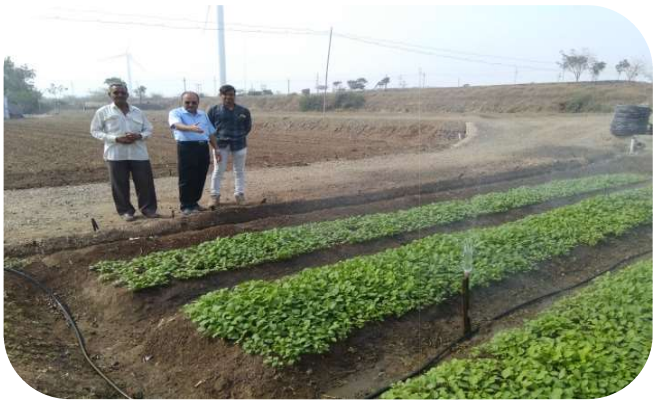
ANNUAL ZONAL WORKSHOP

ANNUAL PROGRESS REPORT
APRIL-2017 TO MARCH-2018

ACTION PLAN
APRIL-2018 TO MARCH-2019

To be presented in
Annual Zonal Workshop
will be held
on
5nd to 7th May, 2018 at
MPKV-RAHURI



Senior Scientist and Head
Krishi Vigyan Kendra
Junagadh Agricultural University
Gorkhijadiya-Morbi

ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2017-18
(1st April 2017 to 31st March 2018)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
Krishi Vigyan Kendra, Junagadh Agricultural University, Morbi Dist Morbi (Gujarat) - 363641	Office	FAX	kvkmorbi@gmail.com	www.jau.in
	02822-224853	-		

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

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

1.3. Name of the Senior Scientist and Head with phone & mobile no.

Name	Telephone / Contact		
Dr. D. S. Hirpara	Mobile	Office	E mail
	9426938235	02822-224853	dshirpara@jau.in

1.4. Year of sanction: 2017

1.5. Staff Position (as on March 31, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Pay Band	Current Grade Pay	Date of joining	
1.	IC/Senior Scientist and Head	Dr.D.S.Hirpara	Agronomy	37400-67000	9000	1-3-2017	-
2.	Subject Matter Specialist	D.A.Saradava	Plant Protection	15600-39100	7000	1-3-2017	-
3.	Subject Matter Specialist	Dr.Hemangi D. Mehta	Home Science	15600-39100	7000	1-8-2017	-
4.	Subject Matter Specialist	Vacant	-	-	-	-	-
5.	Subject Matter Specialist	Vacant	-	-	-	-	-
6.	Subject Matter Specialist	Vacant	-	-	-	-	-
7.	Subject Matter Specialist	Vacant	-	-	-	-	-
8.	Programme Assistant	Vacant	-	-	-	-	-
9.	Computer Programmer	Vacant	-	-	-	-	-
10.	Farm Manager	Vacant	-	-	-	-	-
11.	Accountant/Superintendent	Vacant	-	-	-	-	-
12.	Stenographer	Vacant	-	-	-	-	-
13.	Driver 1	Vacant	-	-	-	-	-
14.	Driver 2	Vacant	-	-	-	-	-
15.	Supporting staff 1	Vacant	-	-	-	-	-
16.	Supporting staff 2	Vacant	-	-	-	-	-

1.6. Total land with KVK (in ha) : 26 ha

S. No.	Item	Area (ha)
1	Under Buildings	**Development under process, so area not specified**

2.	Under Demonstration Units
3.	Under Crops
4.	Horticulture
5.	Pond
6.	Others if any

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	KVK	-	-	-	1-12-2017	575.32	Under process
2.	Farmers Hostel	KVK		-		1-12-2017	443.96	Under process
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9	ICT lab	-	-	-	-	-	-	-
10	Other	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bollero jeep	2006	4,86,500	2,70,048	Working

C) Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Tractor MasseyDI-241	2017	607137	Working
Computer System Acer 18.5	2017	34115	Working
Computer System Acer 18.5	2017	34115	Working
Printer MF 3010 canon	2017	10266	Working
Printer LBP 6510	2017	8761	Working

1.8. Details SAC meeting conducted in the year

Date	Name and Designation of Participants	Salient Recommendations	Action taken

26/03/2018	Dr. A.R.Pathak Hon. Vice Chancellor, JAU, Junagadh.	• Installation should be procedure using of P B rope in pinkball worm management (FLD) • Training programme of organic farming should be organized in June month instead of September month in the insuring year. **In chairman remarks**, Hon'ble Vice Chancellor, Dr. A. R. Pathak, Junagadh Agricultural University, Junagadh appreciated the activities carried out by the center.	Suggesion accepted and implemented. Training on organic farming included id 2017-18 action taken programme
	Dr.A.M.Parakhia Director of Extension Education, JAU, Junagadh		
	Dr. G. S. Sutariya, Research Scientist (DFRS), JAU Targhadia		
	Dr. B.B. Kabaria Senior Scientist & Head, KVK, Targhadia		
	Dr. D.S. Hirpara Senior Scientist & Head, KVK, , Morbi		
	Dr. N.B.Jadav, Senior scientist & Head, KVK-Pipalia		
	Shri D.B. Gajera DAO, Dis. Panchayat, Morbi.		
	Shri. R. J. Gohil Dir. D.R.D.A. Morbi		
	Dr.M.K. Kaneria Dy.D.A.H. District Panchayat, Rajkot		
	Shri. R. R.Tilava, DAO, Dis. Panchayat, Rajkot		
	Shri S.K. Tiwari NHRDF, Rajkot		
	Shri Vinay Kumar NHRDF, Rajkot		
	Shri. G.J. Kataria Asst. Dir.of Horti. Rajkot		
	Shri Ashit K. Tank Horti.Officer Rajkot		
	Shri C.M. Vaghasiya Dy. Manager Rajkot Dairy		

	Nirpat Singh Reliance Foundation Jasdan		

	Dr.Hemangi D.Mehta SMS-KVK Morbi		
	Shree D.A.Saradava SMS-KVK Morbi		
	Dr. J.R. Choudhary SMS- KVK- Targhadia		
	Shri D.P. Sanepara SMS- KVK – Targhadia		
	Dr. M.M. Tajpara SMS- KVK- Targhadia		
	Smt. H.A. Manvar SMS- KVK, Targhadia		
	Dr. J.N. Thaker , SMS- KVK Jamnagar		
	Ms. Pinky S. Sharma SMS- (Home Science), KVK, Pipalia		
	Shri A.R.Parmar SMS-, KVK, Pipalia		
	Dr. V. S. Prajapati SMS, KVK, Pipalia		
	Shree Jethalal A. Jetparia Progressive Farmer – KVK,JAU, Morbi		
	Shri Jadeja Ghanshyam Sinh J. Progressive Farmer – KVK,JAU,Morbi		

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Cotton-Wheat/Cotton-Cumin/Groundnut-Wheat/Groundnut-Cumin/Cotton-Summer Sesame
2	Animal husbandary – crop based enterprise /Dairy product
3	Farm Waste Management/ Crop residue management
4	Value addition in Groundnut/ Sesame

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

a) Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1	North Saurashtra Agro Climatic Zone Morbi, Wankaner and Tankara(Agro–eco-situation No.7)	Semi arid- region having annual rainfall of 550-600 mm with 29 rainy day Maximum temp – 44˚C, Minimum range – 5 to 12˚C and high evaporation
2	North West Agro Climatic Zone- 5 Maliya (mi) and Halvad block	Arid to semi arid region with annual rain fall – 500 to 550 mm maximum temp - 45˚C, Minimum range – 3 to 12˚C and high evaporation

b)Topography

S. No.	Agro ecological situation	Characteristics
1	Situation No. 7	Plain except some hilly areas in wankaner tehsil.
2	Situation No. 5	Plain costal region (saline) affected with desertification

