

## DETAILS OF ACTION PLAN OF KVKs DURING 2017-18

(1<sup>st</sup> April 2017 to 31<sup>st</sup> March 2018)

### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Website
	Office	FAX		
Krishi Vigyan Kendra, Junagadh Agricultural University, Adityana Road, Opp. Saint Joseph School, Khapat-360579 Dist. Porbandar, Gujarat	0286-2912562	-	kvk_khpat@yahoo.co.in kvkkhapat@jau.in	-

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

Address	Telephone		E mail	Website
	Office	FAX		
Junagadh Agricultural University, Motibaug, Junagadh-362001, Gujarat	(1)0285- 2671784 (2)0285-2672080-90	(1) 0285-2672004 (2) 0285-2672653	-	www.jau.in

1.2.b. Status of KVK website : Yes/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 : NA

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R. K. Odedra	0286-2912562	9825280843	rkodedra@jau.in

#### 1.4. Year of sanction: February 2005

#### 1.5. Staff Position (as on 19 Jan. 2017)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach
1	Senior Scientist & Head	Dr. R. K. Odedra	IC Senior Scientist & Head and SMS	Horticulture	15600-39100	6000	21390	1-06-2009	Permanent	OBC	9825280843	rkodedra@jau.in	-
2	Scientist	Dr. R. B. Vadher	Scientist	Entomology	15600-39100	6000	23950	19-08-2006	Permanent	OBC	9824237767	rbvadher@jau.in	
3	Scientist	Mrs. D. S. Thakar	Scientist	Home Sci.	15600-39100	7000	24140	22-08-2006	Permanent	Others	9909927399	diptithakar@jau.in	
4	Scientist	S. R. Thaker	Scientist	Fisheries	15600-39100	6000	23950	31-08-2006	Permanent	Others	9924274050	srthaker@jau.in	
5	Scientist	H. A. Patel	Scientist	Animal Hus.	15600-39100	6000	16250	06-04-2015	Permanent	Others	9998687479	hapatel@jau.in	
6	Scientist	V.M.Savaliya	Scientist	Horticulture	15600-39100	6000	15600	01-08-17	Permanent	Others	9824886188	vmsavaliya@jau.in	

7	Scientist	Vacant	Scientist	Agronomy	-	-	-	-	-	-	-	-	-
8	Programme Assistant	Vacant	Programme Assistant		-	-	-	-	-	-	-	-	-
9	Farm Manager	Vacant	Farm Manager		-	-	-	-	-	-	-	-	-
10	Computer Programmer	J. J. Naliyapara	Computer Programmer		9300-34800	4400	16640	12-06-2008	Permanent	OBC	9998698063	-	-
11	Accountant / superintendent	B. S. Bokhariya	Accountant / Superintendent		9300-34800	4400	15540	12-06-2008	Permanent	OBC	9978055059	-	-
12	Stenographer	P. H. Parekh	Stenographer		5200-20200	-	11500 (Fix Pay)	20-11-2013	Permanent	Others	9913393900	-	-
13	Driver	Vacant	Driver		-	-	-	-	-	-	-	-	-
14	Driver	Vacant	Driver		-	-	-	-	-	-	-	-	-
15	Supporting staff	Vacant	Supporting staff		-	-	-	-	-	-	-	-	-
16	Supporting staff	Vacant	Supporting staff		-	-	-	-	-	-	-	-	-

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

S. No.	Item	Area (ha)
1	Under Buildings	2.451
2.	Under Demonstration Units	0.337
3.	Under Crops	14.66
4.	Horticulture	2.798
5.	Pond	0.344
6.	Others if any	-

**1.7. Infrastructural Development:**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	2007	588	30,76,850	-	-	Completed
2.	Farmers Hostel	ICAR	2008	288	21,02,300	-	-	Completed
3.	Staff Quarters (6)	ICAR	2007	446	28,38,616	-	-	Completed
4.	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing	ICAR	2009	500 RM	-	-	-	Completed
6	Rain Water harvesting system	ICAR	2008	-	-	-	-	Completed
7	Threshing floor	ICAR	2009	900	-	-	-	Completed
8	Farm godown	ICAR	2009	129	-	-	-	Completed
	Other	ICAR			-	-	-	
9	Open Well	ICAR	2015	6 m dia.	5,00,000	-	-	Completed
10	Implement Shed	RKVY	2011	76.4	3,00,000	-	-	Completed
11	Training Hall	RKVY	2010	191	13,95,200	-	-	Completed

