
Feed & fodder										
technology				0			0	0	0	0
Production of										
quality animal				0			0	0	0	
products				0			0	0	0	0
Others (pl specify)	4		0	0	1.4	42	0	0	0	0
Total	4	0	0	0	167	43	210	167	43	210
V Home Science/W	omen em	power	ment							
Household food										
security by kitchen										
gardening and	1	4	21	25			0	4	21	25
nutrition gardening	1	4	21	23			U	4	21	23
Design and development of										
low/minimum cost										
diet				0			0	0	0	0
Designing and				0			- 0	0	U	0
development for										
high nutrient										
efficiency diet	1	0	24	24			0	0	24	24
Minimization of										
nutrient loss in										
processing				0			0	0	0	0
Processing and										
cooking				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				0			0	0	0	0
Women										
empowerment	1	1	38	39			0	1	38	39
Location specific				0			0	0	0	0

drudgery reduction					_					
technologies										
Rural Crafts				0			0	0	0	0
Women and child										
care	1	0	24	24			0	0	24	24
Others (pl specify)				0			0	0	0	0
Total	4	5	107	112	0	0	0	5	107	112
VI Agril. Engineeri	ng									
Farm Machinary										
and its										
maintenance				0			0	0	0	0
Installation and										
maintenance of										
micro irrigation										
systems				0			0	0	0	0
Use of Plastics in										
farming practices				0			0	0	0	0
Production of										
small tools and										
implements				0			0	0	0	0
Repair and				Ü				Ů		
maintenance of										
farm machinery										
and implements				0			0	0	0	0
Small scale										
processing and										
value addition				0			0	0	0	0
Post Harvest				Ū			Ü			- U
Technology				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protectio		U	U	U	U	U	U	U	U	U
	11									
Integrated Pest	1	10	15	25	0	0	0	10	15	25
Management	1	10	13	23	U	U	U	10	13	23
Integrated Disease	1	0	17	25	0	0	0	0	17	25
Management	1	8	17	25	0	0	0	8	17	25
Bio-control of	2	120	0	120	0	0	0	120	0	120
pests and diseases	2	130	9	139	0	0	0	130	9	139
Production of bio										
control agents and										
bio pesticides				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	4	148	41	189	0	0	0	148	41	189
VIII Fisheries										
Integrated fish										
farming				0			0	0	0	0
Carp breeding and										
hatchery				0	<u></u>		0	0	0	0

management										
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
Others (pl specify)				0			0	0	0	0
Total	0	0	0	0	Λ			0	0	0
10tai	U	U	U	U	0	0	0	U	U	U
IX Production of Ir	_		U	U	U	U	U	U	U	U
	_		U	0	<u> </u>	0	0	0	0	0
IX Production of Ir	_		U		U	0				
IX Production of Ir Seed Production	_				U	0				
IX Production of In Seed Production Planting material	_			0		0	0	0	0	0
IX Production of In Seed Production Planting material production	_			0			0	0	0	0
IX Production of In Seed Production Planting material production Bio-agents	_			0			0	0	0	0
IX Production of In Seed Production Planting material production Bio-agents production	_			0		0	0	0	0	0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides	_			0 0			0 0	0 0	0 0	0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production	_			0 0			0 0	0 0	0 0	0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer	_			0 0 0			0 0 0	0 0 0	0 0 0	0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production	_			0 0 0			0 0 0	0 0 0	0 0 0	0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures	_			0 0 0 0			0 0 0	0 0 0	0 0 0 0	0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production	_			0 0 0 0			0 0 0	0 0 0	0 0 0 0	0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry	_			0 0 0 0 0			0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings	_			0 0 0 0			0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-	_			0 0 0 0 0			0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Beecolonies and wax	_			0 0 0 0 0			0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Beecolonies and wax sheets	_			0 0 0 0 0			0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Beecolonies and wax sheets Small tools and	_			0 0 0 0 0 0			0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Beecolonies and wax sheets Small tools and implements	_			0 0 0 0 0			0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Beecolonies and wax sheets Small tools and implements Production of	_			0 0 0 0 0 0			0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0
IX Production of In Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Beecolonies and wax sheets Small tools and implements	_			0 0 0 0 0 0			0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0

Production of Fish										
feed				0			0	0	0	0
Mushroom										
Production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
X Capacity Building	g and Gr	oup Dy	ynamics							
Leadership										
development				0			0	0	0	0
Group dynamics	4			0	114	2	116	114	2	116
Formation and										
Management of										
SHGs				0			0	0	0	0
Mobilization of										
social capital				0			0	0	0	0
Entrepreneurial										
development of	_									
farmers/youths	3			0	59	35	94	59	35	94
WTO and IPR										
issues				0			0	0	0	0
Others (pl specify)	_	•		0	1=0		0	0	0	0
Total	7	0	0	0	173	37	210	173	37	210
XI Agro-forestry										
Production				0			0	0	0	0
technologies				0			0	0	0	0
Nursery				0						•
management				0			0	0	0	0
Integrated Farming				0			0	0		0
Systems Others (pl specify)				0			0	0	0	0
Others (pl specify) Total	Δ.	Λ	Λ	0	0	0	0	0	0	0
GRAND TOTAL	0 29	0 197	285	482	470	_	558	667	373	
GKAND IUIAL	29	19/	285	482	470	88	558	007	5/13	1040

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of		Participants								
	course		Others			SC/ST		G	rand Tot	al	
	S	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota	
		e	e	l	e	e	l	e	e	l	
(A) Farmers & Fa	arm Woi	men									
I Crop											
Production											
Weed											
Management	1	0	0	0	41	0	41	41	0	41	
Resource											
Conservation											
Technologies				0			0	0	0	0	

