PROGRESS REPORT
(April-2017 to March-2018)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Web Address
Krishi Vigyan Kendra, Junagadh Agricultural University, Targhadia, (Dist.: Rajkot) (Gujarat) - 360 003	Office (0281) 2784170	FAX (0281) 2784170	kvkraj kot@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 Senior Scientist and Head with Phone & Mobile No.

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

1.4 Year of Sanction: September – 2004

1.5 Staff Position (as on March 31, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current Grade Pay	Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
11	Programme Coordinator	Dr. B. B. Kabaria	Agril. Ento.	37400-67000	10000/-	09-10-16	79,438/-
2	SMS	Dr. M. M. Tajpara	Ani Sci.	15600-39100	8000/-	4-8-15	79,438/-
3	SMS	Dr. J. H. Chaudhary	Agro.	15600-39100	6000/-	1-8-17	53,436/-
4	SMS	Vacant	-	-	-	-	
5	SMS	Vacant	-	-	-	-	
6	SMS	Shri D. P. Sanepara	Agri. Eng.	15600-39100	7000/-	8-11-16	85,711/-
7	SMS	Mrs. H. H. Padsumbiya	Home Sci.	15600-39100	7000/-	17-8-06	76,904/-
8	Farm manager	Vacant					
9	Programme Assistant	Shri Anup B. Dabhi	M.Sc.	38300-104400	-	7-8-14	43,716/-
10	Computer Programmer	Miss. R. T. Padaliya	-	39900-126600	-	3-1-09	47,744/-
11	Acc. / Sup.	Vacant	-	-		-	-
12	Steno grapher	Vacant					
13	Driver	Vacant	-				
14	Driver	Vacant	-	-		-	-
15	Supporting staff	Smt.U.G.. Zala	-	15000-47000		16-9-04	29,085/-
16	Supporting staff	Vacant	-	-	-	-	-

1.6 Total land with KVK (in ha):

Sr. No.	Item	Area (ha)
1	Under Buildings	2.87
2.	Under Demonstration Units	0.50
3.	Under Crops	13.80
4.	Horticulture	0.50
5.	Farm Pond	0.48
6.	Others (Road & drainage)	1.85
	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)	Expenditure (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	-	-	-
11	Processing Unit	ICAR	-	196.8	3500000	Sept.2017	-	90 % work is complited

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Toyota Qualis	2004	590000	284752	Not Working
Tata Sumo	2008	600000	250365	Not Working, Purchase from MP grant
Motorcycle	2010	50000	44657	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
Solar steel digital water plant	2006	45000	Working
Balaji Bio Gas Plant	2007	32000	Working
Aspee Tractor Mounted Sprayer	2007	32000	Working

Laptop Computer (HCL)	2008	47500	Working
Air Assisted Blower type sprayer	2009	98750	Working
Photo copier Machine (Richo)	2009	115300	Working
LCD Projector with ceiling mount kit Model-PT-	2009	92155	Working
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
Acer desktop veriten PC	2016	46032	Working
Digital Xerox machine with printer	2016	144391	Working
K-yan pro standerd	2016	110644	Working
Home UPS inverters system	2016	79000	Working

1.8. Details SAC meeting conducted in the March 2018

Date	Name & Designation of Participants	Salient Recommendations	Action taken
1	**2**	**3**	**4**
26/03/2018	Dr. A.R. Pathak, Honorable Vice Chancellor, JAU, Junagadh. Dr. A.M. Parakhia, Directorate of Extension, JAU, Junagadh Dr. G.S. Sutaria, RS (DFRS), Targhadia Dr. G. R. Sharma, Principal, Polytechnic in Agri. Engg., Targhadia Shri. R. R. Tilava, DAO, District Panchayat, Rajkot Shri. D. B. Gajera, DAO, Morbi Dr. M. K. Kaneriya, Deputy director of Animal Husbandry, Dis. Panchayat, Rajkot Mr. G. J. Kataria, Assi. Director of Horti., Rajkot Narpat Singh, Reliance foundation, Jasdan	➢ Add Leafy Vegetables FLDs in Kitchen Gardening. ➢ FLDs should be conducted based on newly released varieties otherwise only inputs should be provided on the base of technology. ➢ FLDs should be conducted on Pink Bollworm rope in *Bt.* Cotton in ATIC Proj ect. ➢ FLD should be planned on line sowing in cumin. ➢ To conduct FLDs on Jinjavo instead of Makkhan Grass. ➢ To plan OFT on organic farming instead of INM in Cotton. ➢ OFT should be planned on Mulching of farm residues in groundnut. ➢ Add treatment of farm residues in OFT of mulching in drip irrigated cotton. ➢ Modified the OFT on in Animal Science with consultation of	All Suggestion accepted

	Dr. C. M. Vashaviya, Dy. Manager, Rajkot dairy, Rajkot Shri J. G. Jatiya, DMVD, Rajkot Shree M. M. Munni, Deputy Conservator of Forest (Extension), Rajkot S. K. Tivari, NHRDF, Rajkot Vinay kumar, NHRDF, Rajkot R. G. Gohil, DRDA, Morbi Dr. N. B. Jadav, PC, KVK, Pipalia, Dist. Rajkot Kisan Kthariya, ICICI Bank, Rajkot Dr. J. N. Thaker, SMS, KVK, Jamnagar Dr. D. S. Sirpara, PC, KVK, Morbi Smt. Kanchanben Talpada Village: Movaiya, Tal: Paddhari, Dist.: Rajkot Smt. Manjulaben Talpada Village: Movaiya, Tal: Paddhari, Dist.: Rajkot Shri Chaturbhai Laljibhai Kalola Village: Gadhka, Tal: Rajkot, Dist.: Rajkot Shree Navnitbhai Shantibhai Village : Jasapar,Tal: Jasdan, Dist.: Rajkot Shree Vallabhabhai Lavajibhai Mungalpara, Village: Padasan Tal: Rajkot, Dist.: Rajkot Shree Arvinadbhai Bhimajibhai Parimal, Village: Gadhaka, Tal : & Dist.: Rajkot	veterinary collage, Junagadh. ➢ Add training on importance of drip irrigation in Horticultural Crops. ➢ Training should be planned on pruning and "Bahar" treatment in Horticultural Crops (Pomegranate & Citrus). ➢ To conduct training on Reduction of cost of cultivation techniques in different crops. ➢ Provide information to farmers regarding different Government Schemes during different training programme. ➢ OFF Campus training should be conducted on based of Use of Bio fertilizers in Rabi Crops instead of Gram. ➢ All training should be planned according to farmers need only. ➢ Training should be planned on organic farming in all important crops instead of cotton. ➢ Training should be planned on insitu moisture conservation. ➢ Training should be conducted on Linkage and Marketing components in ARYA Project. ➢ Add the enterprise on Honeybee in ARYA Project. ➢ To conduct the PRA Survey of new selected villages in NICRA Project. ➢ To prepare contingency plan and conduct training in NICRA Project villages.	

