DETAILS OF ACTION PLAN OF KVKs DURING 2016-17

(1st April 2016 to 31st March 2017)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephon	e	E mail	Website
Krishi Vigyan Kendra,	Office	FAX	surendranagar.kvk@gmail.	-
Junagadh Agricultural University	(02751) 294120	02751 280121	<u>com</u>	
Nana-Kandhasar-363 520				
Dist: Surendranagar				

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

Address	Telepi	hone	E mail	Website
	Office	FAX		
Junagadh Agricultural University, Junagadh – 360 002	0285-2672080-90	0285-2672653	dee@jau.in	-

1.2.b. Status of KVK website: No

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) : NA

1.2.d Status of ICT lab at your KVK : Nil

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

Name	Telephone / Contact							
Dr. M. C. Chandawat	Office	Mobile	Email					
Dr. M. S. Chandawat	(02751) 294120	094275 08708	surendranagar.kvk@ gmail.com					

1.4. Year of sanction: October, 2005

1.5. Staff Position (as on 30 Sept. 2015)

SI. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs. <mark>)</mark>	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
			Progr amme Co- ordina tor	sion Educ	37400- 67000 (15600 39100)	for first	1	31-3- 2015	Permanent	Other	94275 08708	surendra nagar.kvk @gmail.c om	
2		Mr. M. F. Bhorania		Plant Prote ction	15600- 39100	6000	23510/-	18-09- 2012	Permanent	Other	94282 97863	mfbhoran iya@gma il.com	
3		Dr. B. C. Bochalya		Exten sion Educ ation	15600- 39100	6000	22220/-	23-08- 2006	Permanent	Other	94277 13771		

<i></i>									T			'T	
4		-	SMS	1	15600- 39100	6000	-	_	-	-	-	-	
5		-	SMS	Agron my	15600- 39100	6000	-	-	-	-	-	-	
6		-	SMS	Hortic ture	15600- 39100	6000	-	-	-	-	-	-	
7		-	SMS	Home Sci	15600- 39100	6000	-	-	-	-	-	-	
8	Progra mme Assista nt	Mr. M. V. Pokar	Traini ng Assist ant	Exten sion Educ ation	15500 Fix	-	-	23-02- 2012	Permanent	Other	94294 20468	mvpokar 83@gmai I.com	
9	2	Mr. M. K. Kanani		Ento molog y	15500 Fix	-	:	01-04- 2015	Permanent	Other	76240 03555		
	Comput er Progra mmer 1	Patel	Comp uter Progr.	1	9300- 34800	4400/-	:	30-12- 2008	Permanent	ST			
	Account nt / Superinte dent 1	Vagadiya		_	9300- 34800	4400/-	11750/-	01-12- 2011	Permanent	Other			
12	Stenogr pher 1	Mr. S.H. Shukla	Junior Steno		10000 fix	-	-	19-11- 2013	Permanent	Other			
13	Driver 2	-	Tract or Driver	-	-	-	-	-	-				
14			Jeep Driver		5200- 20200	2400/-	11870/-	01-08- 2006	Permanent	Other			
15	Support ng staff 2	\/aidh	Peon		4440- 7440	1650/-		24-04- 2015	Permanent	Other			
16	_	Mr. A.M. Dhadvi	Peon	l	-2550- 3200	1400/-		01-10- 2015	Permanent	OBC			

S. No.	Item	Area (ha)
1	Under Buildings	04.00
2.	Under Demonstration Units	16.00
3.	Under Crops	
4.	Horticulture	
5.	Pond	
6.	Others if any	
	Total :-	20.00

1.7. Infrastructural Development:

A) Buildings

		Source of		Stage							
S.		funding		Complete				ete			
No.	Name of building		Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction			
1.	Administrative Building	ICAR	23/7/09	595	30,20,600	-	-	-			
2.	Farmers Hostel	1		296	20,74,700	-	-	-			
3.	Staff Quarters (6)				30,55,000	-	-	-			
4.	Demonstration Units (2)			78	6,16,000	-	-	-			
5	Rat Proof godown	1		158	8,30,750	-	-	-			
6	Implement Shed			77	3,00,000	-	-	-			
7	Training Hall	RKVY	1/4/10	191	13,94,500	-	-	-			
8	Pilot Scale Processing Plant		I				198	15,72,000	-	-	-
	Godown/ store room			71	5,00,000	-	-	-			
9	Implement Shed	1		77	3,00,000	-	-	-			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Bolero)	2006-07	4,96,000	-	Working
Splendor Bike	2010-11	42,980	-	Working

C) Equipments & 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	1,15000	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 of SAC meetings to be conducted in the year

SI.No.	Date
11 th Scientific Advisory Committee	03-02-2016
12 th Scientific Advisory Committee (Next Year)	01-01-2017

2. DETAILS OF DISTRICT

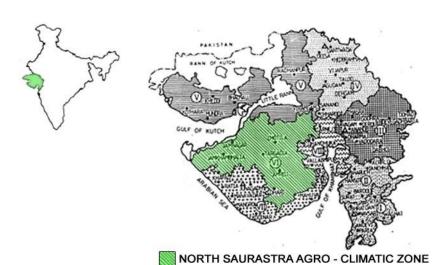
2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	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.

Agro-climatic Zone

Characteristics

PROFILE OF THE NORTH SAURASTRA AGRO - CLIMATIC ZONE VI - GUJARAT



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 :

	Area
	(lakh ha.)
:	5.58
:	0.23
	12.14
	4.00
:	1.57
:	0.56
:	1.69
	:

14. Major croped area 15. Crop sequence:

(%)		Crop
a) Kharif			Groundnut
Groundnut	10	40	Groundnut - Wheat
Cotton	:	15	Groundnut - Mustard
Pearmillet	:	12	Groundnut - Cumin
Sorghum	:	10	Groundnut - Chickpea
Sesamum		3	Pearl millet - Groundnut
Others	:	20	Pearl millet- Green gram
			Pearl millet- Cumin
b) Rabi			Pearl millet- Mustard
Wheat		5	Pearl millet - Garlic
Chickpea	:	2	Cotton
Cumin	:	3	Cotton - Groundnut
			Cotton - Sorghum

b) Topography

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 Types

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 (2013-14)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./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	91200	66500	730
7	Gram	12300	9100	739
8	Green Gram	1300	300	243
9	Mustard	300	500	1695
10	Guar Seed	1100	600	602

Source: District agriculture department.

2.5. Weather data (2015-16)

Month	Doinfall (mm)	Temperature 0 C		Relative H	umidity (%)
Wonth	Rainfall (mm)	Maximum	Minimum	Maximum	Minimum
April -15	2.0	42.2	20.7	89	11
May-15	0.0	42.2	24.0	94	08
June-15	106.5	40.9	25.1	100	21
July-15	232.0	36.1	23.2	100	37
August-15	0.0	32.9	24.5	95	53
September-15	113.0	36.8	22.1	98	28
October-15	0.0	37.7	23.2	94	22
November-15	0.0	34.9	13.7	78	17
December-15	0.0	34.9	4.2	89	13

January-16	0.0	31.7	16.1	97	29
February-16	-	-	-	-	-
March-16	-	-	-	-	-
Total	453.5				

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

Category	Population	Production	Productivity
Cattle			
Crossbred	201		
Indigenous	2,93,557	54,61,197 lit	
Buffalo	2,02,939		
Sheep	1,00,589		
Goats	1,79,648		
Pigs	22,948		
Crossbred			
Indigenous			
Rabbits			
Poultry			
Hens	-	-	
Desi	-	-	
Category		Production (Q.)	Productivity
Fish (Reservoir)			

^{*}Statical report

2.7 Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
		Lakhchokiya	Cotton, Bajra, Sesame, Pulses, Diary Farming,	Dry farming, pink bollworm in cotton, Reddening in cotton, Wild animals, Lower milk production.	Dry farming technology Awareness for vaccination & artificial insemination of animals
		Bhimora	Cotton, Bajra, Groundnut, Sesame, Pulses Diary Farming,	Dry farming, HS disease	Dry farming technology Awareness for vaccination & artificial insemination of animals
Chotila	Chotila	Rajawad	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
		Sanosara	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
		Hadala	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
Sayla	Sayla Biran Sayla Sayla	Chorvira	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
		Mangalkui	Cotton, Wheat, Cumin, Sesame, Bajra	Lack of knowledge of modern dry land technologies, Injudicious use of fertilizers & Pesticides	Dry farming technologies

