### ANNUAL PROGRESS REPORT (2012-13) (01.04.2012 to 31.03.2013)

### 1. GENERAL INFORMATION ABOUT THE KVK

#### 1.1 Name and address of KVK with Phone, Fax and E-mail

Address	Telephone		E mail	Web Address
Krishi Vigyan Kendra, Junagadh Agricultural University, Targhadia, (Dist.: Rajkot) (Gujarat) - 360 003	Office (0281) 2784170	FAX (0281) 2784170	kvkrajkot@gmail.com	www.jau.in

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

Address		Tel	E mail	
Address		Office	FAX	E IIIaii
Junagadh Agricultural University,		(0285)	(0285)	doo@iou in
Junagadh (Gujarat)	2	672080	2672653	dee@jau.in

1.3 Name of the Programme Coordinator with Phone & Mobile No.

Name	Telephone / Contact					
Name	Residence	Mobile	Email			
Dr. B. B. Kabaria	"Ramdoot" B-17,	09374202518	drbbkabaria@gmail.com			
	Aalap Century, Kalawad Road,					
	Rajkot – 360 005					

**1.4 Year of Sanction**: September – 2004

#### 1.5 Staff Position

Sr. No.	Sanctioned post	Name of the incumbent	Designation	Disci- pline	Pay Scale (Rs.)	Present basic+ G.P. (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	2	3	4	5	6	7	8	9	10
1	Programme Coordinator	Dr. B. B. Kabaria	•	Agril. Ento.	37400- 67000	60140/-	15-9-06	Permanent	General
2	SMS	Dr. J. B. Kathiriya	SMS (Animal. Sci)	Ani Sci.	15600- 39100	21600/-	19-8-06	Permanent	General
3	SMS	Vacant	SMS (Agron.)						
4	SMS	Shri D. A. Saradava	SMS (Pl.Protection)	Agril. Ento.	15600- 39100	309300	27-5-09	Permanent	General
5	SMS	Vacant	SMS (Horti.)						
6	SMS	Shri. D. P. Sanepara		Agri. Eng.	15600- 39100	28980/-	1-6-09	Permanent	General
7	SMS	Mrs. H. H. Padsumbiya	SMS	Home Sci.	15600- 39100	21600/-	17-8-06	Permanent	General
8	Programme Assistant (Training)	Shri. R. L. Vasoya	Programme Assistant (Training)	B.Sc. Agri.	9300- 34800	20830/-	1-03-13	Permanent	General
9	Computer Programmer	Miss. R. T. Padaliya	Computer Programmer	-	9300- 34800	10000/- Fix	3-1-09	Permanent	General
10	Farm Manager	Shri D.M. Damasia	Programme Assistant / Farm manager	Agril. Ento.	9300- 34800	10000/- Fix	21-1-12	Permanent	General

11	Acc. / Sup.	Vacant	Offi. Sup. Cum A/c. Officer	-					
12	Steno- grapher	Shri B. J. Lalkiya	Junior Steno	-	9300- 34800	17190/-	01-5-07	Permanent	General
13	Driver	Shri B. K. Gondaliya	Jeep Driver- Cum Mechanic	-	5200- 20200	15560/-	11-9-08	Permanent	OBC
14	Driver	Shri D. K. Makwana	Jeep Driver- Cum Mechanic	-	5200- 20200	15520/-	01-7-06	Permanent	OBC
15	Supporting staff	Smt.U.G Zala	Supporting Staff	-	4440- 7440	8650/-	16-9-04	Permanent	General
16	Supporting staff	Shri Y. B. Joshi	Supporting Staff	-	4440- 7440	9420/-	2-6-09	Permanent	General

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

Sr. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	3.50
3.	Under Crops	14.00
4.	Orchard/Agro-forestry	1.00
5.	Others	0.50
	Total	20.00

### 1.7 Infrastructural Development:

### A) Buildings

		Source			Stag	ge			
Sr.		of	C	Complete			Incomplete		
No	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expe- nditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction	
1.	Administrative Building	KVK	31-3-2011	550	5500000	-	-	-	
2.	Farmers Hostel	KVK	31-3-2011	305	3000000	-	-	-	
3.	Staff Quarters (6)	KVK	31-3-2011	400	4000000	-	-	-	
4.	Poly House	RKVY	31-3-09	320	281602	-	-	-	
5	Net House	RKVY	31-3-09	150	64498	-	-	-	
6.	Store room	RKVY	9-2-10	70.61	454500	-	-	-	
7.	Training hall	RKVY	11-2-10	190.99	1395800	-	-	-	
8.	Processing plant	RKVY	11-2-10	197.31	1536400	-	-	-	
9.	Implement shed	RKVY	9-2-10	77.33	297800	-	-	-	
10	Farm Godown	KVK	2012	-	400000				

### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Toyota Qualis	2004	590000	-	Working at Junagadh on pooled basis
Tata Sumo	2008	600000	180262	Working, Purchase from MP grant
Motorcycle	2010	50000	18086	Working

### C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Generator set	2002	24900	Working
Color TV (Akai) with Remote	2002	13850	Working
Panasonic PT LC 50 LCD Project	2002	164368	Working
PA Audio Vision System	2002	20000	Working
Computer System Intel Pentium IV	2003	32000	Working
Computer Wipro Super Genius Desktop	2006	-	Working
Electronic Kelvinator Refrigerator	2006	10,500	Working
Solar steel digital water plant	2006	45000	Working
Balaji Bio Gas Plant	2007	32000	Working
Aspee Tractor Mounted Sprayer	2007	32000	Working
Laptop Computer (HCL)	2008	47500	Working
Air Assisted Blower type sprayer	2009	98750	Working
Photo copier Machine (Richo)	2009	115300	Working
LCD Projector with ceiling mount kit Model-PT-	2009	92155	Working
CB50NTE-2GA (Panasonic)			
DVD Home theater system with Speaker (HCL)	2009	28000	Working
LCD TV 22" Model- 22LG30 (L. G.)	2009	27287	Working
Cotton stalk Shredder	2009	121000	Working
Groundnut Digger-Tractor Operated	2009	78500	Working
Cultivator cum Rotavator	2009	90000	Working
Groundnut Decorticator	2009	95850	Working
Multi crop Thresher	2009	114000	Working
Processing Unit	2009	1685000	Working
Plantar – tractor operator	2009	44000	Working
Digital Camera (Nikon) P- 90 12.1	2010	24300	Working

### 1.8. Details of SAC meeting conducted in the year-2012 (Date: 09-4-2012)

3	•	,
Name and Designation of Participants	Salient Recommendations	Action taken
<ol> <li>Dr. A. M. Parakhia,         Director of Extension Education,         JAU, Junagadh</li> <li>Dr. I. U. Dhruj, ADR, JAU, Junagadh</li> <li>Dr. M. N. Popat,         Asso. Director. of Extn. Education,         JAU, Junagadh</li> </ol>	FLD on Solar energy equipment like solar cooker should be given in cluster base through support from GEDA or ATMA	FLD conducted during
<ol> <li>Dr. K.N. Akbari,         Res.Sci. (DF), MDFRS, Targhadia</li> <li>ShriH. Agatha, DAO, Rajkot</li> <li>Shri J.D. Patel,         Dy. Director of Horticulture, Rajkot</li> <li>Shri Karansinh Solanki,         Station Director, Doordarsan</li> </ol>	Invite the officer from nationalized bank in on/off campus training for information regarding their Agricultural schemes for farmers"	Invited in related programme and they were remained present
Kendra, Rajkot 8. Shri V.K.Dholariya, Programme Executive, All India Radio, Rajkot 9. Dr. V.S. Ajudia, Assit. Director of A.H., Rajkot	Training programmes of fodder crops for animal should be added in action plan.	

10.Dr. P. B. Kundaria, Assistant	Method of showing and	
Manager, Gopal Dairy, Rajkot		reflected in action plan.
11.Shri P.N.Patnaliya,	components should be	
12.Dr. B. B. Kabaria,	included instead of	
PC, KVK, Targhadia	varietal component	
13.Shri D.B. Dadhania,	particularly for Cumin	
District Coordinator,	(GC-4) and Green gram	
Bank of Baroda, Rajkot	(GM-4)	
14.Shri J.H. Raval,		
Project manager,		
District Industries Centre, Rajkot		
15.Shri Virenra Aggarwal,	More emphasis should	
DRDA, Rajkot	be given for FLDs on soil	Implemented
16.Shri B.B.Rethdiya,	health management and	
Bioges Supervisor,	integrated plant/crop	
Gujrat Agro Industries	management.	
Corporation Ltd. Rajkot		
17.Smt. Jyoshnaben A. Vekariya,		
Progressive Farm Women, Metoda		
18.Miss Purviben M. Topia,		
Rural Youth, Madharvada		
19.Shri Babubhai D. Ramani,		
Progressive Farmer, Khorana		
20.Shri Jyantihai L.Lunagariya,		
Progressive Farmer, Sarpadad		
21.Shri Bhagvanjihai R. Topiya,		
Progressive Farmer, Magharvada		

### 2. <u>DETAILS OF DISTRICT</u>

# 2.1. Major farming systems/enterprises (based on the bench mark analysis made by the KVK)

Sr. No	Farming system/enterprise
1	Groundnut – Wheat/ Cumin, Cotton – Summer Groundnut/ Pulse crop/sesame
2	Dairy product
3	Farm Waste Management specially for cotton stalk
4	Fruit and Vegetable Preservation
5	Value addition in Groundnut, Til and Bajra

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

Sr. No	Agro- climatic Zone	Characteristics
1.	North	The total geographical area of North Saurashtra Agro Climatic Zone is
	Saurashtra	35.2 Lacs ha. Out of total area, 73.40 per cent area falls under arid
	Agro Climatic	and semi-arid region. The soils of this zone are shallow to moderately
	Zone (VI)	deep. The soils of Rajkot district is low in their availability of nitrogen
		while medium in phosphorus and high in available potash except the
		available phosphorus and potash is in medium category in adopted
		villages. Monsoon commences usually by the end of June and
		withdraws by middle of September. Average annual rainfall of districts
		is 624 mm while 404.8 mm during 2012-13.

Sr.	Agro ecological situation	o ecological situation Characteristics			
No					
1.	Situation No. 2	Medium Black Soil with 500-600 mm Rainfall	Gondal, Jamkandorna		
2.	Situation No. 4	Shallow black soil with 500-600 mm Rainfall	Lodhika, Padadhari, Rajkot, Kotada sangani		
3.	Situation No. 7	Residual Sandy Soils with 500-600 mm Rainfall	Morbi, Vankaner, Tankara, Maliya		
4.	Situation No. 14	Hilly Soils with 500-600 mm Rainfall	Jasdan		

<sup>•</sup> Jetpur, Dhoraji and Upleta Taluka falls under the South Saurashtra (VII) Agro – Climatic Zone

### 2.3 Soil types

Sr. No	Soil type	Characteristics	Area in ('000) ha
1.	Clay to clay loam	Medium black calcareous soil	258
2.	Sandy Clay Loam to Clayey	Well drained soil with rapid permeability	301
	Sandy to Sandy 10 cm, Calcareous	Well drained soils	

### 2.4. Area, Production and Productivity of major crops cultivated in the district (2011-12)

Sr. No	Crop	Area (ha)	Production (MT)	Productivity (Kg. /ha)
1.	Groundnut	268510	390495	1454
2.	Cotton	365441	924530	2530
4.	Sesamum	22217	9486	427
5.	Castor	16325	35141	2152
6.	Pearl Millet	4227	8974	2123
1.	Wheat	108355	395239	3648
3.	Cumin	26490	19097	721
6.	Gram	6798	11415	1679

### 2.5 Weather data (2012-13)

Month	Dainfall (mm)	Tempera	Temperature <sup>o</sup> C			
WIOHTH	Rainfall (mm)	Maximum	Minimum	Humidity (%)		
April – 2012	-	42.4	20.0	76.46		
May – 2012	-	42.3	24.0	80.48		
June – 2012	96.7	40.8	23.5	84.13		
July – 2012	45.4	39.3	23.0	85.61		
August -2012	26.7	35.6	23.0	84.64		
September- 12	236.0	34.6	22.2	92.00		
October- 2012	-	37.1	20.0	73.74		
November-2012	-	34.8	17.0	66.83		
December-2012	-	34.1	10.2	72.12		
January – 2013	-	41.3	9.4	59.00		
February – 2013	-	35.5	8.8	49.04		
March – 2013	-	39.7	17.2	44.76		
	404.8					

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

Category	Population ('000 Nos.)		Production ('000 tone)	Productivity
1	2		3	4
Cattle				
Cows	452		3326.90	
Buffalo	362		5284.70	
Sheep	263.40	26	6.81(Production of wool)	
Goats	197		231.24	
Pigs	1			
Crossbred				
Indigenous				
Rabbits				
Poultry			(Production of eg	gs in Lakh Nos.)
Hens				
Desi	7.8		3.92	
Improved	13.4		32.52	
Ducks				
Others				
Horse and Camel				
Dogs	9			