2. DETAILS OF DISTRICT

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

Sr. No	Farming system/enterprise
1	Groundnut - Wheat/ Cumin, Cotton - Summer Groundnut/ Pulses/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

a. Soil type

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 1330.9mm during 2017-18.

b)Topography

Sr. No	Agro ecological situation	Characteristics
1.	Situation No. 4	Shallow black soil with 500-600 mm Rainfall
2.	Situation No. 14	Hilly Soils with 500-600 mm Rainfall

2.3 Soi types

Sr. No	Soil type	Characteristics	Area in ('000)
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

Sr. No	Crop	Area (ha)	Production (Tone)	Productivity ($K_{g.}$ /ha)
1.	Groundnut	225544	220892	979
2.	Cotton	273586	550495	2012
4.	Sesamum	999	700	701
5.	Castor	9406	20246	2152
6.	Wheat	13188	57637	4370
7.	Gram	863	1049	1215
8.	Cumin	5337	5852	1096

2.4 Weather data (2017 - 2018)

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
April	-	44.2	16.9	89	17
May	-	43.8	23.6	83	20
June	-	41.9	23.6	95	40
July	183.6	35.8	23.8	98	41
August	959.8	33.9	23.0	91	60
September	162.8	35.4	22.4	92	54
October	22.3	37.8	16.4	93	39

November		36.2	12.3	79	39
December	2.4	31.5	8.7	89	42
January	-	34.2	8.8	89	40
February	-	36.8	10.0	92	40
March	-	41.4	16.1	91	22
Total	1330.9				

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 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 Adhiya Bhandariya Gadhadiya Rajavadla	*Groundnut, Cotton, Sesamum, Wheat, Cumin, Gram Chickpea, Garlic, Onion. *Enterprises are dairy business, Vermi composting, preparation of roasted groundnut and chikki from groundnut and sesame	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)
2	Rajkot	Cluster II	Sardhar Gadhaka Aniyala Lili sajdiyali Padasan			
3	Paddhari	Cluster III	Bodighodi Mota rampar Movaiya Dungraka Adbalka			

2.8 Priority thrust areas

Crop/Enterpris	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 2017-18

OFT				FLD			
1				*2*			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
6	4	18	14	100	130	100	130

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	33	35	825	1198	-	-	-	-
Rural youth	1	1	25	22	-	-	-	-
Extn. Functionaries	4	1	100	33	-	-	-	-
Total	**38**	**37**	**1525**	1253	**-**	**165**	**-**	**5868**

Seed Production (Qtl.)		Planting material (Nos.)	
Target	**Achievement**	**Target**	**Achievement**
-	92.2	-	-

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8j	
Target	**Achievement**	**Target**	**Achievement**
-	-	11500	12110

3.1. B. Operational areas details during 2017-18

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Groundnut	Variety	-	Jasadan	FLD
		White grub	-	Paddhari	FLD, OFT and Training
		Stem rot	-	All cluster	FLD and Training
2	Cotton	Water stress	-	Rajkot	OFT
		Pink ballworm	-	All cluster	FLD and Training
3	Cumine	Stem rot	-		FLD, OFT and Training
4	Gram	Variety	-	All cluster	FLD and Training

3.2. Technology Assessment and Refinement

A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation										
Integrated Pest Management		1								1
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology				1						1
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										1
Storage Technique										
Mushroom cultivation										
Total		**1**		**1**						**3**

A2. Abstract on the number of technologies refined in respect of crops : Nil

A3. Abstract on the number of technologies assessed in respect of livestock enterprises

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

A4. Abstract on the number of technologies refined in respect of livestock enterprises : Nil

B. Achievements on technologies Assessed and Refined

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management	Groundnut	Management of white grub in groundnut	1	2	0.4
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology	Cotton	Water management in Cotton (Effect of mulching on productivity of drip irrigated cotton)	1	1	0.4
Farm Machineries					
Integrated Farming System					

Seed / Plant production					
Value addition					
Drudgery Reduction	Women	Drudgery reduction of farm women	1	5	-
Storage Technique					
Mushroom cultivation					
Total			**3**	**9**	**0.8**

B.2. Technologies Refined under various Crops : Nil

B.3. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management	buffaloes	Chelated & Area Specific Mineral mixture for milch buffaloes	1	5
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total			1	5

B.4. Technologies Refined under Livestock and other enterprises : Nil

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

C1.Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Groundnut	Rainfed	*Heavy infestation of white grub in groundnut effecting in a yield loss 10 to 15% according to area specific.*	*Management of white grub in groundnut crop.*	1	*Seed treatment with chlorpyriphos 25 E.C.@ 25 ml/kg seed. (GA U Reco.)*	*Demaged plant (%) Yield (q/ha)*	Farmers method (9.8 %) Recommendation (3 %) Farmers method (20.5 q/ha) Recommendation (25.75 q/ha)	Recommendation of seed treatment against white grub in groundnut is the best treatment	Seed treatment is best for management of white grub in groundnut	No	
Cotton	Irrigated	*Water scarcity due to less rainfall and reduce yield of cotton in Rajkot district*	*Water management in drip irrigated cotton crop*	1	*Impact of plastic mulching on productivity of drip irrigated cotton*	*Yield (q/ha)*	Farmers method (33.75 q/ha) Recommendatio n (37.25 q/ha)	Silver-black plastic mulch with drip irrigation had enhanced the cotton yield 10.37%	Plastic mulching in drip irrigated cotton save water and gave higher yield	No.	
Women		Physiological and muscular stresses in farmwoman during milking.	Drudgery reduction of farm women	1	Use of revolving milking stool (height of 12-13 cm with diameter 34 cm)	Physical stress & Tool factor	High and Medium relevant	Low and Highly relevant	Low Physiological and muscular stresses and drudgery in farmwoman during milking		
Livest ock	Buff alo	Low Milk production & Infertility problem in dairy buffalo	Chelated Area Specific Mineral Mixture for Dairy Buffalo	3	T1. Farmer practices T2. Buffalo fed with 50 gm per day mineral mixture T3. Buffalo fed with 50 gm per day Chelated Area Specific Mineral Mixture	1.0 Milk Yield Lit/day 2.0 Estrus after calving 3.0 No. of Insemination per conception	Below cont.	Below cont.	Good response from farmers		

Contd..

Technology Assessed	**Source of Technology**	**Production**	**Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)**	**Net Return (Profit) in Rs. / unit**	**BC Ratio**
13	**14**	**15**	**16**	**17**	**18**
Management of white grub in groundnut crop.					
Technology option 1 (Farmer's practice)	Sowing of groundnut without Seed treatment. Farmers adopt drenching of Chlorpyriphos or quinalphos @ 6 lit/ha with irrigation at initiation of pest incidence. (Farmers practice)	20.5	q/ha.	70575	2.85
Technology option 2	Seed treatment with chlorpyriphos or quinalphos @ 25 ml/kg seed.(GAU Reco.)	25.75	q/ha	78440	3.5
Water management in Cotton (Effect of mulching on productivity of drip irrigated cotton)					
Technology option 1 (Farmer's practice: *Without mulching and flood irrigation)*		33.75	q/ha	128822	3.75
Technology option 2 (Farmer's practice: *Plastic mulch (25 micron) with drip irrigation)*	RTTC, Junagadh Agricultural University, Junagadh	37.25	q/ha	144575	3.94

Chelated & Area Specific Mineral mixture for milch buffaloes

Technology Assessed	Source of Technology	Data on Parameter			
		Milk yield lit/day	Estrus after calving (day)	No. of Insemination for conception	Net Return (Profit) in Rs. / unit
T1- (Farmer's practice)		8.1	131	2-3	-

T2- -Buffalo fed with 50 gm per day mineral mixture		9.1	111	1-2	-
T3- Buffalo fed with 50 gm per day Chelated Area Specific Mineral Mixture	AAU, Anand	10.2	85	1	-

C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

OFT 1

1 **Title of Technology Assessed : Management of White grub in Groundnut.**

2 Problem Definition : Heavy white grub incidence in groundnut.

3 Details of technologies selected for assessment : Seed treatment with chlorpyriphos or quinalphos @ 25 ml/kg seed.(GAU Reco.)

