

# ANNUAL PROGRESS REPORT OF KVK NANA-KANDHASAR (APRIL-14 TO MARCH-15)

## 1. GENERAL INFORMATION ABOUT THE KVK:

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

Address	Telephone	
	Office	Fax
Krishi Vigyan Kendra, Junagadh Agricultural University Nana-Kandhasar-363 520 Dist: Surendranagar	02751- 294120	02751-280121
	E-mail	
	<a href="mailto:surendranagar.kvk@gmail.com">surendranagar.kvk@gmail.com</a>	

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

Address	Telephone		E-mail
	Office	Fax	
Junagadh Agricultural University Junagadh- 362 001	0285-2672080-90	0285- 2672653	dee@ jau.in

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

Name	Telephone / Contact		
	Resi.	Mobile	E-mail
Dr. M. S. Chandawat Programme Coordinator Krishi Vigyan Kendra, Junagadh Agril. University Nanakandhasar-363 520 Dist: Surendranagar	--	9427508708	<a href="mailto:surendranagar.kvk@gmail.com">surendranagar.kvk@gmail.com</a>

## 1.4. Year of sanction: October, 2005

1.5. Staff Position (as on 31<sup>st</sup> March, 2015)

Sr. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay scale (Rs.) 6 <sup>th</sup> Pay	Present Basic+ grade pay (Rs.)	Date of joining
1	Programme Coordinator 1	Dr. M. S. Chandawat	Programme Coordinator	Extension Education	37400- 67000 (15600-39100 GP 8000 for first three years)	30320/-	31-03-2015
2	SMS 6	Mr. M. F. Bhoraniya	SMS	Plant Protection	15600-39100	28650/-	18-9-2012
3		Dr. B. C. Bochalya	SMS	Ext. Edu.	15600-39100	28200/-	23-8-2006
4		Dr. M. M. Tajapara	SMS	Animal Science	15600-39100	28200/-	22-8-2006
5		Mr. H. M. Bhuva	SMS	Agronomy	15600-39100	28200/-	30-8-2006
6		VACANT	SMS	Horticulture	15600-39100	-	VACANT
7		VACANT	SMS	Home Sci	15600-39100	-	VACANT
8		Programme Assistant 2	M K Kanani	Prog. Asstt	Entomology	13700 Fix	13700 Fix
9		M. V. Pokar	Farm Manager	Ext Edu	13700 Fix	13700 Fix	23-02-2012
10	Computer Programmer 1	P T Patel *	Computer Programmer	B.E. (Comp.)	9300-34800	16150/-	07-02-2008
11	Accountant / Superintendent 1	RP Vagadiya	O. S. cum Accountant	--	9300-34800	16150/-	01-12-2011
12	Stenographer 1	S. H. Shukla	Jr. steno	--	7800 fix	7800 fix	19-11-2013
13	Driver 2	Vacant	Tractor Driver	--	-	-	-
14		Mr. H. R. Gohil	Jeep Driver	--	5200-20200	14270/-	01-8-2006
15	Supporting staff 2	Mr. M. H. Solanki	Peon	--	4440-7440	11570/-	08-3-2006
16		Vacant	Peon	--	-	-	-

\* Working at Account Office, JAU, Junagadh

## 1.6. Total land with KVK (in ha):

Sr. No.	Item	Area (ha)
1	Under Buildings	04.00
2.	Under Demonstration Units	16.00
3.	Under Crops	
4.	Orchard/Agro-forestry	
5.	Others	20.00

## 1.7. Infrastructural Development:

## A) Buildings

	Name of building	Source of funding	Stage		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.) Total
1	Administrative Building	ICAR	23/7/09	595	30,20,600
2	Farmers Hostel			296	20,74,700
3	Staff Quarters - 6			--	30,55,000
4	Demonstration Shed - 2			78	6,16,000
5	Rat Proof godown			158	8,30,750
6	Implement Shed			77	3,00,000
6	Training Hall	RKVY	1/4/10	191	13,94,500
7	Pilot Scale Processing Plant			198	15,72,000
8	Godown/ store room			71	5,00,000
9	Implement Shed			77	3,00,000

## B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep Bolero (Purchased by KVK)	2006-07	4,96,000	308182	working condition

## C) Equipments &amp; AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer	2006-07	49968	Working Cond.
Copier Machine	2006-07	49816	Working Cond.
Automatic Seed Drill	2006-07	31500	Working Cond.
Tractor mounted Sprayer (200ltr)	2007-08	43000	Working Cond.
Shredder	2007-08	43000	Working Cond.
Dibbler	2007-08	900	Working Cond.
Cotton stock puller	2007-08	1200	Working Cond.
Digital copier with network	2008-09	115300	Working Cond.
Rain gun	2007-08	19800	Working Cond.
LCD projector	2008-09	89985	Working Cond.
Rotavator	2008-09	96000	Working Cond.
Laptop	2008-09	47500	Working Cond.
Harrow cum cultivator (2)	2008-09	75000	Working Cond.
Groundnut Decorticator	2008-09	96530	Working Cond.
Mobile seed processing unit	2008-09	1685000	Working Cond.
Thresher	2008-09	114000	Working Cond.
Zero till drill	2008-09	66700	Working Cond.
Air assisted blower type sprayer	2008-09	98750	Working Cond.
Digital Camera	2008-09	23600	Working Cond.
Plasma TV	2008-09	73750	Working Cond.
Power Tiller	2010-11	1,15,000	Working Cond.
Mini Tractor (Mahindra)	2011-12	1,98,000	Working Cond.
Trinocular Microscope	2012-13	2,90,000	Working Cond.
B.O.D. Incubator	2012-13	1,14,000	Working Cond.
Laminar Air Flow	2012-13	1,99,000	Working Cond.
Batch top centrifuge	2012-13	46,524	Working Cond.
Electronic Balance	2012-13	19,905	Working Cond.
TDS meter	2012-13	6,333	Working Cond.
Temp & humidity indicator & controller	2012-13	33,071	Working Cond.
Digital Hot Air Oven	2012-13	46,333	Working Cond.

Deep Fridge	2012-13	47,571	Working Cond.
Computer -2	2012-13	72,618	Working Cond.
Vertical Autoclave	2012-13	27,900	Working Cond.

#### 1.8. A). Details SAC meeting conducted in the 2014-15:

The Tenth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, JAU, Nana-Kandhasar was held at Conference Hall, KVK, Nana Kandhasar on 26 February, 2015. Following members were remain present in the meeting.

Sr. No.	Name & Designation	Position
1.	<b>Dr. A. R. Pathak</b> Vice Chancellor, JAU, Junagadh	Chairman
2.	<b>Dr. A. M. Parakhiya</b> Director of Extension Education, JAU, Junagadh.	Member
3.	<b>Dr. A. Y. Desai</b> Director of Research, JAU, Junagadh.	Member
4.	<b>Dr. K. N. Akbari</b> A.D.R. and Research Scientist (Dry Farming) Main Dry Farming Research Station, JAU, Targhadia	Member
5.	<b>Dr. B. B. Kabariya</b> Programme Co-ordinator, KVK, JAU, Targhadiya	Member
6.	<b>Dr. B. B. Kunjadiya</b> Programme Co-ordinator, KVK, JAU, Amreli	Member
7.	<b>Shri H. V. Gosai</b> Dy. Director of Agri (Training), Surendranagar	Member
8.	<b>Shri B. T. Vala</b> Project Director, IWMP, District Water Shed Development Unit, DRDA, Surendranagar	Member
9.	<b>Shri S. B. Sharma</b> Deputy Director, NHRDF, Rajkot	Member
10.	<b>Shri Bhavesh K. Patel</b> Dy. Project Director, ATMA, Surendranagar	Member
11.	<b>Shri N.K. Parmar</b> Assistant Director, GLDC, Surendranagar	Member
12.	<b>Shri H. A. Vidja</b> V.O., Representative DY Director of A.H., Surendranagar	Member
13.	<b>Shri Chandresh N. Patel</b> Horticulture Officer, Surendranagar	Member

14.	<b>Shri S. K. Tiwari</b> Seniour Technical Officer, NHRDF, Rajkot	Member
15.	<b>Shri C. M. Paranaliya</b> Representative DAO, Surendranagar	Member
16.	<b>Smt Minaxiben Bariya</b> SMS (Home science), KVK, Amreli	Invitee
17.	<b>Shri N. J. Zala</b> Extension Officer, Chotila, Surendranagar	Invitee
18.	<b>Smt. Jashuben D. Meniya</b> SMS (Chotila), ATMA	Invitee
19.	<b>Smt. Hakuben D. Jambukiya</b> At & Post : Magharikheda, Ta. Chotila, Dist. Surendranagar	Member
20.	<b>Shri Kalubhai B. Dhanadia</b> At & Post: Bhet, Ta. Muli, Dist.Surendranagar	Member
21.	<b>Shri Nathabhai Somabhai Sanghani</b> At & Post: Motimoldi, Ta. Chotila, Dist. Surendranagar	Member
22.	<b>Smt. Gitaben Pravinbhai Jambukiya</b> At & Post : Magharikheda, Ta. Chotila, Dist. Surendranagar	Member
23.	<b>Shri Ramasibhai Metaliya</b> At & Post: Panchavada, Ta. Chotila, Dist.Surendranagar	Member
24.	<b>Shri Pravinbhai Jambukiya</b> At & Post : Magharikheda, Ta. Chotila, Dist. Surendranagar	Invitee farmer
25.	<b>Shri Ranchhodbhai Kamabhai Sambad</b> At & Post: Resamiya, Ta. Chotila, Dist.Surendranagar	Member
26.	<b>Dr. R. M. Javia</b> Programme Co-ordinator, KVK, JAU, Nana-Kandhasar	Member- Secretary

#### COMMITTEE MADE THE FOLLOWING SUGGESTIONS:

- Detail component wise list of FLD farmers should be uploaded in JAU website
- Under ATIC, maximum number of FLDs in cluster should be conducted
- Soil & water samples of operational villages should be analyzed at KVK
- Soil fertility management awareness programme should be organized at village level.
- Need base vocational training programme for widows of surendranagar district should be organized (a.i. *Papad & khakhara* making, Handicraft, *Agarbati* making )

- Demonstration should be conducted on Bye pass protein in animals & Urea treatment in wheat.
- Artificial Insemination facilities should be provided to nearby villages of KVK (Semen should be collected from CBF, JAU, Junagadh)
- All Products of JAU should be sold through ATIC from KVK and utilized in farm.
- GW-366 variety should be used in FLD programme
- OFT should be conducted on “Application of fertilizer after Soil testing analysis” (KVK Nanakandhasar has finalized the OFT title: Response of soil test based fertilizers in Cumin)
- Training on Aqua culture should be conducted at Fisheries Research & Training Centre, JAU, Mahuva & date should be modify as per suggestion.

**Training should be organized on**

- Awareness for legal procedure for malpractices in seeds, fertilizers & quality aspects.
- Seeds production in Cotton
- Micro irrigation system
- Uses & residual effect of weedicides.
- Goat rearing

## 2. DETAILS OF DISTRICT:

### 2.1 Major farming systems/enterprises

(based on the analysis made by the KVK):

#### **Farming system/enterprise**

The district Surendranagar mainly falls in north Saurashtra agro-climatic zone. The district located in India at 22.0° to 23.45° North latitude and 69.45° to 72.15° East longitude. Surendranagar district is bounded in north by Gulf of Kutch and Mehasana district, in the south by Bhavnagar and part of Ahmedabad district, on the east by part of Ahmedabad and west by Rajkot district. The average annual rainfall is 400 mm. The average temperature of the district ranges with 41°C maximum to 11°C minimum. The soil is mostly medium black, shallow to moderately deep and calcareous in nature, therefore cotton is the major crop of the district. Some patches of saline soil found in Dasada and Lakhtar talukas, calcareous sandy soil found in some part of Chotila, Sayla & Dhangdhra taluka and loamy soil is found in some part of Halvad and Dhangdhra taluka. The pH of the soil is alkaline and underground water is non saline in nature.

The district covers 10.48 lakh ha geographical area out of which 6.90 lakh ha under cultivation, of which only 0.62 lakh ha is irrigated. Major area comes under rainfed farming. The main sources of irrigation are wells, tube wells, ponds and canals. The major crops of this region are cotton, sesame & pearl millet and others are sorghum, wheat, chick pea, groundnut, mustard, cumin, green gram, black gram, onion, garlic and vegetables. The fruit orchard area is very less.



## 2.2 Description of Agro-climatic Zone & major agro ecological situations

Agro-climatic Zone		Characteristics		
<b>PROFILE OF THE NORTH SAURASTRA AGRO - CLIMATIC ZONE VI - GUJARAT</b>				
1. Total geographical area	: 35.02 lakh ha.			
2. Area under forest	: 1.47 lakh ha.			
3. Area under non agricultural use	: 2.10 lakh ha.			
4. Barren and uncultivated land	: 2.52 lakh ha.			
5. Permanent pasture	: 2.45 lakh ha			
6. Current fallows	: 1.70 lakh ha			
7. Net sown area	: 22.17 lakh ha			
8. Total cropped area	: 25.77 lakh ha			
9. Area sown more than one	: 3.61 lakh ha			
10. Climate	: Arid and semi arid			
11. Average rainfall	: 542.14 mm			
12. Soil type	: Black to brown & Shallow to moderately deep soil			
13. Cropping pattern :	14. Major cropped area	15. Crop sequence:		
Crop	Area (lakh ha.)	(%)	Crop	
Kharif cereals	: 5.58	a) Kharif	Groundnut - -	
Kharif pulses	: 0.23	Groundnut	: 40	Groundnut - Wheat
Kharif oil seeds	: 12.14	Cotton	: 15	Groundnut - Mustard
Cash crops	: 4.00	Pearlmillet	: 12	Groundnut - Cumin
Rabi cereals	: 1.57	Sorghum	: 10	Groundnut - Chickpea
Rabi pulses	: 0.56	Sesamum	: 3	Pearl millet - Groundnut
Others	: 1.69	Others	: 20	Pearl millet- Green gram
		b) Rabi		Pearl millet- Cumin
		Wheat	: 5	Pearl millet- Mustard
		Chickpea	: 2	Pearl millet - Garlic
		Cumin	: 3	Cotton - -
				Cotton - Groundnut
				Cotton - Sorghum

### Agro ecological situation

#### North Saurashtra agro-climatic zone-VI, Gujarat

Eight agro-climatic zones have been identified in Gujarat. The North Saurashtra Agro climatic Zone-VI falls in Saurashtra region. The influence area of North Saurashtra Agro climatic Zone is spread among five districts of Saurashtra region viz., Amreli (9 talukas out of 11), Bhavnagar (6 talukas out of 13), Jamnagar (all the 10 talukas), Rajkot (11 talukas out of 14) and Surendranagar (7 talukas out of 10) covering 43 talukas in all. It is bounded in the north by the gulf of Kutch and parts of Rajkot as well as Surendranagar district, in the east by the Ahmadabad district and coastal part of Bhavnagar district, on the south by the Junagadh district and parts of Amreli as well as Rajkot district, to the west by Arabian sea. The farming situation of the district Surendranagar is rainfed.