		Dharadungari	Cotton, Bajra, Sesame, Wheat, Cumin, Dairy Farming,	Lack of knowledge about weed, pest and diseases & nutrient management HS disease, Trypanosomesis disease	To motivate farmers to grow arid and semi arid horticultural crops. Awareness for vaccination & artificial insemination of animals
		Karmad	Dairy Farming, Cotton, G'nut, Sesame, Wheat, Cumin, Bajra, Gram	Soil salinity, poor drainage system FMD, Lack of knowledge of modern dry land technologies, INM,I PM etc	
	<u>0</u>	Ramdevgadh	Dairy Farming, Cotton, G'nut, Sesame, Wheat, Gram, Cumin, Bajra	Soil salinity, Awareness for vaccination & artificial insemination of animals	Irrigated farming technology, Awareness for vaccination & artificial insemination of animals
Chuda	Chuda	Melapur	Dairy Farming, Cotton, G'nut, Sesame, Gram, Wheat, Cumin, Bajra	Soil salinity, low knowledge of scientific cultivation of crops ,HS disease, Injudicious use of fertilizers & Pesticides	Irrigated farming technology, Awareness for vaccination & artificial insemination of animals
		Chhatariyala	Dairy Farming, Cotton, G'nut, Sesame, Gram, Wheat, Cumin, Bajra	Soil salinity, poor water quality for irrigation, , low knowledge about INM, IPM , in crops,	Irrigated farming technology, Awareness for vaccination & artificial insemination of animals

2.8 Priority 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 wate 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 PROGRAMME

4. A. Details of targeted mandatory activities by KVK

0	FT	FL	_D
(*	1)	(2	2)
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
6	18	84	215

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
88	2200	20	10000

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
67	10000	-	500

3. B. Abstract of interventions to be undertaken

						Interventions			
S. No	Thrust area	Crop/ Enterprise	Identified Problem	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extensi on activitie s	Supply of seeds, planting materials etc.
1	-	Gram	Low yield	-	Varietal evaluation	Improved cultivation practices for gram & mustard		FLD, Field Days, Training	Seed input : Guj.Gram-3/5
2		Cumin	Low yield	Assessment of sulphur in cumin	IDM	Plant protection measures for pest & disease in cumin		FLD, Field Days, Training	
						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	_	IDM	IPM in G'nut		FLD, Field Days, Training	
						Pure seed production technique in Groundnut			
5.		Sesamum	Low yield	Assessment of sulphur in Sesamum	Varietal evaluation	Pure seed production technique in sesamum		FLD, Field Days, Training	GT-4
				Management of sesame leaf webber under rainfed condition		Pure seed production technique in sesamum			
				Varietal assessment of Sesamum Guj Til-4 in Surendranagar district		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 &			
6.	Green Gram	Low yield	-	Varietal evaluation	disease of sesame Proper use of weedicides in field crops	FLD, Field Days, Training	FLD, Field Days, Training	GM-4
					Control measures for pest & disease of kharif pulses			
					Integrated nutrient management in kharif field crops			
7.	Cotton	Low yield	Management of sucking pests in Cotton	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: Verticillium lacani
			Assessment of high density planting in Cotton		IPM in cotton			
					Control of pink bollworm in cotton			
8.	Bio-agent	Heavy infestation	Application of Tricho derma against stem rot Disease In G'nut	Yield evaluation	Importance of IDM		FLD, Field Days, Training	FLD : Bio-agent : Trichoderma harzianum Culture
9	Agro Forestry			Gum Production	Introduction of gum inducing technology in Surendranagar district from acacia Senegal and other trees		FLD, Field Days, Training	Assessment of gum inducing agent

3.1 Technologies to be assessed and refined

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

Thematic areas	Cereals	Oilseed s	Pulses	Commercia I Crops	Vegetables	Fruits	Flower	Plantatio n crops	Tuber Crop s	TOTAL
Varietal Evaluation		1								
Seed / Plant production										
Weed Management										
Integrated Crop Management				1						
Integrated Nutrient Management		1		1						
Management										

		 	,	ļ=-===	 	,	,
Integrated Farming System							
Mushroom cultivation							
Drudgery reduction							
Farm machineries							
Value addition							
Integrated Pest Management	1	1					
Integrated Disease							
Management							
Resource conservation							
technology							
Small Scale income							
generating enterprises							
TOTAL	03	03					

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

Thematic areas	Cereals	Oilseed s	Pulses	Commercia I Crops	Vegetables	Fruits	Flower	Kitchen garden	Tuber Crop s	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

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

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

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

B. Details of On Farm Trial

1. Assessment of sulphur in cumin

Objective	To increase the yield by different sources of Sulphur
Reason for low yield of	1. Lack of knowledge of Sulphur application.
Cumin	2. Sulphur deficient soil of district (60% Area)
	3. Unbalance fertilization.
Technical Intervention	Management of sulphur application in Cumin
Treatments	1. Farmers practice (Control)
	(125 kg DAP and 55 kg Urea / ha)
	2. Recommended dose of fertilizer (30-16-0 NPK kg/ha) through DAP & Urea (33 kg DAP and 33 kg Urea / ha)
	3. T-2 + 16 kg Sulphur through Gypsum (33 kg DAP and 33 kg Urea + 100 kg Gypsum / ha)
	4. Recommended dose of fertilizer (30-16-0 NPK kg/ha) through Ammonium Sulphate & Single Sulphosphate. (94 kg SSP and 142 kg AS / ha)

2. Assessment of sulphur in Sesamum

Objective	To increase the yield by different sources of Sulphur
Reason for low yield of	1. Lack of knowledge of Sulphur application.
Cumin	2. Sulphur deficient soil of district (60% Area)
	3. Unbalance fertilization.
Technical Intervention	Management of sulphur application in Sesamum
Treatments	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.
	(238 kg AS + 166 kg SSP + 66 kg MOP / ha)

3. Management of sesame leaf webber under rainfed condition.

Objective	To minimize the incidence of leaf webber in sesame.
Reason for low	Lack of knowledge about the use of particular pesticides.
yield of Cotton	2. No adoption of recommended practices.
	3. Farmers follows instruction given by the local pesticides retailer.
Technical Intervention	Management of leaf webber in sesame.
Treatments	1.Farmers practice (Use of conventional insecticides after infestation)
	2. Recommended practices Application of the insecticide will be start at pest infestation occurred. Cartap hydrochloride 50% S.P. @ 10ml/10 Litre of water at the time of infestation.
	3. Cartap hydrochloride 50% S.P. @ 5gm/10 Litre of water + <i>Verticilium</i> lecani @ 50gm/10 litre of water at the time of infestation.
RESULT	No. of infected plants

4. Management of sucking pests in Cotton.

Objective	To minimize the incidence of sucking pests in cotton.
Reason for low	Lack of knowledge about the use of particular pesticides.
yield of Cotton	2. No adoption of recommended practices.
	3. Farmers follows instruction given by the local pesticides retailer.
Technical Intervention	Management of sucking pests in cotton.
Treatments	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 ml/10 litre of water or Imidachloprid: 200 SL @ 4 ml/10 litre or Cartap hydrochloride 50% S.P. @ 10ml/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

5. Varietal assessment of Sesamum Guj Til-4 in Surendranagar district

Objective	To increase yield of Sesamum				
Source of technology Agricultural Research Station, JAU, Amreli					
Treatments	 Variety: Guj Til-2 OR Local Variety: Guj Til-4 				
Parameters	Yield				

6. Assessment of high density planting in Cotton.

Objective	To observe the yield of cotton in High density.
Reason	1. Low yield of cotton.
Technical	Less optimum plant population per unit area. Management of spacing between row & between plant.
Intervention Treatments	 Recommendation: Sowing of cotton at spacing 120 x 45 cm. (18,518 plants / ha) Intervention: Sowing of cotton at spacing 60 x 30 cm. (55,555 plants / ha) Intervention: Sowing of cotton at spacing 90 x 30 cm. (24,691 plants / ha)

