

9	Farm Manager	V. M. Savaliya	Farm Manager	Horticulture	9300-34800	-	15500 (Fix Pay)	31-03-2015	Permanent	Others	9824886188	-
10	Computer Programmer	J. J. Naiyapara	Computer Programmer	-	9300-34800	4400	11750	12-06-2008	Permanent	OBC	9998698063	-
11	Accountant / superintendent	B. S. Bokhariya	Accountant / Superintendent	-	9300-34800	4400	11750	12-06-2008	Permanent	OBC	9978055059	-
12	Stenographer	Vacant	Stenographer	-	-	-	-	-	-	-	-	-
13	Driver	Vacant	Driver	-	-	-	-	-	-	-	-	-
14	Driver	Vacant	Driver	-	-	-	-	-	-	-	-	-
15	Supporting staff	B. M. Vyas	Supporting staff	-	4440-7440	1650	9240	01-06-2005	Permanent	Others	9825088114	-
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
Zerex 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 piece	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	30/01/2016

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	<p>Porbandar district is located between 21° to 22° N latitude and 69° to 70° E longitude.</p> <p>Soil: medium black & silty loam with calcareous in nature</p> <p>pH: of the soil is ranging from 7.50 to 8.58</p> <p>Water: Ec value up to 8.1 mmho / cm</p> <p>Average Rainfall: 903 mm</p> <p>Temperature Range: 35.3° C to 16.9 °C</p>

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
5	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	85390	109299	1280
2	Cotton	8905	4452	500
3	Wheat	34505	97496	2825
4	Cumin	26330	17309	650
5	Gram	21570	27609	1280
6	Green gram	11695	7894	675
7	Pearl millet	425	595	1400
8	Castor	3325	6982	2100
9	Forage crops	22310	546495	24500

Source: District agriculture department.

2.5. Weather data (2015-16)

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
Jan-15	-	27.62	7.72	69.70	41.81
Feb-15	-	29.68	10.78	67.00	44.11
Mar-15	-	31.08	12.53	65.00	45.26
Apr-15	-	32.32	15.98	76.67	60.03
May-15	-	33.45	19.34	79.65	52.26
Jun-15	118.6	31.28	22.05	82.27	75.27
July-15	76.2	31.13	22.16	81.06	76.45

Aug-15	16.0	30.70	22.18	90.42	76.39
Sep-15	76.0	31.19	22.66	84.63	71.50
Oct-15	-	34.91	22.93	95.23	50.87
Nov-15	-	32.90	21.19	55.07	34.03
Dec-15	-	31.05	20.40	58.42	33.39
Total	286.8				

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

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

*Statcal 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"> White grub and stemrot in groundnut Wilt in cumin & coriander Wilt in gram 	<ul style="list-style-type: none"> IPM Improved package of practices IDM Problematic soil Poor quality water
Ranavav	Cluster II	Khijdal Rana Vadvala Bhod Rana Khirasara Aniyari	Groundnut Cotton Sorghum Wheat Cumin Pearl millet	<ul style="list-style-type: none"> Pink ballworm in cotton White grub and stemrot in groundnut Wilt in cumin & coriander 	<ul style="list-style-type: none"> IPM Improved package of practices IDM INM in Horticulture
Kutiyana	Cluster III	Pasvari Segras Bhogsar Mal Baloch	Groundnut Cotton Castor Sorghum Wheat Cumin Gram	<ul style="list-style-type: none"> Pink ballworm in cotton White grub and stemrot in groundnut Wilt in cumin & coriander 	<ul style="list-style-type: none"> IPM Improved package of practices IDM Problematic soil

2.8 Priority thrust areas

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

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
10	30	98	355

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
88	2720	16	7850

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
112	5000	-	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	White grub	Management of white grub in groundnut	-	Management of white grub in groundnut	-	Diagnostic visit Pamphlet distribution	Supply of insecticide
2	IPM	Cotton	Pink ball worm	-	-	Integrated management of pink ball worm in cotton	-	Diagnostic visit Telephonic help	-

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	1	-	-	-	-	-	-	1
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	1	1
TOTAL	1	-	-	-	-	-	1	2

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	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-

B. Details of On Farm Trial**A. On Going****OFT: 1**

Title: Management of white grub in groundnut

Problem definition: Low yield and heavy damage due to white grub

Technology Assessed: Integrated Pest Management

Technology Option	Treatments	No. of trails
Farmers practice	Chloropyriphos @ 4 lit./ha at the time of attack	3
Recommended practice	1. Seed treatment with chloropyriphos @ 25 ml/kg 2. Spraying the trees on bund with carbaryl @ 40 g/15 lit water	
Intervention	1. Application of carbofuran 3 G @ 40 kg/ha at the time of sowing 2. Spraying the trees on bund with carbaryl @ 40 g/10 lit water	

Observations:

- Yield (kg/ha)
- White grub population
- Economics

OFT: 2

Title: Effect of seed rate in maintenance of germination in cumin.

