ANNUAL ACTION PLAN 2017-18



KRISHI VIGYAN KENDRA JUNAGADH AGRICULTURAL UNIVERSITY AMRELI



DETAILS OF ACTION PLAN OF KVKs DURING 2017-18 (1st April 2017 to 31st March 2018)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telep	hone	E mail	Website
Programme Co-ordinator	Office	FAX		
Krishi Vigyan Kendra				
Junagadh Agricultural	02792- 227122	02792- 227122	kvkamreli@gma il.com	
University,				
Keriya Road, Model farm,				
Amreli (Gujarat)-365601				

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

Address	Telep	hone	E mail	Website
	Office	FAX		
Junagadh Agricultural University,	0285 2672080-	0295 2672004		
Agril. Campus, Motibaugh,	90	2672653		www.jau.in
Junagadh-362001 (Gujarat)				

- 1.2.b. Status of KVK website: No
- 1.2.c. No. of Visitors (Hits) to your KVK website (as on today):-----
- 1.2.d Status of ICT lab at your KVK: ------

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

Name	Telephone / Contact				
D. N. C. Jacki Dk D	Office	Mobile	Email		
Dr. N. S. Joshi, Ph.D, Horticulture	02792 227122	942819 1963	nileshjoshi2207@gmail.com		

1.4. Year of sanction: **Deputy Secretary, ICAR, New Delhi, Letter No. 13-16/2003/1, Dt. 7.12.2005**

1.5. Staff Position (as on 30 Sept. 2016)

SI. No.	Sanction ed post	Name of the incumbe nt	Designati on	Disciplin e	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permane nt /Tempora ry	Category (SC/ST/O BC/ Others)	Mobile No.	Email id	Please attach recent photogra
1	Programme Coordinator	Dr. N. S. Joshi	Programme Coordinator	Horticulture	15600- 39100	8000	30320	24/03/15	Permanent	General	9428191963	nileshjoshi220 7@gmail.com	
2	Subject Matter Specialist	Dr. M. L. Patel	Subject Matter Specialist	Plant Protection	15600- 39100	6000	21600	31/03/2015	Permanent	General	9427244349	mahesh.patel707 @gmail.com	
3	Subject Matter Specialist	Shri P. J. Prajapati	Subject Matter Specialist	Crop Production	15600- 39100	6000	21600	31/03/2015	Permanent	OBC	8460468032	karangiyavk@jai. n	
4	Subject Matter Specialist	Dr. V. K. Karangiya	Subject Matter Specialist	Animal Science	15600- 39100	6000	21600	07/12/2016	Permanent	OBC	9601807463	pinakin255@gma il.com	
5	Subject Matter Specialist	Dr. H. C. Chhodava dia	Subject Matter Specialist	Extension Education	15600- 39100	6000	29070	24/08/06	Permanent	General	9429222247	harshad@jau.in	
6	Subject Matter Specialist	Vaccant	Subject Matter Specialist	Home Science	15600- 39100	-	-	-	-	-	-	-	

7	Subject Matter Specialist	Dr. M. S. Dulawat	Subject Matter Specialist	Agriculture Engineering	15600- 39100	6000	21600	27/02/09	Permanent	General	9662549615	nsdulawat@gma il.com	
8	Programme Assistant	Shri G. C. Parsana	Programme Assistant	-	9300- 34800	4400	23470	18/01/06	Permanent	General			
9	Computer Programmer		Computer Programmer	-	9300- 34800	4400	16640	01/07/10	Permanent	General			
10	Farm Manager	Vaccant	Farm Manager	-			-						
11	Office Superintend ent cum Accountant	Shri H. J. Ravaliya	Office Superintendent cum Accountant		9300- 34800	4400	16640	01/12/11	Permanent	SC			
12	Stenograph er	Shri A. H. Parmar	Stenographer	-	10,000 fix		-	18/11/2013	Permanent	ST			
13	Driver	Vaccant	Driver	-									
14	Driver	Vacant	Driver	-	-		-	-	-	_			
15	Supporting staff	Shri N. K. Dangar	Supporting staff	-	4440- 7440	1650	11790	1/06/05	Permanent	OBC			
16	Supporting staff	Vacant	Supporting staff										

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	3.00
2.	Under Demonstration Units	1.00
3.	Under Crops	13.50
4.	Horticulture	0.50
5.	Pond	0.25
6.	Others if any	1.25

1.7. Infrastructural Development:

A) Buildings

		Source	Stage						
S.	Name of building	of fundin	C	te	Incomplete				
No		g	Completio n Year	Plinth area (Sq.m)	Expenditur e (Rs.)	Startin g year	Plinth area (Sq.m	Status of construction	
1.	Administrativ e Building	ICAR	2008	500	5278000				
2.	Farmers Hostel	ICAR	2000	305	3276000				
3.	Staff Quarters(6)	ICAR	2008	400	3204000				
4.	Farm Wall	ICAR	2008						
5.	RWH system	ICAR	2008		960000				
6.	Threshing yard	ICAR	2010						

7.	Godown and processing shed	RKVY	2010	70.62	500000	 	
8.	Poly House	RKVY	2009	320	281600	 	
9.	Net House	RKVY	2009	150	64450	 	
10.	Training hall	RKVY	2009	190.9 9	1396300	 	
11.	Pilot scale Process plant	RKVY	2009	197.3 1	1536400	 	
12.	Implement shed	RKVY	2009	77.33	286300	 	

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
M&M, Bolero XL	2006	4,86,500	236506	Working condition
Tractor	2005	3,80,000		Working condition
Motor Cycle	2010	42,831	11455	Working condition
Power Tiller with implements	2011	1,42,000		Working condition
Mini Tractor with implements	2014	374820		Working condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Digital camera	2008-09	11070	Working condition
Air assisted blast type sprayer	2008-09	98750	Working condition
Vacuum cleaner, RO, water cooler	2008-09	41780	Working condition
Samsung A/C, Nos2	2008-09	47300	Working condition
Fax machine	2008-09	17500	Working condition
LCD projector	2008-09	98799	Working condition
Winnowing fan	2008-09	8500	Working condition
Chaff cutter	2008-09	30188	Working condition
Plasma TV, Nos2 (21 and 52")	2008-09	139952	Working condition
Cotton stock shredder-Nos	2008-09	363000	Working condition
Spiral binding machine	2008-09	9090	Working condition
Rotavator with cultivator, Nos2	2008-09	180000	Working condition
Inverter	2008-09	19800	Working condition
Manually operated seed dressing drum	2008-09	20930	Working condition
Exhibition display	2008-09	39974	Working condition
Decorticator groundnut machine	2008-09	98850	Working condition
Cotton shredder, Nos2	2008-09	242000	Working condition
Battery operated sprayer	2008-09	4940	Working condition
Aspee knapsack sprayer	2008-09	7400	Working condition