3.2 Frontline Demonstrations

A. Details of FLDs to be organized -

SI. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farme rs/ demo n.	
1	Wheat	GW-366		Improve Variety	40.0 kg Seed	Rabi-2016-17	08	20	
2	Cumin	GC-4	farming	IDM	Mancozeb : 500 gm Carbendazim:250gm Hexaconazole:100ml <i>Trichoderma</i> : 2.0 kg	Rabi-2016-17	08	20	
3	Gram	GJG-3/5		Improve Variety	25 kg Seed	Rabi-2016-17	04	10	
	Gram	GJG-3/5		Improve Variety	Variety GG-5/3: 25kg	Rabi-2016-17	20	50	

\Box	Under			Rhizobium -500ml				
	(NFSM)			PSB-500 ml				
				Beauveria-1 kg				
				Trichoderma-2 kg				
4	Green gram	GM-4	Improve Variety	4.0 kg Seed	Kharif-2016-17	04	10	1-1
5	Sesame	Guj-Til-4	Improve Variety	1.0 kg Seed	Kharif-2016-17	04	10	
6	Groundnut	GG-9	IDM	Mancozeb:500 gm Chlorothalonil:500 gm Carbendazim:250 gm	Kharif-2016-17	04	10	
	Groundnut (NFSM)	GG-9/22	Improve Variety	GJG-9/22-30 kg Rhizobium -500ml PSB-500 ml Beauveria-1 kg Trichoderma-2 kg	Kharif-2016-17	20	50	
7	Groundnut	GG-20	Bio-agent	Castor cake: 100 kg <i>Trichoderma</i> : 2.0 kg	Kharif-2016-17	02	05	
8	Cotton	Bt Cotton varieties	INM	Azotobactor : 500 ml PSB : 500 ml Micro Mix Grade IV- 500 gm	Kharif-2016-17	10	25	
9.	Tree plants (Acacia spcs, drum stick,),	productio	Gum inducing technology	Gum inducing chemical	Rabi 16-17	-	5	
				Total		84	215	

Sponsored Demonstration

Сгор	Area (ha)	No. of farmers
-		

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	Aug-Sept	
			Feb-March	
2	Farmers Training	As per action plan		
3	Media coverage	As and when published		
4	Training for extension functionaries	5		

C. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Automatic seed drill	Groundnut/ Wheat	Kharif/Rabi-2016- 17	10	-	Automatic seed drill	-
Shredder	Cotton	Rabi	10	-	Shredder	-
Seed Dressing Drum	All crop	Kharif/Rabi-2016- 17	10	-	Seed Dressing Drum	-

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators

3.3 Training (Including the sponsored and FLD training programmes):

A) ON Campus

	No. of Participants							***************************************
Thematic Area	Courses		Others			Grand		
	Courses	Male	Female	Total	Male	Female	Total	Total
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	-	-	-	-	-	-	-	-
Resource Conservation Technologies	3	-	-	-	-	-	-	75
Cropping Systems	-	-	-	-	-	-	-	-
Crop Diversification	1	-	-	-	-	-	-	25
Integrated Farming	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-
Seed production	6	-	-	-	-	-	-	150
Nursery management	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-
Fodder production	-	1 -	-	-	-	-	- 1	-
Production of organic inputs	1	1 -	-	-	-	-	-	25
II Horticulture	<u> </u>						ēkı	
a) Vegetable Crops		7						
Production of low volume and high value crops	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-
Nursery raising	-	 -	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	- -	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	- 1	-
Protective cultivation (Green Houses, Shade Net etc.)	1	-	-	-	-	-	-	25
b) Fruits		-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	l - l	-
Cultivation of Fruit	-	-	_	-	-	_	-	_
Management of young plants/orchards	-	 -	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	_
Export potential fruits	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	1	-	-	-	-	-	-	25
Plant propagation techniques	-	 	-	-	-	-	-	-
c) Ornamental Plants			_	-	-	-	_	-
Nursery Management		-	-	-	-	-	- 1	
Management of potted plants		-	_	 -	-	-	-	-
Export potential of ornamental plants	-		_		_	_		
Propagation techniques of Ornamental Plants			_	-	-	-	_	-
d) Plantation crops	 	 -	_		_	-	_	
Production and Management technology		-	_	-	-	-	-	-
Processing and value addition		 -	_		_	-	_	
e) Tuber crops	 	+	_		_	-		
Production and Management technology	 	 -	_		_	-	_	
Processing and value addition	<u> </u>	+	_		_	-		

Production and Management technology		T	<u> </u>		T _	_		
Processing and value addition		<u> </u>			<u> </u>	_	<u> </u>	_
g) Medicinal and Aromatic Plants	<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u> </u>
Nursery management	-	 	<u> </u>		<u> </u>			_
Production and management technology	-	 	<u> </u>	-	<u> </u>	-	<u> </u>	-
Post harvest technology and value addition	-	 		-	<u> </u>			_
III Soil Health and Fertility Management	-	 -	-	-		-		-
	-	<u> </u>	<u> </u>	-	<u> </u>	-		- 2F
Soil fertility management Soil and Water Conservation	1	 -	<u> </u>	-	<u> </u>	-	<u> </u>	25
	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	<u> </u>	-	-		-	ļ	-
Production and use of organic inputs	1	<u> </u>	-	-	-	-		25
Management of Problematic soils	-	<u> </u>	-	-	<u> </u>	-	-	-
Micro nutrient deficiency in crops	-	<u> </u>	-	-		-	-	-
Nutrient Use Efficiency	-	ļ	-	-	ļ	-	-	-
Soil and Water Testing		<u> </u>		-	<u> </u>	-	<u> </u>	<u> </u>
IV Livestock Production and Management	Т	T			Т	ı	·	
Dairy Management	2	 -	<u> </u>	-	<u> </u>	-		50
Poultry Management	-	<u> </u>	-	-	ļ -	-	-	-
Piggery Management	-	<u> </u>	-	-		-	-	-
Rabbit Management/goat	-	<u> </u>	-	-	<u> </u>	-	<u> </u>	
Disease Management	1	<u> </u>	-	-	<u> </u>	-	_	25
Feed management	2	<u> </u>	-	-	-	-		50
Production of quality animal products		<u> </u>	-		<u> </u>	-	<u> </u>	
V Home Science/Women empowerment	····			,	·····		- <u>i</u>	·
Household food security by kitchen gardening and nutrition	_	-	-	-	-	-	-	-
gardening		<u> </u>			ļ			
Design and development of low/minimum cost diet	-	<u> </u>	-	-		-	-	-
Designing and development for high nutrient efficiency diet	-	<u> </u>	-	-		-	-	-
Minimization of nutrient loss in processing	-	<u> </u>		-	-	-	<u> </u>	-
Gender mainstreaming through SHGs	-		-	-		-		-
Storage loss minimization techniques	-		-	-	-	-	-	-
Value addition	1	<u> </u>	-	-		-		25
Income generation activities for empowerment of rural	1	-	-	-	-	-	-	25
Women		<u> </u>	ļ		<u> </u>			
Use of Solar Cooker and their advantages	1		-	-	-	-	-	25
Location specific drudgery reduction technologies								
Rural Crafts	1		-	-	_	-	-	25
Women and child care	-	<u> </u>	-	-		-	-	-
VI Agril. Engineering	-		-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	1	<u> </u>	-	-	-	-	-	25
Use of Plastics in farming practices	-		-	-		-	<u> </u>	-
Production of small tools and implements	2	<u> </u>	-	-		-		25
Repair and maintenance of farm machinery and implements	1		-	-	-	-	-	25
Small scale processing and value addition	-	<u> </u>	-	-		-		-
Practices for Soil Moisture conservation	1	<u> </u>	-	-	_	-	<u> </u>	25
Post Harvest Technology	-	<u> </u>	-	-	<u> </u>	-	_	-
VII Plant Protection								
Integrated Pest Management	-	<u> </u>	-	-		-	-	-
Integrated Disease Management	1	ļ -	_	-	-	-	-	25
Bio-control of pests and diseases	1		-	-	_	-	_	25
Production of bio control agents and bio pesticides	1	<u> </u>		-		-		25
Precaution while handling pesticides	1		-	-	-	-	-	25
VIII Fisheries		<u> </u>			<u> </u>			
Integrated fish farming	-		-	-		-	<u> </u>	-
Carp breeding and hatchery management	-		-	-	-	-		-
Carp fry and fingerling rearing	-	_	-	-	-	-	-	-
Composite fish culture	-		-	-	_	-	-	-
Hatchery management and culture of freshwater prawn	-	<u> </u>	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	T -	-	-	Ī -	-	T -	-
Portable plastic carp hatchery	-	T -	-	-	_	-	-	-
Pen culture of fish and prawn	-	1 -	-	-	-	-	-	-
Shrimp farming	-	 -	-	-	-	-	-	-
Edible oyster farming	-	T -	-	-	-	-	-	-
· · · · · · · · · · · · · · · · · · ·		-			4	•	-8	4i