#### 2.3 Soil type/s

Sr. No.	Soil type	Area
1	Medium black	Vadhvan & Muli
2	Saline & Alkaline soils	Dasada & Lakhatar
3	Shallow calcareous sandy soil	Dhanghdhra
4	Red Loamy soil	Halvad, Dhanghdhra
5	Low land soils	Limbadi, Lakhatar
6	Calcareous Sandy soil	Chotila, Sayla

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

Sr. No.	Crop	Area (ha)	Production (t)	Productivity (Kg/ha)
1	Cotton (Irri)	174200	336100	328
2	Cotton (Rainfed)	194900	107400	94
3	Sesame	27600	7200	261
4	Groundnut	12800	20700	1610
5	Wheat	30400	92400	3037
6	Cumin	305300	193700	634
7	Gram	12300	9100	739
8	Green Gram	1400	400	264
9	Mustard	300	500	1695

\*in the year of 2012-2013

## 2.5. Weather data

Month	Rainfall (mm)	Rainy Days	Temperature ° C		R. Humidity (%)	
			Max.	Min.	Max.	Min.
April -14	00	00	41.6	20.0	53	15
May-14	00	00	42.5	24.5	57	15
June-14	54	02	43.2	26.1	52	16
July-14	212	11	38.9	22.4	53	16
August-14	96	11	33.6	18.5	57	16
September-14	64	05	34.0	23.2	69	17
October-14	6.5	01	37.3	21.6	87	16
November-14	1.5	00	34.1	18.1	81	28
December-14	00	00	30.8	12.8	81	30
January-15	00	00	31.2	11.8	81	24
February-15	00	00	36.3	13.2	89	17
March-15	14	02	37.9	16.2	92	16

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

Category	Population	Production	Productivity
Cattle	2,93,758	54,61,197 lit	--
<i>Crossbred</i>	201		--
<i>Indigenous</i>	2,93,557		--
Buffalo	2,02,939		--
Sheep	1,00,589	--	--
Goats	1,79,648	--	--
Pigs	22,948	--	--
Rabbits	--	--	--
Poultry	--	--	--

## 2.6 Details of Operational area/ Villages (2014-15)

Sr. No.	Taluka	Name of block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	2	3	4	5	6	7
1	Chotila	Chotila	Magharikheda	Cotton, Bajra, Sesame, Pulses, Diary Farming,	Dry farming, Sucking pest in cotton, Reddening in cotton, Wild animals, Lower milk production.	Dry farming technology Awareness for vaccination & artificial insemination of animals
			Sangani	Coton, Bajra, Groundnut, Sesame, Pulses Diary Farming,	Dry farming, HS disease	Dry farming technology Awareness for vaccination & artificial insemination of animals
			Resamiya	Cotton, Cumin, Groundnut, Sesame, Pulses, Vegetables Diary Farming,	Dry farming, Lower milk production, HS disease	Dry farming technology, Awareness for vaccination & artificial insemination of animals
			Rajapara	Cotton, Bajra, Cumin, Wheat, Sesame, Diary Farming,	Dry farming, Injudicious use of fertilizers & Pesticides, Black quarter disease	Adoption of organic farming, Bio-fertilizers & Vermi-compost Dry farming technologies Awareness for vaccination & artificial insemination of animals
			Moti-modli	Cotton, Groundnut, Cumin, Wheat, Sesame, Diary Farming	Lack of knowledge of modern dry land technologies, lack of Awareness for vaccination & artificial insemination of animals	Awareness for vaccination & artificial insemination of animals

1	2	3	4	5	6	7
2	Sayla	Sayla	Sapar	Cotton, Castor, G'nut, Wheat Dairy Farming,	Lack of knowledge of modern dry land technologies, FMD	Dry farming technologies, Awareness for vaccination & artificial insemination of animals
			Ratanpar	Cotton, Wheat, Cumin, Sesame, Bajra	Lack of knowledge of modern dry land technologies, Injudicious use of fertilizers & Pesticides	Dry farming technologies
			Samatpar	Cotton, Bajra, Sesame, Wheat, Cumin, Dairy Farming, Horticulture	Lack of knowledge about weed, pest and diseases & nutrient management HS disease, Trypanosomiasis disease	To motivate farmers to grow arid and semi arid horticultural crops. Awareness for vaccination & artificial insemination of animals
			Titoda	Cotton, Wheat, Cumin, Sesame, Bajra, Groundnut	Lack of knowledge of modern dry land technologies, Injudicious use of fertilizers & Pesticides	Dry farming technologies,
			Nawa-sudamada	Horticulture Dairy Farming, Cotton, G'nut Sesame, Wheat, Cumin, Bajra	Rainfed farming, soil salinity, poor water quality FMD, Lack of knowledge of modern dry land technologies	Dry farming technologies, Awareness for vaccination & artificial insemination of animals
3	Limbad	Limbadi	Tokarala	Dairy Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	Soil salinity, Dry farming, poor drainage system FMD, Lack of knowledge of modern dry land technologies, INM, IPM etc	Dry farming technologies, Awareness for vaccination & artificial insemination of animals
			Raska	Dairy Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	Soil salinity, Dry farming Awareness for vaccination & artificial insemination of animals	Dry farming technologies, Awareness for vaccination & artificial insemination of animals
			Umedpar	Dairy Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	Soil salinity, dry farming low knowledge of scientific cultivation of crops, HS disease, Injudicious use of fertilizers & Pesticides	Dry farming technologies, Awareness for vaccination & artificial insemination of animals
			Zamdi	Dairy Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	Soil salinity, poor water quality for irrigation, low knowledge about INM, IPM, in crops,	Dry farming technologies, Awareness for vaccination & artificial insemination of animals

			Borana	Dairy Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra	Soil salinity, poor water quality for irrigation, , low knowledge about INM, IPM , in crops,	Dry farming technologies, Awareness for vaccination & artificial insemination of animals
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## 2.7 Prioritized thrust areas

Crop/ Enterprise	Thrust area
Cotton, Sesamum, Groundnut, Bajra	Dry farming technologies.
Animal Husbandry	Awareness for vaccination & artificial insemination of animals, use of area specific mineral mixtures
Crop Management	Adoption of organic farming, Bio-fertilizers & Vermi- compost.
Integrated Crop Management	Integrated weed, pest and diseases & nutrient management and efficient water management.
Home Science	Farm women empowerment.
Lemon, Ber	Motivate farmers to grow arid and semi arid horticultural crops.
Fisheries	Aqua culture & inland fisheries

### 3. TECHNICAL ACHIEVEMENTS:

#### 3.A Details of target and achievements of mandatory activities by KVK during 13-14

OFT (Technology Assessment and Refinement)					FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1					2			
Number of OFTs			Number of Farmers		Number of FLDs		Number of Farmers	
T	A		T	A	T	A	T	A
7	7		27	27	110	110	110	110
Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
					4			
Number of Courses			Number of Participants		Number of Activities		Number of Participants	
Clientele	T	A	T	A	T	A	T	A
F	88	87	1760	2381				
RY	14	12	280	278				
EF	5	3	125	87				
Seed Production (kg)					Planting material (Nos.)			
5					6			
T			A		T		A	
Groundnut: 10,000			9157		10000		12550	
Sesamum: 300			320					
Cumin: 400			300					

## 3.B. Abstract of interventions undertaken

Sr. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	2	3	4	5	6	7	8	9	10
1	-	Gram	Low yield	--	Varietal evaluation	Improved cultivation practices for gram & mustard		FLD, Field Days, Training	Seed input : Guj.Gram-3
2	-	Cumin	Low yield	--	Varietal evaluation	Plant protection measures for pest & disease in cumin		FLD, Field Days, Training	Seed input : Guj.Cumin-4
						Improved cultivation practices for wheat & cumin			
						Pure seed production technique in Cumin			
						Efficient water management in major rabi field crops			
3	-	Wheat	Low yield	--	Varietal evaluation	Improved cultivation practices for wheat & cumin		FLD, Field Days, Training	Seed input : GW-366
						Pure seed production technique in Wheat			



						Control measures for pest & disease in cumin & wheat			
4	--	Groundnut	Low yield	--	Varietal evaluation	Pure seed production technique in Groundnut		FLD, Field Days, Training	Seed input : GG-20
						IPM in G'nut			
						Pure seed production technique in Groundnut			
5	--	Sesamum	Low yield		Varietal evaluation	Pure seed production technique in sesamum		FLD, Field Days, Training	FLD : Seed inputs : Guj.Sesamum-4
						Pure seed production technique in sesamum			
						Improved cultivation practices for cotton and sesamum			
						Pure seed production technique in sesamum			
						Importance of thinning, gap filling & maintenance of plant populations in major kharif crops			
						Management of pest & disease of sesame			
6	--	Green Gram	Low yield	--	Varietal evaluation	Proper use of weedicides in field crops	FLD, Field Days,	FLD, Field Days,	FLD : Seed inputs : Guj.Greengram-4

						Control measures for pest & disease of kharif pulses	Training	Training	
						Integrated nutrient management in kharif field crops			
7	–	Cotton	Low yield	Low yield	INM	Improved cultivation practices for cotton and sesamum		FLD, Field Days, Training	FLD : Fertilizer : Posak (Multimicro) OFT : Insecticides : Methyl Parathionn 2 % dust Methyl parathion 50 % Chlorpyriphos 20 % Bio pesticides : <i>Verticillium lacani</i>
						IPM in cotton			
8	–	Bio-agent	Heavy infestation	Application of Tricho derma against stem rot Disease In C'nut	Yield evaluation	Importance of IDM		FLD, Field Days, Training	FLD : Bio-agent : <i>Trichoderma harzianum</i> Culture

### 3.1. Achievements on technologies assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	TOTAL
Varietals Evaluation	-	-	-	-	-
Seed / Plant production	-	-	-	1	1
Weed Management	-	-	-	-	-
Integrated Crop Management	-	-	-	2	2
INM	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
Drudgery reduction	-	-	-	-	-
Farm machineries	-	-	-	-	-
Value addition	-	-	-	-	-
IPM	-	-	-	2	2
IDM	-	-	-	-	-
Resource conservation technology	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-
<b>TOTAL</b>	-	-	-	5	5

#### A.2 Abstract of the number of technologies refined in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	TOTAL
Varietals Evaluation	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
Weed Management	-	-	-	-	-
Integrated Crop Mgmt	-	-	-	-	-
INM	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-

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Drudgery reduction	-	-	-	-	-
Farm machineries	-	-	-	-	-
Value addition	-	-	-	-	-
IPM	-	-	-	-	-
IDM	-	-	-	-	-
Resource conservation technology	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-
<b>TOTAL</b>	-	-	-	-	-

### A.3 Abstract of the number of technologies assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Other	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	1	-	-	1	-	2
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
Women & Child care	-	-	-	-	-	-
<b>TOTAL</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>2</b>

**A.4 Abstract of the number of technologies refined in respect of livestock / enterprises: NIL**

**B. Details of each On Farm Trial to be furnished in the following format**

**Trial 1: Chelated and area specific mineral mixture for dairy buffalo. (2014-15)**

1. Title of Technology assessed / Refined :  
\* Chelated and area specific mineral mixture for dairy buffalo
2. Problem Definition
  1. Low milk production
  2. Irregularity of heat after calving
  3. low conception rate after insemination
3. Details of technologies selected for assessment/refinement
  - T-1.Farmers practice (control)
  - T-2.Recommended practices: Buffalo fed with mineral mixture supplementation 30 gm/day
  - T-3.Buffalo fed with Chelated and Area specific mineral mixture supplementation 30 gm/day
- 4 Source of technology: Anand Agricultural University, Anand.
- 5 Production system: Increase milk yield & regularity of heat
- 6 Thematic area: Nutrition management
- 7 Performance of the Technology with performance indicators  
\*Result is in Table -A
- 8 Final recommendation for micro level situation :Nil
- 9 Constraints identified and feedback for research : NIL
- 10 Process of farmers participation and their reaction: Result is in Table -A
- 11 Result of On Farm Trial

Table - A

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Detail of the parameter
1	2	3	4	5	6	7	8
Buffalo	-	low milk production and irregularity of heat	Chelated and area specific mineral mixture for dairy buffalo	3	1.Farmers practice (control) 2.Recommended Buffalo fed with mineral mixture supplementation on 30 gm/day. 3.Buffalo fed with chelated and area specific mineral mixture supplementation on 30 gm/day	1.Milk yield 2.estrus after calving 3.No of insemination for conception	1..litre/day 2.day 3.No of insemination for conception

Pooled Results of assessment			Feedback from the farmer
9			10
Milk yield litre/day			Good response getting from animal owner.
T1	T2	T3	
8.4 liter	9.1 liter	10.2 liter	

Technology Assessed / Refined	Milk yield (lit) /lactation	Post partum estrus (Days)	Net Return (Profit) in Rs. / lactation	BC Ratio
T-1	1512	140	30480	2.02
T-2	1729	123	36960	2.15
T-3	2040	83	47800	2.41

**Result :** Buffalo fed with chelated and area specific mineral mixture supplementation give higher milk production and decrease the post partum estrus days.

