APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	65	1008	261	1269
Rural youths				
Extension functionaries	3	124	-	124
Sponsored Training	7	220	17	237
Vocational Training	3	65	22	87
Total	**78**	**1417**	**300**	**1717**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	10	4.0	1
Pulses	12	4.8	1
Cereals	10	4.0	1
Vegetables			
Other crops (Cumin)	10	4.8	1
Hybrid crops (Bt. Cotton)	10	4.8	1
Total	**52**	23.2	
Livestock & Fisheries	30	2.0	1
Other enterprises (Solar Cooker)	10	-	-
Improved sickle	10	-	-
Total	**50**	2.0	
Grand Total	102	25.0	

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	1	3	1
Livestock	2	6	24
Various enterprises			
Total			
Technology Refined			
Crops	3	5	8
Livestock			
Various enterprises	2	4	6
Total			
Grand Total	8	18	39

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	199	18448
Other extension activities	773	744
Total	**972**	**19192**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Lives tock	Weather	Marke-ting	Aware-ness	Other enter prise	Total
Rajkot-I	Text only	27	9	76	-	-	-	112
	Voice only							
	Voice & Text both							
	Total Messages	27	9	76	-	-	-	112
	Total farmers Benefitted	54261	18000	228000				300261

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	101.82	38745
Planting material (No.)		
Bio-Products (kg)	8360	766200
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	5619	280950
Water	5528	276400
Plant	15	
Total	11162	557350

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	3
2	Conferences	1
3	Meetings	4
4	Trainings for KVK officials	3
5	Visits of KVK officials	
6	Book published	-
7	Training Manual	-
8	Book chapters	-
9	Research papers	1
10	Lead papers	-
11	Seminar papers	2
12	Extension folder (popular articals)	13
13	Proceedings	1
14	Award & recognition	-
15	On going research projects	-

ANNUAL PROGRESS REPORT
(April-2015 to March-2016)

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	Telephone		E mail
	Office	FAX	
Junagadh Agricultural University, Junagadh (Gujarat)	(0285) 2672080	(0285) 2672653	dee@jau.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. A. V. Khanpara	B-15, Radhe krishna Nagar Society, Nr. Moti Baugh Junagadh – 362001	9427736721	alpesh@jau.in

1.4 Year of Sanction: September – 2004

1.5 Staff Position (as on 30th March, 2016)

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)	Mobile no.	Age (Year)	Email id
1	Programme Coordinator	Dr. A. V. Khanpara	Programme Coordinator	Agril. Ento.	15600-39100	23600/-	25-3-15	Permanent	General	94277 36721	38	alpesh@jau.in
2	SMS	Dr. M. M. Tajpara	SMS (Animal. Sci)	Ani Sci.	15600-39100	28220/-	4-8-15	Permanent	General	94276 67135	38	tajpara1978@rediffmail.com
3	SMS	Vacant	SMS (Agron.)	Agro.	-	-	-	-	-	-	-	-
4	SMS	Shri D. A. Saradava	SMS (Pl.Protection)	Agril. Ento.	15600-39100	31860/-	27-5-09	Permanent	General	94267 84628	55	dsaradava@yahoo.co.in
5	SMS	Vacant	SMS (Horti.)	Horti.	-	-	-	-	-	-	-	-
6	SMS	Vacant	SMS (Agril. Engg.)	Agri. Eng.	-	-	-	-	-	-	-	-
7	SMS	Mrs. H. H. Padsumbiya	SMS (Home Sci.)	Home Sci.	15600-39100	21600/-	17-8-06	Permanent	General	99796 73732	35	hetalmanvar28@gmail.com
8	Farm manager	Shri R. L. Vasoya	Farm manager	B.Sc. Agri.	9300-34800	21460/-	21-1-12	Permanent	General	93757 68912	57	-
9	Programme Assistant	Shri Anup B. Dabhi	Programme Assistant	M.Sc.	9300-34800	13700/- Fix	7-8-14	Permanent	General	90333 43199	29	Dikimax@yahoo.in
10	Computer Programmer	Miss. R. T. Padaliya	Computer Programmer	-	9300-34800	10810/-	3-1-09	Permanent	General	99790 27064	31	rtpadaliya@jau.in
11	Acc. / Sup.	Vacant	A/c. Officer	-	-	-	-	-	-	-	-	-
12	Steno-grapher	Shri B. J. Lalkiya	Junior Steno	-	9300-34800	17710/-	01-5-07	Permanent	General	94282 96066	57	-
13	Driver	Vacant	Jeep Driver-Cum Mechanic	-	-	-	-	-	-	-	-	-
14	Driver	Vacant	––ш––	-	-	-	-	-	-	-	-	-
15	Supporting staff	Smt.U.G.. Zala	Supporting Staff	-	4440-7440	8910/-	16-9-04	Permanent	General	94266 09163	54	-
16	Supporting staff	Shri Y. B. Joshi	––ш––	-	4440-7440	9710/-	2-6-09	Permanent	General	99794 67314	59	-

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

Sr. No	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			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	263954	Working
Tata Sumo	2008	600000	191359	Not Working, Purchase from MP grant
Motorcycle	2010	50000	32099	Working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
1	**2**	**3**	**4**
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

1	2	3	4
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-CB50NTE-2GA (Panasonic)	2009	92155	Working
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 13th SAC meeting conducted on 29th January, 2016.

Name and Designation of Participants	Salient Recommendations	Action taken
1	2	3
Dr. A.R. Pathak, Honorable Vice Chancellor, JAU, Junagadh.	To take on campus training on balance feeding of pregnant animal in 3rd quarter	Suggestion accepted & Implemented
Dr. A.M. Parakhia, Directorate of Extension, JAU, Junagadh		
Dr. V.N. Patel,RS (DFRS), Targhadia	To take training on organic farming	Suggestion accepted & Implemented
Dr. G. R. Sharma, Principal, Polytechnic in Agri. Engg., Targhadia		
Shri. B.H. Agatha, DAO, District Panchayat, Rajkot	To don't conduct the OFT on Goat supplementation in action plan	Suggestion accepted & Implemented
Shri. R.H. Ladani, Depty. Director of Horti., Dist. Panchayat , Rajkot.		
Dr. S. K. Tiwari, STO, NHRDF, Rajkot	To increase FLD on pink boll worm management in cotton upto 40	Suggestion accepted & Implemented
Dr. H. D. Kansagra, Deputy director of Animal Husbandry, Rajkot		
N. B. Rupapra, NHRDF, Rajkot	To give charge of Agronomy to Agriculture officer	Suggestion accepted & Implemented
Shri. M.B. Nasit, PD, ATMA ,Rajkot		
Shri J. R. Gujarati, JND, Rajkot	To give 50 FLD on GJG-22 variety of Groundnut instead of 5	Suggestion accepted
V. D. Modad, DDK, Rajkot		
Shri V. K. Dholariya , All India Radio, Rajkot	To take FLD on Makhan Grass	Suggestion accepted
Dr. M.D.Pethani, V.O., Gopal Dairy, Rajkot		
Dr. A.H. Patel,V.O., Gopal Dairy, Rajkot	To Develop Fodder demonstration unit (Zinzvo) at kvk	Suggestion accepted
Shri Tejas Tank, MDT(Agri), DWDO, Rajkot		

Shri Jatin B., DWDO, Rajkot Dr. N. S. Joshi, PC, KVK, Amreli	To add the treatment of urea on OFT of white grub management in groundnut	Suggestion accepted & Implemented
Dr. N. B. Jadav, PC, KVK, Pipalia, Dist. Rajkot Dr. M. S. Chandavat, PC, KVK, Nana Kandhasar, Dist. Surendranagar	To present impact study of old selected village of KVK	Suggestion accepted
Dr. B. B. Kabaria, DFRS, Targhadia Shri Jentibhai H.Moliya , Farmer, Village: Dhokaliya, Tal: Padadhri, Dist.: Rajkot	To present PRA survey of new selected village of KVK	Suggestion accepted
Shri Yuvrajsing K. Jadeja ,Farmer, Village: Dhokaliya, Tal: Padadhri, Dist.: Rajkot Shri. Kantilal H.. Limbasiya, Progressive Farmer, Dungraka, Tal : Paddhari & Dist.: Rajkot Shri. Dipak D. Limbasiya, Progressive Farmer, Dungraka, Tal : Paddhari & Dist.: Rajkot Shri Vallabhbhai R. Mungpara Progressive Farmer (A.H.), Padasan, Tal. Rajkot	To change title of training on management of pink boll worm in cotton instead of management of new emerging insect pest and disease of Bt cotton.	Suggestion accepted & Implemented
Shri Muhmmadbahi Shekh Progressive Farmer , Tithva, Tal. Wankaner Shri Karansigh Solanki, Retired SD, DDK, Rajkot Dr. M. M. Tajpara, PC, KVK, Targhadia Dr. A. V. Khanpara PC, KVK, Targhadia	To change the collobrative training IPM and IDM in Bt cotton instead of IPM in Bt cotton.	Suggestion accepted & Implemented

2. DETAILS OF DISTRICT

2.1. Major farming systems/enterprises
2.2. (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 Saurashtra Agro Climatic Zone (VI)	The total geographical area of North Saurashtra Agro Climatic Zone is 35.2 Lacs ha. Out of total area, 73.40 per cent area falls under arid and semi-arid region. The soils of this zone are shallow to moderately 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 648 mm while 587.2 mm during 2015-16.