		·····	.,
Bullock drawn pipe farm seed drill	2008-09	161000	Working condition
Zero till drill	2008-09	66725	Working condition
Bullock drawn clod breaker	2008-09	52000	Working condition
Tractor operated groundnut digger	2008-09	235500	Working condition
Multipurpose thresher (engine operated)	2008-09	114000	Working condition
Mobile seed processing unit	2008-09	1685000	Working condition
Electronic balance	2008-09	19425	Working condition
Power generated	2008-09	49500	Working condition
RO system	2008-09	24450	Working condition
Air condition Nos2	2008-09	51580	Working condition
Air condition, Nos3	2008-09	89970	Working condition
Photo copier	2008-09	124000	Working condition
LCD and accessories	2008-09	103912	Working condition
Oven and freeze	2008-09	30605	Working condition
Tractor drawn harrow cum cultivator	2008-09	75000	Working condition
Planter	2008-09	44000	Working condition
Rotavator	2008-09	96000	Working condition
Laptop	2008-09	47500	Working condition
Pipe frame blade harrow piece	2008-09	11000	Working condition
Solar equipments	2008-09	81830	Working condition
Gas connection for lab.	2009-10	9700	Working condition
Digital Sony Camera	2009-10	24750	Working condition
Post Whole Digger	2009-10	38000	Working condition

Motor, 1 Hp	2009-10	8650	Working condition
Power Generator	2009-10	45576	Working condition
Multi Crop thresher	2010-11	38000	Working condition
BOD incubator	2010-11	75863	Working condition
Compound light microscope	2010-11	90851	Working condition
Motor 7.5 Hp	2010-11	28600	Working condition
Motor 5 Hp	2010-11	17000	Working condition
Desktop Computer	2010-11	34810	Working condition
Hot air Oven	2010-11	15215	Working condition
Hot plate	2010-11	4725	Working condition
Physical Balance	2010-11	3623	Working condition
Refrigerator	2010-11	19200	Working condition
PH meter	2010-11	3990	Working condition
Conductivity bridge	2010-11	9450	Working condition
Chemical Balance	2010-11	45066	Working condition
Shaker-2 no.	2010-11	49000	Working condition
Flame Photometer	2010-11	44887	Working condition
Spectrophotometer	2010-11	39480	Working condition
Water Distillation Still	2010-11	1,57,500	Working condition
Seed Drill	2010-11	27500	Working condition
Winnower	2010-11	37000	Working condition
Disc Plow	2012-13	30400	Working condition
Disc Harrow	2012-13	37500	Working condition
Nine tine Cultivator	2012-13	19600	Working condition
PC with Accessories (2 No.)	2013-14	65970	Working condition
Printer (2 No.)	2013-14	13898	Working condition
Scanner	2013-14	4309	Working condition

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

SI.No.		Date
1.	Scientific Advisory Committee	05-11-2016

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Dry Farming
2	Rainfed : Cotton, Groundnut, Sesame, Black gram, Green gram, Mango, Onion
3	Agriculture – Horticulture (Mango)
4	Agriculture – Dairy
5	Agriculture – Fisheries
6	Cotton based cropping system
7	Groundnut based cropping system
8	Sesame based cropping system
9	Enterprise: Poultry, Fishery, Dairy, Sericulture, Vermicomposting

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

a) Soil type

	Agro-climatic Zone	Characteristics
1	North Saurashtra Agro climatic Zone	Medium black soil, coastal alluvial soil, Rocky soil and Alkaline soil.
	VI	The climate of the district varies from moderately hot throughout the year except in winter. The climate is humid along with the coastal belt. The temperature varies from 8.01° Celsius in January to 43.7° Celsius in May. The average rainfall of last three years is 706 mm.

b) Topography

	Agro-ecological Situation	Soil texture	Altitude (m)	Principal Crops grown	Special Feature	Block Covered
1	Medium black soil with 400-700 mm rainfall	Silty clay to clayey	75-150	Groundnut Cotton Pearl millet	-	Savarkundla, Rajula and part of Jafrabad
2	Shallow black soils with 600-700 mm	Clayey	75-150	Groundnut Cotton	-	Kunkavav,

	rainfall			Pearl millet Wheat		Bagasara
3	Saline - alkali (Heavy texture) soils with 500-600 mm rainfall	Clayey	75-150	Cotton Groundnut Pearl millet Sorghum	Saline ground water	Amreli, Lathi, Liliya
4	Hilly soils with 300- 600 mm rainfall	Clay loam, clayey	75-300	Groundnut Cotton Pearl millet Wheat	Well drained soils	Babra, Dhari, Khambha
5	Coastal alluvial soil with medium rainfall 750-1000 mm.	Sandy loam to silty clay loam	25-75	Cotton Groundnut Sesame Pearl millet	Saline ground water	Jafrabad and part of Rajula

2.3 Soil Types

2.3	Son Types										
		Problem Soil									
		Alkaline	Alkaline				Soil erosion				
Sr.	Name of		Extent	of severi	ty		Extent	of seve	rity		
No.	Block	Area (ha)	Very Sever	Sever	Mild	Area in ha	Very Sever	Sever	Mild		
1	Amreli	10391	0	10391	0	60000	0	27000	33000		
2	Babra	51723	0	0	51723	79316	0	72000	7316		
3	Bagasara	0	0	0	0	7685	0	0	7685		
4	Dhari	75000	0	25000	50000	70000	0	55000	15000		
5	Jafrabad	26793	0	18213	8580	35460	0	1822	33638		
6	Khambha	0	0	0	0	30700	0	20700	10000		
7	Kunkavav	0	0	0	0	72671	0	34526	38145		
8	Lathi	15000	0	15000	0	13000	0	0	13000		
9	Liliya	12000	0	12000	0	38553	0	14355	24198		
10	Rajula	0	0	0	0	0	0	0	0		
11	Savarkundla	21563	0	21563	0	700	0	0	700		

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

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Pearl millet	7700	11200	1465
2	Jowar	400	400	1083
3	Maize	900	1600	1741
4	Green gram	4000	2000	484
5	Black gram	1900	1100	589
6	Tur	600	600	947
7	Wheat	30900	113200	3665
8	Gram	2400	3100	1274
9	Kharif Groundnut	235800	135900	1001
10	Summer Groundnut	4900	9400	1901
11	Kharif Sesame	10400	3400	327
12	Summer Sesame	3500	6600	1889
13	Castor	2100	4100	2000
14	Irrigated Cotton (Lint)	178300	645800	616
15	UnIrrigated Cotton (Lint)	137600	152600	188
16	Cumin	2500	1300	533
17	Onion	3700	102000	27818
18	Garlic	1700	9600	5760
19	Chilli	100	100	1000

2.5. Weather data (2016-17)

Month	Rainfall	Tempe	rature ⁰ C	Relative Humidity (%)		
WOUTH	(mm)	Maximum	Minimum	Maximum	Minimum	
April-2016	0.0	31.8	24.0	77	18	
May-2016	2.0	41.7	26.2	80	26	
June-2016	43.6	38.5	27.3	81	44	
July-2016	149.6	32.7	25.6	88	70	
August-2016	140.6	30.6	24.9	89	74	
September- 2016	199.6	32.2	23.3	90	63	
October- 2016	124.0	32.9	21.4	86	50	
November- 2016	0.0	33.6	14.8	65	23	
Total	659.4					

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

district			
Live stocks	Total	:	809215
Rank 3	Cows crossbreed (In milk)	:	2400 (10.066 kg/day)
	Cows crossbreed (dry)	:	800
	Cows crossbreed (milch)	:	3200 (7.466 kg/day)
Rank 9	Cows indigenous (In milk)	:	75100 (4.595 kg/day)
	Cows indigenous (dry)	:	35700
	Cows indigenous (milch)	:	110800 (3.116 kg/day)
	Total Cattle: 602444		
Rank 10	Buffaloes (In milk)	:	99600 (5.142 kg/day)
	Buffaloes (dry)	:	34100
	Buffaloes (Milch)	:	133700 (3.382 kg/day)
	Total Buffaloes	:	240104