4 Source of technology : GAU

5 Production system and thematic area : IPM

6 Performance of the Technology with performance indicators:

Farmer No	**Name of the farmer**	**Name of the Village**	**Demage plant (%)**		**Yield (q/ha)**	
			Local	Demo	Local	Demo
1	**RameshbhaiTalpada**	**Movaiya**	9.5	2.9	19.95	25.40
2	Sureshbhai Bhojani	Mota rampar	10.1	3.1	21.1	26.10
Average			**9.8**	**3.0**	**20.5**	**25.75**

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Seed treatment is best for management of white grub in groundnut

8 Final recommendation for micro level situation : Seed treatment with chlorpyriphos or quinalphos @ 25 ml/kg Seed.

9 Constraints identified and feedback for research : -

10 Process of farmers participation and their reaction : Seed treatment is the best and cheapest method for management of white grub

OFT-2

1 **Title of Technology Assessed : Water management in drip irrigated cotton crop.**

2 Problem Definition : Water scarcity due to less rainfall and reduce yield of cotton in Rajkot district

3 Details of technologies selected for assessment : Impact of plastic mulching on productivity of drip irrigated cotton (JAU Reco.)

4 Source of technology : JAU

5 Production system and thematic area : Resource Conservation Technology

6 Performance of the Technology with performance indicators:

Farmer No	**Name of the farmer**	**Name of the Village**	**Yield (q/ha)**	
			Local	Demo
1	Dineshbhai Moliya	Kherdi	33.75	37.25
Average			**33.75**	**37.25**

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Silver-black plastic mulch with drip irrigation had enhanced the cotton yield

8 Final recommendation for micro level situation :Use of silver black plastic mulch (25 micron) in drip irrigated cotton

9 Constraints identified and feedback for research : -10

10. Process of farmers participation and their reaction : --

OFT-3

1 *Title of Technology Assessed: Drudgery reduction of farm women*

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

3 Details of technologies selected for assessment:

T1. No use of stool while milking

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

4 Source of technology: *MPUAT, Udaipur*

5 Production system and thematic area: *drudgery reduction*

6 Performance of the Technology with performance indicators:

Technology Option	**No. of trials**	**Physical stress**	**Tool factor**
No use of stool while milking	1	High	Medium relevant
Revolving milking stool (height of 12-13 cm with diameter 34 cm)		Low	Highly relevant

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Good response from farm women for use of Milking stool.
8 Final recommendation for micro level situation: use of Milking stool.
9 Constraints identified and feedback for research: —
10 Process of farmers participation and their reaction: Good

OFT-4

1 Title of Technology Assessed: Chelated and Area Specific Mineral Mixture for Dairy Buffalo
2 Problem Definition : Low milk production & infertility problems in dairy buffalo
3 Details of technologies selected for assessment:
T1. Farmer practices
T2. Buffalo fed with 50 gm per day mineral mixture
T3. Buffalo fed with 50 gm per day Chelated Area Specific Mineral Mixture
4 Source of technology: Anand Agricultural University, Anand
5 Production system and thematic area: Nutrition management
6 Performance of the Technology with performance indicators:

1.0 Milk Yield (Lit/day)
2.0 Estrus after calving (days)
3.0Insemination per conception (no.)

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Good response from farmers for chelated area specific mineral mixture
8 Final recommendation for micro level situation: Enhance milk production & reduce infertility problem in dairy buffalo by using chelated & Area specific mineral mixture
9 Constraints identified and feedback for research: —
10 Process of farmers participation and their reaction: Good

D1. Results of Technologies Refined : Nil

3.3 FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2016-17 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	3	10	4.0
2	Groundnut	Varietal evaluation	Variety (GJG-22)	To test yield potentiality of newly released groundnut variety	11	50	20.0
3	Groundnut	Varietal evaluation	Variety (GJG-9)	To test yield potentiality of newly released groundnut variety	2	5	2.0
4	Pigeon pea	Inter cropping	Inter cropping	Inter cropping of pigeon pea with groundnut crop	2	2	0.8
5	Cotton	Crop Production	INM (Bt. Cotton)	Nutrient management in Bt. cotton	3	10	4.0
6	Seasonal vegetables	Nutritional Garden	Kitchen Garden	-	3	5	-
7	Solar energy	-	solar cooker	Solar energy	10	10	-
8	Cumin (Rabi 2016-17)	Pest Management	IPM	Management of wilt through bio agent	3	10	4.0
9	Onion (Rabi 2016-17)	Red-3	Crop diversification	Crop diversification	2	5	2.0
10	Garlic (Rabi 2016-17)	G-282	Crop diversification	Crop diversification	2	5	2.0

B. Details of FLDs implemented during 2017-18 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	Varietal evaluation	Variety (GJG-22)	Kharif 2017	4.0	4.0	2	8	10	-
2	Groundnut	Pest management	IPM	Kharif 2017	4.0	4.0	1	9	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 2017-18	4.0	4.0	1	9	10	-

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 2017-18	4.0	4.0	1	9	10	-
2	Onion	Crop diversification	AFL Red-3	Rabi 2016-17	2.0	2.0	-	5	5	-
3	Garlic	Crop diversification	G-282	Rabi 2016-17	2.0	2.0	-	5	5	-
4	Buffalo	Nutrient Management	Chelated mineral mixture power	-	-	-	17	3	20	
5	Buffalo	Nutrient Management	By pass protein	-	-	-	-	10	10	
6	Buffalo	Nutrient Management	By pass fat	-	-	-	2	8	10	
7	Fodder	Fodder management	Makhan grass	-	-	-	1	9	10	-
8	Seasonal vegetables	Nutritional Garden	Kitchen Garden	Kharif 2017-18	-	-	-	2	2	-

Commercial crops (Cumin & Wheat)

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	Cumin	Pest Management	IDM	Rabi 2016-17	4.0	4.0	1	9	10	-
2	Cumin	Pest Management	IDM	Rabi 2017-18	4.0	4.0	-	10	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	"O fef) S3 £ o	Harvest date	Seasonal rainfall (mm)	Vo. 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	7/7/17	18/10/17	1329.2	-
Groundnut	*Kharif*	RF	M. B.	L	M	H	Wheat/ Cumin	30/6/17	1/10/17	1329.2	-
Cotton	*Kharif*	RF	M. B.	L	M	H		5/7/17	30/12/17	1329.2	-
Cumin	*Rabi*	Irrigated	M. B.	L	M	H	Cotton/ G'nut	18/11/17	22/2/17	-	-
Onian	*Rabi*	Irrigated	M. B.	L	M	H	u	25/11/16	21/2/17	-	-
Garlic	*Rabi*	Irrigated	M. B.	L	M	H	u	22/11/16	20/2/17	-	-

M. B. - Medium Black

Technical Feedback on the demonstrated technologies

S. 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.
3	Low yield of Garlic variety G-282 as compaired to local variety.
4	High yield and big size of Onion variety Red-3 as compaired to local variety.