**Note :** Experiment is to be continue for milk yield & estrus after calving and number of insemination for conception

## **Trial 2: Supplementary feeding for improving production performance of lactating goat (dose) (2014-15)**

1. Title of Technology assessed / Refined :

\* Supplementary feeding for improving production performance of lactating goat (does)

2. Problem Definition :

1. Low milk yield
2. Poor weight gain in pre-weaned kids

3. Details of technologies selected for assessment/refinement

1. Grazing for 8 hours -Farmers practices (Control)
2. T1 + Concentrate feed 150 gms/day for 3 months
3. T1+ T2 + mineral mixture 10 gm/day + vitamin A,D,E - 2 ml weekly for 2 weeks

4. Source of technology: Central Institute for research on Goat (CIRG) , Makhdoom.

5. Production system: To increase milk production & weight gain in pre-weaned kid

6. Thematic area: Nutrition management

7 Performance of the Technology with performance indicators

\*Result is in Table -A

8. Final recommendation for micro level situation :Nil

9. Constraints identified and feedback for research : NIL

10 Process of farmers participation and their reaction: Result is in Table -A

11. Result of On Farm Trial

Table - A

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Goat	-	Low milk yield, poor weight gain in pre-weaned kids	Supplementary feeding for improving production performance of lactating goat (does)	3	1. Grazing for 8 hours -Farmers practices (Control) 2.T1 + Concentrate feed 150 gms/day for 3 months. 3.T1+ T2 + mineral mixture 10 gm/day + vitamin A,D,E - 2 ml weekly for 2 weeks	1.Milk yield 2.estrus after calving 3.No of insemination for conception	1..litre/day 2.day 3.No of insemination for conception

Results of assessment			Feedback from the farmer
Milk yield litre/day			Results awaited
T1	T2	T3	To be continue
1.0	1.4	1.8	

Technology Assessed / Refined	Milk yield (lit) /lactation	Pre-weaned weight of kid (kg)	Net Return (Profit) in Rs. / lactation	BC Ratio
T-1	-	-	-	-
T-2	-	-	-	-
T-3	-	-	-	-

**Result : to be continue**



### **Trial 3: Management of Mealy bug infestation in Cotton. (2014-15)**

1. Title of Technology assessed / Refined :  
  
\* Management of Mealy bug infestation in Cotton
2. Problem Definition
  1. Lack of knowledge about the use of particular pesticides
  2. No adoption of recommended practices
  3. Farmers follows instruction given by the local pesticides retailer.
3. Details of technologies selected for assessment/refinement
  - T-1.Farmers practice (Use of conventional insecticides after infestation)
  - T-2.Recommended practices: pre-sowing application of Methyl parathion 2% Dust, application of insecticides at the time of infestation & Recommended cultural practices.
  - T-3.Dusting of Methyl parathion 2% dust as & when required + application of bio-pesticides (Beaveria spp. or Verticillium spp.)
- 4 Source of technology: Junagadh Agricultural University, Junagadh.
- 5 Production system: Reduce mealy bug infestation
- 6 Thematic area: IPM for suppression of mealy bug
- 7 Performance of the Technology with performance indicators  
  
\*Result is in Table -A
- 8 Final recommendation for micro level situation  
  
Recommended practices as well as Dusting of Methyl parathion 2% dust as & when required with application of bio-pesticides (Beauveria spp. or Verticillium spp.)
- 9 Constraints identified and feedback for research : NIL
- 10 Process of farmers participation and their reaction: Result is in Table -A
- 11 Result of On Farm Trial

Table - A

Crop/enterprise	Farming situation	Problem Diagnose	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Detail the parameter
1	2	3	4	5	6	7	8
Cotton	Irrigated	Mealy bug	Management of Mealy bug infestation in Cotton	3	1. Farmers practice (Use of conventional insecticides after infestation) 2. Recommended practices: pre-sowing application of Methyl parathion 2% Dust, application of insecticides at the time of infestation & Recommended cultural practices. 3. Dusting of Methyl parathion 2% dust as & when required, application of bio-pesticides (Beauveria spp. or Verticillium spp.)	Mealy bug infestation	% Plant infested with mealy bug

% Plant infestation with mealy bug			Feedback from farmer
T1	T2	T3	Maximum mealy bug infestation in T <sub>1</sub> followed by T <sub>3</sub> and T <sub>2</sub> treatments. Seed cotton yield was higher in recommended Practices
5.33	2.00	3.33	

Technology Assessed / Refined	Seed cotton (Qt/ha)	Net Return (Profit) in Rs. / unit	BC Ratio
T-1	19.92	52267	2.91
T-2	<b>22.07</b>	<b>61437</b>	<b>3.29</b>
T-3	21.22	58047	3.16

## **Trial 4: Management of sucking pests in Cotton. (2014-15)**

1. Title of Technology assessed / Refined :

**\* Management of sucking pests in Cotton**

2. Problem Definition

1. Lack of knowledge about the use of particular pesticides.
2. No adoption of recommended practices.
3. Farmers follows instruction given by the local pesticides retailer

3. Details of technologies selected for assessment/refinement

1. Farmers practice (Use of conventional insecticides after infestation)
2. Recommended practices Application of the systemic insecticide will be start at pest infestation occurred. (Acetamiprid: 20 SP @ 2 gm/10 litre of water or Imidacloprid: 200 SL @ 4 ml/10 litre or Cartep hydrochloride 50% S.P. @ 10 gm/10 Litre of water at the time of infestation.)
3. *Beauveria bassiana* 5 gm/lit as & when required, application of bio-pesticides + Sticker 0.5 ml/lit of water

4 Source of technology: Junagadh Agricultural University, Junagadh.

4 Production system: Management of sucking pests in cotton

5 Thematic area: IPM for suppression of sucking pest

6 Performance of the Technology with performance indicators

\*Result is in Table -A

7 Final recommendation for micro level situation

Maximum sucking pest infestation in T<sub>3</sub> followed by T<sub>1</sub> and T<sub>2</sub> treatments, spider and lady bird beetle population observed maximum in treatment T<sub>3</sub>, Seed cotton yield was higher in recommended Practices

8 Constraints identified and feedback for research : NIL

9 Process of farmers participation and their reaction: Result is in Table -A

10 Result of On Farm Trial

Table - A

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Date of the parameter
1	2	3	4	5	6	7	8
Cotton	Irrigated	To minimize the incidence of sucking pests in cotton	Management of sucking pests in Cotton	3	1. Farmers Practice (Use of conventional insecticides after infestation) 2. Recommended practices Application of the systemic insecticide will be start at pest infestation occurred. (Acetamiprid: 20 SP @ 2 gm/10 litre of water or Imidachloprid: 200 SL @ 4 ml/10 litre or Cartap hydrochloride 50% S.P. @ 10 gm/10 Litre of water at the time of infestation.) 3. <i>Beauveria bassiana</i> 5 gm/lit as & when required, application of bio-pesticides + Sticker 0.5 ml/lit of water	sucking pest infestation	Sucking pest population

Technology Assessed / Refined	Population				Seed cotton (Qt/ha)	Net Return (Profit) in Rs./ unit	BC Ratio
	Jassid/ 3 leaves	White Fly/ 3 leaves	Spider/ plant	Lady bird beetle/plant			
T <sub>1</sub>	10.12*	4.84*	0.32*	0.33*	21.70	58800	3.10
T <sub>2</sub>	<u>8.27*</u>	<u>3.38*</u>	<u>0.31*</u>	0.36*	<u>22.93</u>	<u>64533</u>	<u>3.37</u>
T <sub>3</sub>	11.11*	5.52*	<u>0.79*</u>	<u>0.94*</u>	21.00	57500	3.17

**Results :** Maximum sucking pest infestation in T<sub>3</sub> followed by T<sub>1</sub> and T<sub>2</sub> treatments, spider and lady bird beetle population observed maximum in treatment T<sub>3</sub>, Seed cotton yield was higher in recommended Practices

\* Data Indicated that Average of three different dated observations.

### **Trial 5: Assessment of sulphur in cumin (2014-15)**

1. Title of Technology assessed / Refined : Assessment of sulphur in cumin
2. Problem Definition
  1. Lack of knowledge of Sulphur application.
  2. Sulphur deficient soil of district (60% Area)
  3. Unbalance fertilization.
3. Details of technologies selected for assessment/refinement
  - T<sub>1</sub>. Farmers practice (Control)
  - T<sub>2</sub>. RDF (30-15-00 NPK kg/ha) through DAP & Urea
  - T<sub>3</sub>. T-2 + 15 kg Sulphur through Gypsum
  - T<sub>4</sub>. RDF (30-15-00 NPK kg/ha) through Ammonium Sulphate & Single Super Phosphate.
4. Source of technology: Spices Research Station, SDAU, Jagudan.
5. Production system: Proper use of Fertilizer
6. Thematic area: Nutrition management
7. Performance of the Technology with performance indicators

\*Result is in Table -A
8. Final recommendation for micro level situation

Application of AS and SSP instead of DAP and Urea give very good response to cumin crop.
9. Constraints identified and feedback for research : NIL
10. Process of farmers participation and their reaction: Result is in Table -A
11. Result of On Farm Trial

Table - A

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Cumin	Irrigated	Sulphur deficient soil of district	Assessment of sulphur in cumin	5	1. Farmers practice (Control) 2. Recommended dose of fertilizer (30- 15-00 NPK kg/ha) through DAP & Urea 3. T-2 + 15 kg Sulphur through Gypsum 4. Recommended dose of fertilizer (30- 15-00 NPK kg/ha) through Ammonium Sulphate & Single Super Phosphate.	Yield evaluation	Seed Yield (qt/ha)

Results of assessment				Feedback from the farmer
Av. Seed Yield (qt/ha)				Application of AS and SSP instead of DAP and Urea give very good response to cumin crop
T1	T2	T3	T4	
8.25	8.05	8.20	8.55	

Technology Assessed / Refined Seed Cotton (Qt/ha)	Seed yield (Qt/ha)	Total Cost (Rs/ha)	Gross return / ha	Net Return (Profit) in Rs. / ha	BC Ratio
T-1: Farmers practice	8.25	21655	88688	67033	4.10
T-2: Recommended dose of fertilizer (30-15-00 NPK kg/ha) through DAP & Urea	8.05	19350	86538	67188	4.47
T-3: T-2 + 15 kg Sulphur through Gypsum	8.20	19450	88150	68700	4.53
T-4: Recommended dose of fertilizer (30-15-00 NPK kg/ha) through Ammonium Sulphate & Single Super Phosphate.	8.55	20410	91913	71503	4.50

## Trial 6: Assessment of sulphur in Sesamum (2014-15)

1. Title of Technology assessed / Refined : Assessment of sulphur in Sesamum
2. Problem Definition
  1. Lack of knowledge of Sulphur application.
  2. Sulphur deficient soil of district (60% Area)
  3. Unbalance fertilization.
3. Details of technologies selected for assessment/refinement
  1. Farmers practice (Control) (90 kg DAP +90 kg Urea / ha)
  2. Recommended dose of fertilizer (50-25-40 NPK kg/ha) through DAP & Urea+ 20 kg Sulphur through Gypsum, 55 kg DAP + 55 kg Urea +66 kg MOP + 100 kg Gypsum / ha)
  3. Recommended dose of fertilizer (50-25-40 NPK kg/ha) through Ammonium Sulphate & Single Super Phosphate. 238kg AS + 156 kg SSP + 66 kg MOP / ha)
4. Source of technology: Agricultural Research Station, JAU,Amreli.
5. Production system: Proper use of Fertilizer
6. Thematic area: Nutrition Management
7. Performance of the Technology with performance indicators

\*Result is in Table -A
8. Final recommendation for micro level situation

BC ratio is higher in recommended dose of fertilizer.
9. Constraints identified and feedback for research : NIL
10. Process of farmers participation and their reaction: Result is in Table -A
11. Result of On Farm Trial

Table - A

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Sesamum	Rainfed	Sulphur deficient soil of district	Assessment of sulphur in sesamum	3	1. Farmers practice (Control) (90 kg DAP +90 kg Urea / ha) 2. Recommended dose of fertilizer (50-25-40 NPK kg/ha) through DAP & Urea+ 20 kg Sulphur through Gypsum, 55kg DAP + 55 kg Urea +66 kg MOP + 100 kg Gypsum / ha) 3. Recommended dose of fertilizer (50-25-40 NPK kg/ha) through Ammonium Sulphate & Single Super Phosphate. 238kg AS + 156 kg SSP + 66 kg MOP / ha)	Yield evaluation	Seed Yield (qt/ha)

Results of assessment			Feedback from the farmer
Av. Seed Yield (qt/ha)			BC ratio is higher in recommended dose of fertilizer
T1	T2	T3	
6.05	6.80	7.45	

Technology Assessed / Refined Seed Cotton (Qt/ha)	Seed yield (Qt/ha)	Total Cost (Rs/ha)	Gross return / ha	Net Return (Profit) in Rs. / ha	BC Ratio
T-1: Farmers practice	6.05	15373	63525	48152	4.13
T-2: Recommended dose of fertilizer (50-25-40 NPK kg/ha) through DAP & Urea+ 20 kg Sulphur through Gypsum	6.80	15668	71400	55732	4.56
T-3: Recommended dose of fertilizer (50-25-40 NPK kg/ha) through Ammonium Sulphate & Single Super Phosphate.	7.45	17242	78225	60983	4.53



### Trial 7: Varietal assessment of sesamum Guj Til-4 in Surendranagar district (2014-15)

1. Title of Technology assessed / Refined : Varietal assessment of Sesamum Guj Til-4 in Surendranagar district
2. Problem Definition  
**To increase yield of Sesamum.**
3. Details of technologies selected for assessment/refinement
  1. Variety: Guj Til-2 OR Local
  2. Variety: Guj Til-4
4. Source of technology: Agricultural Research Station, JAU, Amreli.
5. Production system: To increase yield of Sesamum
6. Thematic area: Variety Assessment
7. Performance of the Technology with performance indicators  
  
\*Result is in Table -A
8. Final recommendation for micro level situation  
  
Very poor germination observed, due to heavy rainfall after sowing, so it will be continue in next year.
9. Constraints identified and feedback for research : NIL
10. Process of farmers participation and their reaction: Result is in Table -A
11. Result of On Farm Trial

Table - A

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Sesamum	Rainfed	To increase yield of Sesamum	Varietal assessment of Sesamum Guj Til-4 in Surendranagar district	3	1. Variety: Guj Til-2 R Local 2. Variety: Guj Til-4	Yield evaluation	Seed Yield (qt/ha)

### C. Technology Refinement: NIL

### 3.2 Achievements of Frontline Demonstrations

- 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

Sr. No.	Thematic area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of villages	No. of farmers	Area in ha
1	Dry farming	GW - 366 (Wheat)	FLD, Field Day & Training	15	2170	368
2		Guj.Cumin-4 (Cumin)				
3		Guj. Gram-3 (Gram)				
4		Guj. Green gram-4 (Green gram)				
5		Guj.Til-4 (Sesame)				
6		GG-9 (G'nut)				
7		<i>Trichoderma</i> culture (Bio-agent)				
8		Bt Cotton varieties				

## b. Details of FLDs implemented during 2014-15

Sr No	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration		
					T	A	SC/ST	Others	Total
1	Wheat	Crop production	Varietal evaluation, recommended package of practices	Rabi: 13-14	8	8	13	7	20
2	Cumin			Rabi: 13-14	8	8	10	10	20
3	Gram			Rabi: 13-14	4	4	7	3	10
4	Moong			Kharif: 14-15	4	4	6	4	10
5	Sesame			Kharif: 14-15	4	4	3	7	10
6	Groundnut			Kharif: 14-15	4	4	5	5	10
7	Groundnut Bio-agent			Kharif: 14-15	2	2	3	2	5
8	Cotton			Kharif: 14-15	10	10	13	12	25

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**Details of farming situation**

Crop	Season	Farming situation RE/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Wheat	Rabi 13-14	Irrigated	Medium black	L	M	H	Sorghum	22/11/13	15/3/14	448	32
		Irrigated		L	M	H	Sesame	25/11/13	12/3/14		
		Irrigated	--	L	M	H	Sorghum	23/11/13	20/3/14		
		Irrigated	--	L	M	H	Sesame	20/11/13	10/3/14		
		Irrigated	--	L	M	H	Sorghum	29/11/13	20/3/14		
		Irrigated	--	L	M	H	Sorghum	18/11/13	16/3/14		
		Irrigated	--	L	M	H	Greengram	22/11/13	12/3/14		
		Irrigated	--	L	M	H	Greengram	30/11/13	18/2/14		
		Irrigated	--	L	M	H	Sorghum	20/11/13	10/3/14		
		Irrigated	--	L	M	H	Bajara	21/11/13	12/3/14		
		Irrigated	--	L	M	H	Cotton	20/11/13	15/3/14		
		Irrigated	--	L	M	H	Greengram	26/11/13	10/3/14		
		Irrigated	--	L	M	H	Greengram	17/11/13	8/3/14		
		Irrigated	--	L	M	H	Cotton	28/11/13	15/3/14		
		Irrigated	--	L	M	H	G'nut	27/11/13	18/3/14		
		Irrigated	--	L	M	H	G'nut	20/11/13	11/3/14		
		Irrigated	--	L	M	H	Sorghum	23/11/13	12/3/14		
		Irrigated	--	L	M	H	Greengram	28/11/13	14/2/14		
		Irrigated	--	L	M	H	Cotton	20/11/13	14/3/14		
		Irrigated	--	L	M	H	Sesame	26/11/13	19/3/14		
Cumi	Rabi 13-14	Irrigated	--	L	M	H	G'nut	8/11/13	1/3/14		
		Irrigated	--	L	M	H	Sorghum	1/11/13	28/2/14		
		Irrigated	--	L	M	H	Greengram	11/11/13	4/3/14		