Sr. No	Agro ecological situation	Characteristics	Taluka Covered*
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

- 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
3.	Sandy to Sandy 10 cm, Calcareous	Well drained soils	

2.4. Area, Production and Productivity of major crops cultivated in the district (2013-14)

Sr. No	Crop	Area (ha)	Production (MT)	Productivity (Kg. /ha)
1.	Groundnut	326143	893377	2739
2.	Cotton	329657	1025021	3109
4.	Sesamum	13368	8661	648
5.	Castor	11919	30508	2560
6.	Wheat	145437	563260	3873
7.	Gram	15382	22683	1475
8.	Cumin	42992	33440	778

2.4 Weather data (April 2015 to March 2016)

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April	-	44.0	21.1	92
May	-	43.2	23.8	95
June	257.9	42.5	23.3	98
July	193.1	37.0	23.0	92
August	10.3	34.9	24.2	92
September	125.9	36.6	20.5	98
October	-	38.4	15.0	91
November	-	36.4	11.8	83

December	-	36.5	7.6	81
January	-	33.0	8.1	84
February	-	36.2	11.0	89
March	-	37.4	17.0	85
Total	**587.2**			

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

Category	Population ('000 Nos.)	Production ('000 tone)	Productivity
Cattle			
Cows	452	3326.90	
Buffalo	362	5284.70	
Sheep	263.40	266.81(Production of wool)	
Goats	197	231.24	
Pigs	1		
Crossbred			
Indigenous			
Poultry		**(Production of eggs 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. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Jasdan	Cluster I	Khadvavdi	*Groundnut, Cotton, Sesamum, Wheat, Cumin, Gram Chickpea, Garlic, Onion. *Enterprises are dairy business, Vermi composting, preparation of roasted groundnut and chikki from groundnut seed	Pink ball worm in Cotton,Heavy infestation of sucking pest in cotton , phytopthora disease in sesamum and white grub infestation in groundnut. Long inter-calving period in Buffalo, Nutritional deficiency in animal feed and fodder, Less area under Horticultural crops	* IPM and INM in major crops of this area * Increase drainage of soil * Reducing the inter-calving period in Buffalo * Motivate the farmers for arid Horticultural crops. * Efficient use of irrigation water * To create the awareness for grading, processing and marketing (value addition)
			Adhiya			
			Bhandariya			
			Gadhadiya			
			Rajavadla			
2	Rajkot	Cluster II	Sardhar			
			Gadhaka			
			Aniyala			
			Lili sajdiyali			
			Padasan			
3	Paddhari	Cluster III	Bodighodi			
			Mora rampar			
			Movaiya			
			Dungraka			
			Adbalka			

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 empowerment	Providing self employment through skill oriented income generating 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 generating activities	Self employment among rural youth and skill oriented income generating activities.
Nutrition management	Care and importance of nutrition in children & pregnant women.

3. TECHNICAL ACHIEVEMENTS

3.A Details of target and achievements of mandatory activities by KVK during 2015-16

OFT				FLD			
1				*2*			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
9	8	40	39	102	102	102	102

Training (including sponsored, vocational and other trainings carried out under Rainwater Harvesting Unit)					Extension Activities			
3					*4*			
Number of Courses			Number of Participants		Number of activities		Number of Participants	
Clientele	Targets	Achievement	T	A	T	A	T	A
Farmers	78	72	1950	1506	-	-	-	-
Rural youth	2	3	50	87	-	-	-	-
Extn. Functionaries	4	3	100	124	-	-	-	-
Total	**84**	**78**	**2100**	**1717**	**-**	**972**	**-**	**19192**

Seed Production (Qtl.)			Planting material (Nos.)		
5			*6*		
Target	**Achievement**	**Distributed to no. of farmers**	**Target**	**Achievement**	**Distributed to no. of farmers**
-	101.82	-	-	-	-

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation				
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology	Groundnut	Low yield in groundnut due to improper tillage practice	3	1
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
Total			**3**	**1**

Summary of technologies assessed under livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management	Buffalo	Assessment of Fertility improvement in Buffalo	3	13
Nutrition Management				
Production and Management	Cow and Buffalo	To assess the effect of probiotic and prebiotic on milk production.	3	11
Others (Pl. specify)				
Total			6	24

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers

I.B. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops by KVKs

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers
Integrated Nutrient Management	Cotton	Low yield of cotton	3	2
Varietal Evaluation				
Integrated Pest Management	G'nut	Management of White grub in Groundnut.	1	3
Integrated Crop Management				
Integrated Disease Management	Cumin	Use of Trichoderma for wilt disease management in cumin	1	3
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				

Integrated Farming System				
Seed / Plant production				
Value addition				
Drudgery Reduction	Home Science	Comparison of solar Cooker With Traditional cooking system	2	3
Storage Technique	Home Science	Effect of salt & oil on spoilage of mango pickles	2	3
Others (Pl. specify)				
Total			**9**	**14**

Summary of technologies refined under various livestock by KVKs

Thematic areas	**Name of the livestock enterprise**	**Name of the technology refined**	**No. of trials**	**No. of farmers**
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management				
Others (Pl. specify)				
Total				

Summary of technologies refined under various enterprises by KVKs

Thematic areas	**Enterprise**	**Name of the technology assessed**	**No. of trials**	**No. of farmers**

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

PEST AND DISEASE MANAGEMENT

1.

Problem definition: *Heavy infestation of white grub in groundnut effecting in a yield loss 10 to 15% according to area specific.*

Technology Assessed or Refined (as the case may be): *Management of white grub in groundnut crop.*

Groundnut is an important commercial crop of northen saurashtra, since last five year there is high incidence of white grub intesting resulting in yield loss. KVK Rajkot-I & Rajkot-II conducted on farm trial to refine the control measure. The refine technology of seed treatment with chlorphyrifos 25 W.D.A @ 2 gm/ Kg seed and clothianidin 25 EC @ 25ma/Kg seed reduced. The percentage of infestation reduce from 6.7 to 1.6 and 1.5 respectively.

Table Effect of chlothianidin and chlorphyriphos in control of white grub in groundnut.

Technology Option	***No.of trials***	***Incidence of leaf curl (%)***	***Yield (kg/ha)***	***% Increase in yield over farmer's practice***
Sowing of groundnut without Seed treatment. (Farmers practice)	*1*	*6.7*	*2860*	*--*
Seed treatment with chlorpyriphos 25 E.C.@ 25 ml/kg seed.(GAU Reco.,Tech.-1)		*1.6*	*3108*	*8.6*
Seed treatment with clothianidin 50 WDG 2 g/kg seed (AINP on White grub and Other Soil Arthropods, , RARI, Department of Entomology Durgapura, Jaipur 2008) (Tech.-2))		*1.5*	*3110*	*8.7*
Metarhizium anisoplii @ 1.5 Kg + 250 Kg Castor cake/ha. Furrow application at the time of sowing (Tech.-3)		*6.4*	*2905*	*1.5*

2.