Problem definition: Poor germination in cumin.

Technology Assessed: Maintenance of proper germination in cumin.

Technology Assessed	Treatments	No. of trails
T ₁	12-15 kg/ha	3
T ₂	12-15 kg seed/ha (6-8 hrs warm water soaking followed by shed drying and seed treatment with Mencozeb @ 3 gm/kg seed)	

Observations:

- Yield (kg/ha)
- Germination %
- Economics

OFT: 3

Title: Performance of drip irrigation with sowing method in cumin.

Problem definition: Low yield due to sowing method and over irrigation in cumin

Technology Assessed: Drip Irrigation System.

Treatment No.	Technology to be assessed	No. of trials
1	Broad casting method without drip irrigation	3
2	Broad casting method with drip irrigation	
3	Row sowing without drip irrigation	
4	Row sowing with drip irrigation	

Observations:

- Yield (kg/ha)
- Economics

OFT: 4

Title: Effect of sulphur on yield of summer sesame

Problem definition: Low yield and oil content in sesame

Technology Assessed: Sulfur nutrition

Technology Option	Treatments	No. of trials
Farmers practice	No sulphur application	3
Recommended practice	15-20 kg S/ha as gypsum (100 kg)	
Intervention	Application of Cosavet 80% G @ 20 kg S/ha	

Observations:

- Yield (kg/ha)
- Economics

OFT: 5

Title: Effect of culture density on fish (major carp) production in using cage in pond.

Problem definition: Low yield due to unawareness of Technologies.

Technology Assessed: Optimum culture density using cage

Treatment No.	Technology to be assessed	No. of trials
1	1000 No. seed /m ³	1
2	2000 No. seed /m ³	
3	4000 No. seed /m ³	

Observations:

- Yield (kg/ha)
- Survival %
- Fish growth

OFT: 6

Title: Fattening of baby Lobster using cage for better production.

Problem definition: Low income due to unawareness of Technologies.

Technology Assessed: Optimum culture density using cage

Treatment No.	Technology to be assessed	No. of trials
1	20 No. Lobster /m ³	1
2	40 No. Lobster /m ³	
3	60 No. Lobster /m ³	

Observations:

- Yield (kg/ha)
- Survival %
- Additional income

OFT: 7

Title: Effect of planting geometry on chili

Problem definition: Low yield due to low plant population in chili

Technology Assessed: Planting Geometry

Technology Option	Treatments	No. of trails
Farmers practice	90 x 60 cm spacing	3
Recommended practice	75 x 60 cm spacing	
Intervention	60 x 45 cm spacing	

Observations:

- Plant population
- Yield (kg/ha)
- Economics

OFT: 8

Title: Effect of salt & oil on spoilage of mango pickles

Problem Definition: Spoilage in mango pickle

Technology Assessed: Prevention of spoilage in mango pickles

Objective:

1. To prevent spoilage in mango pickle
2. To increase self life of mango pickle
3. Cost saving

Treatments:

Common ingredients use for all the treatments:- Mango 1 kg, turmeric powder 5 gm, jaggary/sugar 600 gm, fenugreek 50 gm, mustard 30 gm, asafetida (hing) 5 gm, coriander 30 gm, funnel 30 gm, red chili powder 30 gm.