		Irrigated	--	L	M	H	Sesame	2/11/13	27/3/14		
		Irrigated	--	L	M	H	G'nut	8/11/13	3/3/14		
		Irrigated	--	L	M	H	Sesame	11/11/13	6/3/14		
		Irrigated	--	L	M	H	Sorghum	6/11/13	2/3/14		
		Irrigated	--	L	M	H	Sorghum	1/11/13	28/2/14		
		Irrigated	--	L	M	H	Greengram	8/11/13	3/3/14		
		Irrigated	--	L	M	H	Sesame	15/11/13	8/3/14		
		Irrigated	--	L	M	H	Sorghum	9/11/13	4/3/14		
		Irrigated	--	L	M	H	Sorghum	1/11/13	1/3/14		
		Irrigated	--	L	M	H	G'nut	14/11/13	5/3/14		
		Irrigated	--	L	M	H	Sesame	12/11/13	8/3/14		
		Irrigated	--	L	M	H	Sesame	2/11/13	6/3/14		
		Irrigated	--	L	M	H	Greengram	8/11/13	28/2/14		
		Irrigated	--	L	M	H	Greengram	14/11/13	10/3/14		
		Irrigated	--	L	M	H	G'nut	9/11/13	1/3/14		
		Irrigated	--	L	M	H	Cotton	18/11/13	11/3/14		
		Irrigated	--	L	M	H	Sorghum	7/11/13	8/3/14		
Gram	Rabi 13-14	Irrigated	--	L	M	H	Cotton	30/10/13	12/2/14		
		Irrigated	--	L	M	H	G'nut	1/11/13	15/2/14		
		Irrigated	--	L	M	H	Sesame	27/10/13	7/2/14		
		Irrigated	--	L	M	H	Sorghum	2/11/13	12/2/14		
		Irrigated	--	L	M	H	Sorghum	1/11/13	20/2/14		
		Irrigated	--	L	M	H	Cotton	27/10/13	6/2/14		
		Irrigated	--	L	M	H	Sorghum	2/11/13	18/2/14		
		Irrigated	--	L	M	H	Sesame	1/11/13	18/2/14		
		Irrigated	--	L	M	H	G'nut	9/11/13	25/2/14		
		Irrigated	--	L	M	H	Sorghum	14/11/13	20/2/14		
Greer Gram	Kharif 14-15	Rainfed	--	L	M	H	Cotton	14/7/14	28/9/14		
		Rainfed	--	L	M	H	Wheat	19/6/14	12/9/14		
		Rainfed	--	L	M	H	Cotton	21/6/14	20/9/14		
		Rainfed	--	L	M	H	Wheat	21/6/14	5/9/14		
		Rainfed	--	L	M	H	Wheat	18/6/14	2/9/14		
		Rainfed	--	L	M	H	Cumin	22/6/14	12/9/14		
		Rainfed	--	L	M	H	Cumin	18/6/14	2/9/14		

		Rainfed	--	L	M	H	Cotton	23/6/14	19/9/14				
		Rainfed	--	L	M	H	Wheat	20/6/14	21/9/14				
		Rainfed	--	L	M	H	Cumin	12/7/14	26/9/14				
Sesam	Kharij 14-15	Rainfed	--	L	M	H	Sorghum	15/7/14	30/9/14				
		Rainfed	--	L	M	H	Wheat	16/7/14	5/10/14				
		Rainfed	--	L	M	H	Cotton	21/6/14	5/9/14				
		Rainfed	--	L	M	H	Wheat	20/6/14	9/9/14				
		Rainfed	--	L	M	H	Gram	20/6/14	13/9/14				
		Rainfed	--	L	M	H	Cumin	20/6/14	5/9/14				
		Rainfed	--	L	M	H	Cotton	19/6/14	15/9/14				
		Rainfed	--	L	M	H	Sorghum	22/6/14	6/9/14				
		Rainfed	--	L	M	H	G'nut	19/6/14	14/9/14				
		Rainfed	--	L	M	H	Cumin	20/6/14	10/9/14				
		G'nut	Kharij 14-15	Rainfed	Medium	L	M	H	Cotton	22/6/14	15/10/14		
				Rainfed	black	L	M	H	Wheat	20/6/14	18/10/14		
Rainfed	--			L	M	H	Cotton	18/6/14	11/10/14				
Rainfed	--			L	M	H	Wheat	22/6/14	17/10/14				
Rainfed	--			L	M	H	Cumin	23/6/14	21/10/14				
Rainfed	--			L	M	H	Sorghum	22/6/14	10/10/14				
Rainfed	--			L	M	H	Bajara	19/6/14	15/10/14				
Rainfed	--			L	M	H	Wheat	20/6/14	25/10/14				
Rainfed	--			L	M	H	Cumin	21/6/14	20/10/14				
Rainfed	--			L	M	H	Cotton	19/6/14	17/10/14				
Bio-agent	Kharij 14-15	Rainfed	Medium	L	M	H	Cotton	20/6/14	26/10/14				
		Rainfed	black	L	M	H	Cumin	23/6/14	28/10/14				
		Rainfed	--	L	M	H	Sorghum	19/6/14	17/10/14				
		Rainfed	--	L	M	H	Cumin	20/6/14	26/10/14				
		Rainfed	--	L	M	H	Wheat	19/6/14	16/10/14				
Cotton	Kharij 14-15	Irrigated	Medium	L	M	H	Cotton	15/7/14	11/12/14				
		Irrigated	black	L	M	H	Wheat	23/6/14	30/11/14				
		Irrigated	--	L	M	H	Sorghum	22/6/14	10/12/14				
		Irrigated	--	L	M	H	Wheat	20/6/14	9/12/14				
		Irrigated	--	L	M	H	Cumin	23/6/14	18/12/14				
		Irrigated	--	L	M	H	Cotton	19/6/14	23/12/14				
		Irrigated	--	L	M	H	Cumin	21/6/14	25/11/14				

Irrigated	--	L	M	H	Sorghum	22/6/14	2/12/14		
Irrigated	--	L	M	H	Bajara	19/6/14	3/1/15		
Irrigated	--	L	M	H	Sorghum	19/6/14	15/12/14		
Irrigated	--	L	M	H	Sesame	20/6/14	3/12/14		
Irrigated	--	L	M	H	Cotton	23/6/14	28/12/14		
Irrigated	--	L	M	H	Wheat	20/6/14	5/12/14		
Irrigated	--	L	M	H	Cumin	19/6/14	25/11/14		
Irrigated	--	L	M	H	Wheat	22/6/14	4/1/15		
Irrigated	--	L	M	H	Cotton	18/6/14	1/12/14		
Irrigated	--	L	M	H	Wheat	21/6/14	18/12/14		
Irrigated	--	L	M	H	Cumin	15/7/14	5/1/15		
Irrigated	--	L	M	H	Sorghum	14/7/14	28/11/14		
Irrigated	--	L	M	H	Wheat	14/7/14	8/12/14		
Irrigated	--	L	M	H	Cotton	22/6/14	20/12/14		
Irrigated	--	L	M	H	Bajara	19/6/14	4/12/14		
Irrigated	--	L	M	H	Cotton	23/6/14	1/12/14		
Irrigated	--	L	M	H	Cotton	16/7/14	3/1/15		
Irrigated	--	L	M	H	Cumin	14/7/14	9/12/14		

## Performance of FLD

Sr. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl/ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Dem	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Wheat	Varietal evaluation, recommended pop	GW-366	20	08	47.80	41.50	42.54	37.53	13.36	-	-
2	Cumin		Guj.Cumin-4	20	08	10.55	5.80	7.68	6.63	15.82	-	-
3	Gram		Guj.Gram-3	10	04	18.00	15.40	16.46	14.58	12.86	-	-
4	Green Gram		Guj.moong-4	10	04	8.00	4.20	5.95	5.30	12.26	-	-
5	Sesame		Guj.Til-4	10	04	8.20	3.80	6.75	6.15	9.76	-	-
6	Groundnut		GJG-9	10	04	19.25	13.55	16.40	14.77	11.04	-	-
7	Groundnut		Bio-Agent	05	02	19.00	14.40	15.65	14.31	9.36	-	-
8	Cotton		Bt Irrigated	25	10	26.20	17.50	21.70	19.37	12.02	-	-

## Economic Impact (Continuation of previous table)

Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Profit) (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
18620	18500	69128	60978	50508	42478	1:3.71
17565	17200	69080	59643	51515	42443	1:3.93
14925	14700	53479	47385	38554	32685	1:3.58
10950	10680	38675	34450	27725	23770	1:3.53
13350	12965	67500	61500	54150	48535	1:5.06
19050	17910	61500	55388	42450	37478	1:3.23
19050	18280	58688	53663	39638	35383	1:3.08
27000	27700	86800	77483	59800	49783	1:3.21



**Analytical Review of component demonstrations** (details of each component for rainfed / irrigated situations to be given separately for each season).

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in Productivity over local check
		1. Seed/Variety				
Wheat	Rabi	GW-366	Irrigated	42.54	37.53	13.36
Cumin		Guj. Cumin-4	Irrigated	7.68	6.63	15.82
Gram		Guj. Gram-3	Irrigated	16.46	14.58	12.86
Green Gram	Kharif	Guj. Green Gram-4	Rainfed	5.95	5.30	12.26
Sesame		Guj.Til-4	Rainfed	6.75	6.15	9.76
G'nut		GJG-9	Rainfed	16.40	14.77	11.04
G'nut		Bio-Agent	Rainfed	15.65	14.31	9.36
Cotton		Bt-Guj-Cot Hy-6	Irrigated	21.70	19.37	12.02

### Technical Feedback on the demonstrated technologies

Sr. No	Feed Back
	<p>Chickpea : -G Gram-3:</p> <ul style="list-style-type: none"> <li>• It is good variety over local variety for all parameters.</li> <li>• Farmer demanded bold seeded varieties for vegetable purpose in both irrigated &amp; non irrigated conditions.</li> </ul>
	<p>Cumin :- GC-4:</p> <ul style="list-style-type: none"> <li>• High yielder and wilt resistance but late germination observed.</li> <li>• Farmer demanded blight resistant variety.</li> </ul>
	<p>Wheat : GW-366</p> <ul style="list-style-type: none"> <li>• Yield better than Lok-1 and baking quality also good.</li> <li>• Farmer demanded More high yielding varieties, under cotton based cropping system.</li> </ul>
	<p>Sesame :-</p> <ul style="list-style-type: none"> <li>• Guj. Til-4 is higher yielder over all local varieties.</li> </ul>

	<p>Groundnut :</p> <ul style="list-style-type: none"> <li>GJG-9 is good variety.</li> </ul>
	<p>Green gram :-</p> <ul style="list-style-type: none"> <li>Guj. Green gram-4 is superior over K-851, it is also suitable for late monsoon condition.</li> </ul>
	<p>Cotton :-</p> <ul style="list-style-type: none"> <li>Farmer demanded sucking pest tolerant variety.</li> <li>Location specific varieties should be developed</li> <li>Bt. cotton requires more water and nutrient, do not withstand in moisture and nutrient stress conditions. So drought tolerant variety should supply.</li> </ul>

### Farmers' reactions on specific technologies

Sr. No.	Feed Back
1	<p><b>Green gram :</b> Guj. Green gram-4 is superior over K-851, it mature once a time so more picking not required</p>
2	<p><b>Cotton :</b> Bt-Guj-Cot Hy-6 resistance over larvae, it is require the sucking pest resistance variety</p>

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**Extension and Training activities under FLD**

Sr. No	Activity	No. of activities organized	Date	Number of participants
1	Field days	1	22/08/14	21
		1	25/08/14	17
		1	27/08/14	23
		1	30/08/14	20
		1	09/09/14	21
		1	12/09/14	18
		1	23/09/14	23
		1	04/10/14	17
		1	09/10/14	21
		1	11/11/14	23
		1	13/11/14	20
		1	15/11/14	20
		1	2/02/15	24
		1	3/02/15	20
		1	4/02/15	24
		1	5/02/15	22
		1	6/02/15	24
		1	9/02/15	24
		1	10/02/15	22
		1	12/02/15	20
<b>Total</b>		<b>20</b>	<b>--</b>	<b>424</b>
2	Farmers Training	85	--	2057
3	Training for extension functionaries	3	--	87
<b>Total</b>		<b>108</b>	<b>--</b>	<b>2568</b>

### C. Details of FLD on Enterprises

#### (i) Farm Implements:

Sr. No.	Physical achievement	Demonstration	
		No. of Demonstration (hectare)	No. of beneficiaries
1	Automatic seed drill	10	10
2	Shredder	05	05
3	Cotton Stalk Puller	06	06
4	Seed Dressing Drum	05	05
5	Rotavator	10	10
6	Tractor mounted sprayer	05	05

#### (ii) Other Enterprises:

##### 1. Deworming of buffalo calf in regular interval for reduction of incidence of worms & calf mortality

	Parameter	Results		% change in parameter
		Farmer practices	Recommended practices	
1	Incidence of worms	70%	20%	71.5%
2	Buffalo calf mortality	35%	13%	62.75%

**Result :** Reduction in parasitic infestation leads to increase income of farmer

##### 2. Mineral Mixture for improve livestock infertility of Cow & Buffalo

	Parameter	Results		% change in parameter
		Farmer practices	Recommended practices	
1	Reproductive disorder	41%	18%	56%
2	Post partum heat ( Month)	6 month	3 month	50%

**Result :** Reduction in reproductive disorder & post partum heat period leads to improve fertility of animal

**(iii) Demonstration of Fodder Technology (NIFTD)**

<b>KVK</b>	<b>Module</b>	<b>Technology</b>		<b>NO.</b>
Surendranagar	TDM-1 (10)	Forage production under arable lands		
Total 25 Demonstration		Improved Kharif forages	Bajra Napier Hybrid (APBN-1)	5
		Improved Rabi forages	Lucerne : (Anand-2)	5
	TDM-II (4)	Forage production from non arable lands		
		Hortipasture	Ber + <i>Cenchrus ciliaris</i> + stylo	2
		Silvipasture	Acacia+ <i>Cenchrus ciliaris</i> + stylo	2
	TDM -III	Forage conservation & utilization		11

**TDM:** Technology Demonstration Module as described in the Training Manual  
**Plot size :** 0.2 ha for each field demonstration

### 3.3 Achievements on Training

(Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit):