Pearl culture		.	<u> </u>		T _	<u> </u>		
Fish processing and value addition	<u> </u>	 	<u> </u>		<u> </u>	<u> </u>	<u> </u>	
IX Production of Inputs at site	ļ	 	<u> </u>		 	<u> </u>	ļ	
Seed Production	 	- 		_	 			ļ
	 	 -			ļ <u>-</u>		-	ļ
Planting material production	-	<u> </u>	-	-	-	-	-	
Bio-agents production	-		-	-	<u> </u>	-	-	ļ
Bio-pesticides production	-		-	-	-	-	-	-
Bio-fertilizer production	-	<u> </u>	<u> </u>	-	ļ <u>-</u>	-	<u> </u>	-
Vermi-compost production	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-		-	-	ļ <u>-</u>	-	_	-
Production of Bee-colonies and wax sheets	-		-	-	-	-	-	-
Small tools and implements	-		-	-	-	-	-	-
Production of livestock feed and fodder	-		-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics								
Leadership development	-	T -	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	† -	-	-	-	-	-	-
Mobilization of social capital	-	† -	-	-		-	-	-
Entrepreneurial development of farmers/youths	1	- 	-	-	 	-	† -	25
WTO and IPR issues	 	- 	-	-	-	-	-	-
XI Agro-forestry	†	-†		l			ł	
Production technologies	 		_	-		_	-	
Nursery management		 	_		<u> </u>	-		
Integrated Farming Systems		+	_			_	<u> </u>	
XII Others (Pl. Specify)	 	 	<u> </u>		 	<u> </u>	-	ļ
TOTAL	<u> </u>	.						
(B) RURAL YOUTH	<u> </u>	.			ļ			
Mushroom Production		.						
	-		-	-	<u> </u>	-	-	ļ
Bee-keeping	-		-	-	ļ	-	-	-
Integrated farming	-	<u> </u>	-	-	ļ <u>-</u>	-	ļ -	-
Seed production	-		-	-	<u> </u>	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-
Integrated Farming (Medicinal)	-		-	-		-	-	-
Planting material production	-		-	-		-	-	-
Vermi-culture	-	-	-	-	-	-		-
Sericulture	-		-	-	-	-	-	-
Protected cultivation of vegetable crops	-	T -	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	 -	-	-	-	-	-	-
Value addition	-	 -	-	-	-	-	-	-
Production of quality animal products	-	 	-	-	 -	-	-	-
Dairying	-	-	-	- -	-	-	-	j
Sheep and goat rearing	-	- 	-	-		-	 -	-
Quail farming	 	-	-	- -		-	† -	-
Piggery		 	-	- -	 	-	-	-
Rabbit farming		- 	-	-	-	-	-	-
Poultry production	 	 				_		
Ornamental fisheries		 	-	-	ļ <u>-</u> -	-		-
	 	 	 		 		ļ	<u>-</u>
Para extension workers	 	 -	-	-	 	-	-	-
Para extension workers	<u> </u>	.	- -	-		<u> </u>	<u> </u>	-
Composite fish culture	-	 -	-	-	ļ <u>-</u>	-	<u> </u>	ļ <u>-</u>
Freshwater prawn culture	<u> </u>	<u> </u>	-	-	<u> </u>	-	<u> </u>	-
Shrimp farming	<u></u>	<u> </u>	-	-	<u> </u>	-	-	-
Pearl culture	-		-	-	<u> </u>	-	-	-
Cold water fisheries	-	<u> </u>	-	-		-	-	-
Fish harvest and processing technology		-	-	-		-		-
Fry and fingerling rearing	-		-	-		-	<u> </u>	-
Small scale processing	-	-	-	-	-	-	-	-
Post Harvest Technology	-	T -	-	-	-	-	-	-

Tailoring and Stitching	-	-	-	-	-	-	- -	-
Rural Crafts	-	-	-	-	-	-	-	-
TOTAL								
(C) Extension Personnel								
Productivity enhancement in field crops	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-
Formation and Management of SHGs	1	-	-	-	-	-	-	25
Group Dynamics and farmers organization	1	-	-	-	-	-	-	25
Information networking among farmers	-	-	-	-	-	-	-	-
Capacity building for ICT application	1	-	-	-	-	-	-	25
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-
Production and use of organic inputs	1	-	-	-	-	-	-	25
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-
Global Worming and Climate changes	1	-	-	-	-	-	-	25
Any other (Pl. Specify)	-	-	-	-	-	-	-	-
TOTAL	39	-	-	-	-	-	-	975
G. Total	39							975

B) OFF Campus

		No. of Participants								
Thematic Area	No. of Courses		Others			SC/ST		Grand Total		
		Male	Female	Total	Male	Female	Total			
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	-	-	-	-	-	-	25		
Resource Conservation Technologies	2	-	-	-	-	-	-	50		
Cropping Systems	-	-	-	-	-	-	-	-		
Crop Diversification	-	-	-	-	-	-	-	-		
Integrated Farming	-	-	-	-	-	-	-	-		
Water management	2	-	-	-	-	-	-	50		
Seed production	5	-	-	-	-	-	-	125		
Nursery management	-	-	-	-	-	-	-	-		
Integrated Crop Management	1	-	-	-	-	-	-	25		
Fodder production	-	-	-	-	-	-	-	_		
Production of organic inputs	1	-	-	-	-	-	-	25		
II Horticulture			.4		4		4			
a) Vegetable Crops										
Production of low volume and high value crops	-	-	-	-	-	-	-	-		
Off-season vegetables	-	-	-	-	-	-	-	_		
Nursery raising	1	-	-	-	-	-	-	25		
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	_		
Export potential vegetables	-	-	-	-	-	-	-	-		
Grading and standardization	-	-	-	-	-	-	-	_		
Protective cultivation (Green Houses, Shade	2	-	-	-	-	-	-	50		
Net etc.)	2							30		
b) Fruits										
Training and Pruning	-	-	-	-	-	-	-	-		
Layout and Management of Orchards	-	-	-	-	-	-	-	-		
Cultivation of Fruit	-	T -	-	-	-	-	-	-		
Management of young plants/orchards	-	-	-	-	-	-	-	-		
Rejuvenation of old orchards	-	-	-	-	-	-	-	-		
Export potential fruits	-	-	-	-	-	-	-	-		

				-	T		T	0.5
Micro irrigation systems of orchards	1	_		<u> </u>		-	ļ	25
Plant propagation techniques	-	-	-	<u> </u>	-	-	-	-
c) Ornamental Plants				<u> </u>			<u> </u>	
Nursery Management	-	-	-		-	-	-	-
Management of potted plants	-	-	-		-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-
d) Plantation crops								
Production and Management technology	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-
e) Tuber crops								
Production and Management technology	-	-	-	 	-	-	-	-
Processing and value addition	_	_		 	_	-	<u> </u>	_
f) Spices				-			I	
Production and Management technology	_			-	_	_		_
Processing and value addition	_	_		₩				
	-			<u> </u>			<u> </u>	-
g) Medicinal and Aromatic Plants		_		<u> </u>			ļ	
Nursery management	-	-	-	-	-	-	-	-
Production and management technology	-		-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management								
Soil fertility management	1	-	-	-	-	-	-	25
Soil and Water Conservation	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-
Production and use of organic inputs	1	-	-	-	-	-	-	25
Management of Problematic soils	-	-	-	╁	-	-	- I -	-
Micro nutrient deficiency in crops	_	_		╁	_			_
Nutrient Use Efficiency	_	_		-	_	-		
Soil and Water Testing	1	_		<u> </u>				25
IV Livestock Production and Management	<u>'</u>				L	-	L	20
				T -			T	25
Dairy Management	1	-	- 		-	- 	<u> </u>	
Poultry Management	-		-	-	-	-	ļ	-
Piggery Management	-	-	-		-	-	-	-
Rabbit Management /goat	-		-	-	-	-	-	-
Disease Management	4	-	-	-	-	-	-	100
Feed management	3	-	-	-	-	-	-	75
Production of quality animal products	-	-	-	-	-	-	-	-
V Home Science/Women empowerment				-				
Household food security by kitchen gardening		-	-	-	-	-	-	
and nutrition gardening	_							-
Design and development of low/minimum cost		-	-	-	-	-	-	
diet	-							-
Designing and development for high nutrient		-	-	<u> </u>	-	-	i - I	
efficiency diet	1							25
Minimization of nutrient loss in processing	-			-	-		-	
Gender mainstreaming through SHGs	_	 	-	-	-	-	-	-
Storage loss minimization techniques	_			<u> </u>			 	
Value addition	2	_	-			-	ļ	50
Income generation activities for empowerment				-	_		 	
of rural Women	-		-	-		_		-
Location specific drudgery reduction	 	_		1	ļ			
, , ,	-	-	-	-	-	-	-	-
technologies		_					ļ	
Rural Crafts	-	_	-	-	-	-		-
Women and child care	1		-	-	-	-	<u> </u>	25
VI Agril. Engineering		_					<u> </u>	
	1	-	-	-	-	-	-	_
Installation and maintenance of micro irrigation	I -			1			<u> </u>	
Installation and maintenance of micro irrigation systems	-			<u> </u>				
Installation and maintenance of micro irrigation	-	-	-	-	-	-	<u> </u> -	
Installation and maintenance of micro irrigation systems	- - 2		- - -	-	-	-	-	- 50
Installation and maintenance of micro irrigation systems Use of Plastics in farming practices	2	- - -	- - -	-	- - -	- - -	- - -	
Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements		- - - -	- - - -	-	- - -	- - -	- - -	50 25
Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements	2		- - -	- -	- - -	- - -	-	
Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition	1		- - - - - -		- - - -		-	25
Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements	1 -			-		- - - -	· 	25