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Farmtrac)	2005	380000	-	Good
Bolero Jeep	2005	496000	2,41,795 Km	Good after major repairing
Motor cycle	2010	47000	12310 km	Good

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Zerox machine	2008-09	124000	Running
R.O. plant	2008-09	24450	Running
Hcl laptop computer	2008-09	47,500	Running
Food processor	2008-09	5,495	Running
Multipurpose bullock drawn pipe frame implement head peace	2008-09	27,500	Running
Rotavator tractor operated	2008-09	96,000	Running
Planter tractor operated	2008-09	44,000	Running
Tractor drawn harrow cum cultivator cum intercultivator frame 86"	2008-09	37,500	Running
Samsung double door refrigerator	2008-09	17,650	Running
Electrolux grill microwave / oven	2008-09	9,580	Running
Panasonic LCD projector	2008-09	103,912	Running
Multi purpose groundnut cum wheat thresher	2008-09	114,000	Running
Cotton shredder	2008-09	242,000	Running
Solar street light	2008-09	28,000	Running
Solar lanterns	2008-09	4,800	Running
Solar cooker	2008-09	3,300	Running
Mobile seed grading unit	2008-09	1,685,000	Running
Decorticators	2008-09	95,850	Running
Winnowing fan	2008-09	8,500	Running
Chaff cutter	2008-09	30,188	Running
High tech sprayer pump	2008-09	1,850	Running
Battery operated sprayer pump	2008-09	4,940	Running

**1.8. A). Details of SAC meetings to be conducted in the year**

Sl.No.	Date
1. Scientific Advisory Committee	07/11/2016

**2. DETAILS OF DISTRICT****2.1 Major farming systems/enterprises (based on the analysis made by the KVK)**

S. No	Farming system/enterprise
1	Rainfed farming system
2	Irrigated farming (in some areas)
3	Animal Husbandry

## 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

### a) Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1	South Saurashtra	<b>Porbandar</b> district is located between 21° to 22° N latitude and 69° to 70° E longitude.
2		<b>Soil:</b> medium black & silty loam with calcareous in nature
3		<b>pH:</b> of the soil is ranging from 7.50 to 8.58
4		<b>Water:</b> Ec value up to 8.1 mmho / cm
		<b>Average Rainfall:</b> 903 mm
		<b>Temperature Range:</b> 35.3° C to 16.9 °C

### b) Topography

S. No.	Agro ecological situation	Characteristics
1	Shallow black soil with low rainfall	Soil: Sandy clay loam to clay Rainfall: <750 mm
2	Hilly soil with low rainfall	Soil: Sandy clay loam to sandy clay Rainfall: <750 mm
3	Medium black soil with low rainfall	Soil: Sandy clay to clay Rainfall: <750 mm
4	Deep black soil with low rainfall (Ghed)	Soil: clay Rainfall: <750 mm
5	Mix red & black soil with medium rainfall	Soil: Sandy clay loam to clay loam Rainfall: 750-1000 mm

## 2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Sandy clay loam to clay	Rainfall: <750 mm	34241
2	Sandy clay loam to sandy clay	Rainfall: <750 mm	46080
3	Sandy clay to clay	Rainfall: <750 mm	86627
4	Clay	Rainfall: <750 mm	56880
	Sandy clay loam to clay loam	Rainfall: 750-1000 mm	5707

## 2.4. Area, Production and Productivity of major crops cultivated in the district (2014-15)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Groundnut	69900	41971	617
2	Cotton	17900	17049	2653
3	Wheat	6840	32678	3167
4	Cumin	9190	7520	615
5	Coriander	16455	18687	1133
6	Gram	14625	22475	1417
7	Green gram	355	735	915
8	Black gram	120	90	1225
9	Castor (Rabi)	1205	3675	3050
10	Forage crops	29555	1750005	113083