Farmers' reactions on specific technologies

S. No.	Feed Back
1.	White grub problem in groundnut
2.	Pink boll worm in cotton
3.	Reddening in cotton
4.	Late and poor germination was observed in cumin variety GC-4
5.	Cumin variety GC-4 is high yielding but gradually loosing wilt resistant character
6.	Heavy infestation of thrips in crops like garlic, onion, cotton etc.
7.	Research needed for control of insect-pests and diseases in organic farming

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	3	July, August and Janu.	79	-
2	Farmers Training	6	July to Octo. And Dec. to Feb.	94	-
3	Media coverage	1	Sept.	-	-
4	Training for extension functionaries	-	-	-	-

C. Performance of Frontline demonstrations:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demon strated	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	Varietal evaluation	Varietal evaluation	GJG-22	10	4.0	26.50	15.50	19.95	18.50	7.84	32820	89775	56955	2.73	31000	83250	53750	2.68
Groundnut	Pest Managemen	1PM	-	10	4.0	31.00	27.80	26.22	23.85	9.94	37550	117990	80440	3.14	35750	107325	71575	3.00

Crop	Thematic Area	technology demon strated	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										
Gram	Varietal evaluation	Varietal evaluation	GJG-3	10	4	**23.00**	**11.25**	**16.00**	**13.50**	**18.50**	**18600**	**52800**	**34200**	**2.83**	**18400**	**44550**	**26150**	**2.42**

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		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cotton	Plant protection	IPM	10	4.0	25.75	18.50	23.15	21.00	10.21	-	-	37700	108805	71105	2.88	35700	98700	63000	2.76
Cumin	Pest Management	IPM	10	4.0	8.15	4.20	5.99	5.33	12.38	-	-	34020	82662	48642	2.43	31600	73554	41950	2.33
Cumin	Pest Management	IPM	10	4.0	8.75	3.75	6.50	5.75	13.04	6 %	15.3 %	34150	97500	63350	2.85	32100	86250	54150	2.68
Onian	Crop diversification	AFL Red-3	5	2.0	437.5	250	336.25	315.5	6.58	-	-	64400	218562	154162	3.39	59000	205075	146075	3.48
Garlic	Crop diversification	G-282	5	2.0	81.25	62.5	71.25	69	3.26	-	-	128500	235125	106625	1.83	115400	227700	112300	1.97

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal / 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	utrient Management	Chelated mineral mixture power	20	20	10.4 lit/day	9.2 lit/day	13.6	-	-	-	-	-		-	-	-	
Buffalo	Nutrient Manage.	3y Pass protein	10	10	13.1 lit/day	10.9 lit/day	20.5	-	-	-	-	-	-	-	-	-	-
Buffalo	Nutrient Manage.	3y pass fat	10	10	7.9 lit/day	6.4 lit/day	23.43	-	-	-	-	-	-	-	-	-	-
Fodder	"odder managemen	Makhan grass	10	10	697 quintal	636 quintal	9.6	-	-	102100	294430	192330	2.88	98320	210120	111800	2.13

FLD on Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Different vegetables	Women health	Helth management	5	5	60	-	-	-	-	300	720	420	2.4	-	-	-	-

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units
Vegetables	Nutritive & fresh healthy vegetables	Kitchen garden	5	5

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		31	31		3	3	0	34	34
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	1	43		43	5		5	48	0	48
Integrated nutrient management	1	326		326	13		13	339	0	339
Production of organic inputs	1		49	49		6	6	0	55	55
Others (pl specify)				0			0	0	0	0
Total	**4**	**369**	**80**	**449**	**18**	**9**	**27**	**387**	**89**	**476**
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				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (a)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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				0			0	0	0	0

fruits										
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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 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				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
III Soil Health and										

Fertility Management										
Soil fertility management	1		25	25			0	0	25	25
Integrated water management				0			0	0	0	0
Integrated Nutrient Management	1		27	27		2	2	0	29	29
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	1	18		18	2		2	20	0	20
Soil and Water Testing				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**3**	**18**	**52**	**70**	**2**	**2**	**4**	**20**	**54**	**74**
IV Livestock Production and Management										
Dairy Management	1	20		20	2		2	22	0	22
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management	1		50	50			0	0	50	50
Disease Management	1	22		22	3		3	25	0	25
Feed & fodder technology	1	18		18	2		2	20	0	20
Production of quality animal products				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**4**	**60**	**50**	**110**	**7**	**0**	**7**	**67**	**50**	**117**
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				0			0	0	0	0

processing										
Processing and cooking	1		23	23		2	2	0	25	25
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques	1		25	25		4	4	0	29	29
Value addition	1		13	13			0	0	13	13
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies	1		27	27		3	3	0	30	30
Rural Crafts				0			0	0	0	0
Women and child care	1		30	30		1	1	0	31	31
Others (pl specify)				0			0	0	0	0
Total	**5**	**0**	**118**	**118**	**0**	**10**	**10**	**0**	**128**	**128**
VI Agril. Engineering										
Farm Machinary and its maintenance	1	18		18			0	18	0	18
Installation and maintenance of micro irrigation systems	1	19		19	4		4	23	0	23
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition	1	23	7	30	2	1	3	25	8	33
Post Harvest Technology	1	26		26	3		3	29	0	29
Others (pl specify)				0			0	0	0	0
Total	**4**	**86**	**7**	**93**	**9**	**1**	**10**	**95**	**8**	**103**
VII Plant Protection										
Integrated Pest Management	2	11	29	40		1	1	11	30	41
Integrated Disease Management	1	30		30	4		4	34	0	34
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**3**	**41**	**29**	**70**	**4**	**1**	**5**	**45**	**30**	**75**

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				0			0	0	0	0

Production										
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 CapacityBuilding 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	**23**	**574**	**336**	**910**	**40**	**23**	**63**	**614**	**359**	**973**

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				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (a)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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 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				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
III Soil Health and Fertility Management										
Soil fertility management	1	19		19	2		2	21	0	21
Integrated water management				0			0	0	0	0
Integrated Nutrient				0			0	0	0	0

Management										
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				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**1**	**19**	**0**	**19**	**2**	**0**	**2**	**21**	**0**	**21**
IV Livestock Production and Management										
Dairy Management	1	19		19			0	19	0	19
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	2	39		39			0	39	0	39
Feed & fodder technology				0			0	0	0	0
Production of quality animal products	1	19		19	2		2	21	0	21
Others (pl specify)				0			0	0	0	0
Total	**4**	**77**	**0**	**77**	**2**	**0**	**2**	**79**	**0**	**79**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1		18	18		2	2	0	20	20
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				0			0	0	0	0

processing										
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts	1		22	22		1	1	0	23	23
Women and child care	1		14	14			0	0	14	14
Others (pl specify)				0			0	0	0	0
Total	**3**	**0**	**54**	**54**	**0**	**3**	**3**	**0**	**57**	**57**
VI Agril. Engineering										
Farm Machinary and its maintenance				0			0	0	0	0
Installation and maintenance of micro irrigation systems	1	19		19			0	19	0	19
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology	1	24		24	2		2	26	0	26
Others (pl specify)				0			0	0	0	0
Total	**2**	**43**	**0**	**43**	**2**	**0**	**2**	**45**	**0**	**45**
VII Plant Protection										
Integrated Pest Management	1	12		12			0	12	0	12
Integrated Disease Management				0			0	0	0	0
Bio-control of pests and diseases	1	11		11			0	11	0	11

Production of bio control agents and bio pesticides				0			0	0	0	0
Others (pl specify**)**				0			0	0	0	0
Total	**2**	**23**	**0**	**23**	**0**	**0**	**0**	**23**	**0**	**23**
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				0			0	0	0	0

sheets										
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	**12**	**162**	**54**	**216**	**6**	**3**	**9**	**168**	**57**	**225**