Integrated Pest Management	3	-	-	-	-	-		75
Integrated Disease Management	3	-	-	-	-	-	 -	75
Bio-control of pests and diseases		-	-	-	-	-	-	-
Production of bio control agents and bio		-	-	-	-	-	- -	
pesticides	2							50
VIII Fisheries		-						
Integrated fish farming	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	- -	-
Composite fish culture	-			-	-	-	i -	-
Hatchery management and culture of freshwater		-	-	-	-	-	-	
prawn	-							-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-		-
IX Production of Inputs at site							&======== 	
Seed Production	-	-	-	-	-	-	-	-
Planting material production (Horti.)	=	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-
Bio-fertilizer production	=	-	-	-	-	-	-	-
Vermi-compost production (Horti.)	-	-	-	-	-	-	-	-
Organic manures production (A.S.)	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	<u> </u>	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics								
Leadership development	1	-	-	-	-	-	-	25
Group dynamics	3	-	-	-	-	-	-	75
Formation and Management of SHGs(HS)	-	-	-	-	-	-	-	-
Mobilization of social capital	1	-	-	-	-	-	-	75
Entrepreneurial development of farmers/youths	1	-	-	-	-	-	-	25
(Agro.)	ı						<u> </u>	
WTO and IPR issues	1	-	-	-	-	-	<u>-</u>	25
XI Agro-forestry								
Production technologies	-	-	-	-	-	- -	_ 	-
Nursery management	-	-	-	-	-	-	-	-
Integrated Farming Systems (Agro)	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	=	-	-	-	-	-	-	-
TOTAL	49	-	-	-	-	-	-	1225
		_l	l	. <u>i</u>	L	İ	<u> </u>	L

C) Consolidated table (ON and OFF Campus)

		No. of Participants							
Thematic Area	No. of Courses	Others			SC/ST			Grand Tatal	
		Male	Female	Total	Male	Female	Total	Grand Total	
(A) Farmers & Farm Women	<u> </u>								
I Crop Production									
Weed Management	1	-	-	-	-	-	-	25	
Resource Conservation Technologies	5	-	-	-	-	-	-	130	
Cropping Systems	-	-	-	-	-	-	-	-	
Crop Diversification	1	-	-	-	-	-	-	30	
Integrated Farming	-	-	-	-	-	-	-	-	
Water management	2	-	-	-	-	-	-	50	
Seed production	11	-	-	-	-	-	-	285	
Nursery management	-	-	-	-	-	-	-	-	

Integrated Crop Management	1 1	T -	-	-	-	-	-	25
Fodder production	-	-	-	-	-	-	-	-
Production of organic inputs	2	-	-	-	-	-	-	55
II Horticulture							l	
a) Vegetable Crops	T							
Production of low volume and high value crops	-	 	-	-	-	-	-	-
Off-season vegetables	-	-	-	-		-	-	-
Nursery raising	1	-	-	-		-	-	25
Exotic vegetables like Broccoli		╁-	-					
Export potential vegetables	_		_	-	_	-		_
Grading and standardization	_	-						
Protective cultivation (Green Houses, Shade Net etc.)	3	 	_	_			_	75
b) Fruits	1	 						70
Training and Pruning	_	├_	_				-	_
Layout and Management of Orchards	_	-	_	-		-	-	_
Cultivation of Fruit	_	├-	_				-	_
Management of young plants/orchards	_	├	_					_
Rejuvenation of old orchards	_	├	_	-				_
Export potential fruits	_	-	_	-		-	-	_
Micro irrigation systems of orchards	2	<u> </u>	_					- 50
Plant propagation techniques	-	-	-		_	-		-
c) Ornamental Plants							l	
Nursery Management		_	_					_
Management of potted plants		-			-	-		
Export potential of ornamental plants	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	_		_					_
d) Plantation crops	_	- -	_					_
Production and Management technology	_	-	_			- -		_
Processing and value addition	_		_	_				_
e) Tuber crops	_	-	_	-	-	-	-	_
Production and Management technology	_	├	_	-				_
Processing and value addition		-	-	-		-	-	_
f) Spices	_	-	_					_
Production and Management technology	_	├	-				-	-
Processing and value addition		-						
g) Medicinal and Aromatic Plants	_							_
Nursery management	_	_	_	-	_	-	-	_
Production and management technology	_	-	_				-	-
Post harvest technology and value addition	-	<u> </u>	-	-		-	-	-
(B) RURAL YOUTH	-	<u> </u>	-	-			-	-
Mushroom Production		-	-	-		-	-	-
Bee-keeping	_	-	_	-			-	_
Integrated farming	-	-	-	-			-	-
Seed production	-	-	-	-			-	-
Production of organic inputs	-	-	-	-	-		-	-
Planting material production	-	-	-	-	-	-	-	-
Vermi-culture		_	_	-		-	-	-
Sericulture	-	_	-	-	_	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and		├-	-	-	-	-	-	
implements	-							-
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-
Production of quality animal products	-	 -	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-
Ornamental fisheries	-	<u> </u>	-	-	-	-	-	-
						l	l	L