Source: District Agriculture Officer, Porbandar, Gujarat

## 2.5. Weather data (2015-16)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
Jan-16	-	28.59	6.49	60.31	41.81
Feb-16	-	30.71	8.04	55.12	44.11
Mar-16	-	32.54	11.09	61.33	45.26
Apr-16	-	32.32	13.78	70.06	60.03
May-16	-	33.64	16.92	72.32	52.26
Jun-16	77.0	32.64	17.85	79.13	55.27
July-16	201	30.35	16.01	83.70	63.45
Aug-16	212.6	29.40	15.44	87.27	62.39
Sep-16	27.0	30.51	16.17	81.92	60.50
Oct-16	50.0	30.91	18.93	95.23	50.87
Nov-16	-	29.90	19.19	55.07	34.03
Dec-16	-	28.05	18.40	58.42	33.39
<b>Total</b>	<b>567.6</b>				

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<b>Cow</b>	83108	-	-
<b>Buffalo</b>	105346	-	-
<b>Sheep</b>	22649	-	-
<b>Goats</b>	22325	-	-
<b>Pigs</b>	-	-	-
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	-	-	-
<b>Rabbits</b>	-	-	-
<b>Poultry</b>			
Hens	2069	-	-
<i>Desi</i>	-	-	-
Category		Production (Q.)	Productivity
Fish (Reservoir)	10748 (Fisherman)	91513 mt (Capture)	-

\*Statistical 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
Porbandar	Cluster I	Khambhodar Majivana Fatana Sodhana Shingda	Groundnut Wheat Cumin Coriander Sorghum Gram Fenugreek	<ul style="list-style-type: none"> <li>White grub and stem rot in groundnut</li> <li>Wilt in cumin &amp; coriander</li> <li>Wilt in gram</li> </ul>	<ul style="list-style-type: none"> <li>IPM</li> <li>Improved package of practices</li> <li>IDM</li> <li>Problematic soil</li> <li>Poor quality water</li> </ul>
Ranavav	Cluster II	Khijdal Rana Vadvala Bhod Rana Khirasara Aniyari	Groundnut Cotton Sorghum Wheat Cumin Pearl millet	<ul style="list-style-type: none"> <li>Pink ballworm in cotton</li> <li>White grub and stemrot in groundnut</li> <li>Wilt in cumin &amp; coriander</li> </ul>	<ul style="list-style-type: none"> <li>IPM</li> <li>Improved package of practices</li> <li>IDM</li> <li>INM in Horticulture</li> </ul>
Kutiyana	Cluster III	Pasvari Segras Bhogsar Mal Baloch	Groundnut Cotton Castor Sorghum Wheat Cumin Gram	<ul style="list-style-type: none"> <li>Pink ballworm in cotton</li> <li>White grub and stemrot in groundnut</li> <li>Wilt in cumin &amp; coriander</li> </ul>	<ul style="list-style-type: none"> <li>IPM</li> <li>Improved package of practices</li> <li>IDM</li> <li>Problematic soil</li> </ul>

## 2.8 Priority thrust areas

Sr. No	Discipline	Thrust area
1	Crop production	<ul style="list-style-type: none"> <li>Improved package of practices</li> <li>Improved varieties</li> <li>Organic farming</li> <li>INM</li> </ul>
2	Horticulture	<ul style="list-style-type: none"> <li>Improved package of practices for different spices</li> <li>PHT in fruits and vegetable</li> <li>INM in orchards</li> </ul>
3	Agriculture Engineering	<ul style="list-style-type: none"> <li>Efficient use of water &amp; Ground water recharge</li> <li>PHT and value addition</li> <li>Renewable Energy</li> </ul>
4	Plant Protection	<ul style="list-style-type: none"> <li>Integrated Pest and Diseases management</li> <li>Storage pest Management</li> <li>Biological control of Pest and Diseases</li> </ul>
5	Home science	<ul style="list-style-type: none"> <li>Women and child care</li> <li>Skill oriented activities <ul style="list-style-type: none"> <li>Sewing and embroidery</li> <li>Handicrafts</li> </ul> </li> <li>Value addition <ul style="list-style-type: none"> <li>Fruits and vegetable preservation</li> <li>Preparation of bakery products</li> </ul> </li> </ul>
6	Fisheries	<ul style="list-style-type: none"> <li>Seaweed cultivation</li> <li>Aquaculture</li> <li>Mariculture</li> </ul>
7	Animal Science	<ul style="list-style-type: none"> <li>Disease and feed management</li> <li>Production of quality animal Products</li> </ul>