### 2.7 Details of Operational area / Villages

Sr.	Taluka	Name of	Name of	Major crops	Major problem	Identified Thrust			
No.		the block		& enterprises	identified	Areas			
			Jasapar	*Groundnut,	Heavy infestation				
	loodon	Chroton	Jivapar	Cotton,	of sucking pest in	major crops of			
1	Jasdan	Cluster	Jungvad	Sesamum,	cotton, leaf blight				
		ı	Panchvada	Green gram,	disease in	* Increase drainage			
			Gundala	Black Gram.	sesamum and	of soil			
				Wheat,	Stem rot disease	* Use of gypsum in			
			Chachapar	Cumin,	in Groundnut,	soil			
	Morbi	01 1	Rajpar	Chickpea,	Saline * Green manuring				
2		Cluster II	Khanpar	Garlic, Onion. *Enterprises	underground water, Black	with dencha, sun hemp			
			Nani-Vavdi	are dairy	sticky soil & poor	* Reducing the			
			Bagathala	business,	drainage of soil,	inter-			
			Vejalpar	vermi	Long inter-	calving period in			
			Sarvad	composting, preparation of	calving period in Buffalo,	Buffalo * Motivate the			
				roasted	Nutritional	farmers for arid			
			Manaba	groundnut and		Horticultural			
	Maliya	Cluster	Kumbhariya	chikki from	animal feed and	crops.			
3	ivialiya	III	Khirai	groundnut	fodder, Less area	•			
				seed.	under	awareness for			
					Horticultural	grading,			
					crops.	processing and			
						marketing (value			
						addition)			

### 2.8 Priority thrust areas

Crop/Enterprise	Thrust area							
Groundnut, Sesamum etc	Increasing the productivity of the major crops by adopting the recommendation of dry farming technologies and to create awareness for value addition.							
Water conservation	In situ soil moisture conservation and rainwater harvesting. Use of cotton stalk for organic manure.							
Cotton	Motivating cotton growers to adopt IPM and INM practices for reducing the cost of production.							
Arid Fruits	Promoting the arid horticulture.							
Livestock prod.	Enhancing productivity of milch animals by proper feeding and breeding management.							
women	Providing self employment through skill oriented income generating							
empowerment	activities							
Agriculture	Developing interest among youth for agriculture as a profession.							
Horticulture	Value addition in agriculture produces through proper grading, processing, marketing and information technology.							
PHT	Minimizing the post harvest losses and to create the awareness for proper storage.							
Income	Self employment among rural youth and skill oriented income							
generating	generating activities.							
activities								
Nutrition	Care and importance of nutrition in children & pregnant women.							
management								

### 3. TECHNICAL ACHIEVEMENTS

### 3.A Details of target and achievements of mandatory activities by KVK during 2012-13

OFT				FLD			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs (Area in ha.)		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
5	5	54	54	26.0	28.0	100	105

Training (in trainings car		Extensior	n Activ	vities .				
		3					4	
Num	Number of Participants		Number of activities		Number of Participants			
Clientele	Targets	Achievement	Т	Α	Т	Α	Т	Α
Farmers	77	66	1925	2047	-	-	-	-
Rural youth	3	2	75	94	-	-	-	-
Extn.	3	5	75	140	-	-	-	-
Functionaries								
Total	83	73	2075	2281	-	375	-	12936

Seed Pro	oduction (Qtl.)	Planting material (Nos.)			
	5	6			
Target	Achievement	Target	Achievement		
-	27.10	-	-		

### 3.B Abstract of interventions undertaken

				Interventions					
S. N.	Thrust area	Crop/ Enter- prise	Identified Problem	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for ext. personnel if any	Extensi on activi- ties	Supply of seeds, planting materials etc.
1	2	3	4	5	6	7	8	9	10
1	To minimize age at first calving (AFC) in heifers	Live stock	Late age at first calving -Loss in production	Reduction in age at first calving (AFC) in heifers	-	Optimizing reproductive efficiency & to reduce age of 1st calving (AFC)	-	Group meeting	<ul><li>Medicine</li><li>Horse gram</li><li>Mineral mixture</li></ul>
2	Increase the productivity of cotton	Cash crop	Imbalance fertilization in cotton	Low yield of cotton	-	Balance fertilization in cotton	-	Field day/ Kishan gosti	Fertilizers specially micro nutrient
3	Increase the productivity of cotton	Cash crop	incidence of sucking pest in cotton	Managemen t of sucking pests in cotton	-	IPM in cotton	-	Group Meet./ Field day	Pesticides Specially botanicals and bio.
4	Increase the productivity of groundnut	Oil seeds	Low moisture content due to rain fed farming	Low yield of Groundnut due to improper tillage practice	-	Soil moisture conservation	-	Group meeting	Recommended practices for watershed management
5	Care and importance of nutrition in adolescent girls	Home science	Low Hemo- globin	Managemen t of Anemia in adolescent girls.	-	-	-	Group Meeting	Gram and black sesamum

### 3.1 Achievements on technologies assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vege- tables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
1	2	3	4	5	6	7	8	9	10	11
Varietal										
Evaluation										
Seed / Plant										
production										
Weed										
Management.										
Integrated										
Crop Manag.										
Integrated										
Nutrient				1						1
Management										
Integrated										
Farming										
System										

Mushroom					
cultivation					
Drudgery					
reduction					
Farm					
machineries					
Value addition					
Integrated					
Pest		1			1
Management					
Integrated					
Disease					
Management					
Resource	1				
conservation					1
technology					
Small Scale					
income					
generating					
enterprises					
Home Science					1
TOTAL	1	2			4

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vege- tables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
1	2	3	4	5	6	7	8	9	10	11
Varietal										
Evaluation										
Seed / Plant										
production										
Weed										
Management										
Integrated										
Crop										
Management										
Integrated										
Nutrient				1						1
Management										
Integrated										
Farming										
System										
Mushroom										
cultivation										
Drudgery										
reduction										
Farm										
machineries										
Value addition										
Integrated										
Pest				1						1
Management										
Integrated										
Disease										
Management										
Resource										
conservation		1								1
technology										
Home Science										1
TOTAL		1		2						4

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitary	<b>Fisheries</b>	TOTAL
Evaluation of Breeds	ı	-	-	-	•	-
Nutrition						
Management	•	-	_	-	-	-
Disease of						
Management	-	_	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and	1					1
Management	ı	-	-	-	•	Į.
Feed and Fodder	ı	-	-	-	•	-
Small Scale income						
generating	-	-	-	-	-	-
enterprises						
TOTAL	1	-	-	-	-	1

#### A.4 Abstract on the number of technologies refined in respect of livestock

Thematic areas	Cattle	Poultry	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-
Disease of						
Management	-	_	_	-	-	_
Value Addition	-	-	-	-	-	-
Production and	1					1
Management	I	_	_	-	-	'
Feed and Fodder	-	-	-	-	-	-
Small Scale income						
generating enterprises	-	_	-	-	-	_
TOTAL	1	-	-	-	-	1

#### B. DETAILS OF EACH ON FARM TRIAL (OFT)

#### a. Technology assessment /Refinement

#### OFT - 1

- 1) Title of technology assessed/Refined: Low yield of cotton
- 2) Problem definition: low yield of cotton due to Imbalance fertilization in cotton
- 3) Details of technologies selected for assessment/refinement:
  - T1. Dose of fertilizer 125 kg DAP & 125 kg Urea /ha (Farmer's practices )
  - T2. Dose of fertilizer (160-0-0 NPK kg / ha ) in four split in which second split in form of Ammonium Sulphate (Recommended )
  - T3. T2 + 50 kg P2O5 ha-1 through DAP + 50 kg K2O ha-1 through MOP as a basal dose(intervention)
  - T4. T3 + and 25 kg MgSO4 ha-1 + 10 kg ZnSO4 as a basal dose. (intervention)
- 4) Source of technology: GAU
- 5) Production system: Balance fertilization in cotton
- 6) Thematic area: Balance fertilization in cotton
- 7) Performance of the technology with performance indicators :

Farmer	Name of the	Name of the	Yield ( kg/ha )					
No	farmer	Village	T-1	T-2	T-3	T-4 *	Average	
1	J.A. Gami	Bagthada	1440	1530	1790	1950	1700	
2	P. N. Sardva	Sarvad	1300	1350	1600	1740	1500	
3	KVK -Farm	Targhadia	580	620	610	630	610	
	Average		1107	1167	1333	1440		

<sup>\*</sup> Comparatively less reddening was observed in treatment No.-4

- 8) Final Recommendation for micro level situation: Recommended dose of fertilizer (160-0-0) in four split in which second split in form of Ammonium Sulphate+ 50 kg P2O5 ha-1 through DAP + 50 kg K2O ha-1 through MOP as a basal dose.+ 25 kg MgSO4 ha-1 + 10 kg ZnSO<sub>4</sub> as a basal dose.
- 9) Constrains identified and feedback for research:
  - ✓ Unbalance fertilization
  - ✓ Problems of sucking pest
  - ✓ Lack of knowledge of fertilization
  - ✓ Less use of organic manures in soil
- 10) Process of farmers participation and their reaction: Good

#### 11) Results of on farm trials

/						
Crop/	Farming	Problem	Title of OFT	No of	Technology	Parameters of
enterprise	situation	definition		trials	assessed	assessment
1	2	3	4	5	6	7
Cotton	Irrigated	low yield of cotton due to Imbalance fertilization in cotton	Low yield of cotton	5	Balance fertilization	Yield

Data on the	Results of	Feedback from	Technology	Production per
parameter	assessments	the farmers	assessed/refined	unit
8	9	10	11	12
Acc. to	T1 Farmers		Recommended	14.40 q/ha
parameter 7	practices		dose of fertilizer	
	T2. Recommended		(160-0-0) in four	
	dose of fertilizer		split in which	
	(160-0-0 NPK kg		second split in form	
	/ ha ) in four split		of Ammonium	
	in which second		Sulphate+ 50 kg	
	split in form of		P2O5 ha-1 through	
	Ammonium		DAP + 50 kg K2O	
	Sulphate		ha-1 through MOP	
	T3. T2 +		as a basal dose.+	
	50 kg P2O5 ha-1		25 kg MgSO4	
	through DAP +		ha-1 + 10 kg	
	50 kg K2O ha-1		ZnSO4 as a basal	
	through MOP as a		dose.	
	basal dose			

Net return (Profit) in Rs/Unit	BC Ratio
13	14
T1: 16210	1.51
T2: 23820	1.73
T3: 81502	1.76
T4: 28150	1.83

- 1) Title of technology assessed/Refined : Management of sucking pests in cotton.
- 2) Problem definition
  - ✓ No adoption of recommended practices
  - ✓ Injudicious use of insecticide
- 3) Details of technologies selected for assessment/refinement :
  - T1. Continuous spraying of chemical pesticides. (Farmers practice)
  - T2. IPM: alternate spraying of chemical and bio pesticide and intercropping of maize/cow pea with cotton 1:10 Row (Recommended practice)
  - T3. Spraying of chemical pesticide @ half does of recommendation with bio pesticide i.e. Azadirachtin 1500 ppm or verticillium lecanii and growing of maize / cowpea as mix crop with cotton. (Intervention)
- 4) Source of technology: JAU, Junagadh
- 5) Production system and thematic area: Integrated Pest Management
- 6) Thematic area: Integrated Pest Management
- 7) Performance of the technology with performance indicators :

			Data	on t	he per a			ndicate fined (			echno	ology	
ē	Name of the	Tech	nolog	ју ор	tion 1	Tech	nolog	y opti	on 2	Tech	nolog	y op	tion 3
Farmer No	farmer/ Village	Indicator 1	Indicator 2	Indicator 3	Indicator 4	Indicator 1	Indicator 2	Indicator 3	Indicator 4	Indicator 1	Indicator 2	Indicator 3	Indicator 4
1	KVK Farm Targhadia	708	0.8	1.0	1.2	770	0.5	1.0	8.0	823	0.4	0.8	0.5

Indicator 1: yield of cotton in Kg/ha, Indicator 2: --No. of jassid 3 leaves/plant, Indicator 3: - No. of Thrips / 3 leaves / plant, Indicator 4: No. of white fly / 3 leaves/plant

- 8) Final recommendation from micro level situation: Alternate treatment one and two
- 9) Constrains identified and feedback for research:
  - ✓ No knowledge about the use of particular pesticide for the control of sucking pests, resulted the development of resistance in the pest.
  - ✓ Continuous use of chemical pesticide
  - ✓ Farmer spray insecticide as per instructions given by local pesticides retailer.
  - ✓ Farmer are not aware with bio pesticide.
- 10) Process of farmers participation and their reaction: Satisfactory
- 11) Results of on farm trials

Crop/	Farming		Title of OFT		Technology	Parameters of
enterprise	situation	definition		trials	assessed	assessment
1	2	3	4	5	6	7
Cash crop	Rainfed	incidence of	Management		Management of	<ul> <li>Pest population</li> </ul>
	farming	sucking pest	of sucking	1	sucking pests in	<ul> <li>Yield of cotton</li> </ul>
		in cotton	pests in cotton		cotton	

Data on the	Results of	Feedback from the	Technology	*Production
parameter	assessments	farmers	assessed/refined	per unit
8	9	10	11	12
Acc. to	16 percent	High yield obtain in	Spraying of chemical	7.67 q/ha.
parameter 7	higher yield	Intervention	pesticide @ half does	
	obtain in	High benefit also	of recommendation	
	intervention due	received in spraying	with bio pesticide	
	to lower	of chemical	i.e. Azadirachtin 1500	
	population of	insecticide @ half	ppm or verticillium	
	sucking pest.	dose of	lecanii and growing of	
		recommendation with	maize / cowpea	
		bio pesticide	as mix crop with cotton.	