1. Salt 12% (120 gm) + Oil 800 ml/ kg mango **(General practices)**
2. Salt 15% (150 gm) + Oil 250 ml/ kg mango **(Recommended practices)**
3. Salt 20% (200 gm) + Oil 200 ml/ kg mango **(Refinement)**

No. of Replication: - 3 (Farm women)

Observations:-

1. Self life (days)
2. Colour
3. Texture
4. Cost

OFT: 9**Title: Evaluation of low cost high calorie and protein diets made from locally available food material****Problem Definition:** Mal nutrition in rural children**Technology Assessed:** Balanced nutrition**Objective:**

1. To study the effect of low cost high calorie diet on the growth of preschool children
2. To reduce the mal nutrition in children
3. To reduce problem of sickle cell anemia in children

Treatments:**T1** – Control**T2** – Provided by PHC (Different healthy diets in different areas)**T3** – Low cost, high calorie diet prepared from locally available foodMaterial i. e. soybean, chick pea, and *Gud***Duration:** 6 months**No. of Replication:** - 5 children (3-5 years)**Observations:-** Every month

1. Height
2. Body weight
3. Blood test (Hemoglobin)

A. New OFT**OFT: 1****Title: Effect of feeding of mineral mixture + 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 - Control
2. Mineral mixture (50gm/day)
3. 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

OFT:2**Title: Effect of soil test based fertilizer application in groundnut & cotton****Problem definition:** Indiscriminate use of fertilizers by the farmers**Technology:** Soil test base fertilizer application**Treatments:**

1. Farmers' practice of fertilizer application
2. Soil test based fertilizer application

No. of Replication: 3 (for each crop)**Observations:**

1. Yield (kg/ha)
2. Economics

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	GG-20	INM	INM (Micronutrient Grade IV, Biofertilizers)	Micronutrient Grade IV, Biofertilizers	Kharif-2016	8	20	Deficiency of micronutrient
2	Sesame	GT-3	Varietal evaluation	Improved Variety	seed	Summer -2017	4	10	Low productivity of existing variety
3	Gram	GG-5/3	Varietal evaluation	Improved Variety	seed	Rabi 2016-17	8	20	Low productivity of existing variety
4	Green gram	GM-4	Varietal evaluation	Imp. Variety & Bio fertilizer	seed	Summer 2017	4	10	Low productivity of existing variety
5	Wheat	GW-366/496	INM	Zinc sulphate @ 20 kg/ha	Zinc sulphate @ 20 kg/ha	Rabi 2016-17	8	20	Deficiency of micronutrient
6	Cumin	GC-4	IDM	IDM (<i>Trichoderma</i> , Mencozeb, Hexaconazole)	<i>Trichoderma</i> , Mencozeb, Hexaconazole	Rabi 2016-17	8	20	Higher dose chemical pesticides
7	Cotton	Bt. Variety	INM	INM (Micronutrient Grade V, Biofertilizers)	Micronutrient Grade V, Biofertilizers	Kharif 2016	10	25	Deficiency of micronutrient
8	Vegetables	Available at JAU, Junagadh	Varietal evaluation	Improved variety of 5 crops	Seed	Kharif 2016	5	50	-
9	Vegetables	Available at JAU, Junagadh	Varietal evaluation	Improved variety of 5 crops	Seed	Rabi 2016-17	5	50	-
10	Chick pea	-	Bio-agent	HNPV	Bio-agent HNPV	Rabi16-17	4	10	-
11	Groundnut	-	INM	<i>Savaj Rhizobium</i> & Phosphate culture	<i>Savaj Rhizobium</i> & Phosphate culture	Kharif 2016	10	25	Higher dose of chemical fertilizer
12	Wheat	-	INM	<i>Savaj Azotobacter</i> & Phosphate culture	<i>Savaj Rhizobium</i> & Phosphate culture	Rabi 2016-17	10	25	Higher dose of chemical fertilizer
13	Fisheries	<i>Kappaphycus</i>	Small Scale income generating enterprises	Sea weed cultivation using net/bamboo	Vegetative Plant	-	10	10	New Technology
		-		Spraying of LSF in groundnut		Kharif 2016	4	10	-
14	Animal Husbandry	-	Nutrient management	Chelated Mineral Mixture		-	-	50	Nutrition deficiency
Total							98	355	

Sponsored Demonstration

Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
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	2	42	10	52	5	3	8	60
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management	3	15	45	60	8	32	40	100
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management	1	15	5	20	7	3	10	30
Feed management								
Production of quality animal products	1	12	10	22	4	4	8	30
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 efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	2	-	50	50	-	10	10	60
Income generation activities for empowerment of rural Women	2	-	52	52	-	13	13	65
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI Agril. Engineering								
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								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	3	76	12	88	8	4	12	100