Problem definition: *Heavy incidence of wilt disease in cumin effecting in a yield loss of 10 to 15% and income loss of Rs. 12000/- to 18000/- per ha.*

Technology Assessed or Refined (as the case may be): *Use of Trichoderma for wilt disease management in cumin*

Cumin is an importance commercial spice crop of northern saurashtra. There is high incidence of wilt disease resulting in yield loss. KVKs Targhadia (Rajkot-I) conducted on farm trial to refined the control measure. The refined technology of application of Trichoderma 5 Kg.ha with organic compost 1000 Kg/ha at time of sowing and second application 15 days after germination reduce the percentage of disease incidence from 7.9 to 2.5 and yield was increased by 17.17 percent.

Table Effect of Trichoderma for management of wilt in cumin.

Technology Option	*No.of trials*	*Incidence of leaf curl (%)*	*Yield (kg/ha)*	*% Increase in yield over farmer's practice*
No use of trichoderma or fungicide at the time of sowing. But they use fungicides viz., carbendazim, hexaconazole, difenconazole, tebuconazole, propiiconazole, , etc after of initiation of diseases. (Farmers practices.)	*1*	*7.9*	*943*	*-*
Application of Trichoderma @ 5 kg /ha with organic manure @1000 kg / ha at the time of sowing.. (Recommended practices.)		*3.5*	*1050*	*11.3*
Application of Trichoderma @ 5 kg /ha along with organic manure @1000 kg / ha at the time of sowing and second application of Trichoderma @ 5 kg /ha along with organic manure by broadcasting method at 15 days after germination. (Intervention).		*2.5*	*1105*	*17*

NUTRIENT MANAGEMENT

Problem definition: *Lower productivity in cotton due to imbalance use of fertilization.*

Technology Assessed or Refined (as the case may be): *Low yield of cotton.*

KVK, Targhadia(Rajkot-I) conducted on farm trial to find out appropriate nutrient management practice to enhance the cotton productivity. The refined practice of application of nutrient as per soil analysis was found to better with ner profit Rsa. 86900/ha (B:C ratio 3:1) where as farmer practice net profit Rs 74400/ha and (B:C ratio 2.8). The highest yield obtained in treatment T2 (2675 Kg/ha) application fertilizer as per recommendation .

Table Effect of nutrient management on cotton yield

Technology Option	*No.of trials*	*Net profit(Rs)*	*Yield (kg./ha)*	*Increase in Yield (%)*	*B:C Ratio*
Farmer's practices	*3*	*74400*	*2425*	*-*	*2.8*
Recommended dose of fertilizer 240 – 50 – 150 + 50 ZnSO4 and three spray of KNO3 *(i) 240 Kg N in four equal split first as a basal second, third and fourth at 30, 60 and 90 days after sowing.* *(ii) 50 Kg P2O5 as basal dose.* *(iii) 150 Kg K2O as basal or in two equal split.* *(iv) Three spraying of KNO3 at 15 days interval starting from flowering.*		*86400*	*2675*	*10.3*	*3.0*
Fertilizes application as per Soil analysis report (Intervention)		*86900*	*2650*	*9.2*	*3.1*

B:C ratio and net profit higher in T3 treatment but lower fertilizer application as compere to T2

RESOURCE CONSERVATION

Problem definition: *Low yield in groundnut due to improper tillage practice.*

Technology Assessed or Refined (as the case may be): Lack of soil moisture conservation through proper tillage practice.

The KVK Targhadia conducted on farm trial on low yield in groundnut due to improper tillage practice. In treatment with deep ploughing with 2-3 intercultering had enhanced the groundnut yield 9.4% with moisture conservation 22.65%.

Table Effect of tillage practice on yield and moisture conservation in groundnut.

Technology Option	*No.of trials*	*Yield (Kg/ha)*	*Net Returns (Rs./ha)*	*BC Ratio*	*Moisture conservation (%)*
Shallow ploughing with 5-6 interculturing (Farmer method)	*3*	*795*	*16855*	*1.66*	*20.1*
Deep ploughing with 2-3 interculturing (Recommendation)		*870*	*21650*	*1.88*	*22.65*
Medium deep ploughing with 3-4 interculturing (Intervention)		*825*	*19138*	*1.77*	*21.5*

LIVE STOCK ENTERPRISES

1.

Problem definition: *long intercalving period*

Technology Assessed or Refined (as the case may be):*Assessment of fertility improvement in buffalo*

KVK, Rajkot conducted trial to find out treatment for fertility improvement in buffaloas as the recommended practice(hormonal) could not increase fertility improvement to the desired level. The technology recommended was fine tuned by including mineral mixture , deworming, and heat inducing tablet.

Table :Effect of hormonal therapy with mineral mixture, deworming and heat inducing tablets in the fertility imporovement of buffalo

Technology Option	*No.of trials*	*Per cent*	
		Heat occurance	*conception rate*
Farmers practice	*3*	*36%*	*36%*
Treated by"OVSYNCH".protocol as per NDRI karnal (Recommended practice)		*67%*	*49%*
Recommended practice + treated with mineral mixture +deworming+ heat inducing tablets		*81%*	*79%*

2.

Problem definition: Improper mixing and proportion of cereals, legumes and concentrate in animal feed leads to imbalance microbial activity and result in to low digestibility which leads to decrease milk production

Technology Assessed or Refined (as the case may be): To assess the effect of probiotic and prebiotic on milk production.

KVK, Rajkot conducted trial to find out effect of probiotic and prebiotic on milk production. In which farmer practices (Dry & green fodder, concentration, and cotton seed cake) could not increase milk production of desired level. So farmer practices was fine tuned by including prebiotic & probiotic therapy for enhance of milk production.

Table Effect of prebiotic & probiotic in milk production

Technology Option	***No.of trials***	***Milk production kg /lactation***
Farmers practice (Dry and & green fodder, concentration and cotton seed cake)	*3*	*1560 kg /lactation*
Farmer practices + Use of Probiotic & prebiotic in animal feed (Sacchromyses cerevisiae + Lactobacillus sporogenes+ Aspergillus oryzae+ Fructo oligosaccharide+ Biotin+ DL Methionine + Zinc Sulphate + Cobalt Sulphate Copper Sulphate) two bolus per day for 6o days		*1680 kg/ lactation*

OTHER ENTERPRISES

1.

Problem definition: spoilage in mango pickles

Technology Assessed or Refined (as the case may be): To assess the effect of probiotic and prebiotic on milk production.

KVK, Rajkot conducted on farm trail on Effect of salt & oil on spoilage of mango pickles . Total three farm women were selected for the trails. The treatment Salt 20% (200 gm) + Oil 200 ml/ kg mango maintained color texture and self life of the pickle since 180 days while in general practice slightly fungy aroma and dark brown colour was observed . In addition 30.5% and 32.4% cost could be saved in recommended and refined practice than general practice.

Table Effect of salt and oil on colour, texture & aroma of mango pickle.

Technology Option	**Self life (days)**	**Colour**	**Texture**	**Aroma**	**Cost saving (%)**
General practices - Salt 12% (120 gm) + Oil 800 ml/ kg mango	180	Dark brown	Soft	Slight fungy aroma after monsoon	-
Recommended practices - Salt 15% (150 gm) + Oil 250 ml/ kg mango	180	Brown	Hard to soft	Good aroma	30.5
Refinement - Salt 20% (200 gm) + Oil 200 ml/ kg mango	180	Red brown	Hard to soft	Good aroma	32.4

2.

Problem definition: Drudgery of farm women in traditional cooking system

Technology Assessed or Refined (as the case may be): *Comparison of solar Cooker with traditional cooking system*

KVK, Rajkot conducted on farm trail on Comparison of solar Cooker with traditional cooking system. Total three farm women were selected for the trails with traditional cooking system. Three items like, Mango Murabba, Sweet Potato and Salted Groundnut were prepared by traditional method, sunlight heat and solar cooker. The result showed that solar cooking saved time, fuel consumption and cost considerably in all the items.

Table Effect of time Consumption, Fuel Consumption and cost saving by Comparison of solar Cooker with traditional cooking system.