Net return (Profit) in Rs/ha.	BC Ratio
13	14
T1: 7989	1.35
T2: 9496	1.40
T3: 11098	1.45

- 1) Title of on-farm trials: Low yield in groundnut due to due to improper tillage practice.
- 2) Problem definition:
  - ✓ Shallow ploughing
  - ✓ Lack of knowledge about soil moisture conservation and its importance.
  - ✓ Lack of knowledge regarding proper tillage practice.
- 3) Details of technologies selected for assessment/refinement :
  - T1. Shallow ploughing with 5-6 interculturing (Farmer method)
  - T2. Deep ploughing with 2-3 interculturing (Recommendation)
  - T3. Medium deep ploughing with 3-4 interculturing (Intervention)
- 4) Source of technology: JAU, Junagadh
- 5) Production system and thematic area: Resource conservation technology
- 6) Thematic area: Resource conservation technology
- 7) Performance of the technology with performance indicators :

			Data on the performance indicators of the technology assessed/refined							
N No.	Name of the	Name of	Technology option 1		ame of option 1 option				ology on 3	
Farme	g farmer V	the Village	Indicator 1 (kg/ha)	Indicator 2 (%)	Indicator 1 (kg/ha)	Indicator 2 (%)	Indicator 1 (kg/ha)	Indicator 2 (%)		
1	M.R. Amrutiya	Khanpar	1020	20.90	1200	23.60	1135	22.00		
2	H.M. Rangani	Jangvad	150	18.70	175	21.50	165	20.40		
3	KVK Farm	Targhadia	225	19.80	275	22.40	260	21.50		
	Average		465	19.80	550	22.50	520	21.30		

Indicator 1: Yield of groundnut (kg/ha), Indicator 2: Soil moisture content (%)

- 8) Final recommendation for micro level situation Deep ploughing with 2-3 times interculturing
- 9) Constraints identified and feedback for research; ---
- 10) Process of farmer's participation and their reaction: Farmers aware about benefit of deep ploughing

#### 11) Results of on farm trials:

Crop/	Farming	Problem	Title of OFT	No of	Technology	Parameters of
enterprise	situation	definition		trials	assessed	assessment
1	2	3	4	5	6	7
Oilseed	Rainfed	Low yield of	,		Proper tillage practice	✓ Yield of
	farming		groundnut due		for soil moisture	groundnut
		in rain fed	to improper		conservation and	✓ Moisture
		agriculture	tillage practice		higher yield	percent

Data on the	Results of	Feedback from the	Technology	*Production
parameter	assessments	farmers	assessed/refined	per unit
8	9	10	11	12
parameter 7 y	yield of groundnut was obtained in deep ploughing as compare to shallow	In deep and medium deep ploughing higher yield can be obtained due to higher soil moisture conservation as compare to shallow ploughing in groundnut cultivation.	with 2-3 interculturing.	5.50 q/ha

Net return (Profit) in Rs/Unit	BC Ratio
13	14
T1: 3487	1.15
T2: 8965	1.39
T3: 7260	1.32

- 1) Title of technology assessed/Refined : Management of Anemia in adolescent girls.
- 2) Problem definition:
  - ✓ Girls does not prefer iron rich diet.
  - ✓ Lack of nutritional management
- 3) Details of technologies selected for assessment/refinement:

Category	Source of technology	Technology details
Technology	-	First group for control
Option1		
Technology	-	Iron & folic acid tablets from PHC for first group of
Option2		adolescent girls
Technology	-	Use of gram (50gm) + black sesamum (10gm) for
Option3		second group of adolescent girls

- 4) Source of technology: -
- 5) Production system and thematic area:
- 6) Thematic area: Women and child care
- 7) Performance of the technology with performance indicators :

Trat.	Technology Assessed / Refined	Increase in (3 months)		
		Hemoglobin, %	Body weight (kg)	
T1	Existing Dietary pattern (Control)	0.60	1.0	
T2	Iron & Folic acid tables from PHC	0.78	1.24	
Т3	Dietary iron concentrate (Gram & black sesamum)	1.02	1.65	
	(Gram & black sesamum)			

- 8) Final recommendation from micro level situation:
- 9) Constrains identified and feedback for research:
- 10) Process of farmers participation and their reaction
- 11) Results of on farm trials

Crop/	Farming	Problem	Title of OFT	No of	Technology	Parameters of
enterprise	situation	definition		trials	assessed	assessment
1	2	3	4	5	6	7
Home Science	-	Low Hemo- globin	Management of Anemia in adolescent girls.	3	Feeding of Iron rich diet to adolescent girl in rural for remove Anemia.	<ul> <li>Weight of adolescent girls. (Kg)</li> <li>Hemoglobin of adolescent girls. (%)</li> </ul>

Data on the	Results of	Feedback from	Technology	Production
parameter	assessments	the farmers	assessed/refined	per unit
8	9	10	11	12
Acc. to	Iron & folic acid	-	Use of gram (50gm)	
parameter 7	tables from		+ black sesamum	
	PHC for first		(10gm) for second	
	group of		group of adolescent	
	adolescent girls		girls	

- 1) Title of technology assessed/Refined: Reduction in age at first calving (AFC) in heifers
- 2) Problem definition: Delayed age at maturity in heifers
- 3) Details of technologies selected for assessment/refinement:
  - √ Farmer's practices
  - ✓ Heifers be fed with Deworming bolus + Mineral Mixture (Recommended Practice)
  - ✓ Heifers be fed with Mineral bricks + Zycloze tablets + Horse gram @ 500 gm/day up to one week (Intervention-1)
  - √ T3+ Balanced concentrated diet (Intervention-2).
- 4) Source of technology: GAU
- 5) Production system and thematic area: Livestock enterprise and Production and management
- 6) Thematic area: Production and management
- 7) Performance of the technology with performance indicators:

			Data or	the pe		ance in sessec			ne tech	nology
Farmer No	Name of the	Name of the	Technoptic			ology on 2		ology on 3		ology on 4
Farm	farmer	Village	Indicator 1 in month	Indicator 2 in No.						
1	Farmers method	Jivapar	50-60	3.8- 4.4						
2	Lava Ranchhod	Jasapar								
3	Vallabh Nanji	Jasapar				2.8-				
4	Dinesh Vithhal	Jasapar			46-50	3.8				
5	Shiva Manji	Jivapar				5.0				
6	Velji Manji	Jivapar								
7	Amarshi Natha	Gundala								
8	Lalji hari	Jivapar								
9	Lalji Devraj	Gundala					41-45	2.0-		
10	Ramesh Nagji	Chachapar					11 10	2.8		
11	Babu Gandu	Bagathada								
12	Harkhji Odhavji	Bagathada								
13	Ramesh Harkhji	Bagathada								
14	Mahadev Gandu	Bagathada								
15	Laxman Devji	Chachapar								4.0
16	Karshan Bhagvanji	Chachapa							36-40	1.3- 2.2
17	Ambaram Jivraj	Chachapa								
18	Nitesh Devji	Vavdi-nani								
19	Ansuya shantilal	Vavdi-nani								

Indicator 1 : Age at first calving in month, Indicator 2 : Average No. of Heats required for conception

- 8) Final recommendation for micro level situation : Buffalo heifers should be fed with Mineral bricks + Zycloze tablets + Horse gram @ 500 gm/day + Balanced concentrated diet
- 9) Constrains identified and feedback for research:
  - ✓ Imbalance feeding
  - ✓ Weak estrous
  - ✓ Poor management of heifers

Process of farmers participation and their reaction: Buffalo heifers should be fed with Mineral bricks + Zycloze tablets + Horse gram @ 500 gm/day + Balanced concentrated diet

#### 10) Results of on farm trials

Crop/	Farming	Problem	Title of OFT	No of	Technology	Parameters of
enterprise	situation	definition		trials	assessed	assessment
1	2	3	4	5	6	7
Livestock	Rainfed farming	Delayed age at maturity in heifers	Reduction in age at first calving (AFC) in heifers	4	Reduction in age at first calving (AFC) in heifers	<ul> <li>Age at first calving in month</li> <li>Average No. of Heats required for conception</li> </ul>

Data on the	Results of assessments	Feedback from	Technology	Production
parameter		the farmers	assessed/refined	per unit
8	9	10	11	12
Acc. to	<ul> <li>Heifers be fed with</li> </ul>	-	Buffalo heifers	-
parameter 7	Deworming bolus +		should be fed	
	Mineral Mixture .		with Mineral	
	<ul> <li>Heifers be fed with</li> </ul>		bricks + Zycloze	
	Mineral bricks +		tablets + Horse	
	Zycloze tablets +		gram @ 500	
	Horse gram @ 500		gm/day +	
	gm/day up to one		Balanced	
	week		concentrated diet	

#### 3.2 Achievements of Front Line Demonstrations

### a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2012-13 and recommended for large scale adoption in the district.

Qr.	Sr. Crop	Thematic	Tochnology	Details of	Horizontal sprea		
No	Crop	Area*		popularization methods suggested to the extension system	No. of villa.	No.of farmer	Area in ha
1	2	3	4	5	6	7	8
1	Groundnut	Crop Production	Variety (GG-5)	To test yield potentiality of groundnut	8	10	4.0
2	Sesamum	Crop Production	Variety (GT-2)	To test yield potentiality of Sesamum	5	5	2.0
3	Green gram	Crop Production	Inter cropping (GM-4)	Green gram as a inter crop for minimizing risk factor	4	5	2.0
4	Black gram	Crop Production	Inter cropping (GU-1)	Black gram as a inter crop for minimizing risk factor	3	5	2.0
5	Castor	Crop Production	Variety (GCH-7)	To test yield potentiality of castor	5	5	2.0
6	Groundnut	IPM	ÎPM	Combine approach for management of insect pests and diseases of groundnut (As per DFRS, Targhadia recommendation Schedule –II year 2010)	5	5	2.0
7	Gram	Crop Production	Variety(GG-3)	To test yield potentiality of Gram	4	10	4.0

8	Wheat	Crop Production	Variety (GW-366)	To test yield potentiality of Wheat	4	10	4.0
9	Cumin	Crop Production	Variety (GC-4)	To test yield potentiality of Cumin	5	10	4.0
10	Pearl millet (Summer)	Crop Production	Variety (GHB-538)	To test yield potentiality of Pearl millet	2	10	4.0
11	Groundnut (Summer)	Crop Production	Variety (GG-31)	To test yield potentiality of Groundnut	5	5	2.0
12	Animal Hus.	Fodder Manage- ment	Oat (Kent)	To introduce new fodder crop variety	7	20	2.0
13	Mineral Mixture	Nutrient Manage- ment	Mineral Mixture Powder	To balance the deficiency of minerals in Animal feed	6	10	•
14	Solar energy	Solar energy	solar cooker	To Introduce solar cooker in rural area	10	10	-

### b. Details of FLDs implemented

### Oilseeds

Sr.	Crop	Thematic	recnnology	Season	Area (ha)			ners/ ation	Reaso ns for	
No.	Стор	area	Demonstrated	and year	Proposed	Actual	SC/ ST	Others	Total	short- fall
1		Varietal evaluation	New variety	Kharif - 12	4.0	4.0	-	10	10	ı
2		Varietal evaluation	New variety	Kharif – 12	2.0	2.0	-	5	5	1
3	( iroundhut	Pest management	IPM	Kharif - 12	2.0	2.0	-	5	5	-
4		Varietal evaluation	New variety	Summer -12	-	2.0	-	5	5	-
5	Castor (GCH-7)	Varietal evaluation	New variety	Kharif - 12	2.0	2.0	-	5	5	-

#### **Pulses**

Sr.	Crop	Thematic	Technology	Season	Area (ha)			. of farm monstra	ation	Reasons for short-
No.	Сгор	area	Demonstrated	and year	Propo- sed	Actual	SC/ ST	Others		fall
		Varietal evaluation	Inter cropping	Kharif - 12	2.0	2.0	-	5	5	FLD vitiated
	Green gram (GM-4)	Varietal evaluation	Inter cropping	Kharif - 12	2.0	2.0	-	5	5	due to in sufficient rainfall
-	Gram (GG-3)	Varietal evaluation	New variety	Rabi-11	2.0	4.0	-	10	10	-