Farmers' Training including sponsored training programmes (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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Technologies										
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	1	0	31	31	0	3	3	0	34	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	1	43	0	43	5	0	5	48	0	48
Integrated nutrient management	1	326	0	326	13	0	13	339	0	339
Production of organic inputs	1	0	49	49	0	6	6	0	55	55
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**4**	**369**	**80**	**449**	**18**	**9**	**27**	**387**	**89**	**476**
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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (a)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Micro irrigation	0	0	0	0	0	0	0	0	0	0

systems of orchards										
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
c) Ornamental Plants										
Nursery Management	0	0	0	0	0	0	0	0	0	0
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)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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 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 (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
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 (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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	0	0	0	0	0	0	0	0	0	0

value addition										
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)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
III Soil Health and Fertility Management										
Soil fertility management	2	19	25	44	2	0	2	21	25	46
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	1	0	27	27	0	2	2	0	29	29
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
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	1	18	0	18	2	0	2	20	0	20
Soil and Water Testing	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**	**37**	**52**	**89**	**4**	**2**	**6**	**41**	**54**	**95**
IV Livestock Production and Management										
Dairy Management	2	39	0	39	2	0	2	41	0	41
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	1	0	50	50	0	0	0	0	50	50
Disease Management	3	61	0	61	3	0	3	64	0	64
Feed & fodder technology	1	18	0	18	2	0	2	20	0	20
Production of quality animal products	1	19	0	19	2	0	2	21	0	21
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**8**	**137**	**50**	**187**	**9**	**0**	**9**	**146**	**50**	**196**
V Home Science/Women empowerment										
Household food security by kitchen	1	0	18	18	0	2	2	0	20	20

gardening and nutrition gardening										
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing and cooking	1	0	23	23	0	2	2	0	25	25
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	1	0	25	25	0	4	4	0	29	29
Value addition	1	0	13	13	0	0	0	0	13	13
Women empowerment	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	1	0	27	27	0	3	3	0	30	30
Rural Crafts	1	0	22	22	0	1	1	0	23	23
Women and child care	2	0	44	44	0	1	1	0	45	45
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**8**	**0**	**172**	**172**	**0**	**13**	**13**	**0**	**185**	**185**
VI Agril. Engineering										
Farm Machinary and its maintenance	1	18	0	18	0	0	0	18	0	18
Installation and maintenance of micro irrigation systems	2	38	0	38	4	0	4	42	0	42
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	1	23	7	30	2	1	3	25	8	33

Post Harvest Technology	2	50	0	50	5	0	5	55	0	55
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**6**	**129**	**7**	**136**	**11**	**1**	**12**	**140**	**8**	**148**
VII Plant Protection										
Integrated Pest Management	3	23	29	52	0	1	1	23	30	53
Integrated Disease Management	1	30	0	30	4	0	4	34	0	34
Bio-control of pests and diseases	1	11	0	11	0	0	0	11	0	11
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**5**	**64**	**29**	**93**	**4**	**1**	**5**	**68**	**30**	**98**
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 culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
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 SHGs	0	0	0	0	0	0	0	0	0	0
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	**35**	**736**	**390**	**1126**	**46**	**26**	**72**	**782**	**416**	**1198**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Tota		
		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										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	1		22	22					22	22
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										
TOTAL	**1**		**22**	**22**					**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	M	F	T
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										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	1		22	22					22	22
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					22	22

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

Area of training	No. of Courses	No. of Participants								
		eneral			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	29	1	30	3	0	3	32	1	33
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	1	29	1	30	3	0	3	32	1	33

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

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

Area of training	No. of Courses	No. of Participants								
		eneral			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	29	1	30	3	0	3	32	1	33
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	**1**	**29**	**1**	**30**	**3**	**0**	**3**	**32**	**1**	**33**

Table. Sponsored training programmes

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										
Increasing production and productivity of crops	**1**		**29**	**29**		**1**	**1**	**0**	**30**	**30**
Commercial production of vegetables				**0**			**0**	**0**	**0**	**0**
Production and value addition										
Fruit Plants				**0**			**0**	**0**	**0**	**0**
Ornamental plants				**0**			**0**	**0**	**0**	**0**
Spices crops				**0**			**0**	**0**	**0**	**0**
Soil health and fertility management	**2**	**43**	**27**	**70**	**5**	**2**	**7**	**48**	**29**	**77**
Production of Inputs at site				**0**			**0**	**0**	**0**	**0**
Methods of protective cultivation				**0**			**0**	**0**	**0**	**0**
Others (pl. specify)	**2**		**74**	**74**		**10**	**10**	**0**	**84**	**84**
Total	**5**	**43**	**130**	**173**	**5**	**13**	**18**	**48**	**143**	**191**

Post harvest technology and value addition										
Processing and value addition	**1**	**26**		**26**	**3**		**3**	**29**	**0**	**29**
Others (pl. specify)	**1**	**326**	**13**	**339**			**0**	**326**	**13**	**339**
Total	**2**	**352**	**13**	**365**	**3**	**0**	**3**	**355**	**13**	**368**
Farm machinery										
Farm machinery, tools and implements				**0**			**0**	**0**	**0**	**0**
Others (pl. specify)				**0**			**0**	**0**	**0**	**0**
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Livestock and fisheries										
Livestock production and management				**0**			**0**	**0**	**0**	**0**
Animal Nutrition Management	**1**		**45**	**45**		**5**	**5**	**0**	**50**	**50**
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**	**0**	**45**	**45**	**0**	**5**	**5**	**0**	**50**	**50**
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 (pl. specify)	**1**		**30**	**30**		**1**	**1**	**0**	**31**	**31**
Total	**1**	**0**	**30**	**30**	**0**	**1**	**1**	**0**	**31**	**31**
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	**9**	**395**	**218**	**613**	**8**	**19**	**27**	**403**	**237**	**640**

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

3.5 Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
1	**2**	**3**	**4**	**5**
Advisory Services	58	188	4	192
Diagnostic visits	6	67	2	69
Field Day	3	77	2	79
Group discussions	11	309		309
Kisan Ghosthi	6	98	1	99
Film Show	10	900	5	905
Self -help groups	2	46	2	48
Kisan Mela	2	5180	40	5220
Exhibition	3	2835	27	2862
Scientists' visit to farmers field	22	131	2	133
Plant/animal health camps	1	54		54
Farm Science Club				0
Ex-trainees Sammelan	1	25	2	27

Farmers' seminar/workshop	1	270	4	274
Method Demonstrations	11	42		42
Celebration of important days	2	109	5	114
Special day celebration	3	710	41	751
Exposure visits	3	170		170
Others	1			0
Total	146	11211	137	11348

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	2
Extension Literature	6
News paper coverage	6
Popular articles	2
Radio Talks	7
TV Talks	3
Animal health camps (Number of animals treated)	1
Others (pl. specify)	3
Total	**23**

3.6 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-9		19.7	-	-
	Groundnut (Breeder)	GG-20		23.7	-	-
	Groundnut (Breeder)	GG-22		29.5	-	-
	Groundnut (Breeder)	GJG-31		19.3		
Pulses					-	-
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Total				**92.2**		

Production of planting materials by the KVK

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						
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity (Kg)	Value (Rs.)	No. of Farmers
Bio Fertilisers	Azatobactor			
	PSB			
	Rhizobium			
Bio-pesticide	Trichoderma (Savaj)	7155	5,00,850/-	302
	Beauveria (Savaj)	4955	7,43,250/-	121
	lecanicillium			
Bio-fungicide				
Bio Agents				
Total				

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				
Piggery				
Piglet				
Fisheries				
Indian carp				
Exotic carp				
Total				