Sr. No.	Item	Salted Groundnut			Sweet Potato			Mango Murabba		
	Observation	Traditional Method (Firewood)	Preparation by Roasting (Gas)	Solar Cooker	Traditional Method (Firewood)	Preparation by Roasting (Gas)	Solar Cooker	Traditional Method	Sunlight Heat	Solar Cooker
1	Time Consumption (minute)	40	25	170	20	50	120	1.35hrs.	34.45 hrs.	3.45 hrs.
2	Fuel Consumption (g)	600	95	-	300	180	-	150 g. gas	-	-
3	Cost Saving (%)	-	16.20	29	-	11.5	52.3	-	10.7 %	13.7 %
Organolaptic Test										
a	Taste	4	6	7	4	4	6	4	5	6
b	Consistency	4	5	8	3	5	6	4	6	7
6	Overall Acceptance	-	-	√	-	-	√	-	-	√
d	Texture							5	5.6	6.9

Note:

1. Organolaptic test based on ranking method as follows
   1-3 Dislike 4-6 Like 7-9 Most like
   The data is average value of ranking given by the group of women

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during *Kharif* 2015-16 & *Rabi* 2014-15 and recommended for large scale adoption in the district.

Sr. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the extension system	Horizontal spread of technology		
					No. of villa.	No.of farmer	Area in ha
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*
1	Groundnut	Pest management	IPM	Management of white grub through seed treatment	4	10	4.0
2	Pigeon pea	Inter cropping	Inter cropping	Inter cropping of pigeon pea with groundnut crop	1	2	0.8

3	Cotton	Crop Production	INM (Bt. Cotton)	Nutrient management in Bt. cotton	5	10	4.0
4	Gram	Varietal evaluation	Variety (GJG-3)	To test yield potentiality of Gram	4	10	4.0
5	Wheat	Quality Production	Variety (GW-366)	Quality production of wheat through spraying of fungicide at milking stage.	7	10	4.0
6	Cumin	Pest Management	IPM	Management of wilt through bio agent	6	10	4.0

b. Details of FLDs implemented

Oilseeds

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for short-fall
					Proposed	Actual	SC/ ST	Others	Total	
1	Groundnut	Pest management	IPM	Kharif 2015-16	4.0	4.0	2	8	10	-

Pulses

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for short-fall
					Proposed	Actual	SC/ ST	Others	Total	
1	Gram	Varietal evaluation	Variety (GJG-3)	Rabi 2014-15	4.0	4.0	1	9	201	-
2	Pigeon pea	Inter cropping	Inter cropping	Kharif 2015-16	0.8	0.8	-	2	2	-

Others

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for short-fall
					Proposed	Actual	SC/ ST	Others	Total	
1	Cotton	Crop Production	INM (Bt. Cotton)	Kharif 2015-16	4.0	4.0	-	10	10	-
2	Improved sickle	Durgery reduction	Durgery reduction	-	-	-	1	9	10	-
3	Buffalo	Nutrient Manage-ment	Chelated mineral mixture power	-	-	-	3	17	20	-
4	Lucerne Anand-3	Fodder Manage-ment	New fodder variety (Lucerne Anand-3)	Rabi 2014-15	2.0	2.0	1	9	10	-
5	Solar energy	Solar energy	solar cooker	-	-	-	-	10	10	-

Commercial crops (Cumin & Wheat)

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for short-fall
					Propo-sed	Actual	SC/ ST	Others	Total	
1	Wheat	Quality Production	Variety (GW-366)	Rabi 2014-15	4.0	4.0	2	8	10	-
2	Cumin	Pest Management	IPM	Rabi 2014-15	4.0	4.0	1	9	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	*Kharif*	RF	M. B.	L	M	H	Wheat/ Cumin	15/6/15	25/10/15	587.2	33
Pigeon pea	*Kharif*	RF	M. B.	L	M	H	Wheat/ Cumin	23/06/15	30/10/15	587.2	33
Cotton	*Kharif*	RF	M. B.	L	M	H	-"-	19/6/15	-	587.2	33
Gram	*Rabi*	Irrigated	M. B.	L	M	H	Cotton/ G'nut	20/11/14	28/03/15	-	-
Wheat	*Rabi*	Irrigated	M. B.	L	M	H	-"-	22/11/14	12/03/15	-	-
Cumin	*Rabi*	Irrigated	M. B.	L	M	H	-"-	08/11/14	02/03/15	-	-

M. B. – Medium Black

Technical Feedback on the demonstrated technologies

Sr. No.	Feed Back
1	To enhance the farmers to use recently developed certified varieties of different crops.
2	Proper use of fertilizers, Irrigation, insecticides and fungicide as per recommendation to 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 (Black spot on grain)
5	Reddening in 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	4	-	103	-
2	Media coverage	-	-	-	-
3	Kisan Ghosthi	3	-	46	-
4	Field day	2	-	53	-
	TOTAL	**9**		**202**	

Performance of Frontline demonstrations
Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut	Pest Management	IPM	GG-20	10	4.0	43.80	22.30	29.64	27.00	9.78	32875	140470	107595	4.27	31075	124020	92945	3.9

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Eq Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Pigeonpea	Inter cropping	Inter cropping	Inter cropping of pigeon pea with Groundnut crop	2	0.8	27.53	26.85	27.53	25	10.12	39300	137650	98350	3.50	38100	125000	86900	3.28
Chickpea	Varietal evaluation	Variety	GJG-3	10	4.0	36.20	28.50	32.61	30.38	7.34	26873	102721	75884	3.8	26376	95697	69321	3.6

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check											
					High	Low	Average			Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cotton	Crop pruoduction	INM	10	4.0	28.40	18.90	24.98	23.16	7.86	-	-	42800	119904	77104	2.80	42000	111168	69168	2.65
Wheat	Quality Production	Quality Production	10	4.0	64.00	43.75	56.98	56.40	1.03	-	-	29600	104843	75243	3.54	28400	97572	69172	3.40
Cumin	Pest Management	IPM	10	4.0	12.75	6.25	10.19	9.47	7.6	-	-	31765	117185	85420	3.69	30590	108905	78315	3.56
Lucerne Anand-3	Fodder Manage-ment	New fodder variety (Lucerne Anand-3)	10	2.0	725	600	17.25	-	-	-	-	121000	130250	9250	1.08	115000	121800	6800	1.06

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Buffalo	Nutrient Manage-ment	Chelated mineral mixture power	20	1	1550	1475	5.06	-	-	58125	76635	18510	1.32	57825	70560	12735	1.22

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Farm women	Solar cooker	10	Use of Fire Wood, Kerosene, LPG Cylinder and timing	* Detail of FLDs	-

*

Detail	With Conventional cooking / Member/month		With Solar cooking / member/ month		Saving/ member/ month	
	Energy	Cost (Rs)	Energy	Cost (Rs)	Energy	Cost (Rs)
Fire Wood	11 kg	44	6 kg	24	5 kg	20
Kerosene	2 lit.	80	1 lit.	40	1 lit.	40
LPG Cylinder	2.96 kg	97	1.76 kg	58.25	1.2 kg	40

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total
Improved sickle	-	Effect of improved sickle in drudgery reduction while harvesting crops	10	-	* Detail of FLDs											

*

Technology option	No. of Demon.	Level of drudgery	Physical stress	Work output	Field acceptability	Increase in working efficiency
Improved sickle	10	Low	Medium	High	High	18%
Local sickle		High	High	Medium	Medium	-

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming	1	14		14	2		2	16	0	16
Micro Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management				0			0	0	0	0
Soil & water conservatioin				0			0	0	0	0
Integrated nutrient management				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**1**	**14**	**0**	**14**	**2**	**0**	**2**	**16**	**0**	**16**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops				0			0	0	0	0
Off-season vegetables	1	13		13			0	13	0	13
Nursery raising				0			0	0	0	0
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation	1	46		46			0	46	0	46
Others (pl specify)				0			0	0	0	0
Total (a)	**2**	**59**	**0**	**59**	**0**	**0**	**0**	**59**	**0**	**59**
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and				0			0	0	0	0

Management of Orchards										
Cultivation of Fruit	1	13		13			0	13	0	13
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques	1		22	22			0	0	22	22
Others (pl specify)				0			0	0	0	0
Total (b)	**2**	**13**	**22**	**35**	**0**	**0**	**0**	**13**	**22**	**35**
c) Ornamental Plants										
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production & Manage. Tech.				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production & Manage. Tech.				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production & Manage. Tech.				0			0	0	0	0
Processing and value addition	1	50		50			0	50	0	50
Others (pl specify)				0			0	0	0	0
Total (f)	**1**	**50**	**0**	**50**	**0**	**0**	**0**	**50**	**0**	**50**
g) Medicinal and Aromatic Plants										

Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**5**	**122**	**22**	**144**	**0**	**0**	**0**	**122**	**22**	**144**
III Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Integrated water management				0			0	0	0	0
Integrated Nutrient Management	1	10		10			0	10	0	10
Production and use of organic inputs	1	15		15	3		3	18	0	18
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Balance use of fertilizers				0			0	0	0	0
Soil and Water Testing				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**2**	**25**	**0**	**25**	**3**	**0**	**3**	**28**	**0**	**28**
IV Livestock Production and Management										
Dairy Management	1	20		20			0	20	0	20
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management	3	28	32	60	3	5	8	31	37	68
Feed & fodder technology	2	32		32	3		3	35	0	35
Production of quality animal products				0			0	0	0	0

Others (pl specify)				0			0	0	0	0
Total	**6**	**80**	**32**	**112**	**6**	**5**	**11**	**86**	**37**	**123**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet	1		19	19			0	0	19	19
Designing and development for high nutrient efficiency diet	1		19	19			0	0	19	19
Minimization of nutrient loss in processing				0			0	0	0	0
Processing and cooking	1		8	8		4	4	0	12	12
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	2		27	27			0	0	27	27
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**5**	**0**	**73**	**73**	**0**	**4**	**4**	**0**	**77**	**77**
VI Agril. Engineering										
Farm Machinary and its maintenance				0			0	0	0	0
Installation and maintenance of micro irrigation systems	2	66		66	5		5	71	0	71
Use of Plastics in farming practices	1	24		24			0	24	0	24
Production of small tools and implements				0			0	0	0	0
Repair and				0			0	0	0	0

maintenance of farm machinery and implements										
Small scale processing and value addition	2	52		52			0	52	0	52
Post Harvest Technology				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**5**	**142**	**0**	**142**	**5**	**0**	**5**	**147**	**0**	**147**
VII Plant Protection										
Integrated Pest Management	2	29		29			0	29	0	29
Integrated Disease Management	2	52		52	3		3	55	0	55
Bio-control of pests and diseases	1	18		18			0	18	0	18
Production of bio control agents and bio pesticides	1	20		20			0	20	0	20
Others (pl specify)				0			0	0	0	0
Total	**6**	**119**	**0**	**119**	**3**	**0**	**3**	**122**	**0**	**122**
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of										

Inputs at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X Capacity Building and Group Dynamics										
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Manage. of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming				0			0	0	0	0

Systems										
Others (pl specify)				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**30**	**502**	**127**	**629**	**19**	**9**	**28**	**521**	**136**	**657**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	**No. of courses**	**Participants**								
		Others			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems	1	19		19			0	19	0	19
Crop Diversification				0			0	0	0	0
Integrated Farming	1	14		14	4		4	18	0	18
Micro Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management				0			0	0	0	0
Soil & water conservatioin				0			0	0	0	0
Integrated nutrient management	1	19		19	2		2	21	0	21
Production of organic inputs				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**3**	**52**	**0**	**52**	**6**	**0**	**6**	**58**	**0**	**58**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization	1	13		13			0	13	0	13
Protective cultivation	1	17		17			0	17	0	17
Others (pl specify)				0			0	0	0	0
Total (a)	**2**	**30**	**0**	**30**	**0**	**0**	**0**	**30**	**0**	**30**
b) Fruits										

Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits	1	13		13	2		2	15	0	15
Micro irrigation systems of orchards	1	13		13	1		1	14	0	14
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (b)	**2**	**26**	**0**	**26**	**3**	**0**	**3**	**29**	**0**	**29**
c) Ornamental Plants										
Nursery Management	1	14		14	2		2	16	0	16
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (c)	**1**	**14**	**0**	**14**	**2**	**0**	**2**	**16**	**0**	**16**
d) Plantation crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	1	22		22	5		5	27	0	27

Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (f)	**1**	**22**	**0**	**22**	**5**	**0**	**5**	**27**	**0**	**27**
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**6**	**92**	**0**	**92**	**10**	**0**	**10**	**102**	**0**	**102**
III Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Balance use of fertilizers				0			0	0	0	0
Soil and Water Testing	2	31		31	2		2	33	0	33
Others (pl specify)				0			0	0	0	0
Total	**2**	**31**	**0**	**31**	**2**	**0**	**2**	**33**	**0**	**33**
IV Livestock Production and Management										
Dairy Management	2	40		40	2		2	42	0	42
Poultry Manage.				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management	2	36		36	3		3	39	0	39
Feed & fodder	2	39		39			0	39	0	39

technology										
Production of quality animal products	2	30		30	4		4	34	0	34
Others (pl specify)				0			0	0	0	0
Total	**8**	**145**	**0**	**145**	**9**	**0**	**9**	**154**	**0**	**154**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing and cooking	1		13	13			0	0	13	13
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques	1		27	27			0	0	27	27
Value addition	3		57	57			0	0	57	57
Women empowerment	1		12	12			0	0	12	12
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts	1		13	13		3	3	0	16	16
Women and child care	1		15	15		2	2	0	17	17
Others (pl specify)				0			0	0	0	0
Total	**8**	**0**	**137**	**137**	**0**	**5**	**5**	**0**	**142**	**142**
VI Agril. Engineering										
Farm Machinary and its maintenance	1	24		24			0	24	0	24
Installation and maintenance of micro irrigation systems	1	20		20			0	20	0	20
Use of Plastics in	1	19		19			0	19	0	19

farming practices										
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements	1	19		19	3		3	22	0	22
Small scale processing and value addition	1	32		32			0	32	0	32
Post Harvest Technology	1	15		15			0	15	0	15
Others (pl specify)				0			0	0	0	0
Total	**6**	**129**	**0**	**129**	**3**	**0**	**3**	**132**	**0**	**132**
VII Plant Protection										
Integrated Pest Management	4	89		89			0	89	0	89
Integrated Disease Management	3	77		77	1		1	78	0	78
Bio-control of pests and diseases	1	39		39			0	39	0	39
Production of bio control agents and bio pesticides	1	22		22			0	22	0	22
Others (pl specify)				0			0	0	0	0
Total	**9**	**227**	**0**	**227**	**1**	**0**	**1**	**228**	**0**	**228**
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0

Fish processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X Capacity Building and Group Dynamics										
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Others (pl specify)				0			0	0	0	0

Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**42**	**676**	**137**	**813**	**31**	**5**	**36**	**707**	**142**	**849**

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	**No. of courses**	**Participants**								
		Others			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production										
Weed Management	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	1	19	0	19	0	0	0	19	0	19
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	2	28	0	28	6	0	6	34	0	34
Micro Irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0
Soil & water conservatioin	0	0	0	0	0	0	0	0	0	0
Integrated nutrient management	1	19	0	19	2	0	2	21	0	21
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**4**	**66**	**0**	**66**	**8**	**0**	**8**	**74**	**0**	**74**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	1	13	0	13	0	0	0	13	0	13
Nursery raising	0	0	0	0	0	0	0	0	0	0

Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	1	13	0	13	0	0	0	13	0	13
Protective cultivation	2	63	0	63	0	0	0	63	0	63
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (a)	**4**	**89**	**0**	**89**	**0**	**0**	**0**	**89**	**0**	**89**
b) Fruits										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	1	13	0	13	0	0	0	13	0	13
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	1	13	0	13	2	0	2	15	0	15
Micro irrigation systems of orchards	1	13	0	13	1	0	1	14	0	14
Plant propagation techniques	1	0	22	22	0	0	0	0	22	22
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (b)	**4**	**39**	**22**	**61**	**3**	**0**	**3**	**42**	**22**	**64**
c) Ornamental Plants										
Nursery Management	1	14	0	14	2	0	2	16	0	16
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	**1**	**14**	**0**	**14**	**2**	**0**	**2**	**16**	**0**	**16**
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and	0	0	0	0	0	0	0	0	0	0

Management technology										
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	1	22	0	22	5	0	5	27	0	27
Processing and value addition	1	50	0	50	0	0	0	50	0	50
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (f)	**2**	**72**	**0**	**72**	**5**	**0**	**5**	**77**	**0**	**77**
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**11**	**214**	**22**	**236**	**10**	**0**	**10**	**224**	**22**	**246**
III Soil Health and Fertility Management										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	1	10	0	10	0	0	0	10	0	10
Production and use of organic inputs	1	15	0	15	3	0	3	18	0	18
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Balance use of fertilizers	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	2	31	0	31	2	0	2	33	0	33
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**4**	**56**	**0**	**56**	**5**	**0**	**5**	**61**	**0**	**61**
IV Livestock Production and Management										