### Others

Sr.	I ron		Technology	Season	Area (ha)		No. of farmers/ Demonstration			Reaso ns for
No.	Сгор	area	Demonstrated	and year	Propo- sed	Actual	SC/ ST	Others	Total	short- fall
	Pearl millet (GHB-538)		New variety	Kharif - 12	-	4.0	-	10	10	-

Commercial crops (Cumin & Wheat)

Sr.	Crop	Thematic Technology		Season	Season Area (ha			(ha) No. of farmers/ Demonstration		
No.	No.	area	Demonstrated	year	Propo- sed	Actual	SC/ ST	Others	Total	short- fall
1	Wheat (GW-366)	Varietal evaluation	New variety	Rabi - 11	4.0	4.0	-	10	10	-
2	Cumin (GC-4)	Varietal evaluation	New variety	Rabi - 11	4.0	4.0	-	10	10	-

### **Details of farming situation**

Crop	Season rming situation (RF/Irrigated)		Soil type	Stati	us of	soil	Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
	Se	Farming (RF/Irr	Soi	N	Р	K					
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	Kharif	RF	M. B.	L	М	Τ	Cotton/ G'nut	15/ 6 /12	7/10/12	404.8	21
Sesamum	Kharif	RF	M. B.	L	М	Τ	_"_	15/ 6/ 12	27/ 9/12	404.8	21
Green gram	Kharif	RF	M. B.	L	М	Н	_"_	15/6/12	-	404.8	21
Black gram	Kharif	RF	M. B.	L	М	Н	_"_	15/6/12	-	404.8	21
Castor	Kharif	RF	M. B.	L	М	Н	_"_	15/9/12	10/ 1/ 13	404.8	21
Groundnut	Kharif	RF	M. B.	L	M	Н	_"_	16/6/12	9/ 10/12	404.8	21
Gram	Rabi	Irrigated	M. B.	L	M	Н	_"_	13/11/11	15/ 2/ 12	-	-
Wheat	Rabi	Irrigated	M. B.	L	М	Н	_"_	12/11/11	5/ 3/ 12	-	-
Cumin	Rabi	Irrigated	M. B.	L	М	Τ	_"_	20/11/11	10/ 3/ 12	-	-
Pearl millet (Summer)	Summer	Irrigated	M. B.	L	М	Ι	_"_	22/1/12	3/ 5/ 12	-	-
Groundnut (Summer)	Summer	Irrigated	M. B.	L	М	Η	_"_	2/2/12	6/ 6/ 12	-	-

M. B. – Medium Black

#### **Performance of FLD**

Sr.	Crop	Techno logy	Variety	No. of	Area (ha.)/		mo. Y Qtl/ha		Yield of local	Increas e in
No.	ОГОР	Demons trated	variety	Farmers	No.	Н	L	Α	Check Qtl./ha	yield (%)
1	2	3	4	5	6	7	8	9	10	11
1	Groundnut	Variety	GG-5	10	4.0	3.25	2.37	2.80	2.50	11.5
2	Sesamum	Variety	GT-2	5	2.0	2.50	1.75	2.05	1.87	9.62
3	Green	Inter	GM-4	5	2.0	FLD vitiated due to insufficient rainfall				
3	gram	cropping								
4	Black	Inter	GU-1	5	2.0	FLD	vitiate	ed due t	o insufficient	trainfall
	gram	cropping								
5	Castor	Variety	GCH-7	5	2.0	26.30	2.80	17.14	15.50	10.58
6	Groundnut	IPM	GG-20	5	2.0	24.38	1.20	8.77	8.19	7.08
7	Gram	Variety	GG-3	10	4.0	17.50	14.50	15.88	14.58	8.92
8	Wheat	Variety	GW-366	10	4.0	50.25	42.75	47.18	43.22	9.16
9	Cumin	Variety	GC-4	10	4.0	9.00	6.75	7.93	7.25	9.38
	Pearl	Variety	GHB-538	10	4.0	45.00	40.75	42.90	38.42	11.66
10	millet									
	(Summer)									

11	Groundnut (Summer)	Variety	GG-31	5	2.0	28.25	23.25	26.50	23.95	10.65
12	Oat	New fodder grass variety	Kent	20	2	600	380	490	-	-
13	Mineral Mixture Powder	To fulfill the mineral req. of Animals	Mineral Mixture	10	10	Average milk production 1550 kg./lact. (310 days)		Average milk production 1550 kg./lact. (310 days)	5.06	
14	Solar energy	solar cooker	Box type solar cooker	10	-					

### **Economic Impact (continuation of previous table)**

S.N.	Crop	cultiv	st of vation ./ha)		Return s./ha)	Net Return (Profit) (Rs./ha)		Benefit-Co (Gross R Gross	eturn /
		Demo.	Local Check	Demo.	Local Check	Demo.	Local Check	Demo.	Local Check
12	13	14	15	16	17	18	19	20	
1	Groundnut	17522	15450	19962	18187	-2440	-2737	-0.88	-0.85
2	Sesamum	13682	13812	16850	15370	3168	1557	1.23	1.11
3	Green gram	-	-	-	1	-	-	-	-
4	Black gram	-	-	-	•	-	-	-	-
5	Castor	25975	24750	58533	52932	32558	28182	2.25	2.14
6	Groundnut	26487	25517	49252	47510	22765	21993	1.8	1.7
7	Gram	19550	18875	54627	50155	35077	31280	2.79	2.65
8	Wheat	24075	23625	58975	54025	34900	30400	2.50	2.29
9	Cumin	26125	25375	101782	93054	75657	67679	3.90	3.67
10	Pear millet (Summer)	24532	22760	67550	59942	43018	37182	2.75	2.63
11	Groundnut (Summer)	34115	32700	160755	145072	126640	112372	4.71	4.44
12	Oat	10250	-	125500	1	115250	-	3.6	-
13	Mineral Mixture Powder	35400	35300	52160	49600	16760	14300	1.47	1.41

### Analytical review of component demonstrations

Crop	Season	Component	Farming situation	tuation (Demo.) (Local check) (q/ha)		Percentage increase in productivity over local check
Groundnut	Kharif	Seed/Variety	Rainfed	1.12	1.00	11.5
Sesamum	Kharif	Seed/Variety	Rainfed	2.05	1.87	9.62
Green gram	Kharif	Inter cropping	Rainfed	FLD vitia	ated due to insuff	ficient rainfall
Black gram	Kharif	Inter cropping	Rainfed	FLD vitia	ated due to insuff	ficient rainfall
Castor	Kharif	Seed/Variety	Rainfed	17.14	15.50	10.58
Groundnut	Kharif	IPM	Rainfed	8.77	8.19	7.08
Gram	Rabi	Seed/Variety	Irrigated	15.88	14.58	8.92
Wheat	Rabi	Seed/Variety	Irrigated	47.18	43.22	9.16

Cumin	Rabi	Seed/Variety	Irrigated	7.93	7.25	9.38
Pear millet (Summer)	Summer	Seed/Variety	Irrigated	42.90	38.42	11.66
Groundnut (Summer)	Summer	Seed/Variety	Irrigated	26.50	23.95	10.65

#### **FLDs on Solar cooker Results**

Detail	With Concooking / Me			r cooking / r/ month	Saving/ member/ month				
	Energy	Cost (Rs)	Energy	Cost (Rs)	Energy	Cost (Rs)			
Fire Wood	11 kg 110		5.5 kg	55	5.5 kg	55			
Kerosene	1.5 lit.	24	0.7 lit.	11	0.8 lit.	13			
LPG Cylinder	3.55 kg	117	2.1 kg	69	1.45 kg	48			

### Technical Feedback on the demonstrated technologies

Sr. No.	Feed Ba	ck								
1	To enhar	nce th	e fa	rmers to use	recently de	veloped certif	ied va	rieties of dif	ferer	nt
	crops.									
2	Proper	use	of	fertilizers,	Irrigation,	insecticides	and	fungicide	as	per
	recomme	endati	on t	o reduce the	production	cost.		_		-

### Farmers' reactions on specific technologies

Sr. No.	Feed Back
1	Cumin variety GC-4 is high yielding but gradually loosing wilt resistant character
2	Bunch type groundnut variety is suitable for rain fed area.
3	Application of Trichoderma is very useful for minimizing the stem rot disease in
	groundnut. (Application at the time of sowing with 500 kg castor cake/ha.)
4	Wheat variety GW-366 is high yielding but poor grain quality
5	Reddening of cotton
6	Heavy infestation of thrips in crops like garlic, onion, cotton, groundnut, castor,
	cumin and coriander
7	Heavy infestation of mealy bug in cotton, groundnut, custard apple, mango and
	ber.
8	Late and poor germination was observed in cumin variety GC-4
9	Heavy infestation of mite in garlic, chili, brinjal, okra, cotton and groundnut
10	Research needed for control of insect-pests and diseases in organic farming
11	Problem of leaf curling in chilly.
12	White grub problem in groundnut
13	Wilting in chilly, cotton and water melon
14	Problem of repeat breeding in cattle & buffaloes.

### **Extension and Training activities under FLD**

Sr. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Farmers Training	7	-	256	-
2	Media coverage	1	-	-	-
3	Kisan Ghosthi	2	-	32	-
4	Field day	3	-	76	-
	TOTAL	13		364	

# 3.3 Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit) :

### A) On Campus

Thematic area	No. of	of Participants									
	courses		Others			SC/ST			Frand Tot	al	
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women											
I Crop Production											
Integrated Farming	1	36		36			0	36	0	36	
Integrated Crop	1	65	6	71			0	65	6	71	
Management											
II Horticulture											
a) Vegetable Crops											
Off-season vegetables	1	12		12			0	12	0	12	
Nursery raising	1	45		45			0	45	0	45	
Protective cultivation	1	12	14	26			0	12	14	26	
(Green Houses,	ļ										
Shade Net etc.)											
b) Fruits											
c) Ornamental Plants											
d) Plantation crops											
e) Tuber crops											
f) Spices											
g) Medicinal and											
Aromatic Plants	ļ										
Nursery management	1	22		22			0	22	0	22	
III Soil Health and	-										
Fertility	ļ										
Management	ļ										
Soil fertility	1	25		25			0	25	0	25	
management											
Soil and Water	1	32	7	39			0	32	7	39	
Conservation	ļ										
IV Livestock											
Production and	ļ										
Management											
Dairy management	1	32		32			0	32	0	32	
Disease Management	1		14	14			0	0	14	14	
Feed management	1	17		17			0	17	0	17	
V Home											
Science/Women											
empowerment											
Household food	1		52	52		2	2	0	54	54	
security by kitchen											
gardening and	]										
nutrition gardening	<u> </u>								0.5		
Minimization of	1		23	23		7	7	0	30	30	
nutrient loss in											
processing											

Storago loss	1		28	28		2	2	0	30	30
Storage loss minimization	ı		20	20					30	30
techniques			40	40						40
Value addition	2		49	49			0	0	49	49
VI Agril. Engineering							_			
Installation and	2	68	1	69			0	68	1	69
maintenance of micro										
irrigation systems										
Production of small	1	21		21			0	21	0	21
tools and implement										
Repair and	1	20		20			0	20	0	20
maintenance of farm										
machinery and										
implements										
Small scale	1	113	9	122	11		11	124	9	133
processing and value										
addition										
Post Harvest	1	64	7	71			0	64	7	71
Technology			-							
VII Plant Protection										
Integrated Pest	2	47		47			0	47	0	47
Management	_	.,		.,				''	J	.,
Integrated Disease	2	38		38			0	38	0	38
Management	2	30		30					U	30
Bio-control of pests	1	19	10	29			0	19	10	29
and diseases	1	19	10	29				19	10	29
VIII Fisheries										
IX Production of										
Inputs at site										
X Capacity Building										
and Group										
Dynamics										
XI Agro-forestry										
TOTAL	27	688	220	908	11	11	22	699	231	930
(B) RURAL YOUTH										
Value addition	1		69	69		3	3	0	72	72
TOTAL	1	0	69	69	0	3	3	0	72	72
(C) Extension										
Personnel										
Integrated Pest	1	10	10	20	3	4	7	13	14	27
Management										
Integrated Nutrient	1	11	10	21	3	4	7	14	14	28
management										
Protected cultivation	1	21		21			0	21	0	21
technology										
Care and maintenance	1	19		19			0	19	0	19
of farm machinery and									-	
implements										
Livestock feed and	1	45		45			0	45	0	45
fodder production	•	.5		.0				.5	J	10
TOTAL	5	106	20	126	6	8	14	112	28	140
G. TOTAL	33	794	309	1103	17	22	39	811	331	1142
J. IOIAL		134	203	1103	1 /	<b></b>	33	011	JJ 1	1144