Deve viete	T		¥	<u> </u>	,		ļ	,
Para vets	-	-	-	-	-	ļ <u>-</u>	-	-
Para extension workers	-	-	-	-	-	ļ	-	-
Composite fish culture	-	-	-	-	<u> </u>	-	<u> -</u>	-
Freshwater prawn culture	-	-	-	-	-	-	-	-
Shrimp farming	-		-	-	-	-	-	-
Pearl culture		-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	<u> </u>	-
Fry and fingerling rearing	-	_	-	-	-	-	-	-
Small scale processing	-	-		<u> </u>	-	-		-
Post Harvest Technology	_	-		-	-	-	- 1	-
Tailoring and Stitching	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-
(C) Extension Personnel	-	-	-	-	-	-	-	-
Productivity enhancement in field crops		-	_	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	_	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-
Formation and Management of SHGs	<u> </u>	-	-	- 1	- 1	-	- 1	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-
Information networking among farmers	<u> </u>	-	-	-	-	-	- 1	-
Capacity building for ICT application	-	-	-	-	-	-	- 1	-
Care and maintenance of farm machinery and		-	-	-	-	-	-	
implements	-							-
WTO and IPR issues	-	-	-	-	-	-	- 1	-
Management in farm animals	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	 	-
Any other (Pl. Specify)	-	_	-	_	-	-		-
TOTAL	-	-	-	-	-	-	-	-
G. Total	-	 - 	-	-	-	-	†	-
III Soil Health and Fertility Management	-	-		_	-	-	-	-
Soil fertility management	2	 	-	-	-		-	- 50
Soil and Water Conservation	<u>-</u>	-	-		-		 -	-
Integrated Nutrient Management	 -	-	_	-	-		 -	_
Production and use of organic inputs	2	 _ 	-	-	_		 -	- 50
Management of Problematic soils	-	-	_	_	-	-	-	-
Micro nutrient deficiency in crops	- 	-	<u> </u>	-	-	<u>-</u> -	ļ <u>-</u>	-
Nutrient Use Efficiency	-	-			-	-	- -	- -
Soil and Water Testing	<u> </u>	-	<u> </u>	-		<u>-</u> -	- -	- 25
IV Livestock Production and Management	1 -	-	-	 	-	ļ	 -	2ن
	3	-	<u> </u>			ļ	 	- 75
Dairy Management Poultry Management	3		ļ <u>-</u>	-	-	-	ļ	70
, ,	-				-	ļ	 	-
Piggery Management	<u> </u>	-	-	-	-	<u>-</u>	 	-
Rabbit Management/goat		-	-	-	-	-	-	- 105
Disease Management	5	-	-	-	-	-	-	125
Freed management	5		-	-	-	-	ļ	125
Production of quality animal products	-	-	-	-	-	<u>-</u>	ļi	-
V Home Science/Women empowerment	-	-	-	-	<u> </u>	-	ļ	-
Household food security by kitchen gardening and	-	-	-	-	-	-	-	_
nutrition gardening	<u> </u>		ļ		<u> </u>	ļ	ļ	
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency	1	-	-	-	-	_	-	25
diet	<u> </u>			 			 	
Minimization of nutrient loss in processing			<u> </u>	<u> </u>	-			-
Gender mainstreaming through SHGs		أتب		<u> </u>	-	-	<u> </u>	-
Storage loss minimization techniques	•	1 - 1		-	- 1	_	-	-

Value addition	3	Τ.						75
	3	-	-	-	-	-	-	75
Income generation activities for empowerment of rural Women	2	-	-	-	-	-	-	50
				_				
Location specific drudgery reduction technologies	-	<u> </u>	-		-	-	-	
Rural Crafts	1	-	-	-	-	-	-	25
Women and child care	1	<u> </u>	-	-	-	-	-	25
VI Agril. Engineering	-	<u> </u>	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	1	<u> </u>	-	-	-	-	-	25
Use of Plastics in farming practices	-	<u>-</u>	-	-	-	-	-	-
Production of small tools and implements	4	-	-	-	-	-	-	100
Repair and maintenance of farm machinery and	2	_	_	_	_	-	_	50
implements	_							
Small scale processing and value addition	1	-	-	-	-	-	-	25
Post Harvest Technology	-	-	-	-	-	-	-	-
VII Plant Protection	-	-	-	-	-	-	-	-
Integrated Pest Management	4	-	-	-	-	-	-	100
Integrated Disease Management	4	-	-	-	-	-	-	100
Bio-control of pests and diseases	1	 -	-	-	-	-	-	25
Production of bio control agents and bio pesticides	3	 -	-	-	-	-	-	75
VIII Fisheries	-	 -	-	-	-	-	-	-
Integrated fish farming	-	 -	-	-	-	-		-
Carp breeding and hatchery management	-	 	_	_		-		
Carp fry and fingerling rearing	_		_	l				_
Composite fish culture		- -		_ 		-	-	-
Hatchery management and culture of freshwater prawn		-	-	-		-	-	-
	-	<u> </u>	-		-	-		-
Breeding and culture of ornamental fishes	-	<u> </u>	-	-	-	-	-	-
Portable plastic carp hatchery	-	<u> </u>	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-
Shrimp farming	-	<u> </u>	-	-	-	-	-	-
Edible oyster farming	-		-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-
Seed Production	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-
Vermi-compost production	-	╁	-	-	-	-	-	-
Organic manures production	-	 -	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	_		-	-	-
Production of Bee-colonies and wax sheets	_	 	-	-		-	-	_
Small tools and implements	_	- -	_					_
Production of livestock feed and fodder	-	-	-	<u> </u>	<u>-</u> -	- 	-	-
Production of livestock feed and fodder Production of Fish feed	-			-				
	-	<u>-</u>	-	-	-	-	-	-
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	- ^-
Leadership development	1	-	-	-	-	-	-	25
Group dynamics	3	-	-	-	-	-	-	75
Formation and Management of SHGs	-	-	-	-	-	-	-	-
Mobilization of social capital	1	<u> </u>	-	-	-	-	-	25
Entrepreneurial development of farmers/youths	2	-	-	-	-	-	-	50
WTO and IPR issues	1	-	-	-	-	-	-	25
XI Agro-forestry	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	† -	-	-	-	-	-	-
Sponsored training	-	-	-	-	-	-	-	-
TOTAL	-	╁-	-	-	-	-	-	-
(B) RURAL YOUTH	-	-	-	-	_	-		
Mushroom Production	-	-	-	-		-	-	-
Bee-keeping	_	<u> </u>	_		-			
Integrated farming	_							-
Seed production	-	-	-		<u>-</u>	-		-
Seed production	-	1 -	-			-	- 1	-

Production of organic inputs		···			-	_		_
Integrated Farming								_
Planting material production	-	<u> </u>	_		-	<u>-</u>	- 	-
Vermi-culture	-	-			<u>-</u>			-
Sericulture	-				-			-
	-			-		-	-	-
Protected cultivation of vegetable crops	-		-	-	-	-	-	-
Commercial fruit production	-		-	-	-	-	-	-
Repair and maintenance of farm machinery and	-	-	-	-	-	-	-	-
implements	1			ļ				
Nursery Management of Horticulture crops	-		-	-	-	-	- 	-
Training and pruning of orchards	-	-	-	-	-	- 	-	-
Value addition	-		-	-	-	-	-	-
Production of quality animal products	-		-	-	-	-	- 	-
Dairying	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-
Quail farming	-		-	-	-	-	-	-
Piggery	-		-	-	-	-	-	-
Rabbit farming	-		-	-	-	-	-	-
Poultry production	-		-	-	-	-	-	-
Ornamental fisheries	-		-	-	-	-	-	-
Para vets	-		-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-
(C) Extension Personnel	-	-	-	-	-	-	-	-
Productivity enhancement in field crops	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-
Formation and Management of SHGs	1	-	-	-	-	-	-	25
Group Dynamics and farmers organization	1	-	-	-	-	-	-	25
Information networking among farmers	-	-	-	-	-	-	-	-
Capacity building for ICT application	1	- -	-	-	-	-	-	25
Care and maintenance of farm machinery and		-	-	-	-	-	-	-
implements	-							-
WTO and IPR issues	 	-	- -	i -	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-
Household food security			-	-	-	-	 -	_
Women and Child care			-	 -	-	-	-	-
Low cost and nutrient efficient diet designing			-	- -	-	-		-
Production and use of organic inputs	1				-		<u>-</u>	25
Gender mainstreaming through SHGs	<u> </u>				_			-
Any other (Pl. Specify) Global Worming and Climate								
change	1	-	-	-	-	-	-	25
Total	88							2200
G. TOTAL	88		_	-	-			2200
O. TOTAL	00		<u> </u>	<u> </u>	-	<u> </u>	<u> </u>	££UU

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension	Extension No. of Farmers Extension Officials			Total						
Activity	activities	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	-	-	-	-	-	-	-	-	-
Kisan Mela	01	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	10	-	-	-	-	-	-	-	-	-
Exhibition	02	-	-	-	-	-	-	-	-	-
Film Show	30	-	-	-	-	-	-	-	-	-
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	-	-	-	-	-	-	-	-	-	-
Lectures delivered as resource persons	-	-	-	-	-	-	-	-	-	-
Newspaper coverage	06	-	-	-	-	-	-	-	-	-
Radio talks	02	-	-	-	-	-	-	-	-	-
TV talks	02	-	-	-	-	-	-	-	-	-
Popular articles	10	-	-	-	-	-	-		-	-
Extension Literature	20	-	-	-	-	-	-	-	-	-
Advisory Services	-	<u> </u>	-	-	-	-	-	-	-	-
Scientific visit to farmers field	-	-	-	-	-	-	-	-	-	-
Farmers visit to KVK	-	-	-	-	-	-	-	-	-	-
Diagnostic visits	-	-	-	-	-	-	-	-	-	-
Exposure visits	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	02	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	04	-	-	-	-	-	-	-	-	-
Krishi Mohostva	02	-	-	-	-	=	-	-	-	-
Krishi Rath	-	-	-	-	-	-	-	-	-	-
Pre Kharif workshop	1	-	-	-	-	-	-	-	-	-
Pre Rabi workshop	1	-	-	-	-	-	-	-	-	-
PPVFRA workshop	-	-	-	-	-	-	-	-	-	-
Any Other (Specify)	-	-	-		-	-	-		-	-
Total	103	-	-	-	-	-	-	-	-	-