Dairy Management	3	60	0	60	2	0	2	62	0	62
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Disease Management	5	64	32	96	6	5	11	70	37	107
Feed & fodder technology	4	71	0	71	3	0	3	74	0	74
Production of quality animal products	2	30	0	30	4	0	4	34	0	34
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**14**	**225**	**32**	**257**	**15**	**5**	**20**	**240**	**37**	**277**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	1	0	19	19	0	0	0	0	19	19
Designing and development for high nutrient efficiency diet	1	0	19	19	0	0	0	0	19	19
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing and cooking	2	0	21	21	0	4	4	0	25	25
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	1	0	27	27	0	0	0	0	27	27
Value addition	5	0	84	84	0	0	0	0	84	84
Women empowerment	1	0	12	12	0	0	0	0	12	12
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	1	0	13	13	0	3	3	0	16	16
Women and child care	1	0	15	15	0	2	2	0	17	17
Others (pl specify)	0	0	0	0	0	0	0	0	0	0

Total	**13**	**0**	**210**	**210**	**0**	**9**	**9**	**0**	**219**	**219**
VI Agril. Engineering										
Farm Machinary and its maintenance	1	24	0	24	0	0	0	24	0	24
Installation and maintenance of micro irrigation systems	3	86	0	86	5	0	5	91	0	91
Use of Plastics in farming practices	2	43	0	43	0	0	0	43	0	43
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	19	0	19	3	0	3	22	0	22
Small scale processing and value addition	3	84	0	84	0	0	0	84	0	84
Post Harvest Technology	1	15	0	15	0	0	0	15	0	15
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**11**	**271**	**0**	**271**	**8**	**0**	**8**	**279**	**0**	**279**
VII Plant Protection										
Integrated Pest Management	6	118	0	118	0	0	0	118	0	118
Integrated Disease Management	5	129	0	129	4	0	4	133	0	133
Bio-control of pests and diseases	2	57	0	57	0	0	0	57	0	57
Production of bio control agents and bio pesticides	2	42	0	42	0	0	0	42	0	42
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**15**	**346**	**0**	**346**	**4**	**0**	**4**	**350**	**0**	**350**
VIII Fisheries										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and	0	0	0	0	0	0	0	0	0	0

culture of ornamental fishes										
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X Capacity Building and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of	0	0	0	0	0	0	0	0	0	0

SHGs										
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XI Agro-forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**72**	**1178**	**264**	**1442**	**50**	**14**	**64**	**1228**	**278**	**1506**

Training for Rural Youths including sponsored training programmes (On campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements	**1**	**39**		**39**			**0**	**39**	**0**	**39**
Value addition										
Small scale processing										
Post Harvest										

Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	**1**	**26**		**26**			**0**	**26**	**0**	**26**
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	2	65		65				65		65

Training for Rural Youths including sponsored training programmes (Off campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										

Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	**1**		**22**	**22**			**0**	**0**	**22**	**22**
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**1**		**22**	**22**			**0**	**0**	**22**	**22**

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit										

production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements	**1**	**39**		**39**			**0**	**39**	**0**	**39**
Value addition	**1**		**22**	**22**			**0**	**0**	**22**	**22**
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	**1**	**26**		**26**			**0**	**26**	**0**	**26**
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**3**	**65**	**22**	**87**	**0**	**0**	**0**	**65**	**22**	**87**

Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	76		76			0	76	0	76
Integrated Nutrient management	1	35		35			0	35	0	35
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology	1	13		13			0	13	0	13
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	**3**	**124**	**0**	**124**	**0**	**0**	**0**	**124**	**0**	**124**

Training programmes for Extension Personnel including sponsored training programmes (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest										

Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL										

Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Productivity enhancement in field crops										
Integrated Pest Management	1	76		76			0	76	0	76
Integrated Nutrient management	1	35		35			0	35	0	35
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology	1	13		13			0	13	0	13
Production and use of										

organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	**3**	**124**	**0**	**124**	**0**	**0**	**0**	**124**	**0**	**124**

Table. Sponsored training programmes

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**M**	**F**	**T**	**M**	**F**	**T**
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops	**1**	**50**		**50**			**0**	**50**	**0**	**50**
Soil health and fertility management	**1**	**10**		**10**			**0**	**10**	**0**	**10**
Production of Inputs at site				**0**			**0**	**0**	**0**	**0**
Methods of protective cultivation				**0**			**0**	**0**	**0**	**0**
Others (pl. specify)	**1**	**46**		**46**			**0**	**46**	**0**	**46**
Total	**3**	**106**	**0**	**106**	**0**	**0**	**0**	**106**	**0**	**106**

Post harvest technology and value addition										
Processing and value addition	**1**	**38**		**38**			**0**	**38**	**0**	**38**
Others (pl. specify)				**0**			**0**	**0**	**0**	**0**
Total	**1**	**38**	**0**	**38**	**0**	**0**	**0**	**38**	**0**	**38**
Farm machinery										
Farm machinery, tools and implements				**0**			**0**	**0**	**0**	**0**
Others (pl. specify)	**1**	**51**		**51**	**5**		**5**	**56**	**0**	**56**
Total	**1**	**51**	**0**	**51**	**5**	**0**	**5**	**56**	**0**	**56**
Livestock and fisheries										
Livestock production and management	**1**	**20**		**20**			**0**	**20**	**0**	**20**
Animal Nutrition Management				**0**			**0**	**0**	**0**	**0**
Animal Disease Management				**0**			**0**	**0**	**0**	**0**
Fisheries Nutrition				**0**			**0**	**0**	**0**	**0**
Fisheries Management				**0**			**0**	**0**	**0**	**0**
Others (pl. specify)				**0**			**0**	**0**	**0**	**0**
Total	**1**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
Home Science										
Household nutritional security				**0**			**0**	**0**	**0**	**0**
Economic empowerment of women				**0**			**0**	**0**	**0**	**0**
Drudgery reduction of women				**0**			**0**	**0**	**0**	**0**
Others ((Child and mother health care)	**1**		**15**	**15**		**2**	**2**	**0**	**17**	**17**
Total	**1**	**0**	**15**	**15**	**0**	**2**	**2**	**0**	**17**	**17**
Agricultural Extension										
Capacity Building and Group Dynamics				**0**			**0**	**0**	**0**	**0**
Others (pl. specify)				**0**			**0**	**0**	**0**	**0**
Total										
GRAND TOTAL	**7**	**215**	**15**	**230**	**5**	**2**	**7**	**220**	**17**	**237**

Name of sponsoring agencies: FTC, ATMA, DWO Agro., Spices board Unja and REEL Cotton.

Details of vocational training programmes carried out by KVKs for rural youth

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop production and management										

Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition	**1**		**22**	**22**			**0**	**0**	**22**	**22**
Others (pl. specify)				**0**			**0**	**0**	**0**	**0**
Total	**1**	**0**	**22**	**22**	**0**	**0**	**0**	**0**	**22**	**22**
Livestock and fisheries										
Dairy farming	**1**	**26**		**26**			**0**	**26**	**0**	**26**
Composite fish culture				**0**			**0**	**0**	**0**	**0**
Sheep and goat rearing				**0**			**0**	**0**	**0**	**0**
Piggery				**0**			**0**	**0**	**0**	**0**
Poultry farming				**0**			**0**	**0**	**0**	**0**
Others (pl. specify)				**0**			**0**	**0**	**0**	**0**
Total	**1**	**26**	**0**	**26**	**0**	**0**	**0**	**26**	**0**	**26**
Income generation activities										
Vermicomposting				**0**			**0**	**0**	**0**	**0**
Production of bio-agents, bio-pesticides,				**0**			**0**	**0**	**0**	**0**
bio-fertilizers etc.				**0**			**0**	**0**	**0**	**0**
Repair and maintenance of farm machinery	**1**	**39**		**39**			**0**	**39**	**0**	**39**
and implements				**0**			**0**	**0**	**0**	**0**
Rural Crafts				**0**			**0**	**0**	**0**	**0**
Seed production				**0**			**0**	**0**	**0**	**0**
Sericulture				**0**			**0**	**0**	**0**	**0**
Mushroom cultivation				**0**			**0**	**0**	**0**	**0**
Nursery, grafting etc.				**0**			**0**	**0**	**0**	**0**
Tailoring, stitching, embroidery, dying etc.				**0**			**0**	**0**	**0**	**0**
Agril. para-workers, para-vet training				**0**			**0**	**0**	**0**	**0**
Others (pl. specify)				**0**			**0**	**0**	**0**	**0**
Total	**1**	**39**	**0**	**39**	**0**	**0**	**0**	**39**	**0**	**39**
Agricultural Extension										
Capacity building and group dynamics				**0**			**0**	**0**	**0**	**0**
Others (pl. specify)				**0**			**0**	**0**	**0**	**0**
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Grand Total	**3**	**65**	**22**	**87**	**0**	**0**	**0**	**65**	**22**	**87**