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Medium black clayey	Low in organic carbon, heavy cracking and clod formtion	202.4
2	Alluvial Soil (sand-loam lomy)	Low fertility status, high infiltration rate	91.8
3	Hilly Soil (light)	Undulating topography, low fertitile eroded soil	13.6
4	Silty Soil (loomy)	Low infiltration rate, water logging, difficult to cultivate	5.5

2.4. Area, Production and Productivity of major crops cultivated in the district (2017-18)

S. No	Crop	Area (ha)	Production (M. T.)	Productivity (q/ha)
1	Groundnut	49810	83840	1683
2	Cotton (Bt)	219169	387239	1767
3	Pearlmillet	434	413	952
4	Sesame	8903	5797	651
5	Castor	8700	13832	1590
6	Greengram	1429	1156	809
7	Blackgram	1080	1001	927
8	Vegetable	1655	45959	2777
9	Fodder	24542	607853	24768
10	Wheat	3900	13436	3445
11	Gram	2115	2991	1414
12	Cumin	5660	5345	944

2.5. Weather data (2017-18)*

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
June	99.6				
July	498				
August	114				
September	22				
Total	**758**				

*** Parameters in details are not available for Morbi due to unavailability of recording instrument at weather station**

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

Category	Population	Production	Productivity
Cattle	**5,72,000 (2,45,000 milking)**		
Crossbred			
Indigenous			
Buffalo			
Sheep			
Goats			
Pigs			
Crossbred			
Indigenous			
Rabbits			
Poultry			
Hens			
Desi			
Category		Production (Q.)	Productivity
Fish (Reservoir)			

2.7. Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Morbi	Morbi	Gorkhijadia Jepur, Bharatnagar, Laxminagar,	Groundnut, Cotton, Sesame, Wheat, Cumin, Gram, Chickpea, Onion. Enterprises are dairy business Vermi composting preparation of roasted groundnut and chikki from groundnut seed	Pink ball worm in Cotton, Heavy infestation of sucking pest in cotton *phytopthora* disease in sesame and white grub infestation in groundnut.	IPM and INM in major crops of this area Increase drainage of soil Motivate the farmers for arid Horticultural crops. Efficient use of irrigation water
Tankara	Tankara	Sajjanpar Hadmatiya Nasitpar Harbattiyali Nasitpar	Groundnut, Cotton, Sesame, Wheat, Cumin, Gram, Chickpea, Garlic, Onion. Vermi composting preparation of roasted groundnut and chikki from groundnut seed	*phytopthora* disease in sesame and white grub infestation in groundnut. Pink ball worm in Cotton, Heavy infestation of sucking pest in cotton , 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 Efficient use of irrigation water
Wankaner	Wankaner	Devipur Devalia,	*Groundnut, Cotton, Sesame, Wheat, Cumin, Gram. Enterprises are dairy business, Vermi composting, preparation of roasted groundnut and chikki from groundnut seed	Pink ball worm in Cotton Heavy infestation of sucking pest in cotton *phytopthora* disease in sesame 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 Reducing the inter-calving period in Buffalo Motivate the farmers for arid Horticultural crops Efficient use of irrigation water

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Groundnut, Sesame 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.
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.
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

3.1. A. Details of target and achievements of mandatory activities

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
2	2	4	4	70	70	70	70

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
16	20	425	759	-	110	-	14703

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
-	-	-	-

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement (Sale of seeds)
-	-	-	Trichoderma (Savaj) – 4780Kg
		-	Beauveria (Savaj) – 12,200 Kg

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	Bt. cotton	Sucking pest	All the villages of district cultivating Bt. cotton 2,19,169 ha	Gorkhijadia	Beauveria and pheromone trap in FLD. pinkball worm management also reduce the population of the pest
		Sudden wilting/ drying in the month of September	1,12,000 ha	Amreli	Nutrient management through Bio-fertilizer and castor cake reduce the parawilting
		Pink ball worm	1,78,000 ha		
2	Groundnut	White grub	All the villages of Tankara, Morbi, Halvad block 36,900 ha	Nasitpar	Seed treatment by chlorpyriphos reduce 80% damage of white grub
3.	Cumin	Wilt and blight diseases	All the villages of Halvad and Morbi block 5,660	Suryanagar Bhaktinagar	Use of Trichoderma gave good result in wilt management of cumin

* Support with problem-cause and interventions diagram

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 Pest Management	-	1	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	1	-	-	-	-	-	-
Total	-	1	-	1	-	-	-	-	-	2

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 --- NIL ---

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 Pest Management	-	White grub management in groundnut	2	2	0.4
	-	-	-	-	-
Integrated Disease Management	-	Wilt management in cumin through bio agent	2	2	0.4
	-	-	-	-	-
Total	-	-	4	4	0.8

B.2. Technologies Refined under various Crops

NIL

B.3. Technologies assessed under Livestock and other enterprises

NIL

B.4. Technologies Refined under Livestock and other enterprises

NIL

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
Ground nut	Nourth saurashtra	Heavy infestation of white grub in ground nut	management of white grub in ground nut crop	2	white grub management through seed treatment	(1) yield (2) percentage of infected plant	T1 T2 percentage of infected plant 6.3% 2% yield 1910kg/ha 2038 kg/ha	5.6 percentage higher yield received over farmer practice where as 6.3 percentage damage plant in farmer practice in compare to only 2% in seed treatment	seed treatment with chlorpyriphos is very effective to reduce the damage of white grub	Nil	Nil

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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
Technology option 1 (Farmer's practice) - no seed treatment of chlorpyrophos	-	1910	kg/ ha	Rs. 46220/ ha	2.35
Technology option 2 - seed treatment with chlorpyriphos 20 E.C. 25ml/Kg seed	Gujarat Agriculture University	2038	kg/ ha	Rs. 62810/ ha	2.63
Technology option 3	-	-	-	-	-

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

1 Title of Technology Assessed: Management of white grub in ground nut crop

2 Problem Definition: Heavy infestation of white grub in ground nut

3 Details of technologies selected for assessment: Seed treatment with chlorpyriphos 20 EC

4 Source of technology: Gujarat Agriculture University

5 Production system and thematic area: Intigrated pest management

6 Performance of the Technology with performance indicators: -

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques:
Matrix sc0ring is 8 out of 10 done by farmer

8 Final recommendation for micro level situation: Sowing of groundnut with the seed treatment of chlorpyriphos 20 E.C. 25 ml/ kg seed to minimise the damage of white Grub.

9 Constraints identified and feedback for research: ----

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

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
Cumin	Cotton-cumin Ground nut-cumin	Heavy incidence of wilt disease in cumin	Use of trichodarma for wilt disease management in cumin	2	wilt management through Trichodarma treatment	(1) yield (2) percentage of wilted plant	percentage of wilted/ plant T1 – 11.25% T2 – 5.2% T3 – 3.4% yield T1 – 930 kg/ ha T2 – 1040 kg/ ha T3 – 1100 kg/ha	930 kg/ ha yield obtained in farmer practice where as 1040 and 1100 kg/ ha yield received in technology T2 and T3 respectively 11.25 percent infected plant in farmer practice is much higher than T2 & T3 5.2 ane 3.4 respectively	Trichodarma with compost two application 1st at time of sowing and 2nd 25 DAS sowing is very effective to control the wilt disease	Nil	Nil

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
Technology option 1 (Farmer's practice) - sowing of cumin without use of trichoderma	-	930	kg/ ha	Rs. 82900/ ha	3.18
Technology option 2 - Application of 5 kg/ ha trichoderma with 1000 kg/ ha compost at time of sowing	Junagadh Agriculture University Junagadh	1040	kg/ ha	Rs. 95400/ ha	3.39
Technology option 3 – T2+ same second application 15 days after germination to reduce the percentage of disease incidence	-	1100	kg/ ha	Rs. 101200/ ha	3.42

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

1 Title of Technology Assessed: Use of trichoderma for wilt disease management.

2 Problem Definition: Heavy incidence of wilt disease in cumin effecting yield loss up to 9 to 20 percent.

3 Details of technologies selected for assessment: Application of trichoderma with compost

4 Source of technology: Junagadh Agriculture University, Junagadh

5 Production system and thematic area: Intigrated disease management

6 Performance of the Technology with performance indicators: -

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques: 7 out of 10 scoring

8 Final recommendation for micro level situation: Application of trichoderma 5 kg/ ha with compost @ 1000 kg/ ha at time of sowing and second application is DAS

9 Constraints identified and feedback for research: Nil

10 Process of farmer's participation and their reaction: Trichoderma application gave good result in supressing the wilt disease and increase yield.