3.5 Target for Production and supply of Technological products SEED MATERIALS

Crop	Variety	Quantity (qtl.)
Groundnut	GJG-31. GJG-9	60.0
Sesame	GT-4/3	5.0
Cumin	GC-4	2.0
	Groundnut Sesame	

PLANTING MATERIALS

SI. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	-	-	-
	-	-	-
	-	-	-
SPICES			
	-	-	-
VEGETABLES	Brinjal	GJB-3	4000
	Tomato	GT-3	4000
	Chilli	Private Hybrid/GI(Wadhavani)	2000
	-	-	-
FOREST SPECIES			
	-	-	-
ORNAMENTAL CROPS			
	-	Total	10000

Bio-products

SI. No.	Product Name	Species	(Quantity
			No	(kg)
BIO PESTICIDES				
1	Savaj	Azotobector		
2	Savaj	Phosphate Culture		
3	Savaj	Beauveria		
4	Savaj	Trichodema		

LIVESTOCK

SI. No.	Туре	Breed	Qua	ntity
			(Nos)	Unit
Cattle	Bull	Gir	2	1
GOAT	Goat and Buck	Zalawadi	2	1
SHEEP	-	-	-	-
POULTRY	-	-	-	-
Pig farming	-	-	-	-
FISHERIES	-	-	-	-

4.6. Literature to be Developed/Published

(A) KVK News Letter

Date of start : To be start from April 2016 (e News Letter)

Number of copies to be published :-

(B) Literature developed/published

S.No.	Торіс	Number
1	Research paper each scientist	1
2	Technical reports	5
3	News letters	4
4	Training manual all discipline	4
5	Popular article	10
6	Extension literature	15
	Total	39

(C) Details of Electronic Media to be Produced

	Type of media (CD / VCD / DVD / Audio-	Title of the programme	Number	
	Cassette)			
1	Film Show	Crop production Technologies	40	

3.7. Success stories/Case studies identified for development as a case.

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
 - i) Social economic
 - ii) Bio-Physical
- f. Good Action Photographs

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

Practicing Farmers

Identification of courses for farmers/farm women:

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

* Rural Youth:

- a) Care and maintenance of farm implements.
- b) Safe use of agro chemicals.
- c) Organic farming.

d) Seeds production in Cotton, cumin and groundnut

Inservice personnel:

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

3.9 Indicate the methodology for identifying OFTs/FLDs

For OFT:

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions

For FLD:

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system
- iv) Others if any

3.10 Field activities

- i. Name of villages identified/adopted with block name (from which year) -
- ii. No. of farm families selected per village: 300+450
- iii. No. of survey/PRA conducted : 3 PRA, 5 Bench Mark Survey
- iv. No. of technologies taken to the adopted villages
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological- horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. Year of establishment

2. List of equipments purchase with amount

SI. No.	Name of the equipment	Quantity	Cost (Rs)
1	Digital PH Meter	02	7600 /-
2	Conductive bridge	01	9450 /-
3	Spectro Photometer	01	39480 /-
4	Flam photometer	01	44887 /-
5	Hot air Oven	01	15215 /-
6	Double Pan balance	02	6616 /-
7	Chemical Balance	01	45066 /-
8	Rotary Shaker	02	36000 /-
9	Hot Plate	02	9450 /-
10	Water Distilation Unit	01	157500 /-

3. Targets of samples for analysis:

	ap.00 .0. aa.y0.0.			
Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	500	500	12	
Water	100	100	20	
Plant	50	50	15	
Total	650	650	47	

4.0 LINKAGES

4.1 Functional linkage with different organizations

SI.No.	Name of organization	Nature of Linkage
1.	State department of Agriculture	The head of all the organizations are members of Scientific Advisory
	- Dy. Director of Agriculture (Extension)	Committee of KVK and have linkage with different activities of KVK
	- Dy. Director of Horticulture	viz., training programmes, farmers day, field days, etc.
	- Dy. Director of Animal husbandry	
	- Dy. Director of Soil Conservation	
	- Dy. Director of Social Forestry	
	-Dy. Director of Fisheries	
2.	NABARD	
3.	Jilla Udyog Kendra	
4.	Milk Co-operative Society	
5.	State bank of India	
6.	Doordarshan Kendra	
7.	All India Radio	
8.	ATMA, Surendranagar	
9.	AKRSP, Sayala	
10.	NHRDF	
	Farmers Training Centre	1000
	ATMA	

4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district

Yes

S. No.	Programme	Nature of linkage
1	Training	Collaborative
2	FFS	Collaborative
3	Joint Field visit	Collaborative

4.3 Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1		
2		

4.4 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1		
2		

5.0 Utilization of hostel facilities

S. No.	Programme	No. of days
1	Training	
2	Exposure visit	
	Total	

6.0 Convergence with departments: ATMA and line departments of state as and when required

7.0 Feedback of the farmers about the technologies demonstrated and assessed :

8.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities :

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Annexure - I

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	e Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	М	F	Т	
Crop Produ										
21/04/16	PF	Improved cultivation practices for Cotton and Sesame	2	20	5	25	3	2	5	25
22/5/16	PF	Climate smart agriculture and climate change	1	20	5	25	3	2	5	25
22/07/16	PF	Castor production technology	1	20	5	25	3	2	5	25
07/10/16	PF	Improved cultivation practices for wheat & Gram	1	20	5	25	3	2	5	25
12/01/17	PF	Improved cultivation practices for Summer groundnut and Sesame	1	20	5	25	3	2	5	25
Horticulture	<u></u>			L		J	.1		•	l
11/04/16	PF	Cultivation of capsicum and Tomato in Poly house	2	20	5	25	3	2	5	25
19/07/16	PF	Micro irrigation in fruit crops and vegetable crop	1	20	5	25	3	2	5	25
Livestock p	rod.			L	·		.4			l
20/06/16	PF/FW	Care and management of livestock during summer	1	20	5	25	3	2	5	25
25/07/16	PF	Importance and use of green fodder in milk production	1	20	5	25	3	2	5	25
01/10/16	PF/FW	Importance of Artificial Insemination	1	20	5	25	3	2	5	25
22/12/16	PF/FW	Foot & Mouth disease and its control	1	20	5	25	3	2	5	25
02/02/17		Balanced feeding of pregnant animal	1	20	5	25	3	2	5	25
Agril. Engg.		.1		<u> </u>		J	.1			
26/05/16	PF	Use of Laser land leveler & Rotavator	1	20	5	25	3	2	5	25
13/07/16	PF	Micro irrigation systems	2	20	5	25	3	2	5	25
18/07/16	PF	Practices for Soil moisture conservation	1	20	5	25	3	2	5	25
26/10/16		Use of improved farm implements	2	20	5	25	3	2	5	25
18/02/17		Introduction and use of Chaff-Cutter	1	20	5	25	3	2	5	25
Home Sc.				&	· · · · · · · · · · · · · · · · · · ·			•		!=====================================
-	PF	Detergent powder, soap making and phenyl making at household level	2	20	5	25	3	2	5	25
-	PF	Solar Cooker: Uses & Advantages	1	20	5	25	3	2	5	25
-	PF	Value addition in fruits and vegetables	2	20	5	25	3	2	5	25
-	PF	Rural craft for income generation	1	20	5	25	3	2	5	25
Plan prot.		.3.		E	L	J	.4		<u> </u>	l
25/05/16	PF	Control of pink boll worm in cotton	1	20	5	25	3	2	5	25
04/07/16	PF	Biological & Chemical Control measures for pest and disease of Cotton & Sesamum	1	20	5	25	3	2	5	25
10/10/16	PF	Control measures for pest and disease in Cumin	1	20	5	25	3	2	5	25