	Bullock	:	136707
Rank 4	Goat	:	135949 (0.516 kg/day)
	Sheep	:	103501
	Camel	:	10
	Donkey	:	360
	Dog	:	31989
	Horse	:	1293
	Poultry	:	9990
	Others	:	22647

2.7 Details of Operational area / Villages

Sr. No	Name of village	Name of Taluka	Name of Distri ct	Major crops & enterpris es	Major problem identified	Identified Thrust Areas
1	Kerala(Joga ni)	Lathi	Amreli	Cotton, Groundn ut, Cumin, wheat	 Lack of irrigation facility Poor quality of irrigation water Wild animal problem Poor fertility status of Land low yield of major crops 	INM, IPM, Conserve moisture Agriculture, Training on MIS
2	Harsupur Devaliya	Lathi	Amreli	Cotton, Groundn ut, Green gram, wheat	 Lack of irrigation facility Poor quality of irrigation water Wild animal problem low yield of major crops 	INM, IPM, Conserve Moisture agriculture
3	Saladi	Liliya	Amreli	Cotton,	Saline land and	Conserve

4	Jatruda	Liliya	Amreli	Green gram Cotton, Groundn ut	poor quality of irrigation water • Poor fertility status of Land • Saline land and poor quality of irrigation water • Poor fertility status of Land • low yield of major crops	Moisture agriculture, OFT in cotton on BBF, Training on MIS INM, IPM, Conserve Moisture agriculture
5	Vaandaliya	Babra	Amreli	Cotton, Groundn ut, Cumin, Wheat	 low yield of major crops Wild animal problem Lack of irrigation facility 	ICM, introduction of new varieties, Scientific cropping
6	Lunidhaar	Kukavav	Amreli	Cotton, Groundn ut, Green gram, black gram	 low yield of major crops Wild animal problem Lack of irrigation facility 	ICM, introduction of new varieties, Scientific cropping
7	Haalariya	Bagasra	Amreli	Groundn ut, cotton, Green gram, black gram	 low yield of major crops Wild animal problem Lack of irrigation facility 	ICM, introduction of new varieties, Scientific cropping
8	Ditla	Dhari	Amreli	Cotton, Groundn ut, Mango	low yield of major cropsWild animal problem	ICM, introduction of new varieties, Scientific cropping
9	Babapur	Amreli	Amreli	Cotton, Castor, Wheat	low yield of major cropsWild animal	ICM, introduction of new

					problem • poor quality of irrigation water	varieties, Scientific cropping
10	Shedubhar	Amreli	Amreli	Cotton, Groundn ut, Green gram, black gram	 low yield of major crops Wild animal problem poor quality of irrigation water 	ICM, introduction of new varieties, Scientific cropping
11	Vaankiya	Amreli	Amreli	Cotton, Groundn ut, pigeon pea	 low yield of major crops Wild animal problem poor quality of irrigation water 	ICM, introduction of new varieties, Scientific cropping
12	Lakhapadar	Khambh a	Amreli	Cotton, Groundn ut, wheat, Pigeon pea	low yield of major cropsWild animal problem	ICM, introduction of new varieties, Scientific cropping
13	Nesdi	Savarku ndla	Amreli	Cotton, Groundn ut, wheat, Pigeon pea, lemon	low yield of major cropsWild animal problem	ICM, introduction of new varieties, Scientific cropping
14	Oliya	Savarku ndla	Amreli	Cotton, Groundn ut, wheat, Pigeon pea, lemon	low yield of major cropsWild animal problem	ICM, introduction of new varieties, Scientific cropping
15	Maandardi	Rajula	Amreli	Cotton, Groundn ut, wheat, Pigeon pea	low yield of major cropsWild animal problem	ICM, introduction of new varieties, Scientific cropping

2.8 Priority thrust areas

Sr.No.	Crop/ Enterprise	Thrust area
1.	Cotton, Groundnut, Castor, Cumin, Wheat, vegetables, fruits, etc.	Integrated Crop Management in major crops
2.	Farm waste	Recycling of farm waste through composting, vermicompost, green manuring, etc.
3.	Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques
4.	Soil	Reclamation of saline & alkaline soils
5.	Farm Women	Farm women empowerment by training in value addition, handicrafts, and small scale enterprises
6.	Horticulture	Promotion of arid horticulture fruit crops
7.	Improved Implements	Popularization of the mechanized technological know how

3. TECHNICAL PROGRAMME

3. A. Details of targeted mandatory activities by KVK

0	FT	FLD					
(*	1)	(2)					
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers				
8	22	54	195				

Trai	ning	Extension Activities				
(3	3)	(4)				
Number of Courses	Number of	Number of activities Number of				
	Participants		participants			
45	1570	190	11724			

Ī	Seed Production	Planting	Fish seed prod. (Nos)	Soil Samples
	(Qtl.)	material (Nos.)		
Ĩ	(5)	(6)	(7)	(8)
ľ	121	5500	Nil	500

3. B. Abstract of interventions to be undertaken

						<mark>Interventi</mark>	ons		
S. No	Enternris		Identified Problem	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of trainin g for extensi on person nel if any	Extensi on activitie s	Supply of seeds, plantin g materia Is etc.
1	INM	Wheat	Farmers do not use bio fertilizer	Effect of liquid bio fertilizer on growth and yield of wheat		Use of bio fertilizer and its importan ce		Field Day, Training	Bio Fertilize r
2	Cropping system	Cotton	Farmers do not adopt closer planting, low cotton yield due to less soil moisture and incidence of pest and disease	High Density Planting in Cotton	-	Advanta ges of High Density Planting in Cotton	-	Field Day, Training	Cotton Seed(bt)
3	IPM	Cotton	Injudicious use of Chemical pesticides due to lack of knowledge about the use of particular pesticides	Management of sucking pests in Cotton		Use of bio pesticide s		Field Day, training	Bio Pesticid es and botanic als
4	IDM	Chickpea	Low yield in chickpea	Management of Wilt in chickpea		IDM		Field Day, Training	Bio Fungici de

5	Resourc e conserva tion technolo gy	Cotton	Water logging, soil salinization in salt-affected lands. Heavy mortality, difficulties in intercultural operation due to lodging.	Effect of method of sowing on ridges on yield of Cotton				Field Day	
6	Varietal Evaluati on	Okra	Low productivity of non- descriptive local okra varieties	Varietal Evaluation of Okra				Field day	Seed
7	INM	Onion	Low productivity in onion	Effect of Sulphur in onion production	-	-	-	Field day	fertilizer
8	Integrate d Nutrient manage ment	Buffalo	Inadequate nutrition, infertility and low milk yields in milch animals.	Effect of supplementat ion of concentrate and mineral mixture on milk production of local buffalo breed.		Effect of supplem entation of concentr ate and mineral mixture on milk productio n		training	concent rate mixture + Mineral mixture

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	Cere als	Oilse eds	Puls es	Comme rcial Crops	Vegeta bles	Fruits	Flow er	Planta tion crops	Tuber Crops	TOTAL
Varietal Evaluation					1					1
Seed / Plant production				1						1
Weed Management										0
Integrated Crop Management										0