D1. Results of Technologies Refined

Results of On Farm Trial

- 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

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Groundnut	Disease management	IPM	Stem rot management in Groundnut	3	10	4.0
2	Cotton	Crop Production	INM (Bt. Cotton)	Nutrient management in Bt. cotton	4	40	16.0
3	Cotton	Pest management	IPM (Bt. Cotton)	Pinkball warm managent in Bt. cotton	4	10	4.0
4	Cumin	Pest Management	IPM	Management of wilt through bio agent	5	10	4.0

B. Details of FLDs implemented during 2017-18 (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Groundnut	Disease management	IPM	Kharif 2017-18	4.0	4.0	1	9	10	-
2	Cotton	Crop production	INM (Bt. Cotton)	Kharif 2017-18	16.0	16.0	3	37	40	-
3	Cotton	Pest management	IPM (Bt. Cotton)	Kharif 2017-18	4	4	1	9	10	-
4	Cumin	Disease Management	IPM	Rabi 2018	4.0	4.0	1	9	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil*			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Groundnut	*Kharif*	RF	Medium black	M	L	H	Cotton	22/06/17	10/10/17	756	26
Cotton	*Kharif*	Irrigated	Medium black	M	L	H	Cotton	21/06/17	6/12/17	756	26
Cotton	*Kharif*	Irrigated	Saline Medium black	L	L	H	Cotton	21/06/17	15/12/17	1366	31
Cumin	Rabi	Irrigated	Sandy loam	L	L	H	Groundnut	10/11/17	25/02/18	--	--

*L – low M – Medium H - High

Technical Feedback on the demonstrated technologies

Sr. No	Feed Back
1	To enhance the farmers to use recently developed certified varieties of different crops.
2	Proper use of fertilizers, Irrigation, insecticides and fungicide as per recommendation to reduce the production cost.

Farmers' reactions on specific technologies

Sr. No	Feed Back
1.	Reduction in white grub problem in groundnut due to adoption of technology
2.	Reduction in pink boll worm in cotton due to adoption of technology
3.	Cumin variety GC-4 is high yielding but gradually loosing wilt resistant character
4.	Heavy infestation of *Thrips* in crops like onion, cotton
5.	Research needed for control of insect-pests and diseases in organic farming

Extension and Training activities under FLD

Sr. No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	-	-	-	-
2	Farmers Training	-	-	-	-
3	Media coverage	-	-	-	-
4	Training for extension functionaries	-	-	-	-

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Ground nut	Disease Management	I IPM	GG-20	10	4.0	24.2	18.8	22.1	20.09	9.30	36300	107082	70182	2.95	34900	96151	61251	2.75

Frontline demonstration on pulse crops

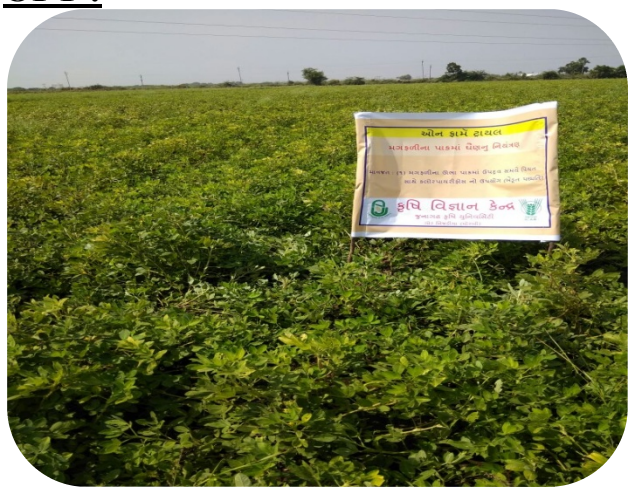
NIL

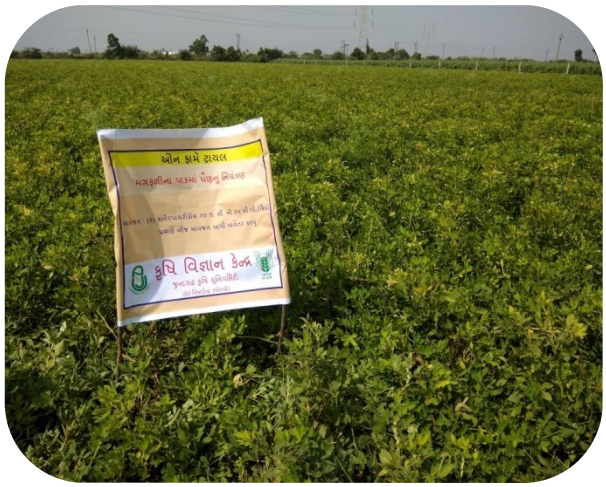
FLD on Other crops

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												
Spices & condiments																			
Cumin	Pest Management	GC-4	10	4.0	12.4	11.13	6.2	5.4	11.3	3.4*	11.2*	41750	144690	102940	3.47	39400	130000	90600	3.30
Commercial Crops																			
Cotton	Nutrient management	INM	40	16.0	26.25	15.5	20.0	18.0	10.8	23.5*	21.5	36700	94000	57300	2.56	35100	84740	49640	2.40
Cotton	Plant protection	IPM	10	4.0	25.25	17.5	22.17	20.8	10.9	0.9*	0.3*	39550	104199	64649	2.63	38400	97948	59548	2.50

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

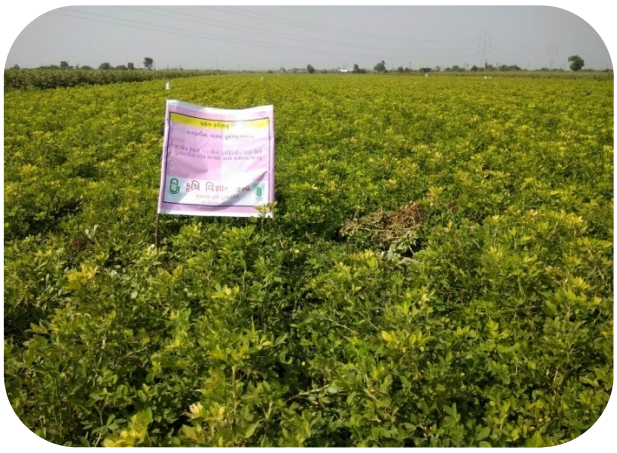
OFT :





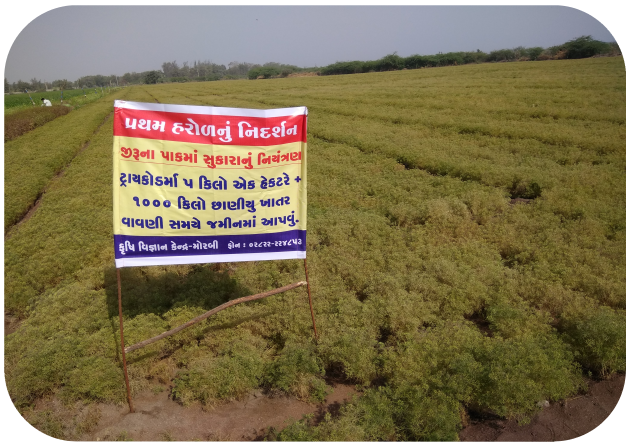
Management of White Grub in Groundnut.