C								1		
Cropping				0			0	0	0	0
Systems				0			0	0	0	0
Crop				0			0	0	0	0
Diversification				0			0	0	0	0
Integrated				0			0	0	0	0
Farming				0			0	0	0	0
Micro										
Irrigation/irrigati				0					0	0
on				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery										
management				0			0	0	0	0
Integrated Crop										
Management	4	0	0	0	77	125	202	77	125	202
Soil & water										
conservatioin				0			0	0	0	0
Integrated										
nutrient										
management				0			0	0	0	0
Production of										
organic inputs				0			0	0	0	0
Others (pl										
specify)				0			0	0	0	0
Total	5	0	0	0	118	125	243	118	125	243
II Horticulture										
a) Vegetable										
Crops										
Production of										
low value and										
high valume										
crops				0			0	0	0	0
Off-season										
vegetables	1	0	0	0	14	7	21	14	7	21
Nursery raising	1	0	0	0	9	9	18	9	9	18
Exotic										
vegetables				0			0	0	0	0
Export potential										
vegetables				0			0	0	0	0
Grading and										
standardization				0			0	0	0	0
Protective										
cultivation	1	0	0	0	36	1	37	36	1	37
Others (pl	_	, ,								
specify)				0			0	0	0	0
Total (a)	3	0	0	0	59	17	76	59	17	76
b) Fruits	<u> </u>	U	U	U		1/	, 0		1/	, 0
Training and										
Pruning and				0			0	0	0	0
Truming				U			U	U	U	U

Layout and										
Management of										
Orchards				0			0	0	0	0
Cultivation of				0			0		U	0
Fruit				0			0	0	0	0
Management of				U			0	0	U	U
young										
plants/orchards				0			0	0	0	0
Rejuvenation of				U			0	U	U	U
old orchards	1	0	0	0	23	2	25	23	2	25
	1	0	0	0	23		23	23	2	23
Export potential fruits				0			0	0	0	0
Micro irrigation				0			U	U	U	0
systems of										
orchards				0			0	0	0	0
Plant				U			U	U	U	U
propagation										
techniques	1	0	0	0	19	1	20	19	1	20
Others (pl	1	U	U	U	17	1	20	17	1	20
specify)				0			0	0	0	0
Total (b)	2	0	0	0	42	3	45	42	3	45
	<u> </u>	U	U	U	42	3	45	42	3	45
c) Ornamental Plants										
Nursery				0			0	0	0	0
Management of				U			U	0	U	U
Management of				0			0	0	0	0
potted plants				0			0	0	0	0
Export potential of ornamental										
plants				0			0	0	0	0
				0			U	0	U	0
Propagation										
techniques of Ornamental										
Plants				0			0	0	0	0
Others (pl				U			U	U	U	U
specify)				0			0	0	0	0
Total (c)	0	0	0	0	0	0	0	0	0	0
d) Plantation	U	U	U	U	U	U	U	U	U	U
crops										
Production and										
Management Management										
technology				0			0	0	0	0
Processing and				<u> </u>						
value addition				0			0	0	0	0
Others (pl				<u> </u>						
specify)				0			0	0	0	0
Total (d)	0	0	0	0	0	0	0	0	0	0
	U	U	U	U	U	<u>U</u>	U	U	U	U
e) Tuber crops										

Production and								l		
Management	1	0	0	0	1.5	0	15	1.5	0	1.5
technology	1	0	0	0	15	U	13	15	0	15
Processing and				0			0	0	0	0
value addition				0			0	0	0	0
Others (pl				0			0	0	0	0
specify)		0		0	4 =		0	0	0	0
Total (e)	1	0	0	0	15	0	15	15	0	15
f) Spices										
Production and										
Management										
technology				0			0	0	0	0
Processing and										
value addition				0			0	0	0	0
Others (pl										
specify)				0			0	0	0	0
Total (f)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and	Aromati	c Plan	ts							
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
Others (pl										
specify)				0			0	0	0	0
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	6	0	0	0	116	20	136	116	20	136
III Soil Health an	d Fertilit	ty Mar	nagemen	t						
Soil fertility										
management				0			0	0	0	0
Integrated water										
management	1	0	0	0	29	10	39	29	10	39
Integrated										
Nutrient										
Management	2	31	16	47	35	0	35	66	16	82
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

Balance use of					l	1				
fertilizers				0			0	0	0	0
				0			0	0	0	0
Soil and Water				0			0	0	0	0
Testing				0			0	0	0	0
Others (pl								0	0	0
specify)				0			0	0	0	0
Total	3	31	16	47	64	10	74	95	26	121
IV Livestock Proc	duction a	nd Ma	anageme	nt	1	1	1		T	
Dairy										
Management	3			0	44	3	47	44	3	47
Poultry										
Management				0			0	0	0	0
Piggery										
Management				0			0	0	0	0
Rabbit										
Management				0			0	0	0	0
Animal Nutrition										
Management	4			0	54	21	75	54	21	75
Disease										
Management	4			0	77	13	90	77	13	90
Feed & fodder										
technology	3			0	118	13	131	118	13	131
Production of										
quality animal										
products				0			0	0	0	0
Others (pl				_			_			
specify)				0			0	0	0	0
Total	14	0	0	0	293	50	343	293	50	343
V Home Science/V		_	,	Ü						
Household food										
security by										
kitchen										
gardening and										
nutrition										
gardening	1	0	21	21			0	0	21	21
Design and		Ü					Ů	Ü		
development of										
low/minimum										
cost diet	3	0	40	40			0	0	40	40
Designing and	٦	0	10	- 10					10	.0
development for										
high nutrient										
efficiency diet	1	0	33	33			0	0	33	33
Minimization of	1	U	33	33			<u> </u>	0	33	33
nutrient loss in										
processing	1	0	20	20			0	0	20	20
Processing and	1	U	20	20			U	U	20	20
cooking				0			0	0	0	0
COOKING				U		l	U	U	U	U