#### A) ON Campus

#### Training (including Vocational, Sponsored and FLD training)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	0	0	0	0	0	0	0	0	0	0
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
Water management	0	0	0	0	0	0	0	0	0	0
Seed production	4	83	0	83	15	0	15	98	0	98
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	4	91	0	91	6	0	6	97	0	97
Fodder production				0			0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	0	23	23	0	10	10	0	33	33
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	3	58	0	58	16	0	16	74	0	74
<b>b) Fruits</b>										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0

Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
<b>c) Ornamental Plants</b>										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
<b>d) Plantation crops</b>										
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
<b>e) Tuber crops</b>										
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
<b>f) Spices</b>										
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
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	2	45	0	45	5	0	5	50	0	50
Integrated Nutrient Management	1	21	0	21	2	0	2	23	0	23
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0

Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	2	51	0	51	1	0	1	52	0	52
<b>IV Livestock Production and Management</b>										
Dairy Management	2	39	0	39	7	0	7	46	0	46
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management	1	21	0	21	4	0	4	25	0	25
Feed management	2	36	0	36	5	0	5	41	0	41
Production of quality animal products				0			0	0	0	0
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Income generation activities for empowerment of rural Women	1	0	24	24	0	1	1	0	25	25
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	1	0	24	24	0	1	1	0	25	25
Women and child care	0	0	0	0	0	0	0	0	0	0
<b>VI Agril. Engineering</b>										
Installation and maintenance of micro irrigation systems	2	49	0	49	6	0	6	55	0	55
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0



Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
<b>VII Plant Protection</b>										
Integrated Pest Management	3	63	0	63	17	0	17	80	0	80
Integrated Disease Management	0	0	0	0	0	0	0	0	0	0
Bio-control of pests and diseases	1	19	0	19	4	0	4	23	0	23
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
<b>VIII Fisheries</b>										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
<b>IX Production of Inputs at site</b>										
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
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	1	21	0	21	6	0	6	27	0	27
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	1	22	0	22	4	0	4	26	0	26
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
<b>XI Agro-forestry</b>										
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
<b>TOTAL</b>	<b>32</b>	<b>619</b>	<b>71</b>	<b>690</b>	<b>98</b>	<b>12</b>	<b>110</b>	<b>717</b>	<b>83</b>	<b>800</b>
<b>(B) RURAL YOUTH</b>										
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	2	36	0	36	14	0	14	50	0	50
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	6	142	0	142	19	0	19	161	0	161
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0

Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>8</b>	<b>178</b>	<b>0</b>	<b>178</b>	<b>33</b>	<b>0</b>	<b>33</b>	<b>211</b>	<b>0</b>	<b>211</b>
<b>(C) Extension Personnel</b>										
Productivity enhancement in field crops	2	62	0	62	0	0	0	62	0	62
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Management in farm animals	1	25	0	25	0	0	0	25	0	25
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0

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Household food security	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>3</b>	<b>87</b>	<b>0</b>	<b>87</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>87</b>	<b>0</b>	<b>87</b>
Grand Total	<b>43</b>	<b>884</b>	<b>71</b>	<b>955</b>	<b>131</b>	<b>12</b>	<b>143</b>	<b>1015</b>	<b>83</b>	<b>1098</b>

**B) OFF Campus**

Thematic Area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	0	0	0	0	0	0	0	0	0	0
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
Water management	3	66	0	66	6	0	6	72	0	72
Seed production	4	58	20	78	13	5	18	71	25	96
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	2	34	0	34	12	0	12	46	0	46
Fodder production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	24	0	24	1	0	1	25	0	25
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	19	0	19	4	0	4	23	0	23
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	2	38	0	38	12	0	12	50	0	50
<b>b) Fruits</b>										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0

Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
<b>c) Ornamental Plants</b>										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
<b>d) Plantation crops</b>										
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
<b>e) Tuber crops</b>										
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
<b>f) Spices</b>										
Production and Management technology	1	14	0	14	8	0	8	22	0	22
Processing and value addition	0	0	0	0	0	0	0	0	0	0
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	2	36	0	36	12	0	12	48	0	48
Integrated Nutrient Management	1	20	0	20	0	0	0	20	0	20
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0

Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
<b>IV Livestock Production and Management</b>										
Dairy Management	3	63	0	63	5	0	5	68	0	68
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management	3	59	0	59	9	0	9	68	0	68
Feed management	2	37	0	37	2	0	2	39	0	39
Production of quality animal products				0			0	0	0	0
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	1	0	20	20	0	4	4	0	24	24
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0		0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0
<b>VI Agril. Engineering</b>										
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0

Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	19	0	19	4	0	4	23	0	23
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
<b>VII Plant Protection</b>										
Integrated Pest Management	4	62	0	62	24	0	24	86	0	86
Integrated Disease Management	2	35	0	35	7	0	7	42	0	42
Bio-control of pests and diseases	2	32	0	32	7	2	9	39	2	41
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
<b>VIII Fisheries</b>										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
<b>IX Production of Inputs at site</b>										
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	0	0	0	0	0	0	0	0	0	0



production										
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
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	1	19	0	19	6	0	6	25	0	25
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	3	70	0	70	11	0	11	81	0	81
Entrepreneurial development of farmers/youths	1	21	0	21	3	0	3	24	0	24
WTO and IPR issues	1	23	0	23	0	0	0	23	0	23
<b>XI Agro-forestry</b>										
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
<b>TOTAL</b>	<b>41</b>	<b>749</b>	<b>40</b>	<b>789</b>	<b>146</b>	<b>11</b>	<b>157</b>	<b>895</b>	<b>51</b>	<b>946</b>
<b>(B) RURAL YOUTH</b>										
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Integrated farming	1	22	0	22	2	0	2	24	0	24
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Integrated Farming	1	20	0	20	3	0	3	23	0	23
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit	0	0	0	0	0	0	0	0	0	0

production										
Repair and maintenance of farm machinery and implements	2	40	0	40	13	0	13	53	0	53
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>4</b>	<b>82</b>	<b>0</b>	<b>82</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>100</b>	<b>0</b>	<b>100</b>
<b>(C) Extension Personnel</b>										
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0

Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Grand Total	45	831	40	871	164	11	175	995	51	1046

### C) Consolidated table (ON and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	0	0	0	0	0	0	0	0	0	0
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
Water management	3	66	0	66	6	0	6	72	0	72
Seed production	8	141	20	161	28	5	33	169	25	194
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	6	125	0	125	18	0	18	143	0	143
Fodder production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	24	0	24	1	0	1	25	0	25
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	2	19	23	42	4	10	14	23	33	56
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	5	96	0	96	28	0	28	124	0	124
<b>b) Fruits</b>										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
<b>c) Ornamental Plants</b>										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0

Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
<b>d) Plantation crops</b>										
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
<b>e) Tuber crops</b>										
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
<b>f) Spices</b>										
Production and Management technology	1	14	0	14	8	0	8	22	0	22
Processing and value addition	0	0	0	0	0	0	0	0	0	0
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	4	81	0	81	17	0	17	98	0	98
Integrated Nutrient Management	2	41	0	41	2	0	2	43	0	43
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	2	51	0	51	1	0	1	52	0	52
<b>IV Livestock Production and Management</b>										
Dairy Management	5	102	0	102	12	0	12	114	0	114
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	4	80	0	80	13	0	13	93	0	93
Feed management	4	73	0	73	7	0	7	80	0	80
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
<b>V Home Science/Women empowerment</b>										

Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	1	0	20	20	0	4	4	0	24	24
Income generation activities for empowerment of rural Women	1	0	24	24	0	1	1	0	25	25
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	1	0	24	24	0	1	1	0	25	25
Women and child care	0	0	0	0	0	0	0	0	0	0
<b>VI Agril. Engineering</b>										
Installation and maintenance of micro irrigation systems	2	49	0	49	6	0	6	55	0	55
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	19	0	19	4	0	4	23	0	23
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
<b>VII Plant Protection</b>										
Integrated Pest Management	7	125	0	125	41	0	41	166	0	166
Integrated Disease Management	2	35	0	35	7	0	7	42	0	42
Bio-control of pests and diseases	3	51	0	51	11	2	13	62	2	64
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
<b>VIII Fisheries</b>										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0

Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
<b>IX Production of Inputs at site</b>										
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
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	1	19	0	19	6	0	6	25	0	25
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	1	21	0	21	6	0	6	27	0	27
Mobilization of social capital	3	70	0	70	11	0	11	81	0	81
Entrepreneurial development of farmers/youths	2	43	0	43	7	0	7	50	0	50
WTO and IPR issues	1	23	0	23	0	0	0	23	0	23
<b>XI Agro-forestry</b>										
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
<b>TOTAL</b>	<b>73</b>	<b>1368</b>	<b>111</b>	<b>1479</b>	<b>244</b>	<b>23</b>	<b>267</b>	1612	134	<b>1746</b>
<b>(B) RURAL YOUTH</b>										
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Integrated farming	1	22	0	22	2	0	2	24	0	24
Seed production	2	36	0	36	14	0	14	50	0	50
Production of organic inputs	0	0	0	0	0	0	0	0	0	0

Integrated Farming	1	20	0	20	3	0	3	23	0	23
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	8	182	0	182	32	0	32	214	0	214
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>12</b>	<b>260</b>	<b>0</b>	<b>260</b>	<b>51</b>	<b>0</b>	<b>51</b>	<b>311</b>	<b>0</b>	<b>311</b>
<b>(C) Extension Personnel</b>										
Productivity enhancement in field crops	2	62	0	62	0	0	0	62	0	62
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0



Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Management in farm animals	1	25	0	25	0	0	0	25	0	25
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>3</b>	<b>87</b>	<b>0</b>	<b>87</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>87</b>	<b>0</b>	<b>87</b>
	<b>88</b>	<b>1715</b>	<b>111</b>	<b>1826</b>	<b>295</b>	<b>23</b>	<b>318</b>	<b>2010</b>	<b>134</b>	<b>2144</b>

**Note: Please furnish the details of above training programmes as Annexure in the proforma given below**

Date	Clientele	Title of the training programme	Discipline	Thematic Area	Duration in days	(Off/On Campus)	Number of other participants			Number of SC/ST			Total number of participants		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
03-04-14	PF	Seed production technique in summer sesame and G'nut	Agronomy		1	ON	20	0	20	3	0	3	23	0	23
10-04-14	RY	Farm management	Extension		1	ON	25	0	25	0	0	0	25	0	25
16-04-14	PF	Soil sampling procedure	Agronomy		1	ON	21	0	21	1	0	1	22	0	22
05-05-14	F W	Raising of seedlings of vegetables	Horticulture		1	ON	0	23	23	0	10	10	0	33	33
07-05-14	PF	Cultivation of Tomato in poly house	Horticulture		1	ON	20	0	20	4	0	4	24	0	24
13-05-14	PF	Crop production technology in kharif pulse and gum guar	Agronomy		1	Off	15	0	15	6	0	6	21	0	21
13-05-14	PF	IPM in cotton	Plant protection		1	Off	15	0	15	6	0	6	21	0	21
19-05-14	PF	H S and Its control	Animal Science		1	Off	21	0	21	4	0	4	25	0	25
20-05-14	PF	Importance of cholestrum feeding in new born calf	Animal Science		1	Off	19	0	19	3	0	3	22	0	22
21-05-14	PF	INM in cotton	Agronomy		1	Off	20	0	20	0	0	0	20	0	20
12-06-14	PF	Care and management of livestock during summer	Animal Sci		1	ON	20	0	20	4	0	4	24	0	24

12-06-14	PF	Seed treatment in kharif crops	Agronomy		1	ON	22	0	22	6	0	6	28	0	28
13-06-14	RY	Govt subsidy schemes in Agriculture	Extension		1	ON	22	0	22	3	0	3	25	0	25
17-06-14	PF	Seed production technique G'nut	Agronomy		1	ON	25	0	25	1	0	1	26	0	26
17-06-14	PF	Govt subsidy schemes in Agriculture	Extension Edu		1	Off	27	0	27	3	0	3	30	0	30
19-06-14	PF	Seed production technique G'nut	Agronomy		1	ON	18	0	18	6	0	6	24	0	24
20-06-14	PF	Seed production technology for sesamum	Agronomy		1	Off	20	0	20	5	0	5	25	0	25
21-06-14	PF	Rain water harvesting technology	Extension Edu		1	Off	23	0	23	4	0	4	27	0	27
23-06-14	PF	Improved cultivation practices for cotton and sesame	Agronomy		1	ON	29	0	29	2	0	2	31	0	31
23-06-14	PF	Management of pest and disease in sesamum	Plant protection		1	Off	15	0	15	4	0	4	19	0	19
09-07-14	PF	Cultivation of capsicum in poly house	Horticulture		1	ON	20	0	20	5	0	5	25	0	25
09-07-14	PF	Awareness about control of mastitis	Animal Science		1	Off	20	0	20	2	0	2	22	0	22
10-07-14	PF	Cultivation of Tomato in poly house	Horticulture		1	ON	18	0	18	7	0	7	25	0	25
11-07-14	RY	Soil reclamation	Agronomy		1	Off	22	0	22	2	0	2	24	0	24
11-07-14	PF	Income generation activities	Extension Edu		1	Off	21	0	21	3	0	3	24	0	24

15-07-14	PF	Cultivation of Tomato and capsicum	Horticulture		1	Off	18	0	18	7	0	7	25	0	25
16-07-14	PF	Raising of seedlings of vegetables	Horticulture		1	Off	19	0	19	4	0	4	23	0	23
22-07-14	PF	Castor production technology	Agronomy		1	ON	19	0	19	1	0	1	20	0	20
25-07-14	RY	Effect of Global warming and climatic change on Agriculture	Extension		1	ON	20	0	20	4	0	4	24	0	24
31-07-14	PF	Seed production technology for G'nut	Agronomy		1	Off	17	0	17	4	0	4	21	0	21
04-08-14	PF	Bio and chemical control measures for pest and disease of cotton and sesamum	Plant Protection		1	ON	19	0	19	4	0	4	23	0	23
08-08-14	PF	Formation and management of SHG	Extension		1	ON	21	0	21	6	0	6	27	0	27
12-08-14	PF	Soil moisture conservation practices	Agronomy		1	ON	18	0	18	5	0	5	23	0	23
14-08-14	PF	Balance fertilization and INM in cotton	Agronomy		1	ON	21	0	21	2	0	2	23	0	23
19-08-14	PF	Management of pest and disease in vegetables	Horticulture		1	Off	19	0	19	5	0	5	24	0	24
20-08-14	PF	Importance & use of green fodder in milk production	Animal Sci		1	ON	19	0	19	2	0	2	21	0	21
21-08-14	PF	WTO and IPR issues	Extension Edu		1	Off	23	0	23	0	0	0	23	0	23
20-09-14	PF	Improved cultivation practices for cumin and fennel & use	Agronomy		1	Off	14	0	14	8	0	8	22	0	22