FLD :



Stem rot management in ground nut

Nutrient management in cotton



Wilt management in cumin

Pink ball warm management in cotton

FLD on Livestock

NIL

FLD on Fisheries

NIL

FLD on Other enterprises

NIL

FLD on Women Empowerment

NIL

FLD on Farm Implements and Machinery

NIL

FLD on Other Enterprise: Kitchen Gardening

NIL

FLD on Demonstration details on crop hybrids

NIL

Note : Remove the Enterprises/crops which have not been shown

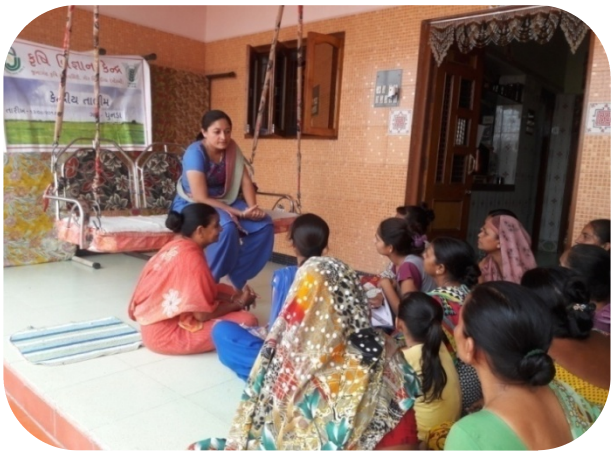
3.4. Training Programmes

Farmers' Training including sponsored training programmes (on campus)

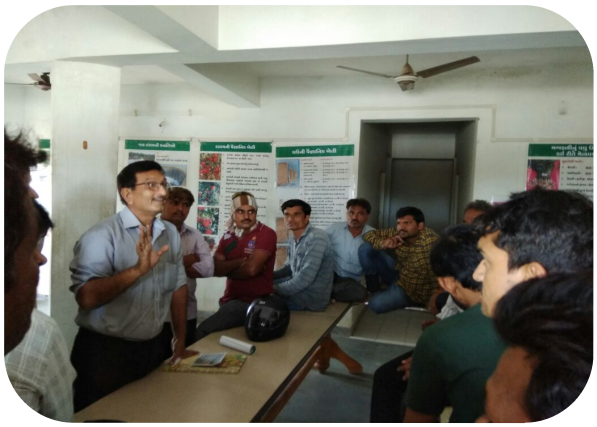
Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production	-	-	-	-	-	-	-	-	-	-
Soil & water conservatioin	1	23	0	23	0	0	0	23	0	23
Total	1	23	0	23	0	0	0	23	0	23
II Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Organic Farming	1	0	24	24	0	9	9	0	33	33
Total (a)	**1**	**0**	**24**	**24**	**0**	**9**	**9**	**0**	**33**	**33**
b) Fruits	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
GT (a-g)	**1**	**0**	**24**	**24**	**0**	**9**	**9**	**0**	**33**	**33**
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Soil fertility management	1	22	0	22	0	0	0	22	0	22
Total	**1**	**22**	**0**	**22**	**0**	**0**	**0**	**22**	**0**	**22**
IV Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	-	-	-	-	-	-	-	-	-	-
Women and child care	1	0	21	21	0	21	21	0	42	42
Skill Development	1	0	20	20	0	0	0	0	20	20
Total	**2**	**0**	**41**	**41**	**0**	**21**	**21**	**0**	**62**	**62**
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	1	32	0	32	0	0	0	32	0	32
Total	**1**	**32**	**0**	**32**	**0**	**0**	**0**	**32**	**0**	**32**
VII Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	2	116	0	116	2	0	2	118	0	118
Total	**2**	**116**	**0**	**116**	**2**	**0**	**2**	**118**	**0**	**118**
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
X CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	**8**	**193**	**65**	**258**	**2**	**30**	**32**	**195**	**95**	**290**

On Campus Training :

Integrated Insect Pests & Disease Management in Cotton-Sajanpar, Date :- 10/06/2017



Skill Development Training-Ghunda Date :-13/09/2017



Integrated Insect Pests & Disease Management in Cumin and Gram.- Amreli,Date :-10/01/18

House hold food security by Kitchen Gardening At Lilapar Date 20-11-2017

Improve Cultivation Practice of Wheat & Gram Bharatnagar, Date :-23/10/2017

Mother and Child Nutrition, At Ranchhod Nagar-Morbi 19/03/2018

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	-	-	-	-	-	-	-	-	-	-
Integrated Farming	1	30	0	30	2	0	2	32	0	32
Production of organic inputs	1	35	0	35	16	0	16	51	0	51
Total	**2**	**65**	**0**	**65**	**18**	**0**	**18**	**83**	**0**	**83**
II Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Kitchen Garding	1	0	19	19	0	12	12	0	31	31
Total (a)	**1**	**0**	**19**	**19**	**0**	**12**	**12**	**0**	**31**	**31**
b) Fruits	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
GT (a-g)	**1**	**0**	**19**	**19**	**0**	**12**	**12**	**0**	**31**	**31**
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	-	-	-	-	-	-	-	-	-	-
Value addition	2	0	36	36	0	38	38	0	74	74
Women empowerment	1	0	47	47	0	0	0	0	47	47
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	**3**	**0**	**83**	**83**	**0**	**38**	**38**	**0**	**121**	**121**
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	1	30	0	30	0	0	0	30	0	30
Total	**1**	**30**	**0**	**30**	**0**	**0**	**0**	**30**	**0**	**30**

VII Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	1	30	0	30	0	0	0	30	0	30
Bio-control of pests and diseases	1	25	0	25	5	0	5	30	0	30
Total	**2**	**55**	**0**	**55**	**5**	**0**	**5**	**60**	**0**	**60**
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	**9**	**150**	**102**	**252**	**23**	**50**	**73**	**173**	**152**	**325**

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

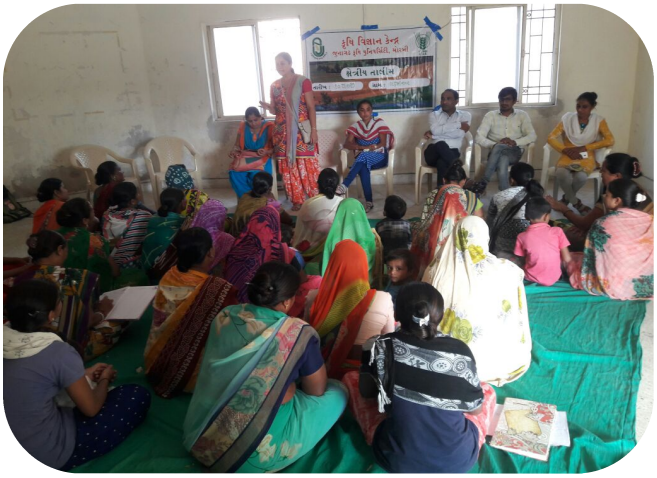
Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production	-	-	-	-	-	-	-	-	-	-
Integrated Farming	1	30	0	30	2	0	2	32	0	32
Soil & water conservatioin	1	23	0	23	0	0	0	23	0	23
Production of organic inputs	1	35	0	35	16	0	16	51	0	51
Total	**3**	**88**	**0**	**88**	**18**	**0**	**18**	**106**	**0**	**106**
II Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Organic Farming	1	0	24	24	0	9	9	0	33	33
Kitchen Gardenning	1	0	19	19	0	12	12	0	31	31
Total (a)	**2**	**0**	**43**	**43**	**0**	**21**	**21**	**0**	**64**	**64**
b) Fruits	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
GT (a-g)	**2**	**0**	**43**	**43**	**0**	**21**	**21**	**0**	**64**	**64**