### 3. TECHNICAL PROGRAMME

#### 3. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
5	43	77.5	280

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
37	975	27	2465

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
112	-	-	500

#### 3. B. Abstract of interventions to be undertaken

S. 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	IPM	Groundnut	Low yield due to white grub attack	Management of white grub in groundnut	-	-	-	Training, Visits, Telephonic help	
2	Mariculture practice	Lobster/ fisheries	Low income due to poor quality	Fattening of baby Lobster using cage for better production.	-	-	-	Training, Visits, Telephonic help	Cage
3	Nutrition	Jafrabadi Buffaloes / Animal Husbandry	Long inter calving period in Jafrabadi buffaloes	Effect of feeding of mineral mixture + Fertivet tablet in Jafrabadi Buffalos	-	-	-	Training, Visits, Telephonic help	Mineral mixture, Fertivet Tablets
4	Disease Management	Farm Animal/ Animal Husbandry	Low milk yield due to parasitic infection	Effect of parasitic drug on farm animal	-	-	-	Training, Visits, Telephonic help	Mineral mixture, Fenbendazole Tablets
5	Drudgery	Farm women/ Home science	Physiological and muscular stresses in farmwoman during milking.	Evaluation and minimization of physiological & muscular stress of farmwomen while milking	-	-	-	Training, Visits, Telephonic help	Revolving milking stool

### 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	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	1	-	-	-	-	-	-	-	1
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	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>		<b>2</b>								

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Kitchen garden	Tuber Crops	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	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	-	-	-	-	-	-	-	-	-	-

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Worm culture	Fisheries	Home Science	TOTAL
Evaluation of Breeds	-	-	-	-	-	-	-	-	-
Nutrition Management	2	-	-	-	-	-	-	2	4
Disease of Management	-	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	1	-	1
Feed and Fodder	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>2</b>	-	-	-	-	-	<b>1</b>	<b>2</b>	<b>5</b>

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

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	-	-	-	-	-	-	-	-
<b>TOTAL</b>	-	-	-	-	-	-	-	-

#### B. Details of On Farm Trial

##### OFT-1

**Title: Fattening of baby Lobster.**

**Problem definition:** Low income because of harvesting under size lobster.

**Technology Assessed:** Fattening of baby Lobster using floating cage.

**Treatment:**

**Farmer practices:** (Control) Harvesting and marketing under size lobster

**Recommended practices:** Fattening of baby Lobster using Floating cage.

**No. of Replication:** 5

**Observations:**

- Yield (kg/cage)
- Survival %
- Income

**Source of Technology:** Sea cage culture of Lobsters & Mud Crabs – as alternative employment for coastal community By Dr. R. Venkatesan, National Institute of Ocean Technology (NIOT), Deptt. Of Ocean Development, Chennai.

##### OFT: 2

**Title: Effect of feeding of mineral mixture and Fervivet tablet in Jafrabadi Buffalos**

**Problem definition:** Long inter calving period in Jafrabadi buffaloes

**Technology:** Reducing intercalving period in Jafrabadi buffaloes

**Treatments:**

1. Farmers practice – Green fodder, dry fodder etc.
2. Mineral mixture 50 gm/day + Fervivet tablet 1 tablet /day (5 Tables)

**No. of Replication:** 10 animals

**Observations:**

1. Inter calving period in month
2. Average heat
3. Milk Yield (Lit./Day)

**Source of Technology:** Animal Nutrition and Feeding Practice, ICAR, New-Delhi

##### OFT-3

**Title: Management of white grub in groundnut**

**Problem Definition:** Low yield and heavy damage due to white grub

**Technology Assessed:** Integrated Pest Management

**Treatments:**

1. **Farmer's practice** - Chloropyriphos @ 4 lit./ha at the time of attack
2. **Recommended practice** – Seed treatment with chloropyriphos 20 E.C @ 25 ml/kg, - application of carbofuran 3 G @ 33 kg/ha at the time of sowing.