Integrated Nutrient	1				1					2
Management										
Integrated Farming										0
System										
Mushroom										0
cultivation										
Drudgery reduction										0
Farm machineries										0
Post Harvest										
Technology										
Integrated Pest				1						1
Management										
Integrated Disease			1							1
Management										
Resource				1						1
conservation										
technology										
TOTAL	1	0	1	3	2	0	0	0	0	7

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

Thematic areas	Cerea Is	Oilse eds	Puls es	Comme rcial Crops	Vegeta bles	Frui ts	Flow er	Kitchen garden	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant										
production										
Weed Management										
Integrated Crop										
Management										
Integrated Nutrient										
Management										
Integrated Farming			NIL	•						
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	1							1
Management								
Disease of								0
Management								
Value								0
Addition								
Production								0
and								
Management								
Feed and								0
Fodder								
Small Scale								0
income								
generating								
enterprises								
TOTAL	1	0	0	0	0	0	0	1

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

Thematic areas	Cattle	Poult ry	Shee p	Goat	Pigger y	Rabbitary	Fisheries	TOTAL
Evaluation of								
Breeds								
Nutrition								
Management								
Disease of								
Management								

Value Addition		NIL		
Production and				
Management				
Feed and Fodder				
TOTAL				

B. Details of On Farm Trial

OFT – 1: Agronomy (Ongoing)

Title: Effect of liquid bio fertilizer on growth and yield of wheat.

Problem Diagnosed / Defined: Farmers do not use bio fertilizer.

Details of technologies selected for assessment/refinement:

(1) Crop : Wheat

(2) Season/ Year : Rabi 2016-17 to Rabi 2018-19

(3) Spacing : 22.5 cm (row to row) by automatic seed drill.

T ₁	Farmer practices	Use only DAP and Urea in various dose
T ₂	Recommended Practices	120-60-60 NPK kg/ha
ТЗ	Assesment	Soil application of Azotobacter & PSB @ 1 lit./ha with 100 kg FYM +75% RDF

(4) Number of replication : 02

(5) Source of technology : Department of Agronomy, JAU, Junagadh

(6) Production system thematic area : Rainfed Farming

(7) Thematic area : INM (8) Cost : 120

OFT -2: Agronomy (New)

1) Title of technology: High Density Planting in Cotton

2) Problem Diagnosed/Defined: Farmers do not adopt closer planting, there for get low cotton yield due to less soil moisture and incidence of pest and disease.

Detail of technologies selected for assessment/refinement

(1) Crop : Cotton

(2) Season/Year : Kharif 2017-18 to Kharif 2019-20

T1:(Farmers' practices)	120 X 45-60 cm (18519-13888 plants/ha)
T2:(Recommended Practice)	90 X 30 cm (37037 plants/ha) (Var. G. cot-8 (bt)

(3) Number of replication : 02

(5) Source of technology : Cotton Research Station, JAU, Junagadh

(6) Production system thematic area : Rainfed Farming

(7) Thematic area : Closure Planting method

(9) Cost : 3200

OFT – 3: Plant Protection (Ongoing)

Title: Management of sucking pests in Cotton

Problem Diagnosed / Defined: Injudicious use of Chemical pesticides due to lack of knowledge about the use of particular pesticides

Details of technologies selected for assessment/refinement:

(1) Crop : Cotton

(2) Season/ Year : Kharif -2016 to Kharif - 2018

(3) Spacing : 120 x 45 cm

T ₁	Farmer practices	High dose and Use of conventional Chemical pesticides
T ₂	Assessment/ refined Practices	Three spray of imidacloprid 200 SL @ gai /ha (40 ml/10 lit. water) or thiamethoxam 25 WG @ 25 gai /ha (2 g / 10 lit. water) at 15 day interval starting from the pest infestation.

(4) Number of replication : 02

(5) Source of technology : JAU, Junagadh(6) Production system thematic area : Rainfed Farming

(7) Thematic area : IPM(8) Total Cost : 2000

OFT -4: Plant Protection (Ongoing)

Title: Management of Wilt in chickpea

Problem Diagnosed / Defined: Low yield in chickpea

Details of technologies selected for assessment/refinement:

(1) Crop : Chickpea

(2) Season/ Year : Rabi -2016 to Rabi – 2019

(3) Spacing : 45 x 10

T ₁	Farmer practices	No use of seed treatment and Trichoderma
T ₂	Assessment/refined Practices	Seed treatment of Carbendazim @ 3g/kg seed, Soil application of Trichoderma @2.5 kg /ha with Castor cake 500kg

(4) Number of replication : 02

(5) Source of technology : JAU, Junagadh(6) Production system thematic area : Rainfed Farming

(7) Thematic area : IDM(8) Total Cost : 2500

OFT -5: Agriculture Engineering (New)

a Title : Effect of method of sowing on ridges on yield

of Cotton

b Problem Diagnose : Decreasing productivity of Cotton due to

water logging, soil salinization in salt-affected

lands. Heavy mortality, difficulties in intercultural operation due to lodging.

c Treatments

T1- Farmers' practice : Traditional Sowing of Cotton on Flat bed(152)

cm apart)

T2-Recommended Technology : To prepare the field by ploughing followed by

blade harrowing & planking and sow the crop on ridges (120 cm apart). (Year 2013-14, Department of Agronomy, JAU, Junagadh)

d Number of replication : 04

e Source of Technology : JAU Recommendation and interaction with

scientists

g Thematic area : Soil conservation and improvement

h Plot size(ha) : 0.6 ha/farmer

i Critical Input : Cotton Seed, Dibbler and Shredder(rent)

j Unit Cost : 1000

k Total Cost : Rs. 4000

Duration of project : 3 year

Indicator/Parameter : Yield, CB ratio, Balls per plant, Soil analysis

OFT -6: Horticulture (Ongoing)

1) Title of technology: Varietal Evaluation of Okra

2) Problem Diagnosed/Defined: Low productivity of non- descriptive local okra varieties

Details of technologies selected for assessment/ refinement: Varietal evaluation of okra varieties

Treatments	Technology option	No. of Trials
T ₁	Farmer practices-Private Variety	
T ₂	Gujarat Junagadh Okra-3	Two
T ₃	Gujarat Junagadh Okra Hybrid- 3	

3) Source of technology : JAU, Junagadh

4) Production system thematic area : Rainfed Farming

5) Thematic area : Integrated varietals management

6) Performance of the Technology with performance indicator: Results showed that production per hectare is higher in **T1** and **T2** as compare to **T3**.

7) Final recommendation for micro level situation : GJO-3 give higher production

and BC ratio

8) Constraints identified and feedback for research : Need to be more trials

9) Process of farmers participation and their reaction: Field days at farmers field, evaluation of the trial and their reaction towards the performance

OFT -7: Horticulture (Ongoing)

1) Title of technology: Effect of Sulphur in Onion production

2) **Problem Diagnosed/Defined:** Low productivity in onion

Technology Assessed: Use of Sulphur in onion Production

Treatments	Technology option	No of trial	
T ₁	Farmer practice- 100 kg N/ha, 50 kg P ₂ O ₅ /ha	Two	
T ₂	T ₂ Recommended Practices NPK :- 75 kg N/ha, 50 P ₂ O ₅ /ha, 50 K ₂ O kg/ha and 20 kg S/ha)		

3) Source of technology : JAU, Junagadh

4) Production system thematic area : Irrigated Farming

5) Thematic area : Integrated Nutrient management

6) Performance of the Technology with performance indicator: Results showed that production per hectare is higher in **T2** and **T3** as compare to **T1**.