Off Campus Training

Management of Pink Boll Worm in Cotton-Sajanpar,Date :-15/06/2017

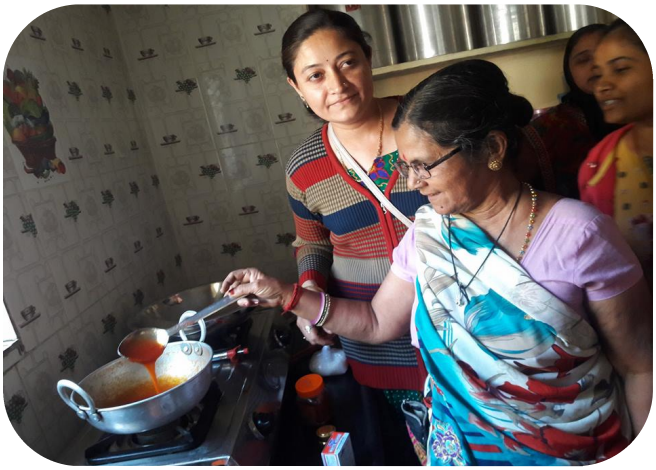
Information of Income Generating Activity-Khakhrada,Date :-6/11/2017

Pest & Disease Management in Groundnut-Gorkhijadia, Date :-08/08/2017



SHG Related Information and Entrepreneurship Development Training-Laxminagar, Date :-10/11/2017

Scope and Importance of Organic Farming-Jetpar, Date :-04/09/2017



Home level processing of Tomato-Laxmi Nagar,Date :-29/12/2017

III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	-	-	-	-	-	-	-	-	-	-
Value addition	2	0	36	36	0	38	38	0	74	74
Women empowerment	1	0	47	47	0	0	0	0	47	47
Women and child care	1	0	21	21	0	21	21	0	42	42
Skill Development	1	0	20	20	0	0	0	0	20	20
Total	**5**	**0**	**124**	**124**	**0**	**59**	**59**	**0**	**183**	**183**
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	2	62	0	62	0	0	0	62	0	62
Total	**2**	**62**	**0**	**62**	**0**	**0**	**0**	**62**	**0**	**62**
VII Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	3	146	0	146	2	0	2	148	0	148
Bio-control of pests and diseases	1	25	0	25	5	0	5	30	0	30
Total	**4**	**171**	**0**	**171**	**7**	**0**	**7**	**178**	**0**	**178**
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
X CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	**17**	**343**	**167**	**510**	**25**	**80**	**105**	**367**	**248**	**615**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Organic farming	**1**	**51**	**0**	**51**	**5**	**0**	**5**	**56**	**0**	**56**
TOTAL	**1**	**51**	**0**	**51**	**5**	**0**	**5**	**56**	**0**	**56**

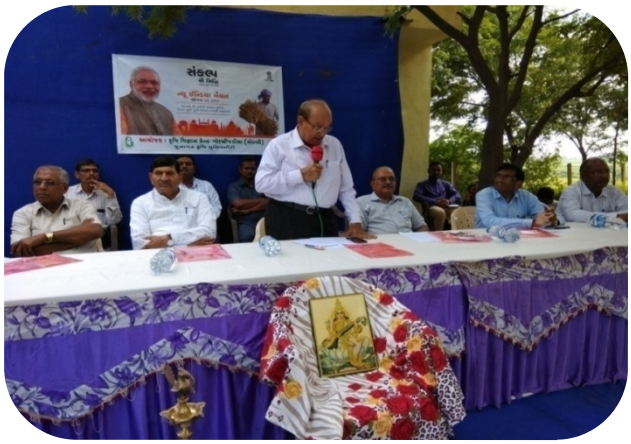
Training programmes for Extension Personnel including sponsored training (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Pest Management	1	52	0	52	0	0	0	52	0	52
Organic Farming	1	33	0	33	3	0	3	36	0	36
TOTAL	**2**	**85**	**0**	**85**	**3**	**0**	**3**	**88**	**0**	**88**

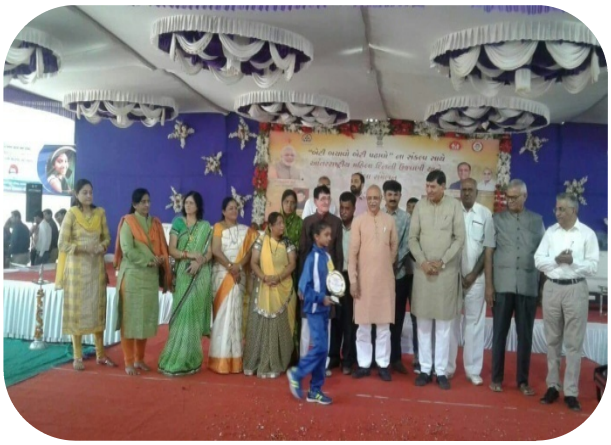
Training programmes for Extension Personnel including sponsored training – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Pest Management	1	52	0	52	0	0	0	52	0	52
Organic Farming	2	84	0	84	8	0	8	92	0	92
TOTAL	**3**	**136**	**0**	**136**	**8**	**0**	**8**	**144**	**0**	**144**

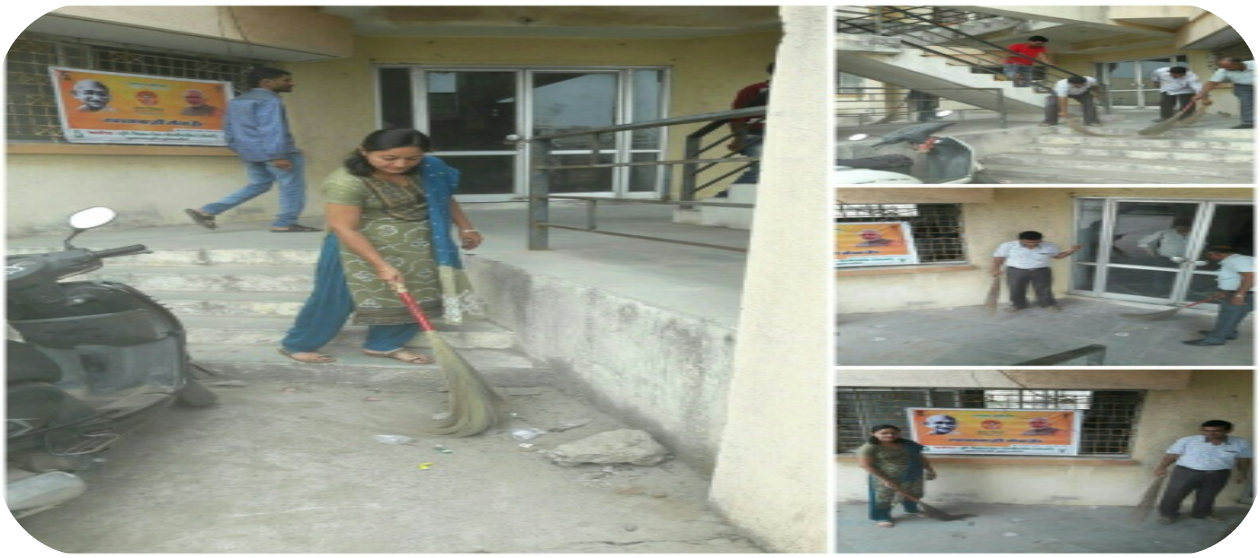
Event :



Sankalp Se Sidhhi at Aandarna, Dis. Morbi, Date: 23/08/2017



Woman Empowerment Day at APMC, Morbi Date:10/03/2018



Cleaning Campaign – KVK Morbi Date 24/09/2017, (Every Month)