1	-			1				1	
			0			0	0	0	0
			0			0	0	0	0
									0
			0			0	Ü		0
			0			0	0	0	0
			0			0	U	U	0
			0			0	0	0	0
									0
			0			0	0	0	0
1	0	0	0	0	14	14	0	14	14
						0	0	0	0
7	0	114	114	0	14	14	0	128	128
ring									
			0			0	0	0	0
			0			0	0	0	0
			,			,			-
			0			0	0	0	0
			O			O	U	0	0
			0			0	0	0	0
			U			U	0	U	U
			0			0	0	0	0
			U			U	U	U	0
							_		
			U			U	0	0	0
									_
			0			0	0	0	0
						0	0	0	0
0	0	0	0	0	0	0	0	0	0
	Ţ								
6	60	31	91	47	38	85	107	69	176
	0	7 0 ring 0 0	7 0 114 ring 0 0 0 0 0	O O O O O O O O O O O O O O O O O O O					

Integrated										
Disease										
Management	3	0	0	0	104	2	106	104	2	106
Bio-control of										
pests and										
diseases	2	0	0	0	46	6	52	46	6	52
Production of										
bio control										
agents and bio										
pesticides	1	23	5	28	0	0	0	23	5	28
Others (pl										
specify)				0			0	0	0	0
Total	12	83	36	119	197	46	243	280	82	362
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				Ü			Ü	Ü	Ū	
fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster				Ü			Ü	Ü		
farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing				0			U	U	0	U
and value										
addition				0			0	0	0	0
Others				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
IX Production of			U	U	U	U	U	U	U	U
Seed Production	mpuis al	5116		0			0	0	0	0
				U			U	U	U	U
Planting material				0			0	0	0	0
production				0			0	0	0	0

D'										
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
Mushroom										
Production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl				0			U	0	U	0
specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
X Capacity Build					U	U	U	U	U	U
Leadership	ing and C	Houp	Dynami	CS						
development	4	42		42	90	30	120	132	30	162
	3	42				13				
Group dynamics	3			0	93	13	106	93	13	106
Formation and										
Management of SHGs				0			0	0	0	0
				0			0	0	0	0
Mobilization of				0			0	0	0	0
social capital				0			0	0	0	0
Entrepreneurial										
development of				0			0	0	0	0
farmers/youths				0			0	0	0	0
WTO and IPR				_			_	_		_
issues				0			0	0	0	0
Others				0			0	0	0	0
Total	7	42	0	42	183	43	226	225	43	268
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
Others (pl										
specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
GRAND							127	112		160
TOTAL	54	156	166	322	971	308	9	7	474	1

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus) $\,$

Thematic area	No. of	Participants Others SC/ST Crond Total										
	course		Others			SC/ST		G	rand Tot	al		
	S	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota		
		e	e	l	e	e	l	e	e	l		
(A) Farmers & Fa	arm Woi	men										
I Crop												
Production												
Weed												
Management	1	0	0	0	41	0	41	41	0	41		
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	0	0	0	0	0	0	0	0	0	0		
Micro												
Irrigation/irrigati												
on	0	0	0	0	0	0	0	0	0	0		
Seed production	0	0	0	0	0	0	0	0	0	0		
Nursery												
management	1	0	40	40	0	0	0	0	40	40		
Integrated Crop												
Management	7	0	0	0	157	133	290	157	133	290		
Soil & water												
conservatioin	0	0	0	0	0	0	0	0	0	0		
Integrated												
nutrient												
management	0	0	0	0	0	0	0	0	0	0		
Production of												
organic inputs	0	0	0	0	0	0	0	0	0	0		
Others	0	0	0	0	0	0	0	0	0	0		
Total	9	0	40	40	198	133	331	198	173	371		

II Horticulture										
a) Vegetable										
Crops										
Production of										
low value and										
high valume										
crops	0	0	0	0	0	0	0	0	0	0
Off-season					-					
vegetables	2	5	30	35	14	7	21	19	37	56
Nursery raising	3	15	49	64	9	9	18	24	58	82
Exotic	3	10	.,,	0.			10		- 20	02
vegetables	0	0	0	0	0	0	0	0	0	0
Export potential	Ŭ	Ü	- U	Ŭ	· ·	0		Ů	Ü	Ü
vegetables	0	0	0	0	0	0	0	0	0	0
Grading and	·	0	0	U	0	0	0	U	0	- 0
standardization	0	0	0	0	0	0	0	0	0	0
Protective	·	0	0	U	0	0	0	U	0	- 0
cultivation	1	0	0	0	36	1	37	36	1	37
Others (pl	1	Ū	Ü	Ŭ	50	1	3,			37
specify)	0	0	0	0	0	0	0	0	0	0
Total (a)	6	20	79	99	59	17	76	79	96	175
b) Fruits	0	20	17	"	37	17	70	17	70	175
Training and										
Pruning and	0	0	0	0	0	0	0	0	0	0
Layout and	U	0	0	U	0	0	0	U	0	- 0
Management of										
Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of	Ü	Ū	Ü	Ŭ	Ü	Ü	Ü	Ů	Ü	Ü
Fruit	0	0	0	0	0	0	0	0	0	0
Management of	Ü	Ū	Ü	Ŭ	Ü	Ü	Ü	Ů	Ü	Ü
young										
plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of	Ū				Ū					
old orchards	1	0	0	0	23	2	25	23	2	25
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	ű	·	Ţ	-		,			-	-
propagation										
techniques	3	24	18	42	19	1	20	43	19	62
Others	0	0	0	0	0	0	0	0	0	0
Total (b)	4	24	18	42	42	3	45	66	21	87
c) Ornamental	-									<u> </u>
Plants										
Nursery										
Management	0	0	0	0	0	0	0	0	0	0
<i>G</i>	ű	-	~	-		-	_		Ţ.	-