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	12	67	6	73
Diagnostic visits	1	9	1	10
Field Day	7	172		172
Group discussions	11	157	3	160
Kisan Ghosthi	21	247		247
Film Show	15	950	3	953
Self -help groups	2	32		32
Kisan Mela	3	9000	250	9250
Exhibition	3	3160	53	3213
Scientists' visit to farmers field	83	233	12	245
Plant/animal health camps	4	744	6	750
Farm Science Club				0
Ex-trainees Sammelan				0
Farmers' seminar/workshop	11	578	13	591
Method Demonstrations	15	436	3	439
Celebration of important days	4	1364	13	1377
Special day celebration	3	719	9	728
Exposure visits	4	204	4	208
Others (pl. specify)				0
Total	**199**	**18072**	**376**	**18448**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	
News paper coverage	9
Popular articles	13
Radio Talks	1
TV Talks	6
Animal health camps (Number of animals treated)	744
Others (pl. specify)	
Total	**773**

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Market-ing	Awa re-ness	Other enterprise	Total
	Text only	27	9	76	-	-	-	112
	Voice only							
	Voice & Text both							
	Total Messages	27	9	76	-	-	-	112
	Total farmers Benefitted	54261	18000	228000				300261

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of Technology weeks celebrated	Types of Activities	No. of Activities	Numaber of Participants	Related crop/livestock technology
1 (7/9/2015 to 11/9/2015	Gosthies	10	423	5
	Lectures organised	10	475	5
	Exhibition	1	475	4
	Film show	6	376	6
	Farm Visit	5	434	7
	Diagnostic Practicals	5	145	5
	Distribution of Literature (No.)	6	2700	5
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)	1	150	2
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week		475	

VI. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals						
Oilseeds	Groundnut (Breeder)	GJG-31		39.4	-	-
	Groundnut (Breeder)	GJG-9		24.8	-	-
	Groundnut (Breeder)	GG-20		22.2	-	-
	Sesamum	TG-3		4.28	-	-
Pulses	Black Gram (Mega seed)	GU-1		2.94	26460/-	
Commercial crops	Cotton	Bt.		8.2	38745/-	
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Total				**101.82**	**38745/-**	

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers	Azatobactor	100 Lit.	12000	56
	PSB	80 Lit.	9600	42
	Rhizobium	80 Lit.	9600	70
Bio-pesticide	Trichoderma (Savaj)	6000 Kg.	420000/-	4400
	Beauveria	2000 Kg.	300000/-	1500
	lecanicillium	100 Kg	15000/-	70
Bio-fungicide				
Bio Agents				
Others				
Total			766200	6138

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				

Piglet				
Others (Pl.specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Total				

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	5619	5300	37	280950
Water	5528	5245	35	276400
Plant	15	15	12	0
Manure				
Others (pl.specify)				
Total	**11162**	**10560**	**84**	**557350**

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Rajkot-I	13

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution
4	-

X. PUBLICATIONS

Category	Number
Research Paper	1
Technical bulletins	
Technical reports	8
Others (Abstract)	2
Popular articals	13

XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM

Activities conducted				
No. of Training programmes	**No. of Demonstration s**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**
2	**5**	**-**	**346**	**4**

XII. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES ETC

Introduction of alternate crops/varieties

Crops/cultivars	Area (ha)	Extent of damage (As per forcasting)	Recovery of damage through KVK initiatives if any
Groundnut	1500	Earlyu withdron of moonsoon	Higher yield obtained in short duration bunch type of variety in groundnut in rainfed area.
Total			

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	1500	1000
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Farmer's meeting	4	209
Farmer's seminar	2	196
Group meeting	3	217
Total	**9**	**622**

Animal health camps organised

Number of camps	No.of animals	No.of farmers
4	1201	744
Total	**1201**	**744**

Seed distribution in drought hit states

Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Checkpea	12.50	20	50
Total			

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Adoption of Trichoderma culture powder for the management of stem rot disease in groundnut	5322	46789
Adoption of *Bt*. cotton varieties.	328897	82224
Farmers prefers to sow semi spreading and high yielding variety of groundnut i.e. GG-20.	204808	51702
Most of the farmers adopt new variety of cumin (GC-4) which is resistant to wilt disease	20108	5102
Intercropping/mix cropping in groundnut and cotton was adopted for	21789	6342

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 cotton system.	174532	43633
Total		

Awareness campaign

	Meetings		**Gosthies**		**Field days**		**Farmers fair**		**Exhibition**		**Film show**	
	No.	**No.of farmers**	**No.**	**No.of farmers**	**No.**	**No.of farmers**	**No.**	**No.of farmers**	**No.**	**No.of farmers**	**No.**	**No.of farmers**
	11	160	21	247	7	172	3	9250	3	3213	15	953
Total	**11**	**160**	**21**	**247**	**7**	**172**	**3**	**9250**	**3**	**3213**	**15**	**953**

XIII. DETAILS ON HRD ACTIVITIES

A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension : Nil

Name of the SAU	**Title of the training programmes**	**No of programmes**	**No. of Participants**	**No. of KVKs involved**
Total				

B. HRD activities organized in identified areas for KVK staff by ATARI

Title of the training programmes	**No of programmes**	**No. of Participants**	**No. of KVKs involved**
MDP-3 Training programme	**1**	**6**	**6**
Total	**1**	**6**	**6**

XIV. CASE STUDIES

1)

Name of Farmer :

Mr. Muhmmad Hussain Jalal

Address	:	Tithwa
Taluka	:	Wankaner
Dist.	:	Morbi
Contact Number	:	9725422783
Age	:	61 years
Education	:	7th Pass
Land holding	:	70 acre
Crops grown	:	Bitterguard , Bringal , Tomato & Chilly
Livestock	:	Buffloes : 3

Improved Cultivation of Bitterguard

Special recognition :

He is a progressive farmer of Tithwa Village Wankaner Taluka of Morbi district. He is also the Sarpanch of the village. At present most of farmer of Wankaner taluka are cultivating groundnut and cotton crops. Initially, his land was sloppy. He made it levelled and start cultivating the vegetable crops by applying water through drip irrigation. By his own experience he made the mesh. So, branches of bitterguard can be settled on the mesh and can harvest good quality as well as better yield. It was also observed that by this method of cultivation bitterguard crop will be of good quality and having long length of each bitterguard and there is less damage of crop by the insects and pests. This year,He has earned net profit of rs. 4.90 lakhs in 2.5 acre of land excluding the cost of putting the mesh structure of rs. 2.90 lakhs.

Mr. Muhmmad Hussain Jalal has obtained Sardar Patel award by the Hon. Minister of Agriculture Sh. Babubhai Bokhariya of rs. 11,00 organised by Junagadh Agriculture University, Junagadh.

2)

Name of Farmer : Mr. Raghavendrasing jadeja
Address : Bhadva
Taluka : Kotda Sangani
Dist. : Rajkot
Contact Number : 9427720201
Age : 61 years
Education : 10th Pass
Land holding : 36 acre
Crops grown : Cotton, Groundnut, Sugarcane, Anola
Livestock : Gir cow : 25
Gir Ox : 4

Value addition in sugarcane – Harbal jaggery (Gud)

Special recognition :

Shri Raghwendrasihji Jadeja is a progressive and enthusiast farmer of Bhadva village of Kotda Sangani taluka of Rajkot district. He has received various awards like., "Kishan Sanman award" for the best farmers of district, "Sardar Patel award" of Rupees 50,000/- from Government of Gujarat State, "Best Farmers of the Year award" of Rupees 1,00,000/- from Aspee Foundation Trust-Mumbai". He was also honoured at Egypt (Kero) for participation in "Krushi Gosthi".