TV Programme - Unnat Krishi Mela Live – DD Kissan Date: 17/03/2018

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	-	-	-	-	-	-	-	-	-	-
Production and value addition	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Farm machinery	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
Agricultural Extension	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	-	-	-	-	-	-	-	-	-	-

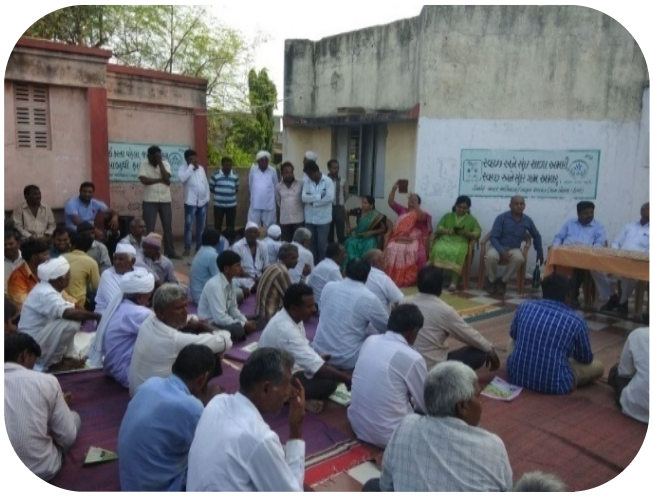
Details of vocational training programmes carried out by KVKs for rural youth

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Livestock and fisheries	-	-	-	-	-	-	-	-	-	-
Income generation activities	-	-	-	-	-	-	-	-	-	-
Agricultural Extension	-	-	-	-	-	-	-	-	-	-
Grand Total	-	-	-	-	-	-	-	-	-	-

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	14	252	2	254
Diagnostic visits	4	14	0	14
Field Day	-	-	-	-
Group discussions	12	676	4	680
KisanGhosthi	4	39	3	42
Film Show	2	331	2	333
Self -help groups	0	0	0	0
KisanMela	3	2092	8	2100
Exhibition	2	1484	4	1488
Scientists' visit to farmers field	9	100	2	102
Celebration of important days	1	20	0	20
Special day celebration	2	1000	15	1015
Exposure visits	0	0	0	0
Others (pl.specify)	3	416	2	418
Total	56	6424	42	6466

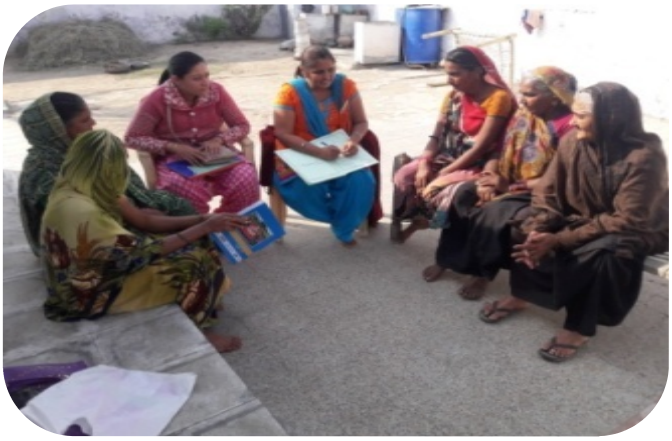
EXTENSION ACTIVITIES



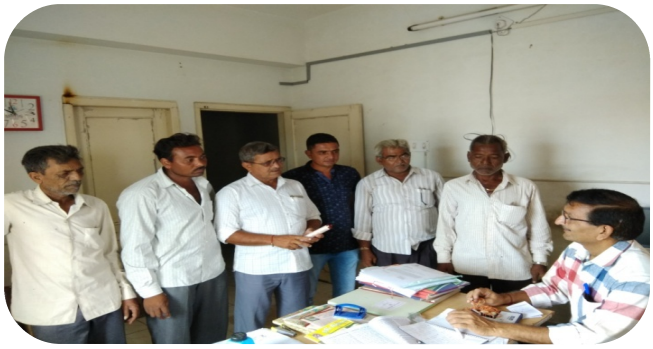
Narmada Rath –Tankara
Date :-06/09/2017

Lecture Delivered- Soil Health Card info. – Morbi Date:-14/09/17

Women Empowerment Day Celebrations At Gorkhijadia , 06/08/2017



Mahila Kishan Gosthi At Chachapar Date:2-1-2018



Farmer visit at KVK Morbi
Date :-19/09/2017

Krushi Mela at Morbi
Date :-14/10/2017

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	-
Extension Literature	1
Newspaper coverage	2
Popular articles	5
Radio Talks	0
TV Talks	2
Animal health camps (Number of animals treated)	-
Others (pl. specify)	-
Total	**10**

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

Production of seeds by the KVKs -NIL-

Production of planting materials by the KVK -NIL-

Production of Bio-Products -NIL-

Production of livestock materials -NIL-

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

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

B. Literature developed/published

Item	Title	Authors name	Info.
Research papers	1) Problems and issue faced by working women in Amreli city	1) Jiju Vyas & Hemangi D. Mehta	Advance Research Journal of Social Science June-17
	2) A Pilot Study of the Nutritional Status of Disabled and Non-Disabled Children Living in Rajkot, Gujarat.	2) Hemangi D.Mehta & Rina Rensiya	Food science Research journal October, 2017 NAAS- 4.6
	3) A study about gender economic equality in india	3) Hemangi D. Mehta & Jiju N.Vyas	Asian Journal of Home Science December, 2017 NAAS- 4.4
	4) To Study The Knowledge of Rural Women Regarding Breast Feeding Practices in Amreli District	4) Neha Tiwari & Hemangi D. Mehta	An International, Registered & Referred Research Link December - 2017, I.F. 2.782
	5) Political empowerment of women – a comparative study.	5) Hemangi D.Mehta & Neha Tiwari	An International, Registered & Referred Research Link, January - 2018 , I.F.- 2.782
Press Note	1) Morbi Ma vadu varsad thi pako ne bachavvana upayo	Shree D.A.Saradava	Sandesh News paper Date:29-7-2017
Technical bulletins	-	-	-
Popular articles	1) Bilv Patra 2) Pashu palan na vyavsayma mahilao nu shreshtha yogdan	1)Hemangi D. Mehta 2) Hemangi D. Mehta	1) Samruddh Kheti Magazine August –17 2) Samruddh Kheti Magazine
Extension literature	1)Sankalp se sidhhi in gujarati language	Dr.D.S. Hirpara Shree D.A. Saradava Dr.HemangiD. mehta	KVK Morbi , JAU-Gujarat
TOTAL	**9**	**-**	**-**

C. Details of Electronic Media Produced

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

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).

Success story:

Economic Empowerment – A contribution in earnings through the profession of dairy farming.

Bio-data of farmers:

1. Name	:	**SONAL PRAKASHBHAI HAN**
		
2. Full postal address with pin code	:	KHOKHANI STREET, NR. GREEN CHOCK, MORBI – 363641
3. Date of Birth	:	26/04/1985 (Age: 32 Years)
4. Education	:	Pass Standard 8th
5. Source of income (Last 3 years)	:	Dairy Farming

Brief information about an individual:

Sonalwas unemployed. The only source of income to her family is the tea-stall business carried out by her husband. This business has no fixed income and based on the situation doesn't provides adequate money to their daily needs. These circumstances inspired Sonal to take some new initiatives which can help her family to stabilize their income and have better livelihood at economical standards. In year 2012, she decided to start dairy farming and purchased a dairy cattle for ₹.25,000/-. She started selling milk and eventually through the regular income of milk and bio product, she has purchased more cattle every year. At present state, she has 35 cattle in her possession out of which 20 are the dairy cattle and remaining are heifers. With these many cattle, she gets 180 liters of milk production daily. Considering the cost of ₹.50 per liter of a milk, today she is earning ₹.9,000/- as her daily income. Now with such stable income source, she has offered jobs to 4 people to take care of her cattle, provided solid support in her family income and cater the saving needs to have better future.