1 C										
Management of	0	0	0	0	0	0	0	0	0	0
potted plants	0	0	0	0	0	0	0	0	0	0
Export potential										
of ornamental	0	0	0	0	0	0	0	0	0	0
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
Others (pl										
specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	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
Others (pl										
specify)	0	0	0	0	0	0	0	0	0	0
Total (d)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and										
Management										
technology	1	0	0	0	15	0	15	15	0	15
Processing and										
value addition	0	0	0	0	0	0	0	0	0	0
Others (pl										
specify)	0	0	0	0	0	0	0	0	0	0
Total (e)	1	0	0	0	15	0	15	15	0	15
f) Spices		Ů	- v							
Production and										
Management										
technology	0	0	0	0	0	0	0	0	0	0
Processing and	U	0	0	0	Ü	0	0	Ü	U	0
value addition	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total (f)	0	0	0	0	0	0	0	0	0	0
i i			-	U	U	U	U	U	U	U
g) Medicinal and	Aromau	c Plan	ts					1		
Nursery		0		0	^	0	0	0		0
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

Others	0	0	0	0	0	0	0	0	0	0
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	11	44	97	141	116	20	136	160	117	277
III Soil Health an		tv Mar				-			ı	
Soil fertility			8							
management	0	0	0	0	0	0	0	0	0	0
Integrated water										
management	2	0	0	0	79	10	89	79	10	89
Integrated										
Nutrient										
Management	2	31	16	47	35	0	35	66	16	82
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
Balance use of										
fertilizers	0	0	0	0	0	0	0	0	0	0
Soil and Water										
Testing	0	0	0	0	0	0	0	0	0	0
Others (pl										
specify)	0	0	0	0	0	0	0	0	0	0
Total	4	31	16	47	114	10	124	145	26	171
IV Livestock Proc	luction a	nd Ma	anageme	nt	1			1	T	
Dairy	_									
Management	5	0	0	0	125	36	161	125	36	161
Poultry						_				
Management	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0		0	0				
Management	0	0	0	0	0	0	0	0	0	0
Rabbit	0	0	0	0	0	0				
Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition	ا ہ	0		_	0.5	25	110	0.5	25	110
Management	5	0	0	0	85	25	110	85	25	110
Disease	_ ا		_	^	122	10	1 ~ 1	122	10	1 ~ 1
Management	5	0	0	0	132	19	151	132	19	151
Feed & fodder	2			^	110	10	121	110	10	101
technology	3	0	0	0	118	13	131	118	13	131
Production of										
quality animal	0	0	_	^		0		_	_	0
products	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	18	0	0	0	460	93	553	460	93	553

V Home Science/V	Women e	empow	erment							
Household food		•								
security by										
kitchen										
gardening and										
nutrition										
gardening	2	4	42	46	0	0	0	4	42	46
Design and										
development of										
low/minimum										
cost diet	3	0	40	40	0	0	0	0	40	40
Designing and										
development for										
high nutrient										
efficiency diet	2	0	57	57	0	0	0	0	57	57
Minimization of										
nutrient loss in										
processing	1	0	20	20	0	0	0	0	20	20
Processing and										
cooking	0	0	0	0	0	0	0	0	0	0
Gender										
mainstreaming										
through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss										
minimization										
techniques	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Women										
empowerment	1	1	38	39	0	0	0	1	38	39
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	2	0	24	24	0	14	14	0	38	38
Others	0	0	0	0	0	0	0	0	0	0
Total	11	5	221	226	0	14	14	5	235	240
VI Agril.										
Engineering										
Farm Machinary										
and its										
maintenance	0	0	0	0	0	0	0	0	0	0
Installation and										
maintenance of										
micro irrigation										
systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in										
farming practices	0	0	0	0	0	0	0	0	0	0

Production of										
small tools and	0	0	0	0	0	0	0	0	0	0
implements	0	0	0	0	0	0	0	0	0	0
Repair and										
maintenance of										
farm machinery	0	0	0	0	0	0	0	0	0	0
and implements Small scale	U	0	U	0	U	U	U	U	U	0
processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest	0	0	U	0	U	U	0	U	0	0
	0	0	0	0	0	0	0	0	0	0
Technology	U	U	U	U	U	U	U	0	U	U
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
	U	U	U	U	U	U	U	U	U	U
VII Plant Protection										
Integrated Pest	7	70	46	116	47	38	85	117	84	201
Management	/	70	40	110	47	36	83	11/	04	201
Integrated Disease										
	4	8	17	25	104	2	106	112	19	131
Management Bio-control of	4	0	1 /	23	104		100	112	19	131
pests and diseases	4	130	9	139	46	6	52	176	15	191
Production of	4	130)	139	40	0	32	170	13	171
bio control										
agents and bio										
pesticides	1	23	5	28	0	0	0	23	5	28
Others	0	0	0	0	0	0	0	0	0	0
Total	16	231	77	308	197	46	243	428	123	551
VIII Fisheries	10	231	77	300	171	70	273	720	123	331
Integrated fish										
farming	0	0	0	0	0	0	0	0	0	0
Carp breeding	0	0	0	O	U	U	0	U	0	U
and hatchery										
management	0	0	0	0	0	0	0	0	0	0
Carp fry and	0	Ü	Ü	Ü	Ü	<u> </u>	Ü	Ŭ	Ü	Ů.
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										
			L.							
ornamental										

D + 11 1 +										
Portable plastic	0	0	0	0	0	0	0	0	0	0
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
Others (pl										
specify)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
IX Production of	_						Ī			
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
Mushroom										
Production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl										-
specify)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0