### B) Off Campus

Thematic area	No. of	Participants								
	courses		Others			SC/ST		G	rand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers &										
Farm Women										
I Crop Production										
Weed Management	1	30		30			0	30	0	30
Resource	1	34		34			0	34	0	34
Conservation										
Technologies										
Integrated Farming	1	25		25			0	25	0	25
Water management		72		72			0	72	0	72
Integrated Crop	2	61		61			0	61	0	61
Management										
Production of	1	25		25			0	25	0	25
organic inputs										
II Horticulture										
a) Vegetable										
Crops										
b) Fruits										
c) Ornamental										
Plants										
d) Plantation										
crops										
e) Tuber crops										
f) Spices										
g) Medicinal and										
Aromatic Plants										
III Soil Health and										
Fertility										
Management										
IV Livestock										
Production and										
Management									_	
Dairy Management	1	28		28			0	28	0	28
Disease	2	41		41			0	41	0	41
Management			4-	45					4-	4.0
Feed management	2	32	17	49			0	32	17	49
Production of	1	48	2	50			0	48	2	50
quality animal										
products										
V Home										
Science/Women										
empowerment	4		00					_	00	
Minimization of	1		20	20			0	0	20	20
nutrient loss in										
processing			45	45				0	45	4 -
Value addition	2		45	45			0	0	45	45

								1 .		
Income generation	3		84	84		3	3	0	87	87
activities for										
empowerment of										
rural Women										
Location specific	1		23	23			0	0	23	23
drudgery reduction										
technologies										
Rural Crafts	1		22	22			0	0	22	22
VI Agril.										
Engineering										
Installation and	2	76		76			0	76	0	76
maintenance of										
micro irrigation										
systems										
Use of Plastics in	3	79		79			0	79	0	79
farming practices	J	'		'				'		'
Repair and	1	29	1	30			0	29	1	30
maintenance of	1	2.9	'					23	'	
farm machinery and										
· · · · · · · · · · · · · · · · · · ·										
implements	4	07		07			0	07	0	07
Small scale	1	27		27			0	27	0	27
processing and										
value addition										
Post Harvest	1	44		44			0	44	0	44
Technology										
VII Plant										
Protection										
Integrated Pest	4	92		92	1		1	93	0	93
Management										
Integrated Disease	3	98		98	2		2	100	0	100
Management										
Bio-control of pests	2	56		56			0	56	0	56
and diseases										
VIII Fisheries										
IX Production of										
Inputs at site										
X Capacity										
Building and										
Group										
Dynamics										
XI Agro-forestry										
TOTAL	39	897	214	1111	3	3	6	900	217	1117
(B) RURAL						<b>—</b>				
YOUTH										
Tailoring and	1		22	22		1	0	0	22	22
Stitching	ı		22				U		~~	
TOTAL	1	+	22	22		1	0	0	22	22
	ı		<b></b>			1	U	U	22	
(C) Extension										
Personnel	40	007	000	4400	•	_		000	000	4400
TOTAL	40	897	236	1133	3	3	6	900	239	1139

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

Thematic area	hematic area No. of Participants									
	course	Othe	rs		SC/S			Grand	d Total	
	s		Female	Total		Female	Total		Female	Total
(A) Farmers & Farm										
Women										
I Crop Production										
Weed Management	1	30		30			0	30	0	30
Resource Conservation	1	34		34			0	34	0	34
Technologies										
Integrated Farming	2	61		61			0	61	0	61
Water management	2	72		72			0	72	0	72
Integrated Crop	3	126	6	132			0	126	6	132
Management										
Production of organic	1	25		25			0	25	0	25
inputs										
II Horticulture										
a) Vegetable Crops										
Off-season vegetables	1	12		12	†		0	12	0	12
Nursery raising	1	45		45			0	45	0	45
Protective cultivation	1	12	14	26	1		0	12	14	26
(Green Houses, Shade	'	'-	'-	20				'-	'-	20
Net etc.)										
b) Fruits										
c) Ornamental Plants										
,				-	-					
d) Plantation crops										
e) Tuber crops										
f) Spices										
g) Medicinal and										
Aromatic Plants										
Nursery management	1	22		22			0	22	0	22
III Soil Health and										
Fertility										
Management		0.5		0.5				0.5		0.5
Soil fertility	1	25		25			0	25	0	25
management										
Soil and Water	1	32	7	39			0	32	7	39
Conservation										
IV Livestock										
Production and										
Management	_						_			
Dairy Management	2	60		60			0	60	0	60
Disease Management	3	41	14	55			0	41	14	55
Feed management	3	49	17	66			0	49	17	66
Production of quality	1	48	2	50			0	48	2	50
animal products										
V Home Science/										
Women										
empowerment										
Household food security	1		52	52		2	2	0	54	54
by kitchen gardening										
and nutrition gardening										
Minimization of nutrient	2		43	43		7	7	0	50	50
loss in processing		<u>L</u>	<u> </u>		<u> </u>	<u> </u>		<u>L</u>	<u> </u>	<u> </u>
Storage loss	1		28	28		2	2	0	30	30
minimization techniques		<u> </u>			<u> </u>					
Value addition	4		94	94			0	0	94	94
	•	•	•	•	-		•	•	•	

	_	1 1								
Income generation	3		84	84		3	3	0	87	87
activities for										
empowerment of rural										
Women	4								00	
Location specific	1		23	23			0	0	23	23
drudgery reduction										
technologies										
Rural Crafts	1		22	22			0	0	22	22
VI Agril. Engineering										
Installation and	4	144	1	145			0	144	1	145
maintenance of micro										
irrigation systems										
Use of Plastics in	3	79		79			0	79	0	79
farming practices										
Production of small	1	21		21			0	21	0	21
tools and implements										
Repair and	2	49	1	50			0	49	1	50
maintenance of farm										
machinery and										
implements										
Small scale processing	2	140	9	149	11		11	151	9	160
and value addition										
Post Harvest	2	108	7	115			0	108	7	115
Technology										
VII Plant Protection										
Integrated Pest	6	139		139	1		1	140	0	140
Management										
Integrated Disease	5	136		136	2		2	138	0	138
Management										
Bio-control of pests and	3	75	10	85			0	75	10	85
diseases										
VIII Fisheries										
IX Production of										
Inputs at site										
X Capacity Building										
and Group										
Dynamics										
XI Agro-forestry		4505						4.500		
TOTAL	66	1585	434	2019	14	14	28	1599	448	2047
(B) RURAL YOUTH								_		
Value addition	1		69	69		3	3	0	72	72
Tailoring and Stitching	1		22	22			0	0	22	22
TOTAL	2	0	91	91	0	3	3	0	94	94
(C) Extension										
Personnel										
Integrated Pest	1	10	10	20	3	4	7	13	14	27
Management				_	_		_			
Integrated Nutrient	1	11	10	21	3	4	7	14	14	28
management	4	1 2		0.1			_	6.1		2.1
Protected cultivation	1	21		21			0	21	0	21
technology										
Care and maintenance	1	19		19			0	19	0	19
of farm machinery and										
implements		1								
Livestock feed and	1	45		45			0	45	0	45
fodder production	-	400		400	_			446		440
TOTAL	5	106	20	126	6	8	14	112	28	140
G.TOTAL	73	1691	545	2236	20	25	45	1711	570	2281

### D) Vocational training programmes for Rural Youth :

Crop /		Training	Identi-	Dura-	P	No. of articipar	nts	Self	Number of		
Ente- rprise	Date	Training title*	fied	tion	tion (days) Male Fema		Total	Type of units	Num- ber of units	of	persons employed else where
H.Sc.	12/3/13	Fancy patch work and hand work stitches	Rural craft	1		22	22	House hold	-	-	-
H.Sc.	15-21/ 3/13	Preservati on of vegetables and fruits	Value addition	6		72	72	House hold	-	-	-

### **E) Sponsored Training Programmes :**

Sr.			Durati	Client	No. of			No.	of F	artic	cipa				Sponso-
No	Date	Title	on	(PF/R	courses		Other		S	C/S			Tota		ring
			(days)	Y/EF)		M	F	Т	M	F	Т	M	F	T	Agency
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	26/7/11	Scientific Dairy management	1	PF	1	32		32				32		32	ATMA
2	8-9/5/12	Top dressing management in cotton	1	EF	1	36		36				36		36	REEL Cotton
3	10-11/ 5/12	Emerging pest & disease of Bt.cotton & their management.	1	EF	1	45		45				45		45	BCI Cotton
4	18/7/12	Role of bio pesticides for the insect pest management	1	EF	1	19	10	29				19	10	29	REEL Cotton
5	19/7/12	Rain water harvesting and their efficient use for crop production	1	EF	1	45	1	46				45	1	46	BCI Cotton
6	25/7/12	High-tech AgriGreen house	1	EF	1	10	10	20	2	4	6	12	14	26	DWDU- Rajkot
7	22/8/12	Crop contingency planning & implementatio n of watershed programme	1	EF	1	32	7	39				32	7	39	DWDU- Rajkot
8	23/8/12	Crop contingency planning & increase yield under dry land are	1	EF	1	65	6	71				65	6	71	DWDU- Rajkot

9	24/8/12	Watershed management	1	EF	1	64	7	71				64	7	71	DWDU- Rajkot
10	7/9/12	Cottage level food processing entrepreneur- ship for farmers	1	PF	1	113	9	122	11		11	124	9	133	IICPT
11	20/9/12	Scientific dairy farming	1	PF	1	17		17				17		17	ATMA
12	29-30/ 10/12	Fruits and vegetables preservation	1	FW	1		23	23		7	7		30	30	FTC
13	18/12/12	Value addition in Agri. crops	1	FW	1		29	29					29	29	ATMA
14	31/12- 1/1/13	Nursery management	1	PF	1	22		22				22		22	ATMA

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

									articip			-			
Sr. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of acti- vities		ers (O	,	(F	SC/S arme (II)	T rs)	Ext Of	tens fficia (III)	als	(	and To	)
				M	F	Т	M	F	Т	M	F	Т	M	F	T
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Field Day	Apr-12	2	60		60			0	2		2	62	0	62
		Feb.13	3	76	_	76			0	3		3	79	0	79
	Total	- 10	5	136	0	136	0	0	0	5	0	5	141	0	141
2	Kisan Mela	Dec.12	1												
	(P) Kisan Mela	Mar-13	1												
	Total		2												
3	Kisan	Sept.12	1	15		15	1		1	1		1	17	0	17
	Ghosthi	Nov.12	1	21		21	1		1	1		1	23	0	23
		Dec.12	1	11		11			0	2		2	13	0	13
		Jan.13	3	36		36	2		2	5		5	43	0	43
		Feb.13	2	35	_	35	3		3	2		2	40	0	40
	Total		8	118	0	118	7	0	7	11	0	11	136	0	136
4	Exhibition	10		20		440				_			404	00	404
5	Film Show	May-12	3	99	20	119			0	5		5	104	20	124
		Jun-12	1	37		37			0	2		2	39	0	39
		Jul-12	3	75	40	75	8		8	3		3	86	0	86
		Aug.12	2	88	40	128			0	3		3	91	40	131
		Sept.12	2	39 30		39 30			0	2		2	41 32	0	41 32
		Octo.12			76				_			2			
		Dec.12	2	36	76	112			0	2		1	37 77	76	113
		Jan.13 Feb.13	2	75 54		75 54			0	1		1	55	0	77 55
	Total	reb.13	18	533	136	669	8	0	8	21	0	21	<b>562</b>	136	<b>698</b>
6	Method		17	333	130	009	0	-	0	21	U	0	0	0	030
U	Demonstra- tions		17			0						U			0
7	Farmers Seminar		4	201		201	11		11	12		12	224	0	224
8	Workshop					0			0			0	0	0	0
9	Group	May-12	1	32		32	2		2			0	34	0	34
	meetings	Jun-12	1	22		22			0			0	22	0	22
		Aug.12	2	24		24	2		2			0	26	0	26
		Nov.12	1	16		16			0			0	16	0	16
		Dec.12	1	25		25			0			0	25	0	25
		Feb.13	1	32		32			0			0	32	0	32
		Mar13	2	21		21	5		5			0	26	0	26
	Total		9	172	0	172	9	0	9	0	0	0	181	0	181