Land holding (ha.):

None

Utility of Innovation/Gaps:

Year	:	2017
Cattle	:	35
Dairy Cattle (Jersey Breed)	:	20
Monthly Income	:	₹.2,70,000
Monthly Expenditure	:	₹.1,43,200
Employee Salary	:	₹.15,000
Total Monthly Profit	:	**₹.1,11,800**

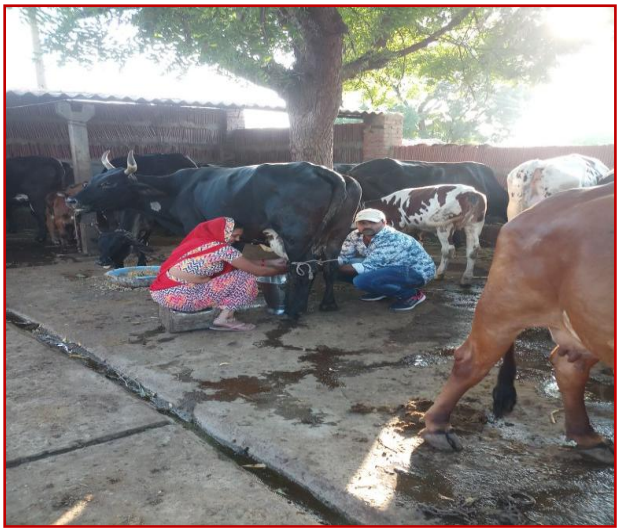
With the help of such monthly profit, she purchased a Maruti Swift car and currently looking for purchasing a batter living space.

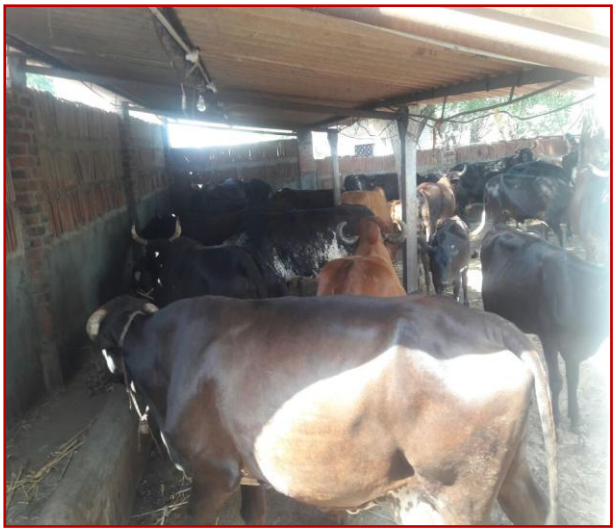
Spread of Innovation/Gaps:

By seeing her success story, other women in the surrounding areas are inspired and visited her dairy farm to understand how they can also boost up their economic growth.

Recognition

She has been recognized by Shree Ambika Sakhi Mandal, Morbi and appointed as President of a sub group which inspired other women to be self-sustaining in economical paradigm.





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

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
-	-	-	-

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

5.2. Indicate the methodology for identifying OFTs/FLDs - Nil

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) -
ii. No. of farm families selected per village :
iii. No. of survey/PRA conducted :
iv. No. of technologies taken to the adopted villages
v. Name of the technologies found suitable by the farmers of the adopted villages:

vi. Impact (production, income, employment, area/technological– horizontal/vertical)
vii. Constraints if any in the continued application of these improved technologies

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

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.)

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?

Yes, we have prepared the SREP of Morbi 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	1	1	1	
02	Research projects				
03	Training programmes	4	4	-	-
04	Demonstrations				
05	Extension Programmes				
	KisanMela	3	3	-	-
06	Publications				
07	Other Activities (Pl.specify)				

D. Give details of programmes implemented under National Horticultural Mission

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

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

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:

