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, Khapat-360579, Porbandar (Gujarat)	Office 0286-2912562	FAX -	kvk_khapat@yahoo.co.in kvkkhapat@jau.in	-

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-362001 (Gujarat)	(1)0285- 2671784 (2)0285-2672080-90	(1) 0285-2672004 (2) 0285-2672653		www.jau.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R. K. Odedra	0286-2912562	09825280843	rkodedra@jau.in

1.4. Year of sanction: 2005

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

				If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
Sl. No.	**Sanctioned post**	**Name of the incumbent**	**Discipline**	**Current Pay Band**	**Current Grade Pay**	**Date of joining**	
1.	Senior Scientist and Head	Dr. R. K. Odedra	Plant Breeding &Genetics	15600-39100	6000/-	1-06-2009	-
2.	Scientist	Dr. R. B. Vadher	Entomology	15600-39100	6000/-	19-8-2006	-
3.	Scientist	Mrs. D. S. Thakar	Home Science	15600-39100	7000/-	22-8-2006	-
4.	Scientist	Dr. H. A. Patel	Animal Husbandry	15600-39100	6000/-	6-4-2015	-
5.	Scientist	V.M.Savaliya	Horticulture	15600-39100	6000/-	1-08-2017	-
6.	Scientist	Vacant	-	-	-	-	-
7.	Scientist	Vacant	-	-	-	-	-
8.	Programme Assistant	Vacant	-	-	-	-	-
9.	Computer Programmer	J J. Naliyapara	-	39900-126600	-	12-6-2008	-
10.	Farm Manager	Vacant	-	-	-	-	-
11.	Accountant/Superintendent	B. S. Bokhariya	-	39900-126600	-	18-6-2008	-
12.	Stenographer	P. H. Parekh	-	25500-81100	19950/- Fix	20-11-2013	-
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) :

S. No.	Item	Area (ha)
1	Under Buildings	2.451
2.	Under Demonstration Units	0.337
3.	Under Crops	14.660
4.	Horticulture	2.798
5.	Pond	0.344
6.	Others if any	-
	Total	**20.59**

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	ICAR	13/10/07 31/7/08	588	30,76,850	-	-	completed
2.	Farmers Hostel	ICAR		288	21,02,300	-	-	completed
3.	Staff Quarters (6)	ICAR	24/11/07	446	28,38,616	-	-	completed
4.	Demonstration Units (2)	ICAR	31/03/2017	-	-	-	-	completed
5	Fencing	ICAR	2009	500 RM	-	-	-	completed
6	Rain Water harvesting system	ICAR	2008-09	-	1000000	-	-	completed
7	Threshing floor	-	-	-	-	-	-	completed
8	Farm godown	ICAR	2009	129	-			completed
9	ICT lab	-	-	-	-	-	-	-
10	Other	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Farmtrac)	2005	380000	58125 Hours	Good
Bolero Jeep	2006	486500/-	261491	Good
Motor cycle	2010	47000	17658 Km	Good

C) Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
LCD projector	2008-09	100000	Running
Zerox machine	2008-09	124000	Running
R.O. plant	2008-09	24450	Running
Hcl laptop computer	2008-09	47,500	Running
Food processor	2008-09	5,495	Running
Multipurpose bullock drawn pipe frame implement head peace	2008-09	27,500	Running
Rotavator tractor operated	2008-09	96,000	Running
Planter tractor operated	2008-09	44,000	Running
Tractor drawn harrow cum cultivator cum intercultivator frame 86"	2008-09	37,500	Running
Samsung double door refrigerator	2008-09	17,650	Running
Electrolux grill microwave / oven	2008-09	9,580	Running
Panasonic LCD projector	2008-09	103,912	Running
Multi purpose groundnut cum wheat thresher	2008-09	114,000	Running
Cotton shredder	2008-09	242,000	Running
Solar street light	2008-09	28,000	Running
Solar lanterns	2008-09	4,800	Running
Solar cooker	2008-09	3,300	Running
Mobile seed grading unit	2008-09	1,685,000	Running
Decorticators	2008-09	95,850	Running
Winnowing fan	2008-09	8,500	Running
Chaff cutter	2008-09	30,188	Running
High tech sprayer pump	2008-09	1,850	Running