7) Final recommendation for micro level situation : Recommended practices found

best in case of production, net return BC ratio

8) Constraints identified and feedback for research : Need to be more trials

9) Process of farmers participation and their reaction: Field days at farmers field, evaluation of the trial and their reaction towards the performance

OFT: 8 Animal Science (New)

- 1. Title: Effect of supplementation of concentrate and mineral mixture on milk production of local buffalo breed.
- Problem diagnose/defined: Inadequate nutrition is a major cause of low liveweight gains, infertility and low milk yields in milch animals. The aim of the OFT is about the awareness of dairy farmers to know the nutritional management of milch animals to increase milk yield. Therefore, the above entitle OFT has been proposed.
- 3. Details of technologies selected for assessment/refinement:

Treatment:

Treatment 1 : Routine Farmer Practice (Roughage+concentrate)

Treatment 2 : Feeding of concentrate mixture (5kg/animal/day) + Mineral mixture

(50 gm/animal/day) (Recommended)

3. Source of technology: Veterinary College, N.A.U., Navsari

4. Production system thematic area: Integrated Nutrient management

5. Thematic area: Integrated Nutrient management

6. Experimental Animals : 12 (6 Animals/treatment)

Observations to be recorded: Milk yield (Lit/day) & Fat %

3.2 Frontline Demonstrations

A. Details of FLDs to be organized -

SI. No	Crop	Variety	Themati c area	Technology for demonstratio n	Critical inputs	Season and year	Area (ha)	No. of farme rs/ demo n.	Parameters identified
1	Groun dnut	GG- 22/9	Varietal Evaluati on	Variety	Seed	Kharif-17	4	10	Yield

2	Castor	GCH-7	Varietal Evaluati on	Variety	Seed	Kharif-17	4	10	Yield
3	Pigeon Pea	GT-1	ICM	Intercropping	Seed	Kharif-17	4	10	Yield
4	Cotton	GCH- 10/12(B t)	Varietal Evaluati on	Variety	Seed	Kharif-17	4	10	Yield
5	Veget able crops	Vegeta ble seeds(J AU)	Nutrition al security	Kitchen gardening	Seed	Kharif 17	-	50	Yield
6	Wheat	Local	INM	Nutrients	Micromix, azatobactor, PSB	Rabi 17- 18	4	10	Yield
7	Cumin	Local	IDM	Seed treatment and Soil Application	Carboxin, t. harzenium	Rabi 17- 18	4	10	Yield
8	Onion	GWO-1	Varietal Evaluati on	Variety	Seed	Rabi 17- 18	2	5	Yield
9	Corian der	GC-1/2	Varietal Evaluati on	Variety	Seed	Rabi 17- 18	4	10	Yield
10	Sesam e	GT-3/5	Varietal Evaluati on	Variety	Seed	Summer 18	4	10	Yield
11	Black gram	Guj. Urd-1	Varietal Evaluati on	Variety	Seed	Summer 18	4	10	Yield
12	Green gram	GM-4/5	Varietal Evaluati on	Variety	Seed	Summer 18	4	10	Yield
13	Okra	GJO-3	Varietal Evaluati on	Variety	Seed	Summer 18	2	5	Yield
					Total		44	160	

Sponsored Demonstration

Crop	Area (ha)	No. of farmers	
Groundnut	20	50	
Green Gram	20	50	

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	2017-18	250
2	Farmers Training	4	2017-18	140
3	Media coverage	-	-	-
:	Training for extension	2	2017-18	30
	functionaries			

C. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	Season and year	No. of farmer s	Area (ha)	Critical inputs	Performance parameters / indicators
Cotton Shredder	Cotton	2017-18	10	4	Cotton Shredder	Field capacity

(ii) Livestock Enterprises

Enterpris e	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators
Feed Manage ment	Local Cattle	10	2016-17	Anabolite liquid	Milk yield (Lit/day)
Feed Manage ment	Local Cattle	10	2016-17	mineral mixture	Milk yield (Lit/day)

(iii) Others

Name of the Enterprises	Crop	Season and year	No. of farmer wome n	Area (ha)	Critical inputs	Performance parameters / indicators
Zero energy cool chamber	Vegetab les	2017-18	05	-	-	Self life of fruits and vegetables

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

A) ON Campus

		No. of Participants								
Thematic Area	No. of	(Others	3		SC/ST	•	Grand		
	Courses							Total		
(A) Farmers & Farm Women		е	е	al	е	le	al			
I Crop Production										
II Horticulture										
a) Vegetable Crops										
b) Fruits										
Cultivation of Fruit	1	30	0	30	5	0	5	35		
f) Spices	1	30	U	30	J	U	J			
Production and Management technology	1	30	0	30	5	0	5	35		
III Soil Health and Fertility	1	30	U	30	J	U	J	33		
Management										
Production and use of organic inputs	1	30	0	30	5	0	5	35		
Soil and Water Testing	1	30	0	30	5	0	5	35		
IV Livestock Production and Managem		30	U	30	J	U	J	33		
Disease Management	1	0	30	30	0	5	5	35		
Feed management	1	30	0	30	5	0	5	35		
V Home Science/Women empowermen		30	U	30	J	U	J	33		
Income Generation activities for	L									
empowerment of rural women	1	0	30	30	0	5	5	35		
Value addition	1	0	30	30	0	5	5	35		
	1	U	30	30	U	3	J	33		
VI Agril. Engineering Installation and maintenance of micro										
	1	30	0	30	5	0	5	35		
irrigation systems Small scale processing and value										
addition	1	30	0	30	5	0	5	35		
VII Plant Protection										
Integrated Pest Management	2	60	0	60	10	0	10	70		
		00	U	00	10	U	10	70		
X Capacity Building and Group Dynamics										
Group dynamics	1	30	0	30	5	0	5	35		
	I	30	U	30	J	U	J	33		
Development Entrepreneurship of practicing farmers/youths	1	00	30	30	0	5	5	35		
TOTAL	14	300	120	420	50	20	70	400		
(B) RURAL YOUTH	14	300	120	4 ∠ U	υU	2 U	70	490		
Integrated farming	1	20	0	20	5	0	5	25		
TOTAL	1	20 20	0	20 20	ა 5	0	ວ 5	25 25		
	I	4 U	U	4 U	J	U	J	23		
(C) Extension Personnel	1	15	E	20	ე	2	F	25		
Integrated pest management	1	15	5	20	3	2	5	25 29		