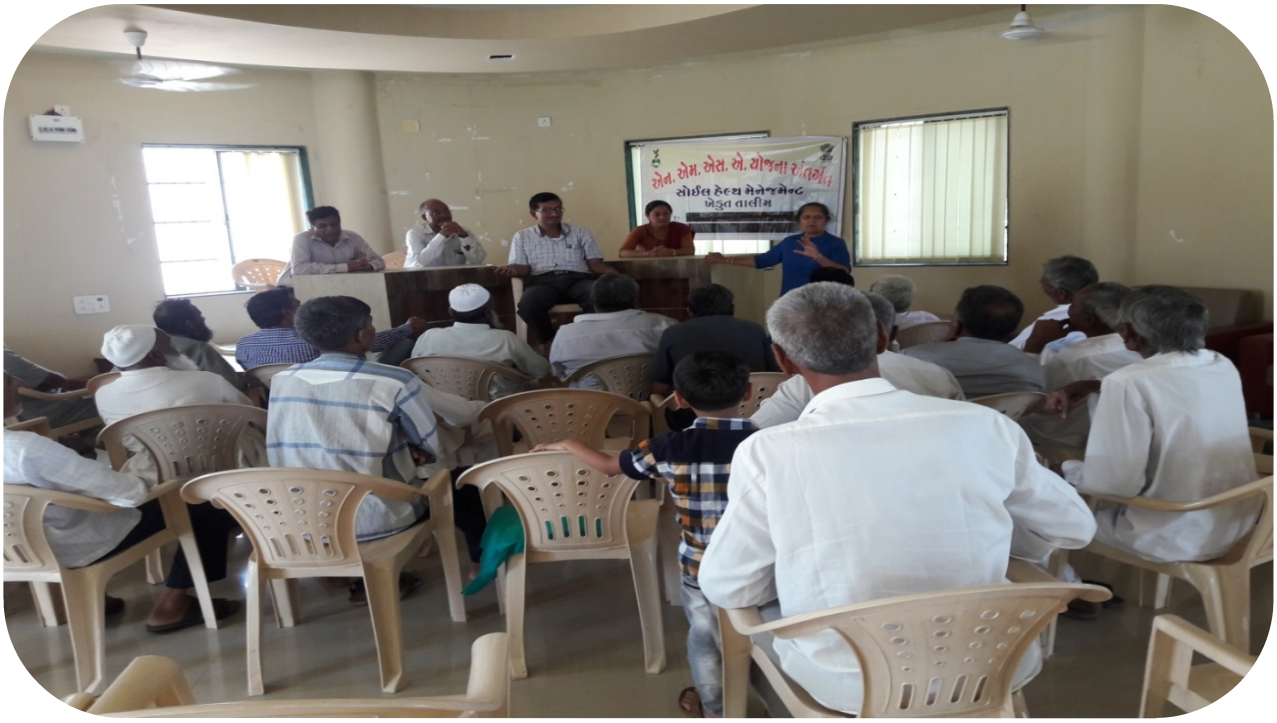
8. Innovator Farmer's Meet

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

9. Farmers Field School (FFS)

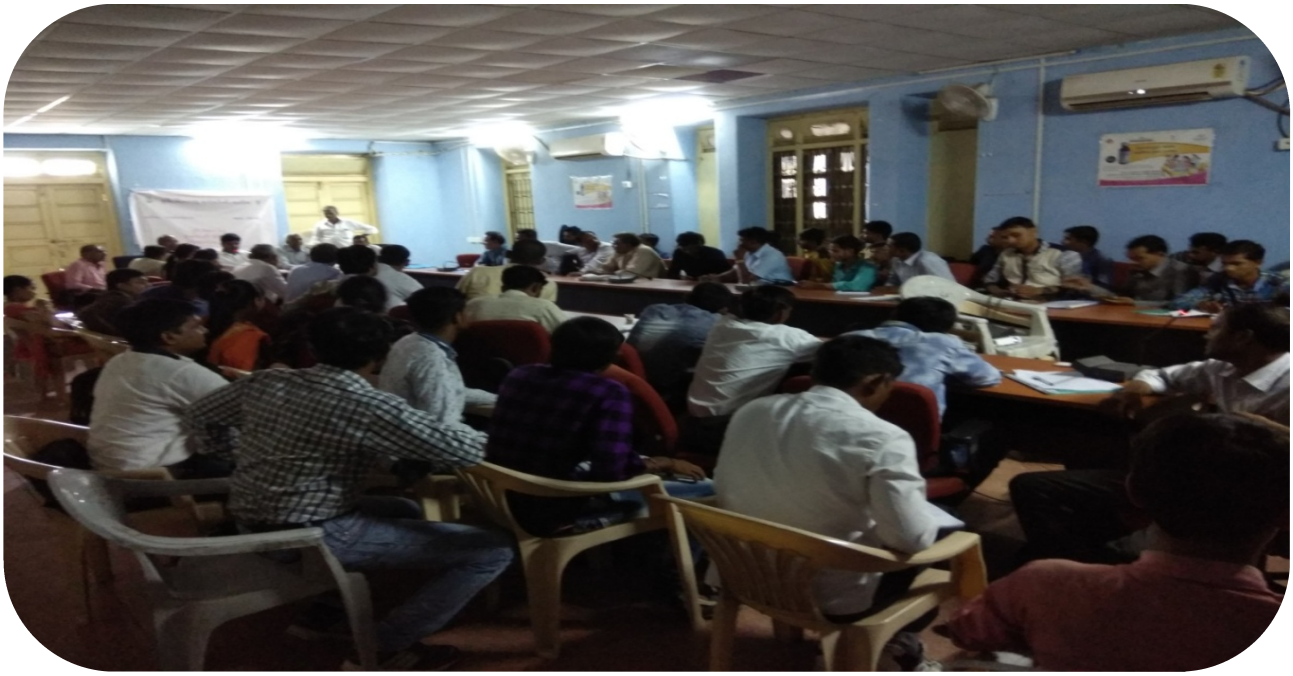
S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Brief report
	-	-	-	-
	-	-	-	-

Collaborative Training



Soil Health Card Management Farmers Training at APMC Building KVK Morbi
Date :-14/09/2017

Extension Functionaries of Morbi District :



Integrated Pests Management in Kharif Crops at Jilla Panchyat Meeting Hall – Morbi

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

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.

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

1. Reduction in white grub problem in groundnut due to adoption of technology
2. Reduction in pink boll worm in cotton due to adoption of technology
3. Cumin variety GC-4 is high yielding but gradually loosing wilt resistant character
4. Heavy infestation of *Thrips* in crops like onion, cotton
5. Research needed for control of insect-pests and diseases in organic farming

11. Technology Week celebrationduring 2017-18 Yes/No, If Yes -No-

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
-	-	-	-
-	-	-	-

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	-	-
Pulses	-	-
Cereals	-	-
Total	-	-

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
	-	-	-
Total	-	-	-

D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
	-	-	-
Total	-	-	-

E. Seed distribution in drought hit states

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
	-	-	-	
Total	-	-	-	

F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
	-	-	-
Total	-	-	-

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
	-	-	-	-	-		-		-			
Total	-	-	-	-	-		-		-			

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)
-	-	-	-	-

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

B. Cases of large scale adoption
(Please furnish detailed information for each case)

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	4	4	4
May	-	-	-
June	2	2	3
July	-	-	-
August	2	2	3
September	-	-	-
October	2	2	3
November	2	2	3
December	2	2	3
January 2018	2	2	3
February	-	-	-
March	2	2	3

Name of KVK	Message Type	Type of Messages						
		Crop	Live stock	Weather	Mark e-ting	Awar ness	Other enterprise	Total
Morbi	Text only	18	-	-	-	-	-	18
	Voice only	1257	158	19	783	37	1155	3409
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	**1275**	**158**	**19**	**783**	**37**	**1155**	**3427**
	Total farmers Benefitted	**174943**						

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	
-	-	-	-	-	-	-	-	-	-

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.	Cost of inputs	Gross income	
	-	-	-	-	-	-	-	-	-

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	
-	-	-	-	-	-

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

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): **NIL**

F. Database management

S. No	Database target	Database created
1	25 farmers per village of 429 villages from Morbi district	25 farmers from 232 villages

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

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							
With KVK	STATE BANK OF INDIA	PARA BAZAR, MORBi	6007	Sen. Sci. & Head, JAU, KVK, Morbi	36713882907	363002022	SBIN 0060071

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

Sr. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	22,07,000	22,07,000	15,48,720
2	**Traveling allowances**	44,000	44,000	42,783
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	6,62,000	6,62,000	5,95,064
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
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			
TOTAL (A)		**29,13,000**	**29,13,000**	**21,86,567**
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)		-	-	-

C. Status of revolving fund (Rs. in lakh) 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	-	-	-	-
April 2016 to March 2017	-	3,00,000	0,04,300	2,95,700
April 2017 to March 2018	2,95,700	2,46,438	0,63,369	4,78,769

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
D.A.Saradava	SMS	"Technology For Doubling Farmer's Income" cum Krishi Unnati Mela	ICAR & IARI ,New Delhi.	16-17 March 2018
Dr.D.S,Hirpara	Scnior Scientist cum Head	Water Conservation Techniques And Micro Irrigation System For Quality Production	Director Of Extension Education Junagadh Agricultural University , Junagadh.	21-23 March 2018
D.A.Saradava	SMS	Water Conservation Techniques And Micro Irrigation System For Quality Production	Director Of Extension Education Junagadh Agricultural University , Junagadh.	21-23 March 2018
Dr.H.D.Mehta	SMS	Water Conservation Techniques And Micro Irrigation System For Quality Production	Director Of Extension Education Junagadh Agricultural University , Junagadh.	21-23 March 2018

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

As the KVK, Morbi sanctioned during year 2017 and land acquired for the KVK is government waste land having very undulating topography. So, at initial stage requires much attention on farm development work particularly clearing of site by removing unwanted vegetation, wire fencing, land leveling etc., where as in infrastructure road and building, electric supply, water supply for domestic use as well as for irrigation also prime important to start basic activities.

Keeping in view above mentioned aspect, we have started temporary office at Marketting Yard in Morbi city and started extension activities and other aspects of mendatory works by KVK. We have popularized bio- control methods and arrange for timely supply of our Savaj brand Breauveria and Tricoderma to farmers of Morbi district.

On farm activities of clearing the site as well as wire fencing almost completed. Office and hostel building constructon works are in progress. Land leveling and infrastructure facilities like road works are also in progress with the help of GLDC machinery.

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 and farm women	17	367	248	615
Rural youths	-	-	-	-
Extension functionaries	3	144	-	144
Sponsored Training	-	-	-	-
Vocational Training	-	-	-	-
Total				

2. **Frontline demonstrations**

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	-	-	-
-Pulses	-	-	-
Cereals	-	-	-
Vegetables	-	-	-
Other crops			
Hybrid crops			Yyyyyy
Total			
Livestock & Fisheries			
Other enterprises			
Total			
Grand Total			

3. **Technology Assessment & Refinement**

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops			
Livestock			
Various enterprises			
Total			
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total			

4. **Extension Programmes**

Category	No. of Programmes	Total Participants
Extension activities	110	14476
Other extension activities	3	418
Total	113	14894

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enter prise	Total
Morbi	Text only	18	-	-	-	-	-	18
	Voice only	1257	158	19	783	37	1155	3409
	Voice & Text both							
	Total Messages	**1275**	**158**	**19**	**783**	**37**	**1155**	**3427**
	Total farmers Benefitted	**174943**						

6. Seed and Planting Material Production

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

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	-	-
Water	-	-
Plant	-	-
Total	**-**	**-**

8. HRD and Publications

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