TOTAL	23	495	89	584	88	23	111	695
G. Total	23	495	89	584	88	23	111	695
III Soil Health and Fertility Management								
Soil fertility management	1	18	5	23	5	2	7	30
Soil and Water Conservation								
Integrated Nutrient Management	2	46	9	55	7	3	10	65
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	1	20	5	25	5	-	5	30
IV Livestock Production and Management								
Dairy Management	7	40	85	125	28	67	95	220
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management	4	72	20	92	19	9	28	120
Feed management	1	5	14	19	4	7	11	30
Production of quality animal products	1	12	10	22	4	4	8	30
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	-	30	30	-	10	10	40
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	6	-	168	168	-	27	27	195
Income generation activities for empowerment of rural Women	2	-	52	52	-	13	13	65
Location specific drudgery reduction technologies	1	-	22	22	-	8	8	30
Rural Crafts								
Women and child care	4	-	120	120	-	25	25	145
VI Agril. Engineering								
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								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	7	218	12	230	16	4	20	250
Integrated Disease Management	5	106	22	128	10	12	22	150
Bio-control of pests and diseases	1	21	6	27	5	3	8	35
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming	2	55	5	60	-	-	-	60
Carp breeding and hatchery management	1	25	-	25	-	-	-	25
Carp fry and fingerling rearing								
Composite fish culture	1	21	4	25	-	-	-	25
Hatchery management and culture of freshwater prawn	2	52	3	55	-	-	-	55
Breeding and culture of ornamental fishes	1	22	3	25	-	-	-	25
Portable plastic carp hatchery	1	26	4	30	-	-	-	30
Pen culture of fish and prawn								
Shrimp farming	2	60	10	70	-	-	-	70
Edible oyster farming								
Pearl culture	2	47	8	55	-	-	-	55
Fish processing and value addition	2	45	15	60	-	-	-	60

Diagnostic visits	125	-	-	-	-	-	-	-	-	-
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)		-	-	-	-	-	-	-	-	-
Total	954	2250	1350	3600	15	1	16	2265	1351	3616

3.5 Target for Production and supply of Technological products SEED MATERIALS

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

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
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FRUITS	-	-	-
	-	-	-
	-	-	-
	-	-	-
SPICES	-	-	-
	-	-	-
VEGETABLES	Chilli	-	1000
	Tomato	Guj. Tomato -3	1000
	Brinjal	GJB-2	3000
	-	-	-
FOREST SPECIES	-	-	-
	-	-	-
ORNAMENTAL CROPS	-	-	-
		Total	5000

Bio-products

SI. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES				
1	-	-	-	-
2	-	-	-	-

LIVESTOCK

SI. 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 : No

Number of copies to be published : NA

(B) Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	3
2	Technical reports	5
3	News letters	-
4	Training manual all discipline	-
5	Popular article	-
6	Extension literature	10
	Total	18

(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

- i. Name of villages identified/adopted with block name (from which year)

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	Kutiyana	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	200	200	-	40000/-
Water	200	200	-	10000/-
Plant	-	-	-	-
Total				

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

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	56
2	Exposer Visitors	8
3	Technology Week Celebration	5
4	Vocational Training	10
5	Extension Functionaries Training	4
	Total	83