**Observations:**

1. Yield (kg/ha)
2. White grub population
3. Economics

**Source of Technology:** JAU, Junagadh

**OFT: 4 (New)**

**Title:** Evaluation and minimization of physiological & muscular stress of farmwomen while milking

**Problem definition:** Physiological and muscular stresses in farmwoman during milking.

**Causes:**

- Lack of awareness about drudgery reducing low cost technologies for minimize the stresses.
- Health problem in farmwomen
- Lack of knowledge & availability about use of revolving milking stool

**Technology Assessed:**

Use of drudgery reduction tool for milking (revolving milking stool)

**Treatments:**

**T1:** No use of stool while milking

**T2:** Revolving milking stool (height of 12-13 cm with diameter 34 cm)

**Observations:**

Level of drudgery, Physical stress, Work output and Field acceptability

**No. of Replications:** 3

**No. of Farmwomen:** 5

**Source of Technology:**

GBPUAT, Pantnagar (UK)

**OFT: 5 (New)**

**Title:** Effect of parasitic drug on farm animal

**Problem definition:** Parasitic infection and low milk yield

**Treatments:**

1. Farmers practice - Control
2. Mineral mixture 50 gm/day + Fenbendazole tablet (5-7.5 mg/kg body weight)

**No. of Replication:** 10 animals

**Observations:**

1. Milk yield
2. Status of infection
3. Income

**Source of Technology:** Animal Health Management By N. S. R. Sastry

### 3.2 Frontline Demonstrations

#### A. Details of FLDs to be organized -

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demon.	Parameters identified
1	Groundnut	GJG-22	Varietal evaluation	Improved variety & fertilizer	Seed & potash fertilizer	Kharif 2017	8	20	Low productivity of existing variety
2	Green gram	GM-5	Varietal evaluation	Imp. Variety & Bio fertilizer	seed	Summer 2018	4	10	Low productivity of existing variety
3	Wheat	Farmer's variety	INM	Zinc sulphate @ 20 kg/ha	Zinc sulphate @ 20 kg/ha	Rabi 2017-18	8	20	Deficiency of micronutrient
4	Cumin	GC-4	IDM	IDM ( <i>Trichoderma</i> , Mencozeb, Hexaconazole)	<i>Trichoderma</i> , Mencozeb, Hexaconazole	Rabi 2017-18	8	20	Higher dose chemical pesticides
5	Cotton	Bt. Variety	IPM	IPM	Beuveria, Phromone traps	Kharif 2017	10	25	Heavy infestation of pink ball worm
6	Vegetables	Available at JAU, Junagadh	Varietal evaluation	Improved variety of 5 crops	Seed	Kharif 2017	2.5	25	-
7	Vegetables	Available at JAU, Junagadh	Varietal evaluation	Improved variety of 5 crops	Seed	Rabi 2017-18	2.5	25	-
8	Vegetables	Available at JAU, Junagadh	Varietal evaluation	Improved variety of 5 crops	Seed	Summer 2017-18	2.5	25	-
9	Chick pea	-	Bio-agent	HNPV & <i>Beuveria</i>	Bio-agent HNPV & <i>Beuveria</i>	Rabi 17-18	4	10	-
10	Groundnut	-	INM	<i>Savaj Rhiizobium</i> & Phosphate culture	<i>Savaj Rhiizobium</i> & Phosphate culture	Kharif 2017	10	25	Higher dose of chemical fertilizer
11	Wheat	-	INM	<i>Savaj Azotobacter</i> & Phosphate culture	<i>Savaj Rhiizobium</i> & Phosphate culture	Rabi 2017-18	10	25	Higher dose of chemical fertilizer
12	Sorghum (Gundhri)	-	INM	<i>Savaj Azotobacter</i> & Phosphate culture	<i>Savaj Rhiizobium</i> & Phosphate culture	Semi Rabi 2017-18	4	10	Low productivity due to imbalance fertilizer appli.
13	Fisheries	<i>Kappaphycus</i>	Seaweed cultivation	Sea weed cultivation using net/bamboo	Vegetative Plant	-	-	10	New Technology
14		-	Nutrition	LSF & biofertilizers in groundnut		Kharif 2017	4	10	-
15	Animal Husbandry	-	Nutrition	Nutrition management	Supplement of by Pass Fat in Gir cow	-	-	20	Low Milk productivity
<b>Total</b>							<b>77.5</b>	<b>280</b>	

#### Sponsored Demonstration

Crop	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	8	-	250
2	Farmers Training	5	-	150
3	Media coverage	-	-	-
4	Training for extension functionaries	-	-	-

#### 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
Seed grader	-	Rabi 2017-18	50	-	-	Grading cost





















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	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>23</b>	<b>414</b>	<b>156</b>	<b>570</b>	<b>31</b>	<b>34</b>	<b>65</b>	<b>635</b>
<b>(C) Extension Personnel</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Productivity enhancement in field crops	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>G. TOTAL</b>	<b>37</b>	<b>714</b>	<b>162</b>	<b>876</b>	<b>65</b>	<b>34</b>	<b>99</b>	<b>975</b>