Shri Raghwendrasihji Jadeja has adopted organic farming with modern technologies through motivation by Krushi Vigyan Kendra, JAU, Targhadia. He started cultivating sugarcane crop in his field and producing organic jaggery from sugarcane since 2001.

At the initial stage of sugarcane cultivation, he sold sugarcane directly in the market and earning a net profit of Rs. 40,000/- per acre. But his son has started to produce organic jaggery from sugarcane and has gained net profit of Rs. 60,000/- per acre. His grandson took one step ahead and started to make Harbal jaggery (Gud) and get a good response in the market. He received net profit of Rs. 1,00,000/- per acre by making Harbal jaggery from sugarcane. Thus his net profit has increased two and half times through value addition in sugarcane instead of directly sold sugarcane in the market. This is a very good example of value addition for sugarcane cultivars of this area.

Annexure I

Minutes of the 13th Scientific Advisory Committee (SAC) Meeting

held on 29th January, 2016 at

Krishi Vigyan Kendra, JAU,Targhadia, (Rajkot)

The 13th Scientific Advisory Committee meeting was held in the KVK training hall of Krishi Vigyan Kendra, Junagadh Agricultural University, Targhadia on 29th January, 2016.The meeting was chaired by Dr. A.R. Pathak, Honorable Vice Chancellor, 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.R. Pathak, Honorable Vice Chancellor, JAU, Junagadh.	Chairmen	16	Shri Tejas Tank, MDT(Agri), DWDO, Rajkot	Member
2	Dr. A.M. Parakhia, Directorate of Extension, JAU, Junagadh	Member	17	Shri Jatin B., DWDO, Rajkot	Member
3	Dr. V.N. Patel, RS (DFRS), Targhadia	Member	18	Dr. N. S. Joshi, PC, KVK, Amreli	Member
4	Dr. G. R. Sharma, Principal, Polytechnic in Agri. Engg., Targhadia	Member	19	Dr. N. B. Jadav, PC, KVK, Pipalia, Dist. Rajkot	Member
5	Shri. B.H. Agatha, DAO, District Panchayat, Rajkot	Member	20	Dr. M. S. Chandavat, PC, KVK, Nana Kandhasar, Dist. Surendranagar	Member
6	Shri. R.H. Ladani, Depty. Director of Horti., Dist. Panchayat , Rajkot.	Member	21	Dr. B. B. Kabaria, DFRS, Targhadia	Invitee Member
7	Dr. S. K. Tiwari, STO, NHRDF, Rajkot		22	Shri Jentibhai H.Moliya , Farmer, Village: Dhokaliya, Tal: Padadhri, Dist.: Rajkot	Invitee Member
8	Dr. H. D. Kansagra, Deputy director of Animal Husbandry, Dis. Panchayat, Rajkot	Member	23	Shri Yuvrajsing K. Jadeja ,Farmer, Village: Dhokaliya, Tal: Padadhri, Dist.: Rajkot	Invitee Member
9	N. B. Rupapra, NHRDF, Rajkot	Member	24	Shri. Kantilal H.. Limbasiya, Progressive Farmer, Dungraka, Tal : Paddhari & Dist.: Rajkot	Invitee Member
10	Shri. M.B. Nasit, PD, ATMA , Rajkot	Member	25	Shri. Dipak D. Limbasiya, Progressive Farmer, Dungraka, Tal : Paddhari & Dist.: Rajkot	Member
11	Shri J. R. Gujarati, JND, Rajkot	Member	26	Shri Vallabhbhai R. Mungpara Progressive Farmer (A.H.), Padasan, Tal. Rajkot	Member
12	V. D. Modad, DDK, Rajkot	Member	27	Shri Muhmmadbahi Shekh Progressive Farmer , Tithva, Tal. Wankaner	Invitee Member
13	Shri V. K. Dholariya , All India Radio, Rajkot	Member	28	Shri Karansigh Solanki, Retired SD, DDK, Rajkot	Invitee Member
14	Dr. M.D. Pethani, V.O., Gopal Dairy, Rajkot	Member	29	Dr. M. M. Tajpara, PC, KVK, Targhadia	Member Secretary
15	Dr. A.H. Patel,	Member	30	Dr. A. V. Khanpara	Member

	V.O., Gopal Dairy, Rajkot			PC, KVK, Targhadia	

In the beginning, Dr. B. B. Kabaria, RS, DFRS, Targhadia warmly welcomed Chairman of the Committee Col(Dr) A.R. Pathak, Honorable Vice Chancellor, Junagadh Agricultural University, Junagadh, , Dr. A.M. Parakhia, Directorate of Extension Education, JAU, Junagadh, Dr. V.N.Patel Research Scientist , DFRS, JAU , Targhadia , Shri B.M.Agath District Agri. Officer , Rajkot, Shri R.H.Ladani , Deputy Director of Horticlulture. Dr. H.D. Kansagara , Deputy Director of Animal Husbandry and all the SAC members, Progressive farmers and farm women of the cluster villages and scientists of this centre. Chairman of the meeting and all the members of SAC meeting were also welcomed with flowers.

Col (Dr) A.R. Pathak, Honorable Vice Chancellor, Junagadh Agricultural University, Junagadh inaugurated the meeting by lighting the lamp.

The introductory speech about the KVK activities and action plan of KVK was given by Dr. A.M. Parakhia, DEE, JAU, Junagadh to the house.

Col (Dr) A.R. Pathak, Honorable Vice Chancellor, Junagadh Agricultural University, Junagadh emphasized regarding awareness of fertilizer management, Quality production, Organic farming and use of bio pesticides in Agriculture.

Dr. M. M.Tajpara, SMS, KVK, Targhadia presented the action taken report for 12th SAC meeting which was held on the 26th February , 2015. He also presented the general activities carried out by the center and activity of discipline of Animal Science, Agronomy and NICRA project carried out during the year.

Miss. H.A. Manvar, SMS (Home Science) presented the activities carried out in discipline of Home Science and Horticulture. Shri D.A. Saradava, SMS (Plant protection) presented the activities carried out in discipline of Plant protection , Agri. Engineering and ATIC. Both the SMS presented annual progress report of April-2015 to December-2015 and Action plan for the Year 2016-17 including training achievements, different extension activities, results of the FLDs and OFTs etc. conducted by this center during the year.

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

Col (Dr) A.R. Pathak, Honorable Vice Chancellor suggested:

- To take on campus training on balance feeding of pregnant animal in 3rd quarter
- To take training on organic farming
- To don't conduct the OFT on Goat supplementation in action plan
- To increase FLD on pink boll worm management in cotton upto 40
- To give charge of Agronomy to Agriculture officer
- To give 50 FLD on GJG-22 variety of Groundnut instead of 5

Dr. A.M. Parakhia, Directorate of Extension Education suggested:

- To take FLD on Makhan Grass
- To Develop Fodder demonstration unit (Zinzvo) at kvk

- To add the treatment of urea on OFT of white grub management in groundnut
- To present impact study of old selected village of KVK
- To present PRA survey of new selected village of KVK

Research scientist, DFRS, Dr V.N.Patel suggested :

- To change title of training on management of pink boll worm in cotton instead of management of new emerging insect pest and disease of Bt cotton.
- To change the collobrative training IPM and IDM in Bt cotton instead of IPM in Bt cotton.

Deputy Director of Hort. Shri R.H.Ladani suggested to add training on process of turmeric.

DAO, Rajkot Shri B.M.Agath suggested to add training on technology on mulching in pomegranate plantation .

Col (Dr) A.R. Pathak, Honorable Vice Chancellor, Junagadh Agricultural University, Junagadh gives emphasis on drip irrigation and use of fertilizers on the basis of soil testing analysis report in dry farming condition. and also give training on secondary agriculture to self help group for self employment. He also suggest to aware the farmer with different scheme of govt related to agriculture and other sector,

Finally, the meeting was concluded by performing the vote of thanks by Dr. M. M. Tajpara, SMS, KVK, Targhadia.

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

Director of Extension Education
Junagadh Agricultural University
Junagadh

Note : Proceeding for approval please

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