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

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
	PF	Advances in groundnut production technology	1	24	6	30	3	2	5	35
	PF	Integrated Nutrient Management in kharif crops	1	21	4	25	3	2	5	30
	PF	Improved production technology of Bt cotton	1	18	5	23	2	-	2	25
	PF	Sustainable agriculture	1	28	-	28	7	-	7	35
	PF	Advances in production technologies of wheat & chickpea	1	27	5	32	3	-	3	35
	PF	INM in major rabi crops	1	25	5	30	4	1	5	35
	PF	Advance production technologies of pulses	1	29	6	35	3	2	5	40
	PF	Crop diversification	1	31	-	31	4	-	4	35
Horticulture										
	PF	Layout and Management of mango orchards	1	22	-	22	3	-	3	25
	PF	Protected cultivation of flower & vegetables crops	1	18	4	22	3	-	3	25
	PF	Production of organic fruits	1	17	3	20	3	2	5	25
	PF	Fertilizer management in crops under protected cultivation	1	22	4	26	4	-	4	30
	PF	Cultivation of onion & garlic	1	13	8	21	2	2	4	25
	PF	Production of organic spices	1	22	8	30	7	3	10	40
	PF	Scope of net house for off seasonal cultivation.	1	16	7	23	5	2	7	30
	PF	Cultivation of leafy vegetables under net house	1	23	4	27	1	2	3	30
Live Stock Production.										
	PF	Disease management in livestock	1	18	6	24	4	2	6	30
	PF	Nutrition management in livestock	1	5	14	19	4	7	11	30
	PF	Care of pregnant animals	1	6	12	18	4	8	12	30
	PF	Care after calving	1	8	8	16	6	8	14	30
	PF	Importance of vaccination in farm animal	1	20	4	24	4	2	6	30
	PF	Artificial insemination	1	4	11	15	6	9	15	30
	PF	Deworming programme	1	7	9	16	4	10	14	30
	PF	Control of parasites in farm animals	1	19	5	24	4	2	6	30
Agril. Engg.										
	PF	-	-	-	-	-	-	-	-	-
	PF	-	-	-	-	-	-	-	-	-
	PF	-	-	-	-	-	-	-	-	-
	PF	-	-	-	-	-	-	-	-	-
	PF	-	-	-	-	-	-	-	-	-
Home Sc.										
	PF	Women & Child care	1	-	29	29	-	6	6	35
	PF	Drudgery reducing technologies for farm women in agriculture	1	-	22	22	-	8	8	30
	PF	Household food security by kitchen gardening	1	-	30	30	-	10	10	40
	PF	Importance of vaccination and health care for infant	1	-	29	29	-	6	6	35
	PF	Nutritional diet for farm women, pregnant women, children & adolescent girls	1	-	29	33	-	7	7	40
	PF	Preparation of jam, squash, catch up from fruit	1	-	31	31	-	4	4	35

	PF	Value addition in <i>aonla</i>	1	-	26	26	-	4	4	30
	PF	Daily requirement of nutrients in farm women	1	-	29	29	-	6	6	35
	PF	Preservation of fruits & vegetables	1	-	35	35	-	5	5	40
	PF	Preparation of different types of masala	1	-	26	26	-	4	4	30
Plant Protection										
	PF	Stem/collar rot management in groundnut	1	25	5	30	1	4	5	35
	PF	Management of white grub in groundnut	1	38	-	38	2	-	2	40
	PF	Integrated management of pink ball worm in cotton	1	38	-	38	2	-	2	40
	PF	Integrated pest & disease management in kharif crops	1	33	-	33	2	-	2	35
	PF	IPDM in major rabi crops	1	16	4	20	1	4	5	25
	PF	<i>Aflatoxin</i> & Storage pest management in groundnut	1	20	5	25	3	2	5	30
	PF	Biological control of pest & diseases	1	21	6	27	5	3	8	35
	PF	Integrated pest management in chilly	1	33	-	33	2	-	2	35
Fisheries										
	PF	Shrimp farming in Brackish water	1	29	6	35	-	-	-	35
	PF	Culture of fresh water prawn- Scampi	1	27	3	30	-	-	-	30
	PF	Ornamental Fish Culture	1	22	3	25	-	-	-	25
	PF	Major Carp Culture	1	26	4	30	-	-	-	30
	PF	Shrimp farming- <i>Vannami</i>	1	31	4	35	-	-	-	35
	PF	Seaweed cultivation	1	30	5	35	-	-	-	35
	PF	Cage Culture	1	21	4	25	-	-	-	25
	PF	Preparation of LSF	1	27	8	35	-	-	-	35
	PF	Fish processing & value addition	1	18	7	25	-	-	-	25
	PF	Mericulture	1	22	8	30	-	-	-	30
Soil health										
	PF	Soil health management	1	18	5	23	5	2	7	30
	PF	Soil sampling techniques and importance of soil analysis	1	20	5	25	5	-	5	30

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
-	PIS	Production of organic inputs	-	3	15	5	20	3	2	5	25
Chickpea	PIS	Self preparation of bio products	-	3	17	5	22	3	-	3	25
Vegetables	HOV	Plug Nursery raising technique for business	-	3	14	6	20	3	2	5	25
-	WOE	Preparation of handicrafts item	-	3	-	19	19	-	6	6	25
-	RY	Sea weed culture and Preparation of LSF	-	3	5	14	19	2	4	6	25

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
-	Extension functionaries	Integrated crop management- major crops	3	25	3	28	2	-	2	30
-	Extension functionaries	Recent advances in agriculture and animal husbandry.	3	25	3	28	2	-	2	30