22-09-14	RY	Effect of Global warming and climatic change on Agriculture	Extension		1	ON	27	0	27	5	0	5	32	0	32
23-09-14	RY	Seed production technology in cumin and wheat	Agronomy		1	ON	18	0	18	7	0	7	25	0	25
23-09-14	PF	Infertility in cows and buffaloes and its control	Animal Science			Off	18	0	18	3	0	3	21	0	21
25-09-14	PF	IPM in castor	Plant protection		1	Off	14	0	14	8	0	8	22	0	22
26-09-14	RY	Seed production technology in cumin and wheat	Agronomy		1	ON	20	0	20	5	0	5	25	0	25
30-09-14	PF	Seed production technology in cumin and wheat	Agronomy		1	ON	18	0	18	7	0	7	25	0	25
15-10-14	PF	Improved cultivation practices for wheat and gram	Agronomy		1	ON	21	0	21	2	0	2	23	0	23
17-10-14	PF	Clean milk production by proper milking	Animal Science		1	Off	23	0	23	0	2	2	23	2	25
01-11-14	PF	Control measures for pest and disease in cumin crop	Plant Protection		1	ON	24	0	24	9	0	9	33	0	33
03-11-14	F W	Seed production technology in wheat and gram	Agronomy		1	Off	0	20	20	0	5	5	0	25	25
03-11-14	PF	IWM in major rabi field crops	Agronomy		1	Off	21	0	21	1	0	1	22	0	22
10-11-14	PF	Efficient water management in major rabi crops	Agronomy		1	Off	22	0	22	2	0	2	24	0	24
24-11-14	PF	Importance of Artificial Insemination	Animal Sci		1	ON	19	0	19	3	0	3	22	0	22
26-11-14	PF	Group dynamics and mobilization	Extension Edu		1	Off	20	0	20	3	0	3	23	0	23

28-11-14	PF	Leadership Development	Extension Edu		1	Off	19	0	19	6	0	6	25	0	25
02-12-14	PF	Seed treatment in Rabi crops	Plant protection		1	Off	17	0	17	2	0	2	19	0	19
03 to 04 -12-14	PF	Soil and water analysis	Agronomy		2	ON	30	0	30	0	0	0	30	0	30
03-12-14	PF	Protected cultivation	Horticulture		1	Off	20	0	20	5	0	5	25	0	25
12-12-14	PF	Foot and mouth disease and its control	Animal Sci		1	ON	21	0	21	4	0	4	25	0	25
22-12-14	F W	Animal husbandry as enterprise	Animal Sci		1	ON	4	24	28	0	1	1	4	25	29
23-12-14	PF	Control measures for pest and diseases in rabi crops	Plant protection		1	Off	18	0	18	5	0	5	23	0	23
24-12-14	PF	Govt subsidy schemes in Agriculture	Extension Edu		1	Off	23	0	23	5	0	5	28	0	28
24-12-14	PF	Fodder crop production technology	Animal Science		1	Off	19	0	19	0	0	0	19	0	19
08-01-15	PF	Production technology of summer gum guar	Agronomy		1	Off	19	0	19	6	0	6	25	0	25
12-01-15	PF	Precaution while handling pesticides	Plant Protection		1	ON	17	0	17	2	0	2	19	0	19
12-01-15	PF	Micro irrigation system	Agronomy		1	ON	20	0	20	3	0	3	23	0	23
15-01-15	PF	Entrepreneurship development of farmers	Extension		1	ON	22	0	22	4	0	4	26	0	26
15-01-15	PF	Nutrient deficiency and infertility in cow and buffalo	Animal Science		1	Off	18	0	18	2	0	2	20	0	20
20-01-15	PF	Use of improved farm implement	Extension Edu		1	Off	19	0	19	4	0	4	23	0	23
23-01-15	PF	Govt subsidy schemes in Agriculture	Extension Edu		1	Off	20	0	20	3	0	3	23	0	23

27-01-15	PF	Improved cultivation practices for summer groundnut and sesamum	Agronomy		1	ON	22	0	22	1	0	1	23	0	23
28-01-15	RY	Honey bee rearing technique	Plant protection		1	Off	13	0	13	6	0	6	19	0	19
31-01-15	PF	Seed production technology in summer sesamum	Agronomy		1	Off	21	0	21	4	0	4	25	0	25
02-02-15	RY	Use of improved farm implement	Extension Edu		1	Off	23	0	23	7	0	7	30	0	30
03-02-15	PF	Rain water harvesting technology	Extension Edu		1	Off	13	0	13	8	0	8	21	0	21
04-02-15	RY	Use of improved farm implement	Extension Edu		1	Off	17	0	17	6	0	6	23	0	23
07-02-15	PF	Importance of natural enemies	Plant protection		1	Off	19	0	19	2	0	2	21	0	21
12-02-15	PF	Micro irrigation system	Agronomy		1	ON	25	0	25	3	0	3	28	0	28
16-02-15	RY	Introduction of Chaff cutter	Extension		1	ON	23	0	23	5	0	5	28	0	28
16-02-15	PF	Balance feeding for pregnant animals	Animal Sci		1	ON	17	0	17	3	0	3	20	0	20
18-02-15	PF	Zoonotic diseases and its preventive measures	Animal Science		1	Off	20	0	20	2	0	2	22	0	22
20-02-15	PF	Soil moisture conservation practices	Agronomy		1	ON	27	0	27	0	0	0	27	0	27
23-02-15	PF	Preparation of vermicompost	Agronomy		1	Off	24	0	24	1	0	1	25	0	25
27-02-15	PF	Efficient water management in summer G'nut and sesamum	Agronomy		1	Off	23	0	23	3	0	3	26	0	26

24-03-15	F W	Rural craft for income generation	Home Sc		1	ON	0	24	24	0	1	1	0	25	25
25-03-15	RY	Use of laser land leveller and rotovator	Extension		1	ON	25	0	25	2	0	2	27	0	27
26-03-15	F W	Value addition in Aonla and preparation of different baking items	Horticultur e		1	Off	0	20	20	0	4	4	0	24	24



8.

**Vocational training programmes for Rural Youth:**

Crop/ Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
					M	F	T	Type of units	Number of units	Number of persons employed	
	10- 17/1/15	Honey bee rearing	Bee Keeping	2	20	2	22	-	-	-	-
	18/9/2014	Bio-agents used agriculture	Organic Farming	1	30	0	30	-	-	-	-
	10/10/2014	Preparation of Bakery Items	IGA and women empowerment	1	0	57	57	-	-	-	-
	28/11/2014	Value addition	Value addition	1	0	60	60	-	-	-	-
	25/11/2014	Poultry Rearing		1	23	0	23	-	-	-	-
	21/1/2015	Goat Rearing		1	0	25	25	-	-	-	-

## 9. Sponsored / Collaborative Training Programmes

S N	D a t e	Title	Discipline	Thematic area	Duration (days)	Client (PF/RV/EF)	No. of courses	No. of Participants									Spons oring Agency
								Others			SC/ST			Total			
								M	F	T	M	F	T	M	F	T	
1	12- 14/11/1 4	Capacity building programme for farmers			3	PF	1	50	0	50	0	0	0	50	0	50	ATMA
	25 - 28/11/14	Capacity building programme for farmers for raby crop production tech			4	FW	1	0	60	60	0	0	0	0	60	60	FTC
	6-9 /01/15	Capacity building programme for farmers			4	PF	1	60	0	60	0	0	0	60	0	60	FTC
	20- 23/1/15	Capacity building programme for farmers			4	PF	1	30	0	30	0	0	0	30	0	30	FTC
	5- 7/1/15	Scientific crop production technology			3	PF	1	33	0	33	0	0	0	33	0	33	ATMA
	5- 7/1/15	Scientific crop production technology			3	PF	1	33	0	33	0	0	0	33	0	33	ATMA
	28/2/15	PPV & FR Act-2001			1	PF	1	73	0	73	9	0	9	82	0	82	PPV&FR Authority, New Delhi
	4/3/2015	Market price of crop production and its economics			1	PF	1	65	0	65	5	0	5	70	0	70	Dept of Economic s, JAU

## 3.4. Extension Programmes (including activities of FLD programmes)

Nature of Extension	Purpose/ topic Date	No. of activities	Participants											
			Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
			M	F	T	M	F	T	M	F	T	M	F	T
Field Day	22/08/14	1	14	0	14	3	3	6	1	0	1	18	3	21
	25/08/14	1	11	0	11	5	0	5	1	0	1	17	0	17
	27/08/14	1	10	3	13	4	5	9	1	0	1	15	8	23
	30/08/14	1	12	1	13	6	0	6	1	0	1	19	1	20
	09/09/14	1	16	0	16	4	0	4	1	0	1	21	0	21
	12/09/14	1	11	0	11	4	2	6	1	0	1	16	2	18
	23/09/14	1	13	3	16	6	0	6	1	0	1	20	3	23
	04/10/14	1	14	0	14	2	0	2	1	0	1	17	0	17
	09/10/14	1	17	0	17	3	0	3	1	0	1	21	0	21
	11/11/14	1	15	0	15	7	0	7	1	0	1	23	0	23
	13/11/14	1	17	0	17	2	0	2	1	0	1	20	0	20
	15/11/14	1	14	0	14	5	0	5	1	0	1	20	0	20
	2/02/15	1	18	0	18	3	0	3	3	0	3	24	0	24
	3/02/15	1	15	0	15	2	0	2	3	0	3	20	0	20
	4/02/15	1	21	0	21	0	0	0	3	0	3	24	0	24
	5/02/15	1	14	0	14	5	0	5	3	0	3	22	0	22
	6/02/15	1	18	0	18	5	0	5	1	0	1	24	0	24
9/02/15	1	23	0	23	0	0	0	1	0	1	24	0	24	
10/02/15	1	13	0	13	8	0	8	1	0	1	22	0	22	
12/02/15	1	16	0	16	3	0	3	1	0	1	20	0	20	
<b>Field Day</b>		<b>20</b>	<b>302</b>	<b>7</b>	<b>309</b>	<b>77</b>	<b>10</b>	<b>87</b>	<b>28</b>	<b>0</b>	<b>28</b>	<b>407</b>	<b>17</b>	<b>424</b>
Kisan Ghosthi		8	8947	1455	10402	1143	435	1578	45	0	45	10135	1890	12025
Film Show		22	966	230	1196	390	80	470	22	0	22	1378	310	1688
Farmers Meeting		44	2090	0	2090	301	0	301	55	0	55	2446	0	2446
Khedut Shibir														
Lectures delivered as resource persons		128	17486	7050	24536	2050	900	2950	128	0	128	19664	7950	27614
Radio talks		0	0	0	0	0	0	0	0	0	0	0	0	0
TV talks		0	0	0	0	0	0	0	0	0	0			
Extension Literature		4500	3255	560	3815	640	45	685	0	0	0	3895	605	4500

distributed													
Advisory Services	436	412	0	412	24	0	24	0	0	0	436	0	436
Scientific visit to farmers field	24	713	0	713	101	0	101	34	0	34	848	0	848
Farmers visit to KVK	114	3245	990	4235	802	212	1014	0	0	0	4047	1202	5249
Diagnostic visits	21	516	113	629	0	0	0	0	0	0	516	113	629
Soil health Camp	0	0	0	0	0	0	0	0	0	0	0	0	0
Animal Health Camp	5	95	0	95	33	0	33	5	0	5	133	0	133
Celebration of Technology week	1	327	392	719	0	0	0	36	0	36	363	392	755

**Technology week :**

Number of Technology weeks celebrated	Types of Activities	No. of Activities	Number of Participants	Related crop/ livestock technology
01	Gosthies	6	719	Scientific cultivation of Kharif crops
	Lectures organized	35	719	and livestock management, seed production technologies of different crops,
	Exhibition	1	580	Organic farming, integrated farming system
	Film show	6	719	Cultivation practices for rainfed farming, agricultural entrepreneurship,
	Fair	0	0	women empowerment etc.
	Farm Visit	6	715	Visit of farm's kharif crop farm field and crop cafeteria, integrated farming system demo unit,
	Diagnostic Practicals	2	330	Fodder demo unit, vermicompost demo unit, Agril. Demo
	Distribution of Literature (No.)	850	719	unit, mother orchard demo unit, KVK Museum, Renewable energy
	Distribution of Seed (q)	0	0	demo unit, solar water lifting devices demo unit.
	Distribution of Planting materials	12000	465	

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(No.)			
Bio Product distribution (Kg)	0	0	
Bio Fertilizers (q)	0	0	
Distribution of fingerlings	0	0	
Distribution of Livestock specimen (No.)	0	0	
Total number of farmers visited the technology week		719	

**Kisan Mobile Advisory:**  
No. of Farmers registered: 14371

**Details of SMSs:**

Text Messages			Voice Messages		
Content Category	No. of Messages	No. of Farmers	Content Category	No. of Messages	No. of Farmers
Crop Production	4	56300	Crop Production	0	0
Crop Protection	24	204978	Crop Protection	0	0
Livestock & Fisheries Advisory	2	6365	Livestock & Fisheries Advisory	0	0
Weather Advisory	8	126400	Weather Advisory	0	0
Market Information	0	0	Market Information	0	0
Events Information	2	832	Events Information	0	0
Input availability	0	0	Input availability	0	0
Others (specify)			Others (specify)	0	0
<b>Total</b>	<b>40</b>	<b>394875</b>	<b>Total</b>	<b>0</b>	<b>0</b>

**Interventions on drought mitigation: NIL**

### 3.5 Production and supply of Technological products

**SEED MATERIALS:**

Major group/class	Crop	Variety	Quantity (Kg.)	Value (Rs.)	Provided to No. of Farmers
<b>OILSEEDS</b>	G'nut	GG-2	7	stock	0
		GJG-22	7.85	stock	
		<b>GJG-31</b>	<b>48.3</b>		
			48	stock	
			0.3(sold)	1560	1
		GJG-9	28.42	Stock	0
	Sesamum	GT-3	2.13	stock	0
		GT-4	2.27	Stock	0
<b>OTHERS (Specify)</b>	Cumin	GC4	6.86		
			0.36	6300	
			6.5	stock	

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**SUMMARY**

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	-	-	-
2	OILSEEDS	95.97	1560(0.3 qtl sold)	01
3	PULSES	-	-	-
4	VEGETABLES	-	-	-
5	FLOWER CROPS	-	-	-
6	OTHERS	6.86	6300(0.36 qtl sold)	-
<b>TOTAL</b>				

**PLANTING MATERIALS :**

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
<b>Fruits</b>					
<b>Spices</b>					
<b>Vegetables</b>	Tomato	GJT-3	6350	0	255
	Brinjal	GOB -3	6200	0	221
<b>Forest Species</b>	-	-	-	-	-
<b>Ornamental Crops</b>	-	-	-	-	-
<b>Plantation Crops</b>	-	-	-	-	-
<b>Others (Specify)</b>	-	-	-	-	-

**BIO-PRODUCT :**

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
<b>BIOFERTILIZERS</b>						

**SUMMARY**

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

**LIVESTOCK : NIL****3.6. Literature Developed/Published (with full title, author & reference)**

(A) KVK News Letter: nil

(B) Literature developed / published

Item	Title	Authors name	Number of copies
1	2	3	4
Research papers	1. Factors Affecting the Information seeking behavior of ber Growers	B.L.Dhayal , B.C.Bochalya	--
	2.Credibility of Different Sources and Channels of Agricultural Information as Perceived by Ber Growers-	B.L.Dhayal and B.C.Bochalya	--
	3. Constraints perceived by ber growers in seeking information on Ber cultivation	B. L. Dhayal, B. C.Bochalya and H.M. Bhuva	--
	4. Factors Affecting The Technological gap in recommended aonla production technology	B.C. Bochalya And H.M.Bhuva	
	5. Seasonal incidence of cowpea aphid, natural enemies and their effect of abiotic factors on Cowpea-2014	B.C Bochalya, and B. L. Dhaya	
	6..Cultivars and Irrigation, Nitrogen and Phosphorus influence on	H.M. Bhuva ,Satyakumari and B.C. Bochalya	