10	Lectures	May-12	2	78	1	78	5		5	3		3	86	0	86
10	delivered as	Jun-12	4	103	138	241	2	7	9	4		4	109	145	254
	resource	Jul-12 Jul-12		128	130			1		5		-			
			4		00	128			0			5	133	0	133
	persons	Aug.12	3	70	32	102	40		0	2		2	72	32	104
		Sept.12	6	163	2	165	13		13	3		3	179	2	181
		Octo.12	4	59		59	4		4	2		2	65	0	65
		Nov.12	1	52		52			0	2		2	54	0	54
		Dec.12	2	42	12	54			0	3		3	45	12	57
		Jan.13	8	358	228	586	11	7	18	5		5	374	235	609
		Feb.13	8	465	309	774	15	21	36	4		4	484	330	814
		Mar13	7	209	593	802	21	119	140	3		3	233	712	945
	Total		47	1649	1314	2963	66	154	220	33	0	33	1748	1468	3216
11	Newspaper		6												
	coverage														
12	Radio talks		10												
13	TV talks		7 17		-										
14	Popular articles		17												
15	Extension		4												
13	Literature														
16	Advisory Services		37												
17	Scientific	May-12	1	11		11			0			0	11	0	11
''	visit to	Jun-12	3	19		19	2		2			0	21	0	21
	farmers field	Jul-12	1	9		9			0			0	9	0	9
		Aug.12	2	12		12			0			0	12	0	12
		Sept.12	2	29		29			0			0	29	0	29
		Octo.12	5	35		35	2		2			0	37	0	37
		Nov.12	2	10		10			0			0	10	0	10
		Dec.12	3	17		17	2		2			0	19	0	19
		Jan.13 Feb.13	3	11 11		11 11			0			0	11 11	0	11 11
	Total	Feb. 13	24	164	0	164	6	0	6	0	0	0	170	0	170
18	Farmers visit	Anr-12	10	38		38			0	2	•	2	40	0	40
'	to KVK	May-12	9	120	7	127	5		5	3		3	128	7	135
		Jun-12	13	50	38	88	7		7	5		5	62	38	100
		Jul-12	20	83	131	214	3	20	23	7		7	93	151	244
		Aug.12	8	249	34	283	28	1	29	3		3	280	35	315
		Sept.12	9	66	15	81			0	4		4	70	15	85
		Octo.12	10	180	70	250	24	8	32	5		5	209	78	287
		Nov.12	5	42	41	83	5	44	5	3		3	50	41	91
		Dec.12 Jan.13	6 10	21 93	66 87	87 180	22	11	11 25	2		2 4	23 119	77 90	100 209
		Feb.13	17	49	219	268	4	6	10	5		5	58	225	283
		Mar13	20	48	101	149	3	7	10	6		6	57	108	165
	Total		137	1039	809	1848	101	56	157	49	0	49	1189	865	2054
19	Diagnostic		-												
-	visits		4	400		400	_	ļ	_	_			444	_	4 4 4
20	Exposure visits		4	129		129	5		5	7		7	141	0	141
21	Ex-trainees		-												
22	Sammelan Soil health		_												
	Camp														
23	Animal	Aug.12	3	301		301	19		19	4		4	324	0	324
	Health	Sept.12	2	79		79	6		6	2		2	87	0	87
	Camp	Dec.12	3	217		217	13		13	4		4	234	0	234
	Total	Jan.13	1 9	41 <b>638</b>	0	41 <b>638</b>	3 <b>9</b>	0	1 <b>39</b>	2 <b>12</b>	0	2 <b>12</b>	44 <b>689</b>	0	44 <b>689</b>
	I Uldi		9	038	U	038	აყ	U	აყ	12	U	١Z	009	U	009

24	Agri mobile clinic		-												
25	Soil test campaigns		1	2420		2420			0			0	242 0	0	2420
26	Farm Science Club Conveners meet		-												
27	Self Help Group Conveners meetings		3		54	54			0			0	0	54	54
28	Mahila Mandals Conveners meetings		1		21	21		2	2			0	0	23	23
29	Celebration of Van Mahotsav- 2012	Jul-12	1	22	3	25			0			0	22	3	25
30	Celebration of Technology week	Sept.12	1	380	101	481	22	8	30			0	402	109	511
31	Celebration of parthenium Week	Aug.12	1	51	12	63			0			0	51	12	63
32	Celebration of Krushi Mahotsav- 2012	May- June-12	1	8		8			0			0	8	0	8
33	Telephon help line		1	2182		2182			0			0	218 2	0	2182
	Grand Tota	ı	375	9842	2450	12292	274	220	494	150	0	150	10266	2670	12936

# 3.5 Production and supply of Technological products 2012-13 SEED MATERIALS

Sr. No.	Crop	Variety	Quantity (Kg)	Value (Rs.)	Provided to No. of Farmers
CEREALS	-	-	-	-	-
OILSEEDS	Groundnut (Mega seed)	GG-20	1120	-	-
	Groundnut (Breeder)	GG-5	985	-	-
	Groundnut (Breeder)	GJG-31	480	-	-
	Sesamum (Breeder Seed)	GTill-2	49	-	-
PULSES	Black Gram (Mega seed)	G-1	76	-	-
CASH CROP	-	-		-	-
		Total	2710		

#### SUMMARY

Sr. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	-	-	-
2	OILSEEDS	26.34	-	-
3	PULSES	0.76	-	-
4	CASH CROP	-	-	-
TOT	AL	27.10	-	

#### **PLANTING MATERIALS:**

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS		-			
SPICES					
VEGETABLES					
PLANTATION					
CROPS					
Others (specify)					

#### **BIO PRODUCTS**

Major	Product	Species	Quantity		Quantity		Quantity		Value	Provided to
group/class	Name		No	(kg)	(Rs.)	No. of Farmers				
BIOAGENTS										
BIOFERTILIZERS										
BIO PESTICIDES	Savaj	Trichoderma	1100 Kg	.	77000/-	690				

### **SUMMERY**

SI.		Quantity		Value	Provided to No.	
No.	Product Name	Species	es (Nos ) (kg		(Rs.)	of Farmers
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE	Trichoderma	1100 Kg.		77000/-	690
	TOTAL					

### ORGANIC MANURE

Major	Product	Species	Quar	Quantity		Quantity		Quantity		Provided to No. of
group/class	Name		No	(kg)	(Rs.)	Farmers				
VERMI	Vermi	-	600Kg		-	Used in plantation at				
COMPOST	compost					KVK farm				

### LIVESTOCK: Nil

SI. No.	Туре	Breed	Qua	Quantity		Provided to No. of
			(Nos)	(Kgs)	(Rs.)	Farmers
CATTLE						
SHEEP AND						
GOAT						
POULTRY						
FISHERIES						
Others (Specify)						

### 3.6. Literature Developed/Published

### (A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

### (B) Literature developed/published

Item	Title	Authors name	Number
1	2	3	4
Research	A study on population dynamics of	Shri. D.V.Muchadiya,	-
papers	insect pests & natural enemics on	Shri D.A.Sardava and	
	Bt. Cotton	Dr.B.B.Kabaria	
	Impact of meteorological parameters	Dr.B.B.Kabaria. D.M.Damasia.	
	on population dynamics of sucking	Shri.D.A.Sardava,	
	pest of Bt cotton in Rajkot district	Shri D.V.Muchadiya and	
		Dr.J.B.Kathiriya	
Abstract	Constraint analysis of livestock	Dr.J.B.Kathiriya, D.A. Damasia,	
	farmers of villages selected under	A.I.Makwana and H.A.Manvar	
	KVK-Rajkot		
Technical	Monthly Progress Report	Krishi Vigyan Kendra, Targhadia	8
reports	Quarterly Progress Report		
	Moniterable Quarterly Progress		
	Report Annual Progress Report of		
	different projects		
News	-	-	-
letters			
Technical	-	-	-
bulletins			
Popular	Ghauna paralni uriya prakiya	Dr.J.B.Kathiriya, Dr.H.N.Sudani	-
articles	Khetini vat, April-12:26-27	and Dr.B.B.Kabaria	
	Bijni mavjat dvara vadhu utpadan	Shri D.V.Muchadiya,	-
	melaviye, Krushi Vigyan ,5:8-10	Shri.D.A.Sardava and	
		Dr.B.B.Kabaria	
	Aharma kathodnu mahtva	Miss H.A.Manvar and	-
	Khetini vat, 2(12):55	Dr.B.B.Kabaria	
	Ghauni vaigyanik kheti paddhati	Shri. A. I. Makwana	-
	apanavo,		
	Krushi Govidhya,64(9):12-15		
	Khedutona prasno vaignaniko na	Dr.B.B.Kabaria, Shri D.V.	-
	javabo, Khetini vat- Nov.123(2):58	Muchadiya and Shri.D.A.Sardava	
	Chanama jivat ane rognu niantran,	Shri.D.A.Sardava,	-
	Krushi Jivan- Dec.12:16	Shri D.V.Muchadiya and	
		Dr.B.B.Kabaria	
	Parthenium nu sanklit niyntra,	Shri.D.A.Sardava,	-
	Krushi Govidhya,65(9):25-26	Dr.B.B.Kabaria and	
	, , , ,	Shri D.V.Muchadiya	
	Khedutona prasno vaignaniko na	Dr.B.B.Kabaria and	-
ļ l			

TOTAL	4		
	economic impact in Rajkot district (Gujarat)	and Shri D.V.Muchadiya	
	A decade of Bt. Cotton, Socio-	Dr.B.B.Kabaria, Shri.D.A.Sardava	1000
	no upyog kari paryavrannu jatan karie		
	janya davao ane vis pralobhiaka o	and Shri D.V.Muchadiya	1000
	tenu sanklit niyntran Jivat niyantran mate vividh vnaspati	and Shri D.V.Muchadiya Dr.B.B.Kabaria, Shri.D.A.Sardava	1000
	Kapasna pakni mukhya jivato ane	Dr.B.B.Kabaria, Shri.D.A.Sardava	1000
literature	sambavit karno, felavo, ane tena niyntran mateni viyvastha	and Shri D.V.Muchadiya	1000
Extension		Dr.B.B.Kabaria, Shri.D.A.Sardava	1000
TOTAL	Khetini Vat, 3(6), 34-38	anu iviiss m.a.ividnvai	
	Unadama pasuni vayganik mavjat	Dr.B.B.Kabaria, Dr.J.B.Kathiriya and Miss H.A.Manvar	
	Khetini Vat, 3(6), 22-23	and M.H.dhakiya	
	sanjogone sanukul banavo,	and N.K.Pokiya, D.A.Sardava	
	Suksm piyat paddti apnavo pratikul	Dr.B.B.Kabaria, D.P.Sanepara	
	Krushi Jivan, Feb.13	and Dr.H.N.Sudani	
	Pasu ma chamdina rogonu niyntran,	Dr.J.B.Kathiriya, Dr.B.B.Kabaria	
	pinjar,Chempion Agro word,4(5)-32	Shri D.V.Muchadiya	
	jivatone alag padtu aek navuj prakas	,	
	Light trep -upyogi ane bin upyogi	Dr.B.B.Kabaria,	
	Khetini Vat, Feb.13, 44-45	and Miss H.A.Manvar	
	Sagrba ane viyan pasu ni mavjat,	Dr.J.B.Kathiriya, Dr.B.B.Kabaria	
	Taza maza, Feb.13	and Miss H.A.Manvar	-
	Sagrba ane viyan pasu ni mavjat,	Dr.J.B.Kathiriya, Dr.B.B.Kabaria	
	Gramiy mahila ni tandurasti, Krushi Vigyan ,39(1):18	Miss H.A.Manvar, Dipti Thakar and Dr.B.B.Kabaria	
	Kanbi Darshan-1(12) :48-50	Mice H A Menyor Disti Theker	
	karo- sendriy khatar banavi jaminni faldrupta vadharo,	Shri.D.A.Sardava	
	Kapas ni santhi balvanu bandh	Dr.B.B.Kabaria and	
	Krushi Vigyan ,Jan.13-38(12):15	·	
	Vividh pradushn dvara pasu arogya par thti mathi asar ane tena upayo,	Dr.J.B.Kathiriya, Dr.B.B.Kabaria, Dr.H.N.Sudani and R.T. Padliya	

### (C) Details of Electronic Media Produced : - Nil -

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

#### 3.7 Success stories/Case studies, if any

#### **Success Story 1**



Name of Farmer:

Chaturbhai Laliibhai Kalola

Address : Gadhka Taluka : Rajkot

Dist. : Rajkot

Contact Number : 9428699849

Age : 41 years

Education : 10<sup>th</sup> Pass

Land holding : 4 acre

Crops grown : Groundnut &

Cotton

Livestock :

## 1. De-topping (Nipping) of cotton for getting higher yield

#### Special recognition:

Chaturbhai is a farmer of Rajkot district adopting the technique of de-topping in cotton plant at 5 feet height for getting higher yield by increasing the canopy of plant. In de-topping practice 5 to 8 cm of top shoot is de-topped when the crop attain the height of 5 feet. Due to detopping of cotton, Chaturbhai got higher yield as compare to without de-topping.

#### Practical utility of innovation

By adoption of scientific approach (Detopping) in cotton crop, higher yield can be obtained. Mr. Chaturbhai got higher yield of 70 Kg/acre yield and earned Rs. 3000/ acre monetary return without any investment. He is member of farmer's field school run by KVK Targhadia. Several farmers of this area adopted this practices for better returns.





#### **Success Story 2**



#### Name of Farmer

#### Ashokbhai Bhanderi

Address : Khijadia
Taluka : Rajkot
Dist. : Rajkot

Contact Number: 9909993935

Age : 38 years Education : 12<sup>th</sup> Pass

Land holding : 8 acre

Crops grown : Groundnut,

Cotton, & Fodder crops

Livestock : Cow : 3

Buffalo : 30

(Banni & Mahesani breeds)

## 2. Entrepreneurship Development through Dairy farming in Rajkot District

#### Special recognition :

Farmer of Khijadia village comes in contact with KVK Rajkot for getting more return from his traditional cultivation. He inspired by KVK, Targhadia to established a modern scientific dairy farming unit in his farm ie: Girirai Farm. He was provided all the scientific information regarding housing, breeding, feeding and scientific management of a dairy farm. The farmer was convinced through the information provided by the scientists of KVK and started a Dairy unit in 2011 with 12 animals and now a days, he is bearing total 36 animals in his farm. He is supplying clean raw milk directly to consumer through a milk van and though he is getting more return as compare to other dairy farmers. The surplus stock of milk provided to penda makers, which is the major sweet in this area.