09/01/17		Precaution while handling pesticides.	1	20	5	25	3	2	5	25
Fisheries	_1	···				J	i			
	PF									
	PF									
Soil Health						-1				
02/07/16	PF	Balance fertilization & INM in Cotton	1	20	5	25	3	2	5	25
02/03/17		Preparation of enriched compost	1	20	5	25	3	2	5	25
Seed Produc	iton									
09/05/16	PF	Seeds production technique in Groundnut and cotton crop	1	20	5	25	3	2	5	25
17/06/16	PF	Seeds production technique in Sesamum	1	20	5	25	3	2	5	25
05/11/16	PF	Seeds production technique in Cumin	1	20	5	25	3	2	5	25
11/11/16	PF	Seeds production technique in Wheat	1	20	5	25	3	2	5	25
10/02/17	PF	Seeds production technique in Summer Groundnut	1	20	5	25	3	2	5	25
Agril. Extens	ion						1		·	
30/05/16	PF	ICT in agriculture	1	20	5	25	3	2	5	25
03/06/16	PF	Organic farming practices and certification process for organic farming	2	20	5	25	3	2	5	25
02/07/16	PF	Group dynamics for farmers interest group	1	20	5	25	3	2	5	25
15/10/16	PF	Effect of global warming and climatic changes in Agriculture	1	20	5	25	3	2	5	25
02/12/16	PF	Formation & Management of SHGs	1	20	5	25	3	2	5	25
07/01/17	PF	Entrepreneurial developments for rural youth	2	20	5	25	3	2	5	25

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration	No. of participants			Numb	G.		
			in days	M	F	Т	М	F	T	Total
Crop Produc	tion	****		***************************************	4	-1	.1			
13/05/16	PF	Crop Production technology in kharif pulses & Gum guar	1	20	5	25	3	2	5	25
07/06/16	PF	Integrated Nutrient Management in Cotton	1	20	5	25	3	2	5	25
23/09/16	PF	Improved cultivation practices for Cumin & Fennel	1	20	5	25	3	2	5	25
28/9/16	PF	Micro irrigation system in field crops	1	20	5	25	3	2	5	25
04/10/16	PF	Integrated weed management & water management in major rabi field crops	1	20	5	25	3	2	5	25
19/10/16	PF	Importance & use of bio fertilizers	1	20	5	25	3	2	5	25
09/02/17	PF	Efficient water management in summer field crops	1	20	5	25	3	2	5	25
Horticulture		<u>'</u>	<u> </u>	L	I	-!	.		J	
16/07/16	PF	Cultivation of tomato & capsicum in poly house	1	20	5	25	3	2	5	25
01/08/16	PF	Raising of Seedlings of Vegetable crops	1	20	5	25	3	2	5	25
21/01/17	PF	Protected Cultivation	1	20	5	25	3	2	5	25
02/2/17	PF	Micro irrigation system and fertigation in fruit and vegetable crops	1	20	5	25	3	2	5	25
Live Stock P	roduction.	·								
02/06/16	PF	Hemorrhagic Septicemia and its control	1	20	5	25	3	2	5	25
16/06/16	PF	Importance of colostrums feeding in new born calves	1	20	5	25	3	2	5	25
02/07/16	PF	Awareness about control of Mastitis in animal by audio visual aid	1	20	5	25	3	2	5	25
12/08/16	PF	Infertility of cow & buffalo by infectious disease & its prevention	1	20	5	25	3	2	5	25
15/10/16	PF	Clean milk production by proper milking, watering & washing	1	20	5	25	3	2	5	25
22/12/16	PF	Fodder crop production technology	1	20	5	25	3	2	5	25

12/01/17	PF	Nutritive deficiency in Infertility problem of Cow & Buffalo	1	20	5	25	3	2	5	25
16/02/17	PF	Zoonotic disease & its preventive measure	1	20	5	25	3	2	5	25
Agril. Engg.		.i		L	i			.	J	l
20/06/16	PF	Rain water harvesting technology	1	20	5	25	3	2	5	25
28/06/16	PF	Use of Laser land leveler & Rotavator	1	20	5	25	3	2	5	25
07/01/17	PF	Uses of Improved farm implements	1	20	5	25	3	2	5	25
Home Sc.					L	l	.	l	J	l
-	PF	Preparation of Mango pickles, potato and banana wafers	1	20	5	25	3	2	5	25
-	PF	Awareness about vaccination in children & Nutrition education	1	20	5	25	3	2	5	25
-	PF	Use of sprouted pulses and protein rich diet for low cost nutrition as well as supplementation	1	20	5	25	3	2	5	25
- "	PF	Value addition in Ber & lemon	1	20	5	25	3	2	5	25
Plant Protectio	n	-			L	.!	.!	.1		I
08/06/16	PF	Control of pink boll worm in cotton	1	20	5	25	3	2	5	25
22/06/16	PF	Importance & uses of bio agents & bio pesticides	1	20	5	25	3	2	5	25
11/07/16	PF	Control of pink boll worm in cotton	1	20	5	25	3	2	5	25
24/08/16	PF	Management of pest & diseases of Vegetables	1	20	5	25	3	2	5	25
05/10/16	PF	IPM in Rabi crops	1	20	5	25	3	2	5	25
07/12/16	PF	Control measures for pest and disease in Rabi crops	1	20	5	25	3	2	5	25
20/01/17	PF	Disease management in cumin	1	20	5	25	3	2	5	25
08/02/17	PF	Importance of Natural enemies	1	20	5	25	3	2	5	25
Fisheries		<u> </u>				L	.l	.L	J	
T TOTION TO	PF			T	Ī	<u> </u>		<u> </u>	T	
-	PF			-	<u> </u> 				┼	
Soil health				_L	L				J	İ
06/04/16	PF	Soil Sampling procedure	1	20	5	25	3	2	5	25
02/07/16	PF	Soil reclamation	1	20	5	25	3	2	5	25
10/03/17	PF	Preparation of vermi compost & vermi wash	1	20	5	25	3	2	5	25
Seed Producito	on	Wadii			L		.	.l	J	l
03/06/16	PF	Seeds production technique in Sesamum	1	20	5	25	3	2	5	25
10/06/16	PF	Seeds production technique in Groundnut	1	20	5	25	3	2	5	25
02/11/16	PF	Seeds production technique in Cumin	1	20	5	25	3	2	5	25
11/11/16	PF	Seeds production technique in Wheat	1	20	5	25	3	2	5	25
04/02/17	PF	Seeds production technique in Summer Groundnut & summer sesame	1	20	5	25	3	2	5	25
Agril. Extensio	n	Ciodiana & Summer Sesame		<u></u>	L	.	.	.	J	l
02/06/16	PF	Govt. subsidy schemes for farmers	1	20	5	25	3	2	5	25
29/06/16	PF	Entrepreneurial development of farmers	1	20	5	25	3	2	5	25
01/07/16	PF	Income generation activities for farmers	1	20	5	25	3	2	5	25
10/08/16		through secondary agri. Leadership development	1	20	5	25	3	2	5	25
:	PF	Leadership development	•							
13/09/16	PF PF	WTO & IPR issues	1	20	5	25	3	2	5	25
		1			5 5	25 25	3 3	2	5 5	25 25

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duratio n (days)		No. o ticipa			SC/ST ticipa		G.Total
Litterprise	700			(aayo,	М	F	Т	M	F	Т	
	Organic Farming	Organic farming, its market management and certification process		4							20
		Model dairy farming practices Goat Rearing		4							20

i i i i i i i i i i i i i i i i i i i	Repair & Maintenance of Improved Farm Implements	4			20
Bee keeping	Honey Bee Rearing	4			20
I Ivalue addition	Value addition in vegetables, bel and lemon	4			20

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duratio n in	1	No. of N participants			umbe	G. Total	
			days	М	F	Т	М	F	Т	1
On Campus	<u> </u>	*		4						
1	Ext Workers	Protected cultivation	1							20
2	Ext Workers	Pre-seasonal training on Kharif crops	1		1					20
3	Ext Workers	Pre-seasonal training on Rabi crops	1							20
4	Ext Workers	Preventive measure and first aid treatment of important disease in dairy animals	1							20
5	Ext Workers	Cotton production technology	1		1					20

iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	part	lo. o			umbe SC/S		G. Total
					M	F	Т	M	F	Т	
a) Sponso	red training pro	gdramme									
	ATMA			20							20
	NGOs			5	†			 			20
		-	Total	25	 	<u> </u>	_	<u> </u>			40
b) Sponso	red research pro	gramme	i		-4	<u> </u>		d		3	_
			Total								
c) Any spe	ecial programme	S									
			Total		<u> </u>	Ī					