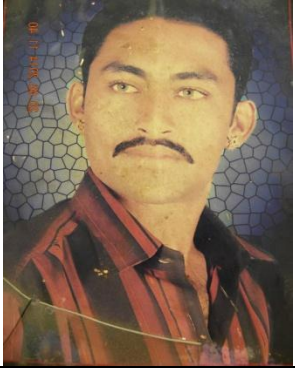
	productivity and economics of pearl millet ( <i>Penicitum Gluccuam L.</i> )		
	7. Influence of nutrient uptake by Irrigation , nitrogen and phosphorus and their effect on quality parameters of <i>rabi</i> pearl millet.	Bhuva, H. M. and Satyakumari Sharma	
	8. Integrated pest management of shoot and fruit borer ( <i>Leucinodes orbonalis G.</i> ) of brinjal under semi-arid condition.	Sharma, N., Sharma S.K., Bhadauria, N.S. and Bhuva, H.M.	
	9. Impact of new herbicides on growth, development and yield analysis of groundnut ( <i>Arachis hypogaea L.</i> ).	Sharma S.K., Sagarka, B.K., Chudasma, J.A., Bhuva, H.M. and Sagarka, N.B.	
<b>Total</b>	<b>9 Research Papers</b>	-	-
	<b>-Leaflets/ folders</b>	-	-
	<b>Popular articles/ Abstracts</b>	-	<b>3</b>
	<b>Technical Reports preparation</b>		<b>7</b>
<b>Total</b>			<b>19</b>

## (C) Details of Electronic Media Produced :

Sr. No.	Type of media (CD/ VCD/ DVD/ Audio-Cassette)	Title of the programme	Number
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### 3.7. Success stories/Case studies

#### Success Story- 1

	<p>Thematic Area: Animal husbandry Entrepreneurship</p> <p><b>"Importance of Gir cow in profitable Animal husbandry"</b></p> <p>Name : Shri Becharbhai Kamabhai Samabad  Village: Reshmiya, Taluka: Chotila  District: Surendranagar, Gujarat  Mo.: 09825318071</p>
<p><b>Profile</b></p> <p>Age: 31 years  Education: 12 pass  Land Holding: 15 acre</p> <p><b>Crops:</b>  a) Kharif: Cotton</p> <p><b>Animals:</b>  1) Gir Cow</p> <p><b>Social Identity:</b>  Progressive animal owner &amp; dairy Sanchalak</p>	<p><b>Description of Technology:</b></p> <p><b>Description:</b> Shri Becharbhai Kamabhai Samabad is very enthusiastic, hardworker, 12 pass animal owner of Reshmiya village of Chotila taluka of Surendranagar district. But due to selection of low producing, non descriptive animals, he got less profit in animal husbandry. When he came to contact with KVK, Nanakandhasar and visited Gir unit , IFS model unit and fodder demo unit, he decided to follow scientific approach. Then he got scientific advise / guidance from SMS- of Krishi Vigyan Kendra. After Shri Becharbhai has started animal husbandry business by purchasing Five Gir cow. Today he has 10 Gir cow.</p> <p><b>Technology:</b> Initially he apply scientific management of Gir cow unit under the guidance of KVK scientists and adopted recommendations given by the scientists and he take good profit by fetching good return. This was encouraging him to take more profit by Gir cow unit. He applies scientific management of animal by Artificial insemination, vaccination, use of mineral mixture, and chaff cutter for cutting of green and dry fodder.</p> <p><b>Output:</b> Previously he gets only 6-7 litre milk yield from non descriptive breeds of cow. With the adoption of scientific approach, at present now he gets average 12 litres milk production per day by one Gir cow. Total monthly income was around 70,000 in which investment and expenditure of animal feed, medicine etc were 25,000. The net monthly income he got the Rs. 45,000 to 50,000 from Gir cow unit. He also gets Farm Yard Manure (FYM) &amp; utilized this FYM in his farm land for agricultural production for getting higher production. He said that he gets double income than the rearing of non descript animal.</p> <p><b>Impact:</b> He encouraged many farmers of surrounding village for rearing of Gir cow &amp; adoption of scientific dairying management practices i.e. artificial insemination, use of mineral mixture, chaffing fodder grasses etc.</p>





Calf of Gir

Gir Cows

**Success Story-2**

	<p>Thematic Area: Animal husbandry Entrepreneurship  <b>"Usefulness of Cattle shed in animal health and milk production"</b>          Name : Shri Pravinbhai Velsibhai Jambukiya          Village: Magharikheda, Taluka: Chotila          District: Surendranagar, Gujarat          Mo.: 09427667172</p>
<p><b>Profile</b></p> <p>Age: 35 years          Education: 10 pass          Land Holding: 20 vigha</p> <p><b>Crops:</b>          a) Kharif: Cotton, Sorghum, Bajra</p> <p><b>Animals:</b>          1) 8 buffallo</p> <p><b>Social Identity:</b> Progressive animal owner</p>	<p><b>Description of Technology:</b></p> <p><b>Description:</b> Shri Pravinbhai Velsibhai Jambukiya is a very intelligent, hardworker, animal owner of Magharikheda village of Chotila taluka of Surendranagar district. But due to rearing of buffalo in kacha animal shed, effect of environment is high on buffalo. Which lead to less milk production, silent heat and more disease problem in buffalo. When he came in touch with KVK scientist and get knowledge &amp; importance of cattle shed in scientific management of animal. Then he started the construction of pakka cattle shed.</p> <p><b>Technology:</b> Under the guidance of KVK scientists he apply scientific management of buffalo unit by construction of cattle shed of Bella material. Animal shed is 120 feet long, 15 feet wide, 11 feet height, east west direction. In roof he apply galvanized iron sheet of white color. Due to this, its surface is less affected by sunlight and hence temperature in shed will be lesser as compare to other sheds. Total expenditure of construction is 2 lakh rupees.</p> <p><b>Output:</b> Before construction of animal shed he got 2,20,000 rupees income/ year. Recently he get 3,00,000 Rs. income/year . So 80,000 Rs. income increase after cattle shed. This is due to decrease silent heat and environmental disease problem which lead to increase milk production.</p> <p><b>Impact:</b> He encouraged many farmers of surrounding village for rearing of animal in cattle shed &amp; construction of less</p>

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	<p>costing, Pakka, Comfortable, Ventilated cattle shed. Due to this decrease problem of silent heat, and environmental disease and ultimately increase the milk production.</p>
 A photograph showing the interior of a cattle shed. A man in a white shirt and dark trousers stands in the center, surrounded by several dark-colored cows. The floor is covered with straw bedding. The walls are made of brick, and the ceiling is supported by wooden beams. A timestamp '19.06.2014 16:22' is visible in the bottom right corner of the image.	 A photograph showing the exterior of a long, single-story brick cattle shed. The shed has a flat roof and several vertical supports. The ground in front is dry and dusty. There are some trees and a clear sky in the background.
<p><b>Inner view of cattle shed</b></p>	<p><b>Outer view of cattle shed</b></p>

**3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year :**

Nil

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

❖ *Identification of courses for farmers/farm women:*

- Training for value addition in wheat, groundnut and pulse
- Awareness for legal procedure for malpractices in seeds, fertilizers & quality aspects.
- Seeds production in Cotton, cumin and groundnut crop
- Micro irrigation system
- Goat rearing

❖ *Rural Youth:*

- Care and maintenance of farm implements.
- Safe use of agro chemicals.
- Organic farming.
- Seeds production in Cotton, cumin and groundnut

❖ *Inservice personnel:*

- Pre seasonal training on kharif and rabi crops management
- Use of ICT in agriculture
- 

**3.11 Field activities**

- \* Number of villages adopted : 15+15
- \* No. of farm families selected : 300+450
- \* No. of survey/PRA conducted : 3 PRA, 5 Bench Mark Survey

### 3.12. Activities of Soil and Water Testing Laboratory

- Status of establishment of Lab : Completed
1. Year of establishment : 2010-11
  2. List of equipments purchased with amount : --

Sr. No.	Name of the Equipment	Qty.	Cost
1	Specto-photo meter	1	39,480
2	Flame-photo meter	1	4,4887
3	PH meter	2	7,600
4	Conductivity bridge EC Meter	1	9,450
5	Physical balance	1	6,616
6	Chemical balance	1	45,066
7	Water distillation steel	1	1,57,500
8	Shaker	2	36,000
9	Refrigerator	1	19,200
10	Oven	1	15,215
11	Hot plate	2	9,450

3. Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	228	228	14	--
Water Samples	110	110	14	--
<b>Total</b>	<b>338</b>	<b>338</b>	<b>14</b>	<b>--</b>

## 4. IMPACT

### 4.1 Impact of KVK activities : Details given in Impact analysis

### 4.2. Cases of large scale adoption:

Sr.No	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of village	No. of Farmers	Area in ha
1	Dry farming	Latest recommended variety	Field Day, FLD, Training	35	15000	450
		GJG-31 (G'nut)				
		Guj. Til-3 (Sesamum)				
		Guj. Greengram-4				
		Guj.Gram-3 (Gram)				
		Guj.Cumin-4 (Cumin)				
		GW - 496, 366 (Wheat)				
		Cotton Hy-6				
2	Animal husbandry	Vaccination	Training, Animal treatment camp	30	1550	3100 animal
		De-worming				

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

### **Impact Study on Knowledge and adoption of KVK Farmers in location specific recommendations of SAUs**

Krishi Vigyan Kendra, Surendranagar is working in of 15 villages of 3 clusters Chotila, Sayala and Limbdi talukas of Surendranagar district. Different programmes like FLDs and OFTs were organized for practicing farmers in selected villages. The need based training programmes are being planned and organized as on-campus and off campus trainings for the adopted villages. The topics selected were mostly crop production technologies, plant protection measures, water managements etc. the front line demonstrations on recently released varieties of major growing crops and cropping system were organized on farmers fields.

#### **Methodology**

An interview schedule was prepared to measure the impact of KVK activities such as trainings, FLDs OFTs on beneficiaries in dissemination of location specific SAUs recommendations The interview schedule was prepared in local language and 225 Farmers were interviewed by random sampling method. proper statistical method used for the interpretation of result. The study was conducted with following objective:

1. To assess the knowledge and adoption of trainees about recommended agricultural technologies of various crops by SAUs.



Table-1 Knowledge and Adoption of Location specific Recommendations by SAUs in Cumin Crop

S. N	SAU Recommendations	Knowledge			Adoption		
		Full	Partial	No	Full	Partial	No
	<b>Cumin:</b>						
१	For sowing of cumin crop, use variety GC – 4 either by broadcasting or by line sowing at the interval of 30 cm R X R by using automatic seed drill machine	<b>204 (90.67)</b>	4 (1.78)	17 (7.56)	<b>201 (89.33)</b>	7 (3.11)	17 (7.56)
२	Application of Trichoderma Harzenium @ 2.5 kg/ ha at the time of sowing with 500 kg castor cake or FYM.	112 (49.78)	61 (27.11)	52 (23.11)	66 (29.33)	103 (45.78)	56 (24.89)
३	Application of 1 tonne FYM/ Bigha and 5-6 kg DAP as basal dose at the time of sowing and 5-6 kg Urea 30 DAS.	75 (33.33)	<b>92 (40.89)</b>	58 (25.78)	30 (13.33)	<b>116 (51.56)</b>	56 (35.11)
४	To control sucking pest in cumin crop, spraying of thiomethoxam 4 gm/ 10 lit of water.	185 (82.22)	11 (4.89)	29 (12.89)	176 (78.22)	17 (7.56)	32 (14.22)
५	To control powdery mildew disease, spray hexaconazole @ 15 ml/ 10 lit of water and to control wilt disease, application of Mencozeb 40 gm/10 lit of water.	192 (85.33)	12 (5.33)	21 (9.33)	178 (78.22)	24 (10.67)	23 (10.22)

\*Percentage score In Parentheses

Table-2: Knowledge and Adoption of Location specific Recommendations by SAUs in Castor Crop

S. N.	SAU Recommendations	Knowledge			Adoption		
		Full	Partial	No	Full	Partial	No
	<b>Castor :</b>						
६	Recommendation for time of sowing of castor crop variety GCH-2, 4 and GCH -7 is after 15 <sup>th</sup> August.	175 (77.78)	29 (12.89)	21 (9.33)	144 (64.00)	51 (22.67)	30 (13.33)
७	For irrigated castor crop, 75 : 50 : 50 NPK, 20 kg sulphur and 8 tonnes FYM/ Ha. For unirrigated castor crop cultivation, 40 : 40 : 0 NPK / Ha	109 (48.44)	86 (38.22)	30 (13.33)	53 (23.56)	130 (57.78)	42 (18.67)
८	To control semi luper, application of Chloropyriphos 20 ml or quinolphos 20 ml/ 10 lit of water. And to control sucking pest, application of Acephate 20 gm or Dimethoate 10 ml or	163 (72.44)	31 (13.78)	31 (13.78)	138 (61.33)	46 (20.44)	41 (18.22)

	Profenophos 20 ml/ 10 lit of water						
८	To control weeds in castor crop, application of Pendimethalin(30%) 1 kg AI/Ha as pre emergence and application of Quizalophop ethile 5% 25 DAS @ 50 gm /Ha.	165 (73.33)	27 (12.00)	33 (14.67)	125 (55.56)	62 (27.56)	38 (16.89)

\*Percentage score In Parentheses

Table-3: Knowledge and Adoption of Location specific Recommendations by SAUs in Cotton Crop

S. N.	SAU Recommendations	Knowledge			Adoption		
		Full	Partial	No	Full	Partial	No
	Cotton						
१०	For Desi cotton crop growers of Surendranagar district, cotton crop varieties viz. G. COT-21, G. COT-23, G. COT-25 are recommended.	92 (40.89)	7 (3.11)	126 (56.00)	60 (26.67)	8 (3.56)	157 (69.78)
११	In Bt cotton crop, 240: 50: 150 NPK and 50 kg Zink Sulphate and 10 tonne FYM is recommended	98 (43.56)	82 (36.44)	45 (20.00)	50 (22.22)	125 (55.56)	50 (22.22)
१२	To control sucking pest in cumin crop, spraying of Imidachloprid 6 ml gm/ 10 lit of water or 3 gm thiomethaxam or 30 gm Acephate powder is recommended. To control leaf triangular disease in cotton, spray Streptocycline 1 to 2 gm + Copper oxychloride 40 gm / 10 lit of water.	161 (71.56)	20 (8.89)	44 (19.56)	160 (71.11)	10 (4.44)	55 (24.44)
१३	3 spray of KMNO <sub>3</sub> 3% at the interval of 10 days at flowering stage.	21 (9.33)	00 (00)	204 (90.67)	0 (0)	0 (0)	225 (100)
१४	Instead of burning, Cotton stalk should be incorporate with the help of shredder.	202 (89.78)	17 (7.56)	6 (2.67)	170 (75.56)	38 (16.89)	17 (7.56)

\*Percentage score In Parentheses

Table-4 Knowledge and Adoption of Location specific Recommendations by SAUs in Sesame Crop

S. N	SAU Recommendations	Knowledge			Adoption		
		Full	Partial	No	Full	Partial	No
	<b>Sesamum:</b>						
14	In Kharif sesamum cultivation, sesamum variety GT – 2, 3 & 4 are recommended. For summer cultivation of Sesamum, variety GT-2 & 3 are recommended.	181 (80.44)	17 (7.56)	27 (12.00)	169 (75.11)	27 (12.00)	29 (12.89)
15	Application of FYM @ 5 Tonne/ha, 50 : 25 : 40 NPK and 20 kg Sulphur/ ha. Along with micronutrient grade – 5 @ 20 kg/ha.	91 (40.44)	96 (42.67)	38 (16.89)	39 (17.33)	137 (60.89)	49 (21.78)
16	To control powdery mildew disease, 2 spray of hexaconazole @ 15 ml/ 10 lit of water. To control leaf spot disease, application of Propiconazole(15 ml/10 lit of water) or hexaconazole @ 15 ml/ 10 lit of water or carbendazim 12% WP + Mencozeb 63% WP (30 gm / 10 lit of water)	139 (61.78)	39 (17.33)	47 (20.89)	112 (49.78)	54 (24.00)	59 (26.22)
17	To Control of leaf roller in sesamum, recommendation is application of Cartap hydrochloride 25 gm/ 10 litre of water.	18 (8.0)	0 (00)	207 (92.00)	0 (00)	0 (00)	225 (100)

\*Percentage score In Parentheses

Table - 5: Knowledge and Adoption of Location specific Recommendations by SAUs in other Crops, Green Gram, Gram, Black gram, Wheat etc.