X Capacity Buildi	ing and (Group	Dynami	cs						
Leadership										
development	4	42	0	42	90	30	120	132	30	162
Group dynamics	7	0	0	0	207	15	222	207	15	222
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	3	0	0	0	59	35	94	59	35	94
WTO and IPR										
issues	0	0	0	0	0	0	0	0	0	0
Others (pl										
specify)	0	0	0	0	0	0	0	0	0	0
Total	14	42	0	42	356	80	436	398	80	478
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
Others	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	83	353	451	804	1441	396	1837	1794	847	2641

Training for Rural Youths including sponsored training programmes (On campus)

	No of				N	lo. of Partici	pants			
Area of	No. of Cour		General			SC/ST		(Grand Tot	al
training	ses	Male	Fema le	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1			0	14	17	31	14	17	31
Training and pruning of orchards				0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0

Integrated								
farming		0			0	0	0	0
Seed		0			0	0	0	0
production		0			0	0	0	U
Production of								
organic		0			0	0	0	0
inputs								
Planting								
material		0			0	0	0	0
production								
Vermi-		0			0	0	0	0
culture							Ŭ	
Mushroom		0			0	0	0	0
Production								
Bee-keeping	1	0	14	17	31	14	17	31
Sericulture		0			0	0	0	0
Repair and								
maintenance								
of farm		0			0	0	0	0
machinery								
and								
implements								
Value addition		0			0	0	0	0
Small scale								
		0			0	0	0	0
processing Post Harvest								
Technology		0			0	0	0	0
Tailoring and								
Stitching and		0			0	0	0	0
Rural Crafts		0			0	0	0	0
Production of								
quality								
animal		0			0	0	0	0
products								
Dairying		0			0	0	0	0
Sheep and								
goat rearing		0			0	0	0	0
Quail					0	0	0	0
farming		0			0	0	0	0
Piggery		0			0	0	0	0
Rabbit		0			0	0	0	0
farming		 U			U	0	U	U
Poultry		0			0	0	0	0
production		U			U	U		U
Ornamental		0			0	0	0	0
fisheries		U			U	U	U	U
Composite		0			0	0	0	0
fish culture		J			U	U		U

Freshwater prawn culture				0			0	0	0	0
Shrimp				0			0	0	0	0
farming										
Pearl culture				0			0	0	0	0
Cold water				0			0	0	0	0
fisheries				U			U	U	U	U
Fish harvest										
and				0			0	0	0	0
processing				U			U	U	U	U
technology										
Fry and										
fingerling				0			0	0	0	0
rearing										
Any other				0			0	0	0	0
TOTAL	2	0	0	0	28	34	62	28	34	62

Training for Rural Youths including sponsored training programmes (Off campus)

Area of training	No. of Course	No. of Participants								
		General				SC/ST		Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery										
Management of				0			0	0	0	0
Horticulture crops										
Training and										
pruning of				0			0	0	0	0
orchards										
Protected										
cultivation of				0			0	0	0	0
vegetable crops										
Commercial fruit				0			0	0	0	0
production				U			U	U	U	U
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of				0			0	0	0	0
organic inputs			U	U			U	U	U	U
Planting material				0			0	0	0	0
production				U	<u></u>		U			
Vermi-culture				0			0	0	0	0
Mushroom				0			0	0	0	0
Production				U			U	U	U	U
Bee-keeping				0			0	0	0	0
Sericulture				0			0	0	0	0
Repair and										
maintenance of				0			0	0	0	0
farm machinery										
and implements										
Value addition				0			0	0	0	0
Small scale				0			0	0	0	0

processing										
Post Harvest				0			0	0	0	0
Technology				U			U	U	U	U
Tailoring and				0			0	0	0	0
Stitching				U			U	U	U	U
Rural Crafts				0			0	0	0	0
Production of										
quality animal				0			0	0	0	0
products										
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
Composite fish										
culture				0			0	0	0	0
Freshwater prawn				0			0		0	0
culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water				0			0	0	0	0
fisheries				0			U	U	U	U
Fish harvest and										
processing				0			0	0	0	0
technology										
Fry and fingerling				0			0	0	0	0
rearing				Ü			U	0	9	U
Any other				0			0	0	0	0
(pl.specify)										
TOTAL	0	0	0	0	0	0	0	0	0	0

	No. of				No	of Partici	pants			
Area of training	Course		General			SC/ST		(Frand Tota	al
Area or training	S	Mal e	Femal e	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1			0	14	17	31	14	17	31
Training and pruning of orchards				0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0

Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic				0			0	0	0	0
inputs				0			U	U	0	0
Planting material				0			0	0	0	0
production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Bee-keeping	1			0	14	17	31	14	17	31
Sericulture				0			0	0	0	0
Repair and maintenance										
of farm machinery and				0			0	0	0	0
implements										
Value addition				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest				0			0	0	0	0
Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Production of quality				0			0	0	0	0
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
Composite fish culture				0			0	0	0	0
Freshwater prawn										
culture				0			0	0	0	0
Shrimp farming			1	0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries			1	0			0	0	0	0
Fish harvest and			1							
processing technology				0			0	0	0	0
Fry and fingerling			1							
rearing				0			0	0	0	0
Any other (pl. specify)				0			0	0	0	0
TOTAL	2	0	0	0	28	34	62	28	34	62

Training programmes for Extension Personnel including sponsored training programmes (on campus)

	No. of				No	o. of Parti	cipants			
Area of training	Course		General			SC/ST		G	rand Tota	l
g	s	Mal e	Femal e	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field	1	25	0	25	0	0	0	25	0	25

crops										
Integrated Pest				0			0	0	0	0
Management				U			U	U	U	U
Integrated Nutrient				0			0	0	0	0
management				Ü			O .	· ·	· ·	· ·
Rejuvenation of old				0			0	0	0	0
orchards				0			Ů	Ů	Ů.	Ů
Protected cultivation				0			0	0	0	0
technology				Ů			Ŭ	Ů	Ů	Ů
Production and use of				0			0	0	0	0
organic inputs				Ů					Ü	
Care and maintenance										
of farm machinery and				0			0	0	0	0
implements										
Gender mainstreaming				0			0	0	0	0
through SHGs										
Formation and				0			0	0	0	0
Management of SHGs				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient				0			0	0	0	0
Crown Dynamics and										
Group Dynamics and				0			0	0	0	0
farmers organization Information networking										
among farmers				0			0	0	0	0
Capacity building for										
ICT application				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
Any other (pl. specify)				0			0	0	0	0
TOTAL	1	25	0	25	0	0	0	25	0	25