4. Literature Developed/Published (with full title, author & reference)

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

B. Literature developed/published

Item	Title	Authors name	Number
Research papers (2)	A study of Adoption of milking and Healthcare Practices of Dairy Animals under CoOperative Network of Rajkot Milk Marketing union of Saurashtra	Jaysukh B. Kathiriya and Hetal A. Manvar	
	Thermal requitrement of kharif crops under rainfed condition in North Saurashtra of Gujarat	Vora V.D., Sanepara D P. Chopada M.C., Vekariya P.D., Sharma G.R. and Sutaria G.S.	
Technical reports (8)	Monthly, Quertly, six monthly, nine monthly, Annual, ZREAC, Agresco and SAC		
News letters	-	-	-
Technical bulletins	-	-	-
Popular articles (5)	Chanani mukhy jivato ane tenu sanklit vyavthapan	M. A. Vakaliya, M. M. Tajpara, J. H. Chaudhary and B. B. Kabaria	
	Jiruna pak ma sanklit rog jivat niyantran	M. A. Vakaliya, M. M. Tajpara and B. B. Kabaria	
	Kapasni Santhi Ae Pak Poshan Mate Sendriya Tatvano Amulya Khajano	D. P. Sanepara	
	Pratikul Abohavama Krushi Vikas Mateni Ek Anokhi Pahel: NICRA Project	M. A. Vakaliya, M. M. Tajpara and B. B. Kabaria	
	NICRA Project: Abohava Anukulit Rashtriya Krushi Priyojana	M. M. Tajpara, M. A. Vakaliya, and B. B. Kabaria	
Extension literature (6)	Riverbed Kheti : Ek Ashanu Kiran	Dr. M. M. Tajpara Mr. M. A. Vakaliya Dr. B. B. Kabaria	
	Drone Technology no Krishi Chetre Upyog	Dr. M. M. Tajpara Mr. M. A. Vakaliya Dr. B. B. Kabaria	
	Ativrushtrima Pashu Mavjat	Dr. M. M. Tajpara Mr. M. A. Vakaliya Dr. B. B. Kabaria	
	Ativrushtrima Pashu Ahaar Vyavastha	Dr. M. M. Tajpara Mr. M. A. Vakaliya Dr. B. B. Kabaria	
	Jamin Dhovanthi Jaminani Faldrupta Par Asar ane Tena Upayo	Dr. M. M. Tajpara Mr. M. A. Vakaliya Dr. B. B. Kabaria	

	Panino Sangrah Ane Jhaman Karva Mateni Vividh Padhdhtio	**Dr. M. M. Tajpara Mr. M. A. Vakaliya Dr. B. B. Kabaria**	
Others (Abstract) (1)	Effect of mulching on growth and fruit yield of guava and soil moisture content under rainfed conditions	DP. Sanepara, P.D. Vekariya, G.R. Sharma, V.D. Vora, G.S. Sutaria	
TOTAL (22)			

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	**DVD**	Groundnut processing and value addition	**5**
2	**DVD**	Entreprenurship development through processing & value addtion of milk	**5**
3	**DVD**	Value addition of sugarcane by making Herbal jaggery (Gud)	**5**

D. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

1.

(A) Success Story: Groundnut processing and value addition

Title: Entreprenurship development through groundnut processing and value addition by Mini oil mill unit

(B) Bio- data of farmers:

1. **Name of farmer:** Mr. Devendrabhai Shivabhai Moliya and other 14 rural youth members
2. **Present Address:**

Village: Targhadi, Ta: Paddhari, Dist: Rajkot

3. **Date of birth OR Age:** 34 years old and 22 to 34 year old other members
4. **Education:** Graduation and primary to graduation of other members
5. **Source of income:**

i. Agriculture

6. **Brief information about individual (farmer/ farm woman):**

Mr. Devendrabhai Shivabhai Moliya is progressive farmer in Targhadi village. He is engaged in farming activities with his family. Also other members of group are engaged in farming and agriculture allied activities.

7. **Land holding:** 8 ha land

Irrigated Source: Well

Method of irrigation: Traditional

8. **Brief information regarding innovation (Success Story):**

i. Topic: Income generation through processing and value addition of groundnut

ii. Introduction:

There are population of about 3,500 people in Targhadi village of Paddhari taluka. Most of the people are engaged in farming and animal husbandry. The major crops grown in the village are groundnut, cotton, wheat, garlic, oninon and cumin. The major issue in this region is agriculture is mostly dependent rainfall.

iii. Subject matter:

An enterprise of mini oil mill unit has established with the objectives of value addition of groundnut, selling of pure & nutritional edible oil to the society and to generate employment & income. Mr. Devendrabhai Shivabhai Moliya as a group leader of 15 rural youths came in contact with Krushi Vigyan Kendra Rajkot during awareness training programme of ARYA project. He insisted to start the processing of groundnut in his village. Krushi Vigyan Kendra Rajkot guided him to establish mini oil mill unit at Targhadi village of Padadhari taluka. The group of rural youths was trained and demonstrated for the value addition of agricultural produce. The mini oil mill unit was sponsored by Krishi Vigyan Kendra for processing of groundnut crop under ARYA project. They started processing of his groundnut and selling groundnut oil to consumers with ARYA brand logo and earning more profit as compare to direct selling of groundnut to local market through mediators. Apart from this, they also started producing groundnut oil & cake on rent basis for the people of nearby villages. According to more demand of groundnut oil, they are also purchasing groundnut from the people of their village and producing groundnut oil & cake through mini oil mill unit and selling it to consumers.

iv. Economic output:

The monthly average 500 quintal groundnut is being processed for production of oil and about 15,700 kg oil is obtained whereas 24,500 kg groundnut cake is produced. They generated gross income about Rs. 22,01,500 and net income Rs. 1,57,500 per month through this enterprise by selling groundnut oil & oil cake**.**

v. Conclusion:

After mini oil mill unit enterprise a monthly income of every member of group is increased upto Rs. 10500 per youth as in addition to early income from agriculture and other sources.

Hence, the average monthly income increased due to establishment of mini oil mill unit. The consumers are getting healthy and pure groundnut oil. The farmer getting higher rate of groundnut than APMC because of reducing mediator and transportation cost. This sets a good example to attract and retain of youth in agriculture at village level.

9. Impact of success story on this farmers locality OR Horizontal spread of innovation:

There is always good demand of pure groundnut oil in daily life. The farmers of the surrounding villages sell their groundnut to this enterprise and get affordable price as compared to local market. They also process their groundnut through enterprise on rent basis for production of groundnut oil. So they can get best quality oil from their own raw materials for consumption purpose. The farmers also got benefit of reduced transportation cost because they sell their groundnut directly to this enterprise.

10. Outstanding contribution in field of Agriculture:

Mr. Devendrabhai Shivabhai Moliya and other rural youth members of this enterprise are doing farming and also processing of groundnut for pure quality groundnut oil and cake though mini oil mill unit.

2.

A) Success Story: Milk Processing

Title: Entreprenurship development through processing & value addtion of milk **(B) Bio- data of farmers:**

1. **Name of farmer:** Miss. Sejalben Dilipbhai Mer and other 7 rural youth members
2. **Present Address:**

Village: Aambaradi, Ta: Jasdan, Dist: Rajkot

3. **Date of birth OR Age:** 18 year old and 19 to 34 year old other members
4. **Education:** Graduation and primary to graduation of other members
5. **Source of income (last three year):**

i. Agriculture (Lease farming)

ii. Animal husbandry: 5 deshi Gir cows

6. Brief information about individual (farmer/ farm woman):

Miss. Sejalben Dilipbhai Mer is enthusiastic woman in Ambaradi village. She is engaged farming with animal husbandry and dairy farming activities with her family. Also other members of group are engaged in farming and agriculture allied activities.