Details of training programmes attached in **Annexure -I**

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

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	25	350	150	500	5	-	5	355	150	505
Kisan Mela	1	300	100	400	10	-	10	310	100	410
Kisan Ghosthi	25	275	50	325	-	-	-	275	50	325
Exhibition	5	250	125	375	-	-	-	250	125	375
Film Show	20	200	100	300	-	-	-	200	100	300
Farmers Seminar	5	150	100	250	-	-	-	150	100	250
Workshop	2	50	50	100	-	-	-	50	50	100
Group meetings	6	100	100	200	-	-	-	100	100	200
Lectures delivered as resource persons	-	-	-	-	-	-	-	-	-	-
Newspaper coverage	10	-	-	-	-	-	-	-	-	-
Radio talks	-	-	-	-	-	-	-	-	-	-
TV talks	-	-	-	-	-	-	-	-	-	-
Popular articles	10	-	-	-	-	-	-	-	-	-
Extension Literature	15	-	-	-	-	-	-	-	-	-
<b>Advisory Services</b>										
Scientific visit to farmers field	150	-	-	-	-	-	-	-	-	-
Farmers visit to KVK	1000	-	-	-	-	-	-	-	-	-
Diagnostic visits	25	-	-	-	-	-	-	-	-	-
Exposure visits	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	5	-	-	-	-	-	-	-	-	-
Soil health Camp	4	-	-	-	-	-	-	-	-	-
Animal Health Camp	2	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	5	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	1	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	5	-	-	-	-	-	-	-	-	-
Krishi Mohostva	1	-	-	-	-	-	-	-	-	-
Krishi Rath	1	-	-	-	-	-	-	-	-	-
Pre Kharif workshop	1	-	-	-	-	-	-	-	-	-
Pre Rabi workshop	1	-	-	-	-	-	-	-	-	-
PPVFRA workshop	1	-	-	-	-	-	-	-	-	-
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1326</b>	<b>1675</b>	<b>775</b>	<b>2450</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>1690</b>	<b>775</b>	<b>2465</b>

### 3.5 Target for Production and supply of Technological products

#### SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
<b>CEREALS</b>	-	-	-
	-	-	-
	-	-	-
<b>OILSEEDS</b>	Groundnut	GG-20 Breeder	80
	Groundnut	GJG-17 Breeder	16
	Groundnut	GG-20 Truthful	16
<b>PULSES</b>	-	-	-
	-	-	-
<b>VEGETABLES</b>	-	-	-
<b>OTHERS (Specify)</b>	-	-	-
	-	-	-

**PLANTING MATERIALS**

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>	-	-	-
	-	-	-
<b>SPICES</b>	-	-	-
	-	-	-
<b>VEGETABLES</b>	-	-	-
	-	-	-
<b>FOREST SPECIES</b>	-	-	-
	-	-	-
<b>ORNAMENTAL CROPS</b>	-	-	-
		<b>Total</b>	-

**Bio-products**

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>BIO PESTICIDES</b>	-	-	-	-
1	-	-	-	-
2	-	-	-	-

**LIVESTOCK**

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle	-	-	-	-
	-	-	-	-
GOAT	-	-	-	-
SHEEP	-	-	-	-
POULTRY	-	-	-	-
Pig farming	-	-	-	-
FISHERIES	-	-	-	-
	-	-	-	-

**3.6. Literature to be Developed/Published****(A) KVK News Letter**

Date of start : NA

Number of copies to be published : NA

**(B) Literature developed/published**

S.No.	Topic	Number
1	Research paper each scientist	3
2	Technical reports	6
3	News letters	-
4	Training manual all discipline	-
5	Popular article	5
6	Extension literature	15
	<b>Total</b>	<b>29</b>

**(C) Details of Electronic Media to be Produced**

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

**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**

- a) PRA
- b) District Thrust and Thematic Areas
- c) Field level observations
- d) Epidemic of pest/Diseases

**Rural Youth**

- a) PRA
- b) District Thrust and Thematic Areas
- c) Field level observations
- d) Farmer group discussions

**In-service personnel**

- a) Epidemic of pest/Diseases
- b) New innovation

**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
- v) Others if any - **Epidemic of pest/Diseases**

**For FLD :**

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system
- iv) Others if any: Nutritional deficiencies, epidemic of pest & diseases