TOTAL	1	15	5	20	3	2	5	25
G. Total	16	335	125	460	58	22	80	540

B) OFF Campus

			No. of	Parti	cipants		
No. of Courses		Others			SC/ST		Grand Total
	Male	Female	Total	Male	Female	Total	
1	30	0	30	5	Ω	5	35
l 	30	U	30	J	U	J	- 33
1	30	Λ	3∩	5	Λ	5	35
Į.	30	U	30	J	U	J	55
1	30	0	30	5	0	5	35
1	20	0	20	5	Λ	5	35
ı	30	U	30	J	U	3	33
1	30	0	30	5	0	5	35
lanageme	nt					•	
1	30	0	30	5	0	5	35
1	0	30	30	0	5	5	35
werment							
1	0	30	30	0	5	5	35
1	Λ	20	20	^	E	E	25
l	U	30	30	U	j 5	Э	35
1	0	30	30	0	5	5	35
1	20	0	20	E		E	25
l	30	U	30	Э	U	Э	35
1	20	0	20	F	0	E	25
l	3 U	U	30	၁	U	Э	35
1	30	0	30	5	0	5	35
2	60	0	60	10	0	10	70
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Courses Male 1 30 1 30 1 30 1 30 1 30 1 30 1 0 0 1 0 1 0 1 0 1 0 1 0 1 30 1 30 1 30 1 30 1 30 1 30 1 30 1 30 1 30 1 30 1 30	No. of Courses Male Female 1 30 0 1 30 0 1 30 0 1 30 0 1 30 0 1 30 0 1 0 30 owerment 1 0 30 1 0 30 0 1 30 0 0 1 30 0 0 1 30 0 0 1 30 0 0	No. of Courses Male Female Total 1 30 0 30 1 30 0 30 1 30 0 30 1 30 0 30 1 30 0 30 1 30 0 30 1 0 30 30 1 0 30 30 1 0 30 30 1 0 30 30 1 0 30 30 1 30 0 30 1 30 0 30 1 30 0 30 1 30 0 30 1 30 0 30	No. of Courses Male Female Total Male 1 30 0 30 5 1 30 0 30 5 1 30 0 30 5 1 30 0 30 5 1 30 0 30 5 1 30 0 30 5 1 0 30 30 0 0 30 30 0 0 1 0 30 30 0 0 30 30 0 0 1 0 30 30 0 1 0 30 30 0 1 30 0 30 5 1 30 0 30 5 1 30 0 30 5 1 30 0 30 5 1 30 <td> Name Female Total Male Female </td> <td>No. of Courses Male Female Total Male Female Total </td>	Name Female Total Male Female	No. of Courses Male Female Total Male Female Total

TOTAL	1	15	5	20	3	2	5	25
Integrated disease management	1	15	5	20	3	2	5	25
(C) Extension Personnel								
TOTAL	0	0	0	0	0	0	0	0
(B) RURAL YOUTH	0	0	0	0	0	0	0	0
TOTAL	18	390	150	540	65	25	90	630
Formation and Management of SHGs(HS)	1	00	30	30	0	5	5	35
Leadership development	1	30	0	30	5	0	5	35
X Capacity Building and Group Dynamics								
Bio-control of pests and diseases	1	30	0	30	5	0	5	35

C) Consolidated table (ON and OFF Campus)

	No. of	No. of Participants									
Thematic Area	Courses		Others	······································		SC/ST	-	Grand			
	Courses	Male	Female	Total	Male	Female	Total	Total			
(A) Farmers & Farm Women											
I Crop Production											
Resource Conservation	1	30	0	30	5	0	5	35			
Technologies	I	30	U	30	J	U	J	33			
II Horticulture											
a) Vegetable Crops											
Protective cultivation (Green Houses,	1	30	0	30	5	0	5	35			
Shade Net etc.)	l	30	U	30	J	U	3	33			
b) Fruits											
Cultivation of Fruit	1	30	0	30	5	0	5	35			
Export potential fruits	1	30	0	30	5	0	5	35			
f) Spices											
Production and Management	2	60	0	60	10	0	10	70			
technology	2	60	U	00	10	U	10	70			
III Soil Health and Fertility											
Management											
Production and use of organic inputs	1	30	0	30	5	0	5	35			
Soil and Water Testing	2	60	0	60	10	0	10	70			
IV Livestock Production and											
Management											

Disease Management	1	0	30	30	0	5	5	35
Feed management	1	30	0	30	5	0	5	35
V Home Science/Women								
empowerment								
Income Generation activities for	1	0	30	30	0	5	5	35
empowerment of rural women	ı	U	30	30	U	5	3	33
Value addition	2	0	60	60	0	10	10	70
Location specific drudgery reduction	1	0	30	30	0	5	5	35
technologies							J	
Household food security by kitchen	1	0	30	30	0	5	5	35
gardening and nutrition gardening	•							
VI Agril. Engineering								
Installation and maintenance of	2	60	0	60	10	0	10	70
micro irrigation systems	_							
Repair and maintenance of farm	1	30	0	30	5	0	5	35
machinery and implements	•							
Small scale processing and value	1	30	0	30	5	0	5	35
addition	-					_		
Post Harvest Technology	1	30	0	30	5	0	5	35
VII Plant Protection								
Integrated Pest Management	4	120	0	120	20	0	20	140
Bio-control of pests and diseases	1	30	0	30	5	0	5	35
X Capacity Building and Group								
Dynamics								
Leadership development	1	30	0	30	5	0	5	35
Group dynamics	1	30	0	30	5	0	5	35
Formation and Management of SHGs (HS)	1	0	30	30	0	5	5	35
Entrepreneurial development of	4		20	20	_	F	F	25
farmers/youths (Agro.)	1	0	30	30	0	5	5	35
TOTAL	32	690	270	960	115	45	160	1120
(B) RURAL YOUTH								
Integrated farming	1	20	0	20	5	0	5	25
TOTAL	1	20	0	20	5	0	5	25
(C) Extension Personnel								
Integrated Pest management	1	15	5	20	3	2	5	25
Integrated Disease management	1	15	5	20	3	2	5	25
TOTAL	2	30	10	40	6	4	10	50
G. Total	35	740	280	1020	126	49	175	1195
Dotails of training programmes attached in An			L	.1	L		.1	

Details of training programmes attached in Annexure -I

3.4. Extension Activities (including activities of FLD programmes)

Nature of	No. of activitie		Farmer	'S		xtensio Officials			Total	
Extension Activity	S	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	200	20	220	10	0	10	210	20	230
Kisan Mela	2	600	150	750	25	5	30	625	155	780
Kisan Ghosthi	2	50	0	50	0	0	0	50	0	50
Exhibition	1	300	50	350	5	0	5	305	50	355
Film Show	1	100	0	100	0	0	0	100	0	100
Farmers Seminar	3	300	80	380	2	0	2	302	80	382
Workshop	0	0	0	0	0	0	0	0	0	0
Group meetings	1	40	0	40	0	0	0	40	0	40
Lectures delivered as resource persons	15	750	150	900	5	0	5	755	150	905
Newspaper coverage	10	0	0	0	0	0	0	0	0	0
Radio talks	2	0	0	0	0	0	0	0	0	0
TV talks	1	0	0	0	0	0	0	0	0	0
Popular articles	10	0	0	0	0	0	0	0	0	0
Extension Literature	15	0	0	0	0	0	0	0	0	0
Advisory Services	20	250	20	270	5	0	5	255	20	275
Scientific visit to farmers field	20	300	20	320	0	0	0	300	20	320
Farmers visit to KVK	50	2500	500	3000	50	10	60	2550	510	3060
Diagnostic visits	10	200	0	200	5	0	5	205	0	205
Exposure visits	2	100	0	100	0	0	0	100	0	100
Ex-trainees Sammelan	2	100	50	150	0	0	0	100	50	150
Soil health Camp	1	200	30	230	2	0	2	202	30	232
Animal Health Camp	1	100	50	150	1	0	1	101	50	151
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	3	150	30	180	0	0	0	150	30	180

Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	0	0	0	0	0	0	0	0	0	0
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0
Celebration of important days (specify)	3	300	150	450	5	0	5	305	150	455
Krishi Mohostva	2	2500	500	3000	20	5	25	2520	505	3025
Krishi Rath	0	0	0	0	0	0	0	0	0	0
Pre Kharif workshop	1	200	50	250	2	0	2	202	50	252
Pre Rabi workshop	1	200	50	250	2	0	2	202	50	252
PPVFRA workshop	1	200	0	200	25	0	25	225	0	225
Any Other (Specify)	0	0	0	0	0	0	0	0	0	0
Total	190	9640	1900	11540	164	20	184	9804	1920	11724

3.5 Target for Production and supply of Technological products SEED MATERIALS

SI. No.	Crop	Variety	Quantity (qtl.)
CEREALS			
	Wheat	GW-366	40
OILSEEDS			
	Groundnut	GG-20, GJG-31	70
	Sesame	GT-3/4	3
PULSES			
	Chickpea	GG-3/GJG-5	8
VEGETABLES			
OTHERS (Specify)			

PLANTING MATERIALS

SI. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Papaya	Madhubindu	500
SPICES			
VEGETABLES			
	Brinjal	GJB-3	3000
	Chilli	Resham Patta	1000
	Tomato	GT-1	1000
FOREST SPECIES			
ORNAMENTAL CROPS			
		Total	5500

Bio-products

SI. No.	Product	Species	Q	luantity	
	Name		No	(kg)	
BIO PESTICIDES					
1	Tricodermma	harzenium	300	1000	
2	Beauveria bassiana		600	5000	

LIVESTOCK

SI. No.	Туре	Breed	Qua	ıtity	
			(Nos)	Unit	
Cattle					
GOAT					
SHEEP		NIL			
POULTRY					
Pig farming					
FISHERIES					

3.6. Literature to be Developed/Published

(A) KVK News Letter

Date of start : 1 April 2016

Number of copies to be e-published : 4

(B) Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	4
2	Technical reports	150
3	News letters	4
4	Training manual all discipline	0
5	Popular article	10
6	Extension literature	15
	Total	183

(C) Details of Electronic Media to be Produced

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

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) Field level observations
- c) Farmer group discussions

Rural Youth

- a) PRA
- b) Field level observations

c) Farmer group discussions

In-service personnel

- a) Field level observations
- b) Extension worker group discussions

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

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) - from 2015

Sr.	Name of village	Name of Taluka
No.		
1	Kerala(Jogani)	Lathi
2	Harsupur Devaliya	Lathi
3	Saladi	Liliya
4	Jatruda	Liliya
5	Vaandaliya	Babra
6	Lunidhaar	Kukavav
7	Haalariya	Bagasra
8	Ditla	Dhari
9	Babapur	Amreli
10	Shedubhar	Amreli
11	Vaankiya	Amreli
12	Lakhapadar	Khambha

13	Nesdi	Savarkundla
14	Oliya	Savarkundla
15	Maandardi	Rajula

- ii. No. of farm families selected per village : Whole farm families of the adopted villages
 - iii. No. of survey/PRA conducted : one
 - iv. No. of technologies taken to the adopted villages
- v. Name of the technologies found suitable by the farmers of the adopted villages: New and Improved

Varieties of major crop of district, IPM and INM in major crops of this area, motivate the farmers for arid

Horticultural Crops, to create the awareness for grading, processing and marketing the agricultural produce,

farm mechanization, organic farming, MIS

- 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 : March-2011

2. List of equipments purchase with amount

SI. No.	Name of the equipment	Quantity	Cost (Rs)
1	Spectrophotometer	1	39480
2	Flame Photometer	1	44887
3	pH meter	1	3990
4	Conductivity bridge	1	9450
5	Physical balance	1	45066
6	Water Distillation steel	1	157000
7	Shaker	2	49000
8	Refrigerator	1	19200
9	Oven	1	15215
10	Hot plate	1	4725

3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	500	500	100	100000
Water	300	300	50	15000
Plant				
Total	800	800	150	115000

4.0 LINKAGES

4.1 Functional linkage with different organizations

SI.N	Name of organization	Nature of Linkage
0.		
1.	Dy. Director of Agriculture.	Farmers Training, Diagnostic services
2.	Dy. Director of Agril. Extension (FTC)	Resource person in Lectures
3.	Dy. Director of Horticulture	Resource person in Lectures
4.	Dy. Director of Animal Husbandry	Sponsored training
5.	Dy. Director of Soil Conservation	Resource person in Lectures
6.	Dy. Director of Social Forestry	Resource person in Lectures
7.	Amreli Jilla Madhya sahakari bank	Resource person in Lectures
8.	Milk Co-Operative Society	Resource person in Lectures
9.	State Bank of India	Resource person in Lectures
10.	National Bank for Agriculture & Rural	Resource person in Lectures
	Development (NABARD)	
11.	NHRDF	Sponsored Training, Resource person
		in Lectures
12.	Doordarshan Kendra	Media coverage
13.	All India Radio	Radio talk
14.	District Rural Development Agency	Sponsored Training, Resource person
		in Lectures
15.	ATMA	Sponsored Training, Resource person
		in Lectures, meeting
16.	Mahindra & Mahindra Co. Ltd.	Sponsored Training, Resource person
		in Lectures

4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

S. No.	Programme	Nature of linkage
1	All the extension activities of	Meeting, Demonstration and Training, as a
ı	district, Amreli	technical expert

4.3 Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	Farmers training	as resource person

4.4 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1	NIL	
2		

5.0 Utilization of hostel facilities

S. No.	Programme	No. of days
1	Sponsored Training	45
2	Exposure visit to KVK	15
3	Scientist	25
	Total	85

6.0 Convergence with departments:

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

Crop	Variety/Input	Farmers' reaction
Gram	GG-3	▶ High Yield Variety▶ Bold seeded Variety▶ Stunt virus resistant Variety
Cumin	GC-4	► Research needs on cumin wilt disease
Wheat	GW-366	► Seed provided was healthy with good germination► Grain quality is good for higher market price
Soybean	GS-3	► Higher yielding variety and less infestation of pest and disease
Groundnut	Trichodermma	► Better control of stem rot, when applied for long term
Groundnut	GG-9	▶ Higher production▶ Less stem rot problems▶ Quality of seed is good
Sesame	GT-3	► Bold seeded, whiteness more and higher production then other varieties ► Better for Summer cultivation
Cotton	INM	► Less reddening of leaves
Cotton	G.Cot-6(bt)	➤ Greening up to last stage
Castor	GCH-7	► Resistance to wilt
Cotton	Beauveria bassiana	▶ Better control of pests ▶ Economic to other chemical pesticides

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

Horticulture: GJO-3 variety of okra is high yielding variety but it become yellow in color during maturity so get less market price.