7. Land holding: Lease Farming

Irrigated Source: Well

Method of irrigation: Traditional Unirrigated: Nil

8. Brief information regarding innovation (Success Story):

i. Topic: Income generation through processing & value addition of milk

ii. Introduction:

There are population of about 4,200 people in Aambardi village of Jasadan taluka Most of the people of this village are engaged in farming and animal husbandry. The major crops grown in the village are groundnut, cotton, wheat, garlic, oninon and cumin. The major issue in this region is agriculture is mostly dependent rainfall.

iii. Subject matter:

Miss. Sejalben Dilipbhai Mer as a group leader of 8 rural youths came to know about ARYA project and participated in ARYA awareness training and meeting in her village. She was interested to know more about dairy farming and milk processing. The faculty of KVK- Targhadia under ARYA project guided her properly about milk processing and its marketing. KVK-Targhadia also sponsored her a milk-mava machine for the value addition of milk under ARYA project. She also got technical training under ARYA project regarding milk processing, value addition and working operation of milk-*mava* machine. She has started to make "Milk-Mava" and "*penda*" (sweet) from raw milk of her deshi cow. Apart from this, she also started a job work of making "*Milk-Mava*" for the people of nearby villages. As per more demand of milk-*mava* and *penda*, she is also purchasing raw milk from the people of her village and preparing milk-mava through machine and selling best quality of milk-mava and milk based edible product like *penda* to consumers. Now she is selling milk-*mava* and *penda* to consumers and earning more profit as compare to early income from direct selling of raw milk.

iv. Economic output:

She has five milking deshi gir cows and collects milk about to 40 ltr per day. Earlier she was selling milk to consumers directly and was geting about Rs. 1,220 per day. Now, she has produced aproximately 2 kg milk-mava from 10 ltr milk by milk-mava making machine. She gots about to Rs. 2,450 per day by selling milk-mava and also product named *'Penda'* which is known as *Prasad* in Ghela Somantath temple near by village. Thus milk processing increased her income nearly double as compared to earlier.

v. Conclusion:

Miss. Sejalben Dilipbhai Mer is engaged with animal husbandry and farming with her family. She makes milk-mava and *penda* having superior quality by modern method as compared to quality obtained by traditional methods. Now she earns almost double income through milking and milk processing in the form of milk-mava and *penda.*

9. Impact of success story on this farmers locality OR Horizontal spread of innovation:

There is always good demand of milk and milk based products like *penda* in daily life. People of this village also produce milk-mava from their milk on rent basis for own consumption. They also get good price of their milk. The demand of pure quality milk-mava and *penda* also increased in nearby villages, in differernt temples of the area specially in the festival and marriage season.

10. Outstanding contribution in field of Agriculture

Miss. Sejalben Dilipbhai Mer is doing farming along with animal husbandry. She is also producing superior quality milk based products like milk-*mava* and *penda* (sweet).

E. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

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

F. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

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

5.1. Indicate the specific training need analysis tools/methodology followed for

A. Practicing Farmers

a) Survey
b) Field survey
c) Group discussion

B. Rural Youth

a)) Survey
b) Field survey
c) Group discussion

C. In-service personnel

a)) Survey
b) Field survey
c) Group discussion

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) Farmer group discussions
ii) Field level observations

For FLD:

i) New variety/technology
ii) Existing cropping system
iii) Others if any

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) - Rajkot
ii. No. of farm families selected per village : 20
iii. No. of survey/PRA conducted : 2
iv. No. of technologies taken to the adopted villages : 5
v. Name of the technologies found suitable by the farmers of the adopted villages: IDM, INM, IPM and new Varietal etc. technology

vi. Impact (production, income, employment, mological- horizontal/vertical) : -

Sl. No.	**Name of crop**	**Technological Intervention**	**Productivity before intervention (qtl./ha)**	**Productivity after intervention (qtl./ha)**	**% increase in productivity**	**Qualitative & quantitative impact on farmers (for example Cost saving, increase in net income, impact on livelihood and gender, horizontal spread of technology, environment and sustainabilityetc.)**
1	Cotton	IDM + IPM	25.30	31.09	22%	increase in net income
2	Groundnut	Variety+ IDM + IPM	24.54	27.39	11.61 %	increase in net income, horizontal spread of technology
3	Sesamum	Variety+ IDM + IPM	4.27	5.20	21.77 %	increase in net income
4	Castor	Variety+ IDM	21.52	25.60	19 %	increase in net

		+ IPM				income
5	Wheat	Variety+ IDM + IPM	36.48	38.73	6.16 %	increase in net income
6	Cumin	Variety+ IDM + IPM	7.21	7.78	7.9	increase in net income, horizontal spread of technology

vii. Constraints if any in the continued application of these improved technologies:- 6.

LINKAGES

A. Functional linkage with different organizations

Name of organization	**Nature of linkage**
Dy. Director of Agriculture.	Most of the Organizations are members of Scientific Advisory Committee (SAC) of KVK and have linkage with different activities of KVK viz., Training Programme, Khedut Sibir, Farmers day, Animal treatment Camp, Farmers fair, Film Show, Ex-training meeting and Soil health card etc.
Dy. Director of Agril. Extension (FTC)	
Dy. Director of Horticulture	
Dy. Director of Animal Husbandry	
Dy. Director of Social Forestry	
Jilla Udhyong Kendra	
Milk Co-Operative Society (Gopal Dairy)	
Bank of Baroda	
National Bank for Agriculture & Rural Development NABARD)	
NHRDF	
Doordarshan Kendra	
All India Radio	
WALMI	
District Rural Development Agency(DRDA)	
ATMA	
GLDC	
District Watershed Development Agency (DWDA)	
GGRC	
Reliance foundation	

B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	**Date/ Month of initiation**	**Funding agency**	**Amount (Rs.)**
Agricultural Technology Information Center	2004	Govt. of Gujarat	2,19,960
Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India	2016-17	ICAR-New Delhi	36,000,00
Cluster Frontline Demonstrations on pulses under NFSM	2015-16	ICAR-New Delhi	2,32,155
Cluster Frontline Demonstrations on oil seeds under NMOOP	2015-16	ICAR-New Delhi	6,83,865
Attracting and Retaining Youth in Agriculture (ARYA)	2015-16	ICAR-New Delhi	12,56,807
National Initiative on climate Resilient Agriculture (NICRA) - BH 2704-47	2010	CRIDA, Hyderabad	7,88,000

C. Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

If yes, role of KVK in preparation of SREP of the district?

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	Staff meeting	4	-	-
02	Research projects	-	-	-	-
03	Training programmes	Farmers Training	17	7	-
04	Demonstrations	Technology Deminstrations	4	7	
05	Extension Programmes				
	KisanMela	Participant in Mela	3	-	-
	Technology Week		1	1	-
	Exposure visit	Exposure visit by ATMA of Progresive farmers	-		
	Exhibition	Exhibition organized at KVK	7	1	
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	Others (Pl. specify)	-	-	-	-
06	**Publications**	-	-	-	-
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
07	**Other Activities (Pl.specify)**	-	-		
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-		

D. Give details of programmes implemented under National Horticultural Mission : Nil

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

E. Nature of linkage with National Fisheries Development Board : Nil

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

F. Details of linkage with RKVY : Nil

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

7. Convergence with other agencies and departments:

8. Innovator Farmer's Meet :

Sl.No.	Particulars	Details
1	Have you conducted Farm Innovators meet in your district?	No
	Brief report in this regard	

9. Farmers Field School (FFS) : Nil

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Brief report

10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:

- V Gram Variety GJG-3 is good yield potential.
- V *Trichoderma* is potential for stem rot management in groundnut
- V Mulching is good practices in cotton for water saving.
- V *Beauveria bazziana* is good for pink ball worm management in cotton.

10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

- V Yellowing and drying of cotton plants immedialtiy often rainfall.
- V Newly released garlic variety is poor in yield.
- V Management of thrips is problem in all the major crops in district.