### 3.10 Field activities

Name of the village	Name of the block	Taluka	Year
Khambhodar Majivana Fatana Sodhana Shingda	Cluster I	Porbandar	2015
Khijdal Rana Vadvala Bhod Rana Khirasara Aniyari	Cluster II	Ranavav	2015
Pasvari Segras Bhogsar Mal Baloch	Cluster III	Kutiya	2015

- ii. No. of farm families selected per village : -
- iii. No. of survey/PRA conducted : 15
- iv. No. of technologies taken to the adopted villages: OFT, FLD, Training etc. -112
- 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 : 2010

#### 2. List of equipments purchase with amount

Sl. No.	Name of the equipment	Quantity	Cost (Rs)
1	pH Meter	2	7600
2	Ec Meter	1	9450
3	Flame Photo Meter	1	44887
4	Spectrophotometer	1	39480
5	Refrigerator	1	19610
6	Distillation Unit	1	157500
7	Chemical Balance	1	45066
8	Rotary Shaker	2	36000
9	Hot Plate	2	9450
10	Physical Balance	2	6616
11	Zeldal Digestion and Distillation	1	47250
12	Hot air oven	1	15215

#### 3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	500	500	-	15000/-
Water	500	500	-	2500/-
Plant	-	-	-	-
<b>Total</b>	<b>1000</b>	<b>1000</b>		<b>17500/-</b>

### 4.0 LINKAGES

#### 4.1 Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	ATMA	Propagation of modern agricultural technology as a resource person and through various extension activities.
2.	District Agricultural Officer	Propagation of modern agricultural technology as a resource person and through various extension activities.
3.	Jilla Panchyat	Propagation of modern agricultural technology as a resource person and through various extension activities.
4.	State Fisheries Department	Propagation of modern agricultural technology as a resource person and through various extension activities.
5.	DRDA	Propagation of modern agricultural technology as a resource person and through various extension activities.
6.	DWDU	Propagation of modern agricultural technology as a resource person and through various extension activities.



#### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

S. No.	Programme	Nature of linkage
1	Training	KVK Scientist as a resource person
2	Farmer Field school	KVK Scientist as a resource person
3	Kishan Gosthi	KVK Scientist as a resource person
4	Farmer Scientist Interaction	KVK Scientist as a resource person

#### 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	On Campus Training	48
2	Exposer Visitors	8
3	Technology Week Celebration	6
4	Vocational Training	20
	Extension Functionaries Training	4
	<b>Total</b>	<b>86</b>

#### 6.0 Convergence with departments : Nil

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

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption
Porbandar	INM in groundnut <i>Trichoderma</i> in groundnut INM in cotton Pink boll worm in cotton Improved variety of cumin (GC-4)	Trainings FLDs, field days and Advisory services	Yield, quality and net return increased as the cost of cultivation reduced	Improved variety of chick pea (GG-3) INM in groundnut and cotton Use of Biofertilizers MISs

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

Name of KVK	Subject	Feedback basic of OFT on Technology Tested
Porbandar	Crop Production	<ul style="list-style-type: none"> <li>Soil configuration and MISs for cumin may be tested.</li> </ul>
	Horticulture	<ul style="list-style-type: none"> <li>Techno economical feasibility of poly house for costal belt of South Saurashtra Agro climatic Zone should be tested.</li> </ul>
	Plant Protection	<ul style="list-style-type: none"> <li>Reasons for resurgence of white grub and control measures based on may be suggested.</li> <li>Package for fruit fly management may be modified</li> <li>Efficacy of newer technical of pesticides, fungicides and herbicides should be tested and recommended if possible.</li> <li>Effective Management Package of Pink Ball Worm in Bt cotton should be developed.</li> </ul>
	Home Science	<ul style="list-style-type: none"> <li>Effect of sprouted pulses in regular diet may be studied in detail.</li> <li>Quality of meal prepared in solar cooker may be studied in detail.</li> </ul>
	Fisheries	<ul style="list-style-type: none"> <li>Land availability is the main constraint in the promotion of brackish water aquaculture &amp; demarcation of potential land needs to be done for farmers.</li> <li>Technology / practices developed by institute may be made available to farmers at no cost.</li> </ul>
	Animal Husbandry	<ul style="list-style-type: none"> <li>Study of inbreeding in milch animals</li> </ul>