S. N.	SAU Recommendations	Knowledge			Adoption		
		Full	Partial	No	Full	Partial	No
૧૯	For cultivation of green gram in Kharif season and summer season, variety Guj. Greengram-4 is recommended	152 (67.56)	17 (7.56)	56 (24.89)	120 (53.33)	27 (12.00)	78 (34.67)
૨૦	For cultivation of Black gram variety Guj. Black gram - 1 is recommended.	47 (20.89)	28 (12.44)	150 (66.67)	35 (15.56)	29 (12.89)	161 (71.56)
૨૧	For cultivation of Gram in Rabi season, for irrigated, variety Guj. Gram- 1 and Guj. Gram – 3 and for unirrigated crop production of gram crop variety Guj. Gram -2 is recommended.	165 (73.33)	21 (9.33)	39 (17.33)	142 (63.11)	39 (17.33)	44 (19.56)
૨૨	For timely sowing of wheat crop, GW-366, GW-322, GW-496 varieties are recommended and for late sowing GW-173 and LOK-1 are recommended.	225 (100)	0 (00)	0 (00)	225 (100)	0 (00)	0 (00)
૨૩	Application of FYM @ 10 Tonne/ha, 120 : 60 : 60 NPK and 3 spray of micro nutrient grade – 4(1%)	84 (37.33)	117 (52.00)	24 (10.67)	22 (9.78)	192 (85.33)	11 (4.89)
૨૪	For cultivation of brinjal crop, GJB – 3(15 August to 15 September) and GJB – 2 for late kharif sowing and in Rabi season sowing.	6 (2.67)	10 (4.44)	209 (92.89)	0 (00)	14 (6.22)	211 (93.78)
૨૫	For cultivation of tomato crop, Junagadh Tomato – 3 ( for cultivation in late kharif and rabi crop)	10 (4.44)	10 (4.44)	205 (91.11)	0 (00)	0 (00)	225 (100)
૨૬	For cultivation of Okra crop, Junagadh Okra – 3, Hybrid variety of Okra like Guj. Junagadh- 2 and 3 are recommended.	8 (3.56)	5 (2.22)	112 (94.22)	00 (00)	00 (00)	225 (100)

\*Percentage score In Parentheses

## 5. LINKAGES

### - Functional linkage with different organizations

Name of organization	Nature of linkage
State department of Agriculture - Dy. Director of Agriculture (Extension) - Dy. Director of Horticulture - Dy. Director of Animal husbandry - Dy. Director of Soil Conservation - Dy. Director of Social Forestry -Dy. Director of Fisheries	The head of all the organizations are members of Scientific Advisory Committee of KVK and have linkage with different activities of KVK viz., training programmes, farmers day, field days, etc.
NABARD	
Jilla Udyog Kendra	
Milk Co-operative Society	
State bank of India	
Doordarshan Kendra	
All India Radio	
ATMA, Surendranagar	
AKRSP, Sayala	
NHRDF	
Farmers Training Centre	
ATMA	

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.) 2014-15	
			Recurring	Non-recurring
ATIC	April-2013	GOG	740000/-	-
Seed Village	April-2013	GOG	-	-

### 5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district: Yes

Sr. No.	Programme	Nature of linkage	Remarks
1	Training for farmers, FW, RY	Technical support, Lecture delivered	
2	Training for SMS (ATMA)		
3	FFS		
4	Farmers meeting		

### 5.4 Give details of programmes implemented under National Horticultural Mission:

Sr. No.	Programme	Nature of linkage	Constraints if any
1	-	-	-
2	-	-	-

5.5 Nature of linkage with National Fisheries Development Board: NIL

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK :

### 6.1 Performance of demonstration units (other than instructional farm) :

- Establishment of IFS Model

Components:

1. Goat rearing
2. Poultry (layering)
3. Vegetables Production
4. Cereal Production
5. Composing unit
6. Gir bull for natural service for breed improvement

### 6.2 Performance of instructional farm (Crops) including seed production

Sr. No.	Name of crop	Date of sowing	Date of harvest	Area (ha)	Variety	Type of produce	Quantity (Kg)	Seeds Sale (Kg)	Income (Rs.)
1	Ground Nut	19/6/14	20/10/14	1.33	GG-2	Breeder	700	0	0
2	Ground Nut	19/6/14	5/11/14	0.98	GJG-22	Breeder	785	0	0
3	Ground Nut	20/6/14	5/11/14	5.16	GJG-31	TF	4250	30	1560.00
4	Ground Nut	20/6/14	22/10/14	0.97	GJG-31	Breeder	580	0	0
5	Ground Nut	18/6/14	27/10/14	2.47	GJG-9	Breeder	1420	0	0
6	Ground Nut	19/6/14	4/11/14	2.43	GJG-9	TF	1422	0	0
7	Sesamum	21/7/14	14/10/14	1.56	GT-3	Breeder	171	0	0
8	Sesamum	19/6/14	24/9/14	1.03	GT-4	TF	227	0	0
9	Cumin	12/11/14	24/2/15	1.00	GC-4	TF	208	0	0
10	Sapota,	-	-	0.90	Kalipatti	Fruits	1968	1968	19680.00
11	Mango	-	-		Kesar	-	871	871	15160.00
12	Tamarinds	-	-		Indigenous	-	45	45	675.00

### 6.3 Performance of instructional farm (Crops) including seed production

Sr. No.	Name of crop	Date of sowing	Date of harvest	Area (ha)	Variety	Type of produce	Quantity (Kg)	Seeds Sale (Kg)	Income (Rs.)
1	Ground Nut	18/6/13	23/10/13	2.19	GG-2	Breeder	1775	1410	73272.00
2	Ground Nut	19/6/13	8/11/13	5.39	GJG-31	TF	5649	750	32750.00
3	Ground Nut	20/6/13	5/11/13	3.54	GJG-9	Breeder	2700	240	10480.00
4	Ground Nut	-	-	-	-	B Grade	1145	1145	28625
5	Cumin	24/11/13	7/3/14	1.80	GC-4	TF	478	478	83300.00
	Total								228427.00

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

Sr. No.	Name of the product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Vermi-Compost	1750	3200	Used at KVK Instructional Farm	-

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Goat	Zalawadi	Milk	15	10500	21648	-
2	Gir bull for natural service	Gir bull	Natural service for breed improvement	1	-	-	20 farmers benefited at no cost

**6.5 Rainwater Harvesting Training programme conducted by using rainwater harvesting demonstration unit**

Date	Title of the training course	Client	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				M	F	T	M	F	T
21-06-14	Rain water Harvesting Technology	PF	1	27	0	27	4	0	4
03-02-15	Rain water Harvesting Technology	RY	1	21	0	21	8	0	8



**6.6 Utilization of hostel facilities:**

Accommodation available (No. of beds): 20

Months	Title of the training course/ Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April -14	-	-	-	-
May-14	-	-	-	-
June-14	Training on Dairy farming	22 Trainees 2 officer	1 5 day	-
July-14		0		-
August-14	RAWE students	36 Trainees 1 officer	19 Days 4 day	-
	4 Training	135 Trainees	4	-
	3 Trainings of Farm women	60 Trainees	2	-
September-14	7 Trainings of PF	204 Trainees	7	-
	Training of PF	50	1	-
	-	3 Officer	1day	-
October-14	Training of PF	65 Farmer	3 Days	-
November-14	Training of FW	50 FW	1	-
December-14	Training of PF	30	1	-
January-15	Training of FW	33 FW	2	-
February-15		-	-	-
March-15	NSS camp	48 Students 1 officer	7 Days 7 Days	-

## 7. FINANCIAL PERFORMANCE

### 7.1 Details of KVK Bank accounts

	Name of the Bank	Location	A/c Number
a. With Host. Institute	SBI	Junagadh	---
b. With KVK (2704 -18)	SBS	Chotila	66002464030
c. With KVK (2076- 22)	SBS	Chotila	66002438769

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2015
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
Inputs	0	0	0	0	0
Extension activities	0	0	0	0	0
TA/DA/POL etc	0	0	0	0	0
TOTAL	0	0	0	0	0

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2015
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
Inputs	0	0	0	0	0
Extension activities	0	0	0	0	0
TA/DA/POL etc.	0	0	0	0	0
TOTAL	0	0	0	0	0

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2015
	Kharif 2014-15		Kharif 2014-15		
Inputs	0		0		0
Extension activities	0		0		0
TA/DA/POL etc.	0		0		0
TOTAL	0		0		0

## 7.5 Utilization of KVK funds during the year 2014 -15

SN	Items/Head (2014-15)	Sanctioned grant	Grant received	Expenditure			
<b>A RECURRING CONTIGENCY</b>							
1	Pay & Allowances	6400,000.00	6400594.00	6168139.00			
2	Traveling Allowances	50,000.00	50000.00	103879.00			
3	Contingencies	450000.00	450000.00	1148629.00			
a.	Stationary, Telephone, Postage and other expenditure on office running	180000.00		408506.00			
b.	POL, repair of vehicles, tractor and equipments						
c.	Meals/refreshments of trainees	270000.00		740123.00			
d.	Training materials						
e.	Frontline demonstration except oilseeds and pulses						
f.	On farm testing						
g.	Training of extension functionaries						
h.	Maintenance of building						
	<b>TOTAL-A</b>				<b>6900000.00</b>	<b>6900594.00</b>	<b>7420647.00</b>
<b>B NON-RECURRING CONTIGENCY</b>							
1		0.00	0.00	0.00			
	<b>TOTAL-B</b>						
	<b>GRAND TOTAL</b>	<b>6900000.00</b>	<b>6900594.00</b>	<b>7420647.00</b>			

7.3

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**Status of revolving fund (Rs.) as on 31<sup>st</sup> March - 2015**

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2005 to March 2006	1,00,000	--	--	1,00,000
April 2006 to March 2007	1,00,000	73,778	15,709	1,58,069
April 2007 to March 2008	1,58,069	3,60,622	3,31,160	1,87,531
April 2008 to March 2009	1,87,531	2,87,137	1,87,888	2,86,780
April 2009 to March 2010	2,86,780	6,24,618	1,00,011	8,11,387
April 2010 to March 2011	8,11,387	1,71,380	51	9,82,716
April 2011 to March 2012	9,82,716	6,77,483	5,12,461	11,47,738
April 2012 to March 2013	11,47,738	9,03,804	3,07,645	17,43,897
April 2013 to March 2014	17,43,897	10,15,194	4,37,151	23,21,940
April 2014 to March 2015	23,21,940	7,33,361	5,44,037*	25,11,264

- **Rs 520053/- incurred from revolving fund in contingency.**

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

**8.1 Constraints**

- (a) **Administrative** : Nil  
 (b) **Financial** : Nil  
 (c) **Technical** : Nil

**Technology Inventory and Activity Chart - III**

S.N	Technology	Crop/ enterprise	Year of release or recommenda tion of technology	Source of technology	Reference/ citation
1.	Variety: GJG-31	Groundnut	2010	J.A.U., Junagadh	--
2.	Variety : GG-20	Groundnut	1991	G.A.U., S.K. Nagar	--
3.	Variety : Guj. Gram - 3	Gram	2008	J.A.U., Junagadh	--
4.	Variety : Guj. Cumin - 4	Cumin	2002	G.A.U., S.K. Nagar	--
5.	Variety : GW- 496	Wheat	1989	J.A.U., Junagadh	--
6.	Variety : G Til-3	Sesame	2006	J.A.U., Junagadh	
7.	Application of Trichoderma against stem rot disease in Groundnut	Groundnut / disease management	2010	J.A.U., Junagadh	--
8.	Variety : Guj. Sesamum-2	Sesamum	1994	J.A.U., Junagadh	--
9.	Variety : Guj. Greengram - 4	Green Gram	2002	G.A.U., S.K. Nagar	--
10.	Management of mealy bug in	Cotton	2012	J.A.U., Junagadh	
11.	Chelated Mineral mixture	Buffalo	2013	AAU, Anand	--
12.	De-worming	New born Calf	2012	AAU, Anand	

### Activity Chart

Crop/ Animal/ Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Mustard	Low yield	--	Improved variety	FLD, Training, Field day	S.K.A.U., S.K. Nagar
Gram	Low yield	--	Improved variety	FLD, Training, Field day	J.A.U., Junagadh
Cumin	Low yield	--	Improved variety	FLD, Training, Field day	G.A.U., S.K. Nagar
Wheat	Low yield	--	Improved variety	FLD, Training, Field day	J.A.U., Junagadh
Groundnut	Low yield	Disease infestation	IDM	FLD, Training, Field day	J.A.U., Junagadh
Sesamum	Low yield	--	Improved variety	FLD, Training, Field day	J.A.U., Junagadh
Green gram	Low yield	--	Improved variety	FLD, Training, Field day	G.A.U., S.K. Nagar
Cotton	Low yield	--	Improved variety	FLD, Training, Field day	--
	Low yield	Infestation of Mealy bug	Management of Mealy bug in cotton	OFT, Training, Field day	J.A.U., Junagadh
Buffalo	Low milk yield	nutrition deficiency	Mineral mixture	Demonstration, Training, Animal camp	A.A.U., Anand
Calf	Mortality	parasitic infestation	De-worming	Demonstration, Training, Animal camp	A.A.U., Anand

### Agro-ecosystem Analysis of the focus/target area - II