Training programmes for Extension Personnel including sponsored training programmes (off campus)

	No. of				No	o. of Parti	cipants			
Area of training	Course		General	l		SC/ST		(Grand Tota	ıl
	S	Mal e	Femal e	Total	Male	Female	Total	Male	Female	Total
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
Production and use of										
organic inputs				0			0	0	0	0
Care and maintenance										
of farm machinery and										
implements				0			0	0	0	0
Gender mainstreaming										
through SHGs				0			0	0	0	0
Formation and										
Management of SHGs				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
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
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
Any other (pl.specify)				0			0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + Off campus)

	No. of				No.	of Partici	pants			
Area of training	Course		General			SC/ST		G	rand Tota	al
	S	Mal e	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	25	0	25	0	0	0	25	0	25
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
Production and use of organic inputs				0			0	0	0	0

Care and maintenance										
of farm machinery				0			0	0	0	0
and implements										
Gender										
mainstreaming				0			0	0	0	0
through SHGs										
Formation and				0			0	0	0	0
Management of SHGs				U			U	U	U	U
Women and Child				0			0	0	0	0
care				U			U	U	U	U
Low cost and nutrient										
efficient diet				0			0	0	0	0
designing										
Group Dynamics and				0			0	0	0	0
farmers organization				U			U	U	U	U
Information										
networking among				0			0	0	0	0
farmers										
Capacity building for				0			0	0	0	0
ICT application				U			U	U	U	U
Management in farm				0			0	0	0	0
animals				U			U	U	U	U
Livestock feed and				0			0	0	0	0
fodder production				U			U	U	U	U
Household food				0			0	0	0	0
security				U			U	U	U	U
Any other (pl.specify)				0			0	0	0	0
TOTAL	1	25	0	25	0	0	0	25	0	25

Table. Sponsored training programmes

	No. of				No.	of Partici	pants			
	Course		Genera	l		SC/ST		G	Frand Tota	al
Area of training		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and										
management										
Increasing production										
and productivity of										
crops				0			0	0	0	0
Commercial production	2									
of vegetables		36	41	77	0	0	0	36	41	77
Production and value ac	ddition									
Fruit Plants				0			0	0	0	0
Ornamental plants				0			0	0	0	0
Spices crops				0			0	0	0	0
Soil health and fertility										
management				0			0	0	0	0
Production of Inputs at										
site				0			0	0	0	0
Methods of protective				0			0	0	0	0

cultivation										
Others (pl. specify)				0			0	0	0	0
Total	2	36	41	77	0	0	0	36	41	77
Post harvest technology	and val	ue add	lition				1			
Processing and value										
addition				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Farm machinery										
Farm machinery, tools										
and implements				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Livestock and										
fisheries										
Livestock production	2									
and management				0	41	15	56	41	15	56
Animal Nutrition	1									
Management				0	11	22	33	11	22	33
Animal Disease	3									
Management				0	18	53	71	18	53	71
Fisheries Nutrition				0			0	0	0	0
Fisheries Management				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
Total	6	0	0	0	70	90	160	70	90	160
Home Science										
Household nutritional										
security				0			0	0	0	0
Economic										
empowerment of										
women				0			0	0	0	0
Drudgery reduction of							_			
women				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Agricultural										
Extension										
Capacity Building and				6					6	_
Group Dynamics				0	107		0	0	0	0
Income generations	3	0	0	0	105	0	105	105	0	105
Total	3	0	0	0	105	0	105	105	0	105
GRAND TOTAL	11	36	41	77	175	90	265	211	131	342

Name of sponsoring agencies involved: ATMA, Animal Husbandry Department, Agriculture Department, Ambuja Cement Foundation, NABARD, Forest Department, Reliance Foundation

Details of vocational training programmes carried out by KVKs for rural youth

Details of vocational training	No. of		Lairie	ı out i	_	No. of Par		utii		
			C1			SC/ST	ticipants		Grand Tota	ıl
Area of training	Courses		General			Female	Total	Male	Female	Total
Area of training Crop production and		Male	Female	Total	Male	remaie	Total	Maie	remaie	1 Otal
management										
Commercial floriculture				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Commercial vegetable				Ŭ						U
production				0			0	0	0	0
Integrated crop management				0			0	0	0	0
Organic farming				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Post harvest technology										
and value addition										
Value addition	1	0	32	32			0	0	32	32
Others (pl. specify)				0			0	0	0	0
Total	1	0	32	32			0	0	32	32
Livestock and fisheries										
Dairy farming				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Piggery				0			0	0	0	0
Poultry farming				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Income generation activities										
Vermi-composting				0			0	0	0	0
Production of bio-agents,										
bio-pesticides,				0			0	0	0	0
bio-fertilizers etc.				0			0	0	0	0
Repair and maintenance of										
farm machinery				0			0	0	0	0
and implements				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Seed production				0			0	0	0	0
Sericulture				0			0	0	0	0
Mushroom cultivation				0			0	0	0	0
Nursery, grafting etc.	1	0	0	0	50	0	50	50	0	50
Tailoring, stitching, embroidery, dying etc.				0			0	0	0	0
Agril. para-workers, para-vet										
training				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
Total	1	0	0	0	50	0	50	50	0	50