He earned the gross income of Rs.6 lac with the net profit of 4.2 lac through his dairy unit. The income is quite higher as compared to the income from traditional dairy units. Hence by observing this scientific practices for management of dairy farm, a number of farmers (10) has been started to manage their farm by this way and these technology disseminated as horizontal way.





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

- Use of cow urine, butter milk, bajra flour etc for insect pest and disease management.
- Use of small or wrinkle seed of groundnut for sowing purpose.
- Farmers grow maize as a mixed crop in groundnut and inter crop in cotton.
- Cotton Stalk Shredder
- Wheel Hoe
- Cotton Stalk Puller
- Tractor mounted spryer
- Chaff Cutter for Minimizing the Animal Fodder Waste
- IPM in Cotton-Use of Trap crop, Pheromone trap, etc.
- Minimizing the chemical Fertilizer and Maximizing organic manure.
- Value addition in different agriculture crops.

# 3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Groundnut	Farmers maintain a set furrow system	•
		and apply manure and fertilizer every	
		year in the same furrow.	succeeding crop
2	Groundnut	Some farmers near the river bed, apply	
		sand in the set furrow for increasing	55 5
		infiltration rate of the soil	the field
3	Kharif	Farmer apply supplementary irrigation to	For life saving irrigation
	crops	the crops during moisture stress	to minimize the risk of
		condition	crop failure
4	Cotton	Farmers grow Maize after 3-4 rows of	To increase the natural
		cotton	enemies and fodder
			purpose
5	Cotton	After heavy rain, farmer apply irrigation to	To balance the salt
		balance the salt concentration at top of soil	concentration
6	Groundput		To increase natural
0	Giodilalial	Farmers grow maize as mix crop in	
		groundnut	enemies & fodder
			purpose

#### 3.10 Indicate the specific training need analysis tools/methodology followed for- NIL

- Identification of courses for farmers/farm women
- Rural Youth
- In-service personnel

#### 3.11 Field activities

i. Number of villages adopted : 15
ii. No. of farm families selected : 250
iii. No. of survey/PRA conducted : -

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

1. Status of establishment of lab2. Year of establishment2007-08

3. List of equipments purchased with amount :

Sr. No	Name of the Equipment *	Qty.	Cost
	-		
Total			

<sup>\*</sup> All the necessary chemicals and equipments purchased

### 3.13 Details of samples analyzed so far

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realize (Rs.)
Soil Samples	2420	2420	-	121000/-
Water Samples	2420	2420	-	121000/-
Plant Samples	-	-	-	-
Petiole Samples	-	-	•	-
Total	4840	4840		242000/-

#### 4. IMPACT

### 4.1. Impact of KVK activities

Name of specific	No. of	% of	Change in income (R		
technology/skill transferred	participants	adoption	Before (Rs/unit)	After(Rs/unit)	
Cumin Variety (GC-4)	232	84	30000	45000	
Improved variety of Gram (GG-3)	157	72	27500	35000	
Wheat variety (GW-496, 366)	268	52	32500	37500	
Use of Trichoderma culture powder for the control of stem rot in groundnut	347	57	28125	31500	

#### 4.2. Cases of Large scale adoption

- ✓ Adoption of *Trichoderma* culture powder for the management of stem rot disease
  in groundnut
- ✓ Adoption of *Bt.* cotton varieties with INM and IPM concepts.
- ✓ Farmers prefers to sow semi spreading and high yielding variety of groundnut i.e. GG-20
- ✓ Most of the farmers adopt new variety of cumin (GC-4) which is resistant to wilt disease
- ✓ Intercropping/mix cropping in groundnut and cotton was adopted for minimize the risk factor in dry land agriculture with preservation of natural enemies.
- ✓ Farmers are ready to use of rotavator/ cotton shredder/ mobile chopper for increasing the organic matter in soil particularly in Bt. Cotton cropping system.

# 4.3. Details of Impact analysis of KVK Activities carried out during the reporting period :-

### 5.0 LINKAGES

### 5.1 Functional linkage with different organizations

Sr.	Name of organization	Nature of
No.	Hame of organization	linkage
1.	Dy. Director of Agriculture.	Most of the
2.	Dy. Director of Agril. Extension (FTC)	Organizations
3.	Dy. Director of Horticulture	are members of
4.	Dy. Director of Animal Husbandry	Scientific
5.	Dy. Director of Soil Conservation	Advisory
6.	Dy. Director of Social Forestry	Committee
7.	Jilla Udhyong Kendra	(SAC) of KVK
8.	Milk Co-Operative Society (Gopal Dairy)	and have linkage
9.	Bank of Baroda	with different
10.	National Bank for Agriculture & Rural Development NABARD)	activities of KVK
11.	NHRDF	viz., Training
12.	Doordarshan Kendra	Programme,
13.	All India Radio	Khedut Sibir,
14.	WALMI	Farmers day, Animal treatment
15.	Dy. Director of District Rural Development Agency(DRDA)	
16.	ATMA	Camp, Farmers fair, Film Show,
17.	Dy. Director of GLDC	Ex-training
18.	Project Director, District Watershed Development Unit	meeting and Soil
19.	GGRC	health card etc.

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

Sr.No.	Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
1	Agricultural technology information centre (ATIC) – BH 101572-02	Sept-2004	Govt. of Gujarat	1,75,000/-
2	Farmers Field School under RKVY-BH 18247-29	April-2012	Govt. of Gujarat	1,81,500/-
3	National Information System for Pest Management (Bt Cotton) – BH 2043	March-2007	NCIPM- New Delhi	6,13,000/-
4	Popularization of MIS in SSNNL Maliya branch sub canal – BH 18005-03	Jun2010	SSNNL, Gandhinagar	5,10,484/-
5	National Initiative on climate Resilient Agriculture (NICRA) – BH 2704-47	March-2010	CRIDA, Hyderabad	10,70,000/-
6	Seed Village BH- 18018-08	March-2010	ICAR-New Delhi	11,52,500/-

### 5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

Sr.No.	Programme	Nature of linkage	Remarks
1	Farmers meeting(9)	Linkage with different activities of KVK	-
2	Training (4)	viz., Training Programme, Khedut Sibir,	-
3	Farmer fair (1)	Farmers meeting, Farmers fair, Film	-
4	Lecture delivered (23)	Show etc.	-

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

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

### 5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks	
		-		

### 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

		Vaar		Details (	of produc	ction	Amount	(Rs.)	ks
Sr. No.	Demo Unit	Year of estt.	Area	Variety	Produce	Qty.	Cost of inputs	Gross Income	Remarks
1	Water Harvest Structure	2001	40x 30x 15 mt	-	-	-	-	-	ı
2	Arid Horticulture	ı	ı	Guj. Aonla -1	Fruit	85 kg	1	1700	ı
3	Soil Testing Lab	2006	-	-	-	-	710000	-	
4	Bio Gas Plant	2006	•	-	-	-	42000	-	•
5	Tractor mounted sprayer	2007	-	-	-	1	43000	1	1
6	Dibbler	2007	-	-	-	-	900	-	-
7	Cotton Stalk Shredder	2007	-	-	-	-	43000	-	1
8	Cotton Stalk Puller	2007	-	-	-	-	1200	-	-
9	Wheel Hoe	2007	-	-	-	-	1260	-	-
10	Veterinary mobile unit	2008	-	-	-	-	600000	-	•
11	Processing unit	2009					1685000	-	

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

Name			_	Details	of produc	ction	Amou	nt (Rs.)	ks
Of the crop		Date of harvest	Area (ha)	Variety	Type of Produce	Qty. (kg)	Cost of inputs	Gross income	Remarks
Cereals : n	il								
Pulses									
Black Gram	18/6/12	15/10/12	1.4	GU-1 Mega	Seed	76			-
				seed	Fodder	82			-
Oilseeds				•					•
Groundnut	14/7/12	9/11/12	4.09	GG-20	Pod	1120			-
				Mega seed	Fodder	3800			-
Groundnut	19/6/12	29/10/12	4.54	GG-5	Pod	985			-
				Breeder	Fodder	4400			-
Groundnut	18/6/12	3/11/12	1.98		Pod	480			•
				Breeder	Fodder	2100			-
Sesamum	19/6/12	15/10/12	1.09	GTill-3	Seed	49			•
				Breeder Seed	-	-			-

### 6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sr.	Name of		Amoui	nt (Rs.)	
No. the Product		Qty	Cost of inputs	Gross income	Remarks
			- NIL -		

### 6.4 Performance of instructional farm (livestock and fisheries production)

	Name	Deta	ils of produc	s of production		Amount (Rs.)			
Sr. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks		
	- NIL -								

### 6.5 Rainwater Harvesting

# Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Title of the	Client	No. of Course		of Partici <sub>l</sub> Iuding SC		No. of SC/STParticipants				
training course	(PF/RY/	S	Male	Femal	Total	Male	Femal	Tota		
	EF)	•		е			е	ı		
Rain water										
harvesting and										
their efficient use	PF.	1	51	-	51	-	-	-		
for crop										
production										

### **6.6** Utilization of hostel facilities: Accommodation available (No. of beds) : 20

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
-	-	-	-

### 7. FINANCIAL PERFORMANCE

#### 7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	SBI	Junagadh	-
With KVK	SBI	Rajkot	10353003175

### 7.2. Utilization of KVK funds during the year 2012 – 13 (Rs in Lakh)

S.N.	Particulars	Sanctioned	Released	Expenditure
1	2	3	4	5
A. Re	ecurring Contingencies			
1	Pay & Allowances	75.00	68.00	67.61
2	Traveling allowances	1.50	1.50	0.61
3			С	ontingencies
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)  POL, repair of vehicles, tractor and equipments	3.20	3.20	2.90
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	760	2.60	2.40
E	Training of extension functionaries			
F	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1 80	1.80	1.40
G	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)		1.00	1.40
Н	Maintenance of buildings	0.40	0.40	0.00
	TOTAL Contingencies	8.00	8.00	6.70
	TOTAL (A)	84.50	77.50	74.90
B. No	on-Recurring Contingencies			
1	Equipments & Furniture  a) Furniture for office building & farmers hostel	-	-	-
	b) EPBAX system with accessories	-	-	-
	c) Plant Helth Diagnostic facility	-	-	_
	Total	-	-	-
2	Works	-	_	_
3	<b>Library</b> (Purchase of assets like books & journals)	-	-	-
4	Vehicle	-	-	-
	TOTAL (B)	-	-	-
C. RE	EVOLVING FUND	-	-	-
	GRAND TOTAL (A+B+C)	84.50	77.50	74.90
		1		150

7.3 Status of revolving fund (Rs.) for the three years

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2010 to March 2011	952292	517192	519673	949811
April 2011 to March 2012	949811	1012035	1092908	868938
April 2012 to Dec. 2013	8,68,938	5,02,453	7,83,835	10,28, 865

# 8.0 PLEASE INCLUDE INFORMATION WHICH HAS NOT BEEN REFLECTED ABOVE (write in detail).

### 8.1 Constraints

### (a) Administrative

1. Transportation vehicle is prime need for farmers, farm women and rural youth specially during training programme.

### (b) Financial

- 1. Budget allotment is not sufficient against expenditure estimated for pay allowance.
- 2. There is confusion in delegation of power for revalidation of unspent balance.
- 3. Provision of special grant for farm development is necessary in budget allotment specially for compound wall.

### (c) Technical

1. Supporting staff for farm management and soil and water testing lab is Necessary.

### Annexure I

# Minutes of the 9<sup>th</sup> Scientific Advisory Committee (SAC) Meeting held on 9<sup>th</sup> April 2012 at

### Krishi Vigyan Kendra, JAU, Targhadia, (Rajkot)

The Ninth Scientific Advisory Committee meeting was held in the KVK training hall of Krishi Vigyan Kendra, Junagadh Agricultural University, Targhadia on 9<sup>th</sup> April 2012.The meeting was chaired by Dr. A. M. Parakhia, Director of Extension Education, Junagadh Agricultural University, Junagadh.

The Following members were remained present in the meeting.