11. Technology Week celebrationduring 2017-18 Yes

Period of observing Technology Week: From 18th Sept. to 22nd Sept. 2018 Total number of farmers visited : 583 Total number of agencies involved : 5
Number of demonstrations visited by the farmers within KVK campus: 9

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	8	503	Cotton, Groundnut
Lectures organized	12	578	Kharif All crops, live stock and Value addition
Exhibition	1	583	Kharif All crops, live stock and Value addition
Film show	10	503	Kharif All crops, live stock and Value addition
Fair			
Farm Visit	5	515	Groundnut, Cotton
Diagnostic Practicals	2	98	Cotton and chilly
Supply of Literature (No.)	10	500	All subject
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)	2	400	Cotton, Groundnut
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week		583	

12. Interventions on drought mitigation (if the KVK included in this special programme)

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries
Gujarat	Groundnut	1300	900

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	1300	900
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Farmer's meeting	3	157	
Farmer's seminar	-	-	
Group meeting	2	58	
Total	**5**	**215**	

D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
Gujarat	1	56	42
Total	**1**	**56**	**42**

E. Seed distribution in drought hit states

State	Crops	Quantity (q^{tl})	Coverage of area (ha)	Number of farmers
Gujarat	Checkpea	12.50	20	50
Total		12.50	20	50

F. . Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Gujarat	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 minimize the risk factor in dry land agriculture with preservation of natural enemies	21789	6342
	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			

G. Awareness campaign

State	Mee	tings	Gost	hies	Fielt	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
	3	109	3	87	3	79	2	5220	3	2862	3	134

13. IMPACT

A. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Cumin Variety (GC-4)	232	84	30000	45000
Improved variety of Gram (GG-3)	157	72	27500	35000
Wheat variety (GW-496, 366)	268	75	32500	37500
Use of Trichoderma culture powder for the control of stem rot in groundnut	347	67	28125	31500

B. Cases of large scale adoption

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

C. Details of impact analysis of KVK activities carried out during the reporting period : -

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2017	2	3000	-
May	2	3000	-
June	2	3000	-
July	2	3000	-
August	3	3000	-
September	2	3000	-
October	2	3000	-
November	2	3000	-
December	2	3000	-
January 2018	2	3000	-
February	2	3000	-
March	2	3000	-

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
Rajkot-I	Text only	1	-	20	-	5	-	26
	Voice only							
	Voice & Text both							
	Total Messages	1	-	20	-	5	-	26
	Total farmers Benefitted	20000	-	20000				20000

15. PERFORMANCE OF INFRASTRUCTURE IN KVK A.

Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Water Harvest Structure	2001	40x 30x 15 mt	-	-	-	-	-	-
2	Arid Horticulture	-	-	-	-	-	-	-	-
3	Soil Testing Lab	2006	-	-	-	-	710000	-	-
4	Bio Gas Plant	2006	-	-	-	-	42000	-	-
5	Tractor mounted sprayer	2007	-	-	-	-	43000	-	-
6	Dibbler	2007	-	-	-	-	900	-	-
7	Cotton Stalk Shredder	2007	-	-	-	-	43000	-	-
8	Cotton Stalk Puller	2007	-	-	-	-	1200	-	-
9	Wheel Hoe	2007	-	-	-	-	1260	-	-
10	Veterinary mobile unit	2008	-	-	-	-	600000	-	-
11	Processing unit	2009					1685000		
12	Vermi composting unit	2009	0.05						
13	Nadep composting	2014							
14	Crop cafeteria	2009	0.10						
15	Agro-met advisory service	2013							
16	Farm pond	2001	0.48						
17	Organic farming unit in 1 ha.	2016	1.00						
18	KVK Museum	2011							

B. Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (q)	Cost of inputs	Gross income	
Cereals									
Pulses									
Oilseeds			3.60	GJG-9	Pod	19.7			
			3.34	GG-20	Pod	23.7			
			5.06	GG-22	Pod	29.5			
			1.80	GJG-31	Pod	19.3			
Fibers									

Spices & Plantation crops

Floriculture

Fruits

Vegetables

C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Trichoderma (Savaj)	7155	-	-	-
2	Beauveria	4955	-	-	-

D. Performance of instructional farm (livestock and fisheries production) : Nil

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	

E. Utilization of hostel facilities

Accommodation available (No. of beds): 20

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2017 To March 2018	Hostel is allotted to Agri. Enginering polytechnic students of the JAU from 2014		

F. Database management

S. No	Database target	Database created

G. Details on Rain Water Harvesting Structure and micro-irrigation system

Amount sanction (Rs.)	Expen diture (Rs.)	Details of infrastructur e created / micro irrigation system etc.	Activities conducted					Quantity of water harveste d in '000 litres	Area irrigated / utilizatio n pattern
			No. of Training program mes	No. of Demonst ration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
-	-	-	2	3	-	624	2	-	-

16. FINANCIAL PERFORMANCE A.

Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	SBI	Junagadh					
With KVK	SBI	Rajkot	463	TRAINING ORG.KVK.JAU.	10353003175	360002002	SBIN0000463

B. Utilization of KVK funds during the year 2017-18 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	61.05	61.05	58.87
2	**Traveling allowances**	1.00	0.70	0.28
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	3.00	3.00	3.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library	4.30	4.30	3.50
TOTAL (A)		**69.35**	**69.05**	**65.65**
B. Non-Recurring Contingencies				
1	**Works**	-	-	-
2	**Equipments including SWTL & Furniture**	-	-	-
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)			-	-
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**69.35**	**69.05**	**65.65**

C. Status of revolving fund (Rs. in akh) for the three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2015 to March 2016	17,73,299	13,84,442	10,42,087	22,60,455
April 2016 to March 2017	22,60,455	20,54,055	18,40,812	24,73,689
April 2017 to March 2018	24,73,689	24,24,186	23,39,682	25,58,193

17. Details of HRD activities attended by KVK staff during year

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. B. B. Kabaria	Senior Scientist and Head	Annual Zonal Workshop of zone	Junagadh	10/06/2017
Dr. M. M. Tajapara	Subject matter specialist	Review Workshop of NICRA proj ect	Baramati	03/07/2017
Dr. J. H. Chaudhari	Subject matter specialist	Review and planning meeting of seed hubs project	Kanpur	07/11/2017
Shri. D. P. Sanepara	Subject matter specialist	Review meeting of ARYA project	Navsari	29-30/01/2018
Shri. D. P. Sanepara	Subject matter specialist	Review meeting of NMOOP project	Navsari	29-30/01/2018
Dr. B. B. Kabaria	Senior Scientist and Head	10^{th} National conferance	New Delhi	17/03/2018
Dr. M. M. Tajapara	Subject matter specialist	Molecder tools in etideniology of intecting dieases	Mathura	6-5/11/2017

18. Please include any other important and relevant information which has not been reflected above (write in detail).

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	26	379	179	558
Rural youths	1		22	22
Extension functionaries	1	32	1	33
Sponsored Training	9	403	237	640
Vocational Training	-	-	-	-
Total	**37**	**814**	**439**	**1253**

2. Frontline demonstrations

Enterprise	No. ofFarmers	Area(ha)	Units/Animals
Oilseeds	20	8.0	-
Pulses	10	4	-
Cereals	-	-	-
Vegetables	10	-	-
Other crops	40	16.0	-
Hybrid crops			
Total	80	28.0	-
Livestock & Fisheries	50	-	50
Other enterprises			
Total	**50**	**-**	**50**
Grand Total	**130**	**28.0**	**50**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	2	2	**4**
Livestock	1	1	**5**
Various enterprises	1	1	**5**
Total	**4**	**4**	**14**
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	**4**	**4**	**14**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	146	11348
Other extension activities	23	-
Total	**169**	**11348**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Mark e-ting	Aware -ness	Other enterprise	Total
Rajkot-I	Text only	1		20		5		26
	Voice only							
	Voice & Text both							
	Total Messages	**1**		**20**		**5**		**26**
	Total farmers Benefitted	**20000**		**20000**				**20000**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	92.2	-
Planting material (No.)	-	-
Bio-Products (kg)	121.10	12,44,100
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	**957**	**47850/-**
Water	**540**	**27000/-**
Plant	**-**	**-**
Total	**1497**	**74850**

8. HRD and Publications

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