Agricultural Extension										
Capacity building and group										
dynamics				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	2	0	32	32	50	0	50	50	32	82

IV. Extension Programmes

			No. of Extension	TOTAL
Activities	No. of programmes	No. of farmers	Personnel	
Advisory Services	1	796	59	855
Diagnostic visits	84	163	6	169
Field Day	6	242	27	269
Group discussions	6	85		85
Kisan Ghosthi	17	1142	117	1259
Film Show	28	763	20	783
Self -help groups	2	36	4	40
Kisan Mela	12	4800	96	4896
Exhibition	1	150	15	165
Scientists' visit to farmers field	54	283		283
Plant/animal health camps	2	276		276
Farm Science Club	1	16	1	17
Ex-trainees Sammelan	0	0	0	0
Farmers' seminar/workshop				0
Method Demonstrations	2	150	15	165
Celebration of important days	3	219	172	391
Special day celebration	1	450	43	493
Exposure visits	2	50		50
Pre Kharif Campaign	7	660	53	713
Total	229	10281	628	10909

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	5000
News paper coverage	4
Popular articles	5
Radio Talks	1
TV Talks	2
Animal health amps (Number of animals treated)	276
Others (pl. specify)	
Total	5288

Mobile Advisory Services

Name of	Message Type	Type of Messages								
KVK	Wessage Type	Crop	Livestock	Weather	Marketing	Awar e-ness	Other enterprise	Total		
Surat	Text only	1852	5868	1343	-	6277	-	15340		
	Voice only	-	-	-	-	-	-	-		
	Voice & Text both	-	-	-	-	-	-	-		
Total Messages		4	1	1	-	4	-	10		
Total farmers Benefitted		1852	5868	1343	-	6277	-	15340		

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organized Technology Week	Types of Activities	No. of Activi ties	Number of Particip ants	Related crop/livestock technology
				Rabi crops and animal
	Gosthies	6	810	husbandry
	Lectures organized			
	Exhibition			
	Film show	6	810	
	Fair	0		
	Farm Visit	0		
	Diagnostic Practical	0		
	Distribution of Literature			
one (27.1.2016 to	(No.)	5	810	
one (27-1-2016 to 2.2.2016)	Distribution of Seed (q)	0		
2.2.2010)	Distribution of Planting			
	materials (No.)	0		
	Bio Product distribution			
	(Kg)	0		
	Bio Fertilizers (q)	0		
	Distribution of fingerlings	0		
	Distribution of Livestock			
	specimen (No.)	0		
	Total number of farmers			
	visited the technology week		810	

VI. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Paddy	GNR - 3		21.25	57800	80

Oilseeds			
Pulses			
Commercial crops			
Vegetables			
Flower crops			
Spices			
Fodder crop seeds			
Fiber crops			
T			
Forest Species			
041			
Others			
T. 4 . 1			
Total			

Production of planting materials by the KVKs - NILL

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
Fruits						
Ornamental plants						
Medicinal and Aromatic						

Plantation			
Spices			
Tuber			
Fodder crop saplings			
Forest Species			
Others			
Total			

Production of Bio-Products –NILL

	Name of the bio-product	Quantity	7	
Bio Products	-			No. of Farmers
Bio Fertilisers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
Total				

Table: Production of livestock materials - NILL

	Name of the breed	Number	Value (Rs.)	No. of Farmers
Particulars of Live stock				
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				

Broilers		
Layers		
Duals (broiler and layer)		
Japanese Quail		
Turkey		
Emu		
Ducks		
Others (Pl. specify)		
Piggery		
Piglet		
Others (Pl.specify)		
Fisheries		
Indian carp		
Exotic carp		
Others (Pl. specify)		
Total		

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	250	250	10	
Water				
Plant				
Manure				
Others (pl. specify)				
Total				

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted					
KVK, Surat	Fourth SAC dated 22/02/2016					

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution

X. PUBLICATIONS

BOOKS:

- 1. **J.J Pastagia, L.V. Ghetiya, C.U. Shinde and G.G. Radadia (2015)** Sankalit undar niyantran: Publisher Department of Agriculture, District Pancayat, Surat
- 2. N.K. Gabani, J.J. Pastagia, N.G. Gamit. and K.V. Patel (2015) Vividh Pako Ni Khetima Sankalit Rogjivat Niyantaran: Publish by ATMA, Surat

Research papers:

- Chawda S. K., Sabalpara A. N. and Patel H. V. (2015). "Studies On Biochemical Changes In Healthy And Infected Turmeric Rhizome (*Curcuma Longa L.*). J. of Bioinnovation, 269-278.
- V.C. Gadhiya and J.J Pastagia (2015). Toxicity of some newer insecticide to Stingless bees *Tetragonula laeviceps, Pestology* 39(11): 16-18
- V.C Gadhiya and J.J Pastagia (2015). Flowers visited by stingless bees *Tetragonula laeviceps* Smith. AGRES, *An international e- journal* 4(4):323-330.
- **P.D.Verma**(2015) Women empowerment through agrobesed entrepreneurship: National Seminar on "Understanding Women Empowerment" held during 28-29-10/2015 at Veer Narmad South Gujarat University- Surat
- Patel C. N., Patel H. K., Lakum Y. C., Parmar J. R. and Suthar J. V. (2015). "Effect of Integrated Nutrient Management and Spacing on Green Cob Yield, Quality Parameter and Economic of Sweet Corn". *J. of Pure and Applied Microbiology*, 9 (4): 3321-24.
- Patel H. V., Radadia G. G. and Chawda S. K. (2015). "Seasonal incidence of major insect pests of brinjal crop during summer season, 20 (4): 149-150.