Sr. No.	Name & Designation	Position	Sr. No.	Name& Designation	Position
1	Dr. A. M. Parakhia, Director of Extension Education, JAU, Junagadh	Member	12	Dr. B. B. Kabaria, Programme Coordinator, KVK, Targhadia	Member- Secretary
2	Dr. I. U. Dhruj, ADR, JAU, Junagadh	Member	13	Shri D.B. Dadhania, Dis. Coordinator , Bank of Baroda	Member
3	Dr. M. N. Popat Asso. Dir. of Extension Education, JAU, Junagadh	Member	14	Shri J.H. Raval, Project manager, District Industries Centre	Member
4	Dr. K.N. Akbari, RS (DFRS), Targhadia	Member	15	Shri Virenra Aggarwal, DRDA, Rajkot	Member
5	ShriH. Agatha, DAO, Rajkot	Member	16	Shri B.B.Rethdiya, Bioges supervisor, Gujrat Agro Industries Corporation Ltd	Member
6	Shri J.D. Patel, Deputy director of Horticulture, Rajkot	Member	17	Miss Purvi M. Topia, Rural Youth, Madharvada	Member
7	Shri Karansinh Solanki, Station Director, Doordarsan Kendra, Rajkot	Member	18	Smt. Jyoshnaen Arvindhai Vekariya, Progressive Farm Women, Metoda	Member Progressive Farm women
8	Shri V.K.Dholariya, Programme executive, All India Radio, Rajkot	Member	19	Shri Babubhai D. Ramani, At. & post; Khorana, Dist.; Rajkot	Member Progressive Farmer
9	Dr. V.S. Ajudia, Assit. Director of A.H., Rajkot	Member	20	Shri Jyantihai L.Lunagariya, At. & post; Sarpadad, Ta. Padadhari, Dist.; Rajkot	Member Progressive Farmer
10	Dr. P. B. Kundaria, Assistant Manager, Gopal Dairy, Rajkot	Member	21	Shri Bhagvanjihai R. Topiya, At. & post; Magharvada, Ta. & Dist.; Rajkot	Member Progressive Farmer
11	Shri P.N.Patnaliya,	Member			

Dr. N. C. Patel, Hon'ble Vice Chancellor and Chairman of SAC could not attend the meeting. On behalf of him, Dr. A.M. Parakhia, Director of Extension Education chaired the meeting. In the beginning Dr. K. N. Akabari, Research Scientist, Dry Farming Research Station, Targhadia welcome to Dr. A. M. Parahkia, Director of Extension Education, Junagadh Agricultural University, Junagadh, Dr. I. U. Dhruj, Associate Directorate of Research, JAU, Junagadh, Dr. M. N. Popat, Associate Directorate of Extension Education and all the members, Progressive farmers and farm women of the operational villages and scientists of this centre.

Dr. A. M. Parahkia, Director of Extension Education, Junagadh Agricultural University, Junagadh inaugurated the meeting by lighting the lamp and all the members of SAC committee meeting were also welcomed with flowers.

Dr. B.B.Kabaria, Programme Coordinator, KVK, JAU, Targhadia presented the suggestions and action taken report for 8<sup>th</sup> SAC meeting which was held on the 17<sup>th</sup> March, 2011. He also presented the annual progress report of the year 2011-12 (April'11 to March 2012) and action plan for the Year 2012-13 (April-12 to March.-13), including training achievements, results of the FLDs and OFTs etc. conducted during the year 2011-12.

The following suggestions were made by the SAC members during the meeting.

- > FLD on Solar energy equipment like solar cooker should be given in cluster base through support from GEDA or ATMA
- ➤ Invite the officer from nationalized bank in on/off campus training for information regarding their Agricultural schemes for farmers.
- > Training programmes of fodder crops for animal should be added in action plan.
- Method of showing/cropping components should be taken instead of varietal component particularly for Cumin (GC-4) and Green gram (GM-4)
- More emphasis should be given for FLDs on soil health management and integrated plant/crop management.

Dr. A. M. Parakhia, DEE, Junagadh, appreciated the work done by KVK-Targhadia through team work. He also suggested that the action plan should be made for whole district instead of only selected villages. More emphasis should be given in Dairy development and animal husbandry programmes. Emphasis should be also be given on water harvesting and watershed management. Farmers should be encouraged for soil testing, green manure and value addition in agricultural crops. Due to unavailability of horticulture scientist, it is difficult to carry out the different activities for horticulture, so it was suggested to take the help of SMS (Horticulture), KVK-Amreli whenever required.

Finally, the meeting was concluded by performing the vote of thanks by Dr. J. B. Kathiriya, SMS (A.H.), KVK, JAU, Targhadia (Rajkot)

Member Secretary , SAC & Programme Coordinator Krishi Vigyan Kendra Junagadh Agricultural University Targhadia (Rajkot)

Note: Proceeding for approval please

Director of Extension Education Junagadh Agricultural University Junagadh

Chairman, SAC
KVK, Targhadia (Rajkot)
&
Vice Chancellor
Junagadh Agricultural University
Junagadh

# **Annexure II**

### **Details of Training programme**

Date	Clien tele	Title of the training programme	Discipl ine	ne n in days	Venue	pa	ber of o	nts		mbe	Τ	pa	ıl numk ırticipa	nts
						М.	F.	T.	M.	F.	T.	М.	F.	T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
03/5/12	R.Y.	Scientific Dairy management	A.S.	1	On	32		32			0	32	0	32
8-9/5/12	PF	Top dressing management in cotton	C.P.	2	On	36		36			0	36	0	36
10- 11/5/12	PF	Emerging pest & disease of Bt.cotton & their management.	Horti.	2	On	45		45			0	45	0	45
29/6/12	F.	Vaccination schedule against contagious diseases in animals and poultry.	A.S.	1	Off	24		24			0	24	0	24
29/6/12	F.	Rain water harvesting and their efficient use for crop production	Agri. Engg.	1	Off	51		51			0	51	0	51
29/6/12	F.	Importance of seed treatment for insect pest & disease management.	P.P.	1	Off	30		30			0	30	0	30
13/6/12	F.	Fertilizer management in cotton and groundnut	Agron.	1	On	25		25			0	25	0	25
26/6/12	F.	Importance of seed treatment for the pest and diseases management.	P.P.	1	On	16		16			0	16	0	16
7/7/12	EF	Production technology of Kharif crops	P.P	1	On	21		21			0	21	0	21

13/7/12	EF	Importance of Animal Husbandry during scarcity in Agriculture	A.S.	1	On	45		45			0	45	0	45
18/7/12	PF	Role of bio pesticides for the insect pest management	P.P	1	On	19	10	29			0	19	10	29
19/7/12	PF	Rain water harvesting and their efficient use for crop production	A.E.	1	On	45	1	46			0	45	1	46
23/7/12	EF	Integrated nutrient management	Agron.	1	On	11	10	21	3	4	7	14	14	28
24/7/12	EF	Integrated pest management in kharif crop	P.P	1	On	10	10	20	3	4	7	13	14	27
25/7/12	PF	High-tech AgriGreen house	Horti.	1	On	10	14	24	2		2	12	14	26
4/8/12	F.W.	Drudgery reducing devices for farm women	H.S.	1	Off		23	23			0	0	23	23
4/8/12	F.	Emerging pest & disease of Bt.cotton & their management.	P.P.	1	Off	26		26			0	26	0	26
4/8/12	F.	Top dressing management in cotton	Agron.	1	Off	25		25			0	25	0	25
7/8/12	F.	Use of mineral mixture in feeding for cattle and buffaloes	A.S.	1	Off	32		32			0	32	0	32
8/8/12	F.	Importance of organic farming	Agron.	1	Off	25		25			0	25	0	25
21/8/12	R.Y.	Preparation of bakery products.	H.S.	1	Off		29	29			0	0	29	29
21/8/12	F.	Role of bio pesticides for the insect pest management	P.P.	1	Off	26		26			0	26	0	26

22/8/12	EF	Crop contingency planning & implementation of watershed programme	Agron.	1	On	32	7	39			0	32	7	39
23/8/12	FW	Income generation through candle & shop making	H.S.	1	Off		26	26		1	1	0	27	27
23/8/12	PF	Crop contingency planning & increase yield under dry land are	Agron.	1	On	65	6	71			0	65	6	71
24/8/12	PF	Watershed management	A.E.	1	On	64	7	71			0	64	7	71
5/9/12	FW	Preparation of milk products	H.S.	1	Off		27	27			0	0	27	27
7/9/12	PF	Cottage level food processing entrepreneur-ship for farmers	A.E.	1	On	113	9	122	11		11	124	9	133
8/9/12	F.	Contingency plan for aberrant weather condition	Agron.	1	Off	40		40			0	40	0	40
18/9/12	F.	Rodent management for safe food storage	P.P.	1	Off	22		22	1		1	23	0	23
19/9/12	F.	Importance of scientific breeding and feeding practices in animals	A.S.	1	Off	48	2	50			0	48	2	50
20/9/12	PF	Scientific dairy farming	A.S.	1	On	17		17			0	17	0	17
25/9/12	F.	In-situ moisture conservation practices under dry land agriculture	Agri. Engg.	1	Off	25		25			0	25	0	25
26/9/12	F.	Post harvest technology of different field crops	Agri. Engg.	1	Off	44		44			0	44	0	44

27/9/12	F.	Selection and maintenance of farm machinery and	Agri. Engg.	1	Off	29	1	30		0	29	1	30
		implements											
28/9/12	F.	Importance of primary tillage for rabi crops	Agron.	1	Off	26		26		0	26	0	26
29/9/12	F.	Use of improved small farm implements in agriculture	Agri. Engg.	1	On	21		21		0	21	0	21
29/10/12	R.Y.	Fruits and vegetables preservation	H.S.	1	On		23	23	7	7	0	30	30
16/10/12	F.	Biological control: modern concept in pest management.	P.P.	1	Off	30		30		0	30	0	30
3/11/12	F.	Installation and maintenance of micro irrigation system	Agri. Engg.	1	Off	25		25		0	25	0	25
17/12/12	F.	Irrigation management in wheat and gram	Agron.	1	Off	32		32		0	32	0	32
18/12/12	FW	Fruits and vegetable preservation	H.S.	1	On		29	29		0	0	29	29
19/12/12	F.	Top dressing management in Rabi crops	Agron.	1	Off	35		35		0	35	0	35
28/12/12	F.	Ecofriendly management of insect pest & disease in vegetable crops.	P.P.	1	Off	27		27		0	27	0	27
28/12/12	F.	Use of plastic in farming practices	Agri. Engg.	1	Off	26		26		0	26	0	26
29/12/12	F.	IPM and IDM in <i>Rabi</i> crops	P.P.	1	Off	21		21		0	21	0	21
18/1/13	F.	Manag.of insect pest & disease in summer crops.	P.P.	1	Off	47		47		0	47	0	47

28/1/13	F.W.	Vaseline and bam making	H.S.	1	Off		29	29	2	2	0	31	31
29/1/13	F.	Weed management in wheat and gram	Agron.	1	Off	30		30		0	30	0	30
29/1/13	EF	Micro irrigation system	A.E.	1	On	19		19		0	19	0	19
5/2/13	F.W.	Value addition in groundnut and sesamum	H.S.	1	Off		18	18		0	0	18	18
8/2/13	F.	Green fodder management round the year	A.S.	1	Off		17	17		0	0	17	17
8/2/13	F.	Store grain pest & their management	P.P.	1	Off	19		19		0	19	0	19
15/2/13	F.W.	Preparation and preservation of fruits & vegetables	H.S.	1	Off		20	20		0	0	20	20
21/2/13	F.	Small scale processing and value addition	Agri. Engg.	1	Off	27		27		0	27	0	27
24/12/12	F.	Pest & disease management in rabi crops	P.P.	1	On	22		22		0	22	0	22
25/12/12	F.	Efficient use of micro irrigation system	Agri. Engg.	1	On	23		23		0	23	0	23
26/12/12	F.	Production technology of Rabi vegetables	Horti.	1	On	12		12		0	12	0	12
28/12/12	F.W.	Home level processing of tomato	H.S.	1	On		52	52	2	2	0	54	54
29/12/12	F.W.	Preparation of milk products	H.S.	1	On		28	28	2	2	0	30	30
03/1/13	R.Y.	Value addition in anola	H.S.	1	On		20	20		0	0	20	20
8/1/13	F.	Management of reproductive disorders in animal	A.S.	1	On		14	14		0	0	14	14
22/2/13	F.	Climate change in agriculture	Agron.	1	Off	34		34		0	34	0	34

		agomen		Tota	l (73)	1691	545	2236	20	25	45	1711	570	2281
5/1/13	EF	Integrated pest management	P.P	1	On	18		18			0	18	0	18
1/1/13	PF	Nursery management	Horti.	1	On	22		22			0	22	0	22
23/3/13	PF	Use of cotton stalk shredder, rotavator & mobile chopper for recycling of farm waste	A.E.	1	On	20		20			0	20	0	20
15- 20/3/13	R.Y.	Fruits and vegetable preservation	H.S.	6	Off		69	69		3	3	0	72	72
12/3/13	R.Y.	Fancy patch work and hand work stitches	H.S.	1	Off		22	22			0	0	22	22
7/3/13	F.	Importance of Artificial Insemination in Cattle& Buffalo	A.S.	1	Off	17		17			0	17	0	17
8/3/13	F.	Veterinary first aid & control of infectious diseases	A.S.	1	Off	28		28			0	28	0	28
7/3/13	R.Y	Different methods of tie and dye work	H.S.	1	Off		22	22			0	0	22	22
6/3/12	PF	Insect pest & disease management in summer crop	P.P	1	On	29		29			0	29	0	29
22/2/13	F.	Importance of non- conventional source of energy	Agri. Engg.	1	Off	28		28			0	28	0	28