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele Title of the training programme		Durati		ımbe			nber		_G.	
		programme	on in		ticipa	ants	ļ	C/ST	· •	Tota	
			days	M	F	Τ	M	F	Т	l	
Crop Produ			•	7	7	7	т		·	r	
12/04/2017		Importance of Soil Analysis	4	30	0	30	5	0	5	35	
09/01/2018	PF	Registration process of organic farming	4	30	0	30	5	0	5	35	
Horticulture	•										
08/05/2017	PF	Production technology of Lime and banana	4	30	0	30	5	0	5	35	
08/08/2017	PF	Production technology of Cumin and Coriander	4	30	0	30	5	0	5	35	
Livestock p	rod.	.1	. <u>i</u>	i	i	i	ii		. <u>i</u>	i	
28/09/2017	FW	Care and Management of mastitis in dairy animals	4	0	30	30	0	5	5	35	
05/12/2017	PF/FW	Methods to improve milk productivity	4	30	0	30	5	0	5	35	
Agril. Engg.	<u>.</u>	d.		<u> </u>	<u>.</u>	<u></u>	<u>.</u>			<u>.</u>	
10/04/2017	PF	Installation and maintenance of Drip irrigation	4	30	0	30	5	0	5	35	
06/09/2017	PF	Small scale processing and value addition	4	30	0	30	5	0	5	35	
Home Sc.	<u></u>	.d.	<u></u>	<u> </u>	<u>.</u>	<u></u>	<u></u>		. <u>.</u>	<u>.</u>	
26/05/2017	FW	Preparation of different types of bakery products(Piza base, Nan- khatai, Cake, Biscuits etc)	4	0	30	30	0	5	5	35	
04/07/2017	FW	Preparation of value added products from Soybean	4	0	30	30	0	5	5	35	
Plan prot.											
01/05/2017	PF	Integrated Management for the control of white grub in ground nut	4	30	0	30	5	0	5	35	
15/05/2017	PF	Integrated Management for the control of pink bollworm in cotton	4	30	0	30	5	0	5	35	
Extension E	du.		·								
18/07/2017	PF	Group dynamics	4	3	0 0) 3	0 5	5 ()	5 35	

		Development								
24/10/2017	PF/RY	Entrepreneurship of	4	30	0	30	5	0	5	35
		practicing farmers/youths								

i) Farmers & Farm women (Off Campus)

Date	Client ele	Title of the training programme	Durati on in			er of		Number of SC/ST				i. ta
		•	days	M	F	Т	N	1	F	Т	I	
Crop Produc	tion	<u>i</u>	<u>i</u>	i	<u>i</u>							
22/05/2017	PF	To minimize cost of cultivation in kharif crops	4	30	0	30	5	5	0	5	3	5
25/04/2017	PF	Importance of Soil Analysis	4	30	0	30	5	5	0	5	3	5
04/10/2017		Production technology of Onion & Garlic	4	30	0	30	5	5	0	5	3	5
Horticulture												
27/06/2017	PF	Net house technology	4	30	0	30	5	5	0	5	3	5
16/08/2017	PF	Post harvest technology of mango/banana	4	30	0	30	5	5	0	5	3	5
Livestock pro	od.	·	-	±	<u></u>							
25/09/2017	PF/FW	Care and management of Sheep and Goat	4	30	0	30	5	5	0	5	3	5
26/12/2017	PF/FW	Fodder management	4	0	30	30	C)	5	5	3	5
Agril. Engg.	I	<u></u>	<u> </u>	<u> </u>	<u>i</u>			<u>i</u>		. <u>i</u>	.1	
27/04/2017	PF	Rain Water Harvesting	4	30	0	30	5	5	0	5	3	5
	PF	Use of Improved Farm										
19/09/2017		Implement in farm mechanization	4	30	0	30	5	5	0	5	3	5
22/11/2017	PF	Post Harvest Technology	4	30	0	30	5	5	0	5	3	5
Home Sc.		.i	<u> </u>	<u> </u>	i	i		i				
30/05/2017	FW	Work simplification in household activities and Drudgery reduction technologies in agriculture	4	0	30	30	C)	5	5	3	5
12/07/2017	FW	Processing and value addition of Lemon & Aonla	4	0	30	30	C)	5	5	3	5
04/01/2018	FW	Organic kitchen gardening and its importance on health	4	0	30	30	C)	5	5	3	5
Plan prot.												
16/06/2017	PF	Management of Stored Grain Pest	4	3	30	0	30	5	(О	5	35
14/09/2017	PF	IPM in cotton and Ground nut	4	3	30	0	30	5	(О	5	35
03/01/2018	PF	Role of bio agent and	4	3	30	0	30	5	(0	5	3

		botanical pesticides for control of insect pests in agricultural crops								
Extension E	du.									
30/08/2017	FW/RY	Income Generation through secondary agriculture	4	0	30	30	0	5	5	35
08/11/2017	PF/RY	Formation and Strengthening of SHGs	4	30	0	30	5	0	5	35

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust	Training title*	Duration (days)	No. of Participants					G.Total	
Litterprise	Area	uue	(uays)	M	F	T	M	F	Т	
Entrepreneurship	Agril. Engineering	Fabrication of low cost solar cooker	21	15	0	15	5	0	5	20
Entrepreneurship	Home Science	Preservation of fruits and vegetables	8	0	20	20	0	5	5	25

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days		No. d				nber C/ST	G. Total
				M F T		Т	M	F	Т	
On Campus	S	······	•					•		*
07/04/2017	EF	Management of pink bollworm in cotton and white grub in groundnut	2	15	5	20	3	2	5	25
Off Campus	S	·····	•	••••••	•			<u>-</u>		-
10/10/2017	EF	Integrated Pest and disease management in Chickpea	2	15	5	20	3	2	5	25

iv) Sponsored programme

Discipline	Sponsoring agency	Clien tele	Title of the training programme	No. of course		o. c			Number of SC/ST				
					M	F	Т	M	F	Τ			
a) Spons	ored training pro	gdran	ıme	<u>i</u>	<u> </u>	L	<u> </u>						
Plant protection	ATMA SMS	1	Organic Pesticides preparation and its	1	20	0	20	5	0	5	25		

			uses								
Agronomy	PF (SBI)	PF	Balance use of fertilizers	1	20	0	20	5	0	5	25
Horticultur e	Beneficiary of Horti. dept.	PF	Greenhouse Technology	1	45	0	45	5	0	5	50
Extension Edu.	ATMA SMS	PF	Importance of Mass- Media	1	45	0	45	5	0	5	50
Horticultur e	FW/RG (DRDA Amreli)	FW	Importance of Kitchen Gardening	1	0	45	45	0	5	5	50
Agricultur e Engineeri ng	PF (ATMA)	PF	Improved Farm Implements	1	45	0	45	5	0	5	50
Home science	ATMA Amreli	RY	Training on Embroidery	1	0	20	20	0	5	5	25
Plant protection	NGO SMS (SRTT, A'bad)	PF	Integrated Pest Management	1	20	0	20	5	0	5	25
Agronomy	PF (DAO Amreli)	PF	Scientific production of Kharif crops	1	45	0	45	5	0	5	50
Agronomy	PF (AJMS Bank Amreli)	PF	Scientific production of Cotton	1	20	0	20	5	0	5	25
	Amreli)		of Cotton Total	10			20 325				25 375
			of Cotton Total								
	Amreli)		of Cotton Total								
b) Spons	Amreli)	rograi	of Cotton Total mme								