Suthar J. V., Sadhu A. C., Patel H. K., Patel C. S. and Parmar J. R. (2015). "Response of summer groundnut to irrigations at critical growth stages, gypsum application and evapo-transpiration suppressants under middle Gujarat conditions". An abstract published in Souvenir of ISPP West Zonal seminar on "Enhancement of crop productivity through physiological interventions" organized by Indian Society for Plant Physiology, New Delhi and and NAU, Navsari on 11th May, 2015.

Popular articles:

- **J.J Pastagia and M.B. Patel (2015).** Bee keeping Potentials in South Gujarat Souvenir State level seminar on Awaremess, Motivation and Technology transfer for development of bee keeping in Gujarat organized by National Bee Board at Waghai, Dangs on 18-19 Dec.2015
- **J.J. Pastagia** (2016) Net house / green house ma paragnayan: Ek Prayas Jan-2016
- **P.D. Verma and J.J.Pastagia** (2015) Jamin tandurasti panch supriya karykram krushi jagaran December :47-49
- **P.D. Verma and J.J. Pastagia (2016)** Jamin ni tandurasti mate panch supriya karyakram apanavo: Krishi Govidhya 68 (10): 14-16
- Suthar J. V., Pastagia J. J., Chawda S. K. (2015). Sustainable Sugarcane Initiative (SSI) Sherdi ni ek adhunik kheti paddhati: Krishijivan, September, 2015: 13-14.

Paper Presented in Seminars:

- **P.D.Verma** (2015) Presented a paper on Women empowerment through agrobesed entrepreneurship: National Seminar on "Understanding Women Empowerment" held during 28-29-10/2015 at Veer Narmad South Gujarat University- Surat
- P.D.Verma (2015) Paper presented on Dissemination Bee Keeping technologies among tribals. District level seminar on "Bee keeping Potentials in South Gujarat Awaremess, Motivation and Technology transfer for development of bee keeping in Gujarat organized by National Bee Board at Waghai, Dangs on 18-19 Dec.2015
- P.D.Verma (2015) Paper presented on Socio-economic dimension of Beekeeping in tribal areas. District level seminar on "Bee keeping Potentials in South Gujarat Awaremess, Motivation and Technology transfer for development of bee keeping in Gujarat organized by National Bee Board at Waghai, Dangs on 18-19 Dec.2015
- J.J. Pastagia (2015) Paper presented on Beekeeping in South Gujarat. District level seminar on "Bee keeping Potentials in South Gujarat Awaremess, Motivation and Technology transfer for development of bee keeping in Gujarat organized by National Bee Board at Waghai, Dangs on 18-19 Dec.2015

- P. D. Verma, Hitesh Parmar and J. J. Pastagia (2016). Knowledge and adoption of dairy husbandry practices in tribal area a paper presented in National Seminar on Contemporary innovations for Quantum Extension in Agricultural Development organized by Junagadh Agricultural University and Society of Extension Education, Gujarat on 18-19 March, 2016
- P. D. Verma and J. J. Pastagia (2016). FLDs: A torch Bearer Approach To Disseminate Improved Technology a paper presented in National Seminar on Contemporary innovations for Quantum Extension in Agricultural Development organized by Junagadh Agricultural University and Society of Extension Education, Gujarat on 18-19 March, 2016.
- P. D. Verma, Hitesh Parmar and J. J. Pastagia (2016). Factors prone to milk yield of dairy animals in tribal area a paper presented in National Seminar on Contemporary innovations for Quantum Extension in Agricultural Development organized by Junagadh Agricultural University and Society of Extension Education, Gujarat on 18-19 March, 2016.

XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM - NILL

Activities conducted								
No. of Training programmes No. of Demonstration s No. of plant Visit by farmers officing produced No. of plant was produced (No.)								
		NILL						

XII. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL / HAILSTORM/COLD WAVES ETC - NILL

Introduction of alternate crops/varieties

Thiroduction of diterm	introduction of dicornace crops, varieties										
Crops/cultivars	Area (ha)	Extent of damage	Recovery of damage through KVK initiatives if any								
Total											

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		

Livestack components	Number of	No of participants
Farmers-scientists interac	tion on livestock management	
Total		
Tuber crops		
Tuber crops		
Vegetable crops		
Cereals		

Livestock components	Number of interactions	No.of participants		
Total				

Animal health camps organised

Timmer neutri camps organisca									
Number of camps	No.of animals	No.of farmers							
Total									

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

71111	1 wareness campaign											
	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												

XIII. DETAILS ON HRD ACTIVITIES

A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
		NILL		
Total				

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B. HRD activities organized in identified areas for KVK staff by ATARI

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
NIL			
Total			

XIV. CASE STUDIES

Case study I:

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	25000 (125000/ha)	
	ridge and furrow etc	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	25000 (125000/ha)	
	tillage ridge and furrow etc	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	
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.

Case study III

Title: Meha varieties of green gram: A suitable options for viable return in tribal areas.

No. of Farmers: 5 Village: Kadvali, Ta. Umarpada

Area under Crop per farmer: 0.24 ha Camparison: 1 ha.

Year	2013-14		
Crops	Green gram		
Variety	Meha		
Cost items	Physical Unit	Value in Rs.	
Preparatory Tillage	Ploughing and harrowing	2250	
Seeds (kg)	20	2000	
Fertilizers	DAP	1600	
Sowing cost	Line sowing	840	
Plant protection	Pesticides as and when	1050	
Irrigation	Four time	5000	
Weed Management	Manually	1800	
Harvesting	Manually	3600	
	Total	18140	
Miscellaneous	10%	1814	
Total cost		19954	
Production	1170 kg/ha		
	Total Income (Rs./ha)	81900	
	Total Benefit	61946	
	B:C Ratio	1:4.10	

Benefits and limitations of the system

- 1. Highly remunerative.
- 2. Improve soil fertility.
- 3. Gave higher yield and net profit as compare paddy.
- 4. Incidence of insect pest is less.
- 5. Yellow Vain Mosaic resistant variety.