1.8. Details SAC meeting conducted in the year

Date	Name and Designation of Participants		Salient Recommendations	Action taken
13/03/2018	**Sr. No**	**Name & Designation**	1. To conduct training and FLD's on vegetable crops should be included 2. FLD's should be given in onion variety GJRO-11 (JAU Variety) on sulpher -90%. 3. To conduct the training on farm waste management and preparation of "*jivamrut"* should be conducted. 4. To increasing awareness about the micronutrient and drip irrigation in cotton and other crops 5. To conduct FLDs on management of pest of sorghum using Carbofuran or Phorate at a time of sowing 6. To conduct revised OFT on integrated management of white grub in groundnut by taking *Metarhizium* and *Beuvaria* separate as intervention. 7. To organized training on Handicraft. 8. To conduct training on welfare scheme of state department in animal husbandry. 9. To increasing the artificial insemination in Gir cow & Jafrabadi buffalo and to maintain their pedigree record.	1. The suggestion has been incorporated 2. Accepted and will be conducted 3. Accepted and will be incorporated in the action plan 4. Accepted and will be done 5. Accepted and will be conducted 6. Will be incorporated 7. Accepted and will be done 8. Will be conducted 9. Accepted and will be conducted
	1	Dr. A. R. Pathak, Hon'ble Vice Chancellor, JAU, Junagadh		
	2	Dr. A. M. Parakhia Director of Extension Education, JAU, Junagadh		
	3	Dr. V. P. Chovatia Director of Research, JAU, Junagadh		
	4	Shri J. N. Parmar District Agricultural Officer, Porbandar		
	5	Shri R. S. Gohel Deputy Director Agriculture (Training) and project director ATMA, Porbandar		
	6	Dr. K. P. Dadhania Representative Deputy director of Animal Husbandry, Porbandar		
	7	Shri M. D. Odedra Rep. Deputy Director (Horti.), Porbandar		
	8	Shri Jadeja Representative Deputy conservator of forest		
	9	Shri D. K. Rathod Representative Deputy Director Agriculture (Extension), Porbandar		
	10	Shri F. N. Vala Gujarat Land Development Corporation, Porbandar		
	11	Shri K. G. Balas Representative of Director, DWDU, Porbandar		
	12	Dr. R. B. Thanki Assistant Research scientist, Ratiya, Porbandar		
	13	Shri R. A. Jethwa Information Assistant, District Information Centre, Porbandar		
	14	Shri Alpesh I. Modha GTPL, Porbandar		
	15	Shri Jitesh chauhan		

		Gujarat News, Porbbandar		
	16	Dr. Bharat Puchhadiya Sudama Dairy, Porbandar		
	17	Dr. R. K. Odedra, Programme Coordinator, KVK, JAU, Khapat-Porbandar		
	18	Shri Balubhai Khimabhai Bhutiya At: Khambhodar, Ta. & Dist. Porbandar		
	19	Shri Hasmukhbhai Nathubhai Chavda At: Gokran, Ta. Kutiyana, Dist. Porbandar		
	20	Shri Bhanubhai Rajsibhai Bapodra At: Ranavav, Ta. Ranavav, Dist. Porbandar		
	21	Smt. Minaben Harsukhbhai At: Gokran, Ta. Kutiyana, Dist. Porbandar		
	22	Smt. Arunaben Nandlal Tank At: Aniyari, Ta. Ranavav, Dist. Porbandar		
	23	Shri Ramjibhai Karabhai Dhokia At: Choliyana, Ta.Kutiyana, Dist., Porbandar		
	24	Shri Samatbhai Hardasbhai Odedra At: Kansabad, Ta. Kutiyana, Dist. Porbandar		
	25	Shri Muru bhima Godhania At: Advana Ta: &Dist. Porbandar		
	26	Shri Maldebhai Savdasbhai Karavdra At: Ramgadh, Ta. Ranavav, Dist. Porbandar		
	27	Shri Sama Ali Musa At: Ramgadh, Ta. Ranavav, Dist. Porbandar		
	28	Smt. Lakhiben Parbat Kadavala At: Aditpara, Ta. Ranavav, Dist. Porbandar		
	29	Smt. Prabhaben R. Sadaria At: Adityana, Ta. Ranavav, Dist. Porbandar		
	30	Miss Kamla Nandlal Tank At: Aniyari, Ta. Ranavav, Dist. Porbandar		

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Rainfed Farming System
2	Cattle/Buffalos

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	South Saurashtra	**Porbandar** district is located between 21° to 22° N latitude and 69° to 70° E longitude. **Khapat**- N 21° 40' 12" and E 69° 37' 14" **Soil:** medium black & silty loam with calcareous in nature **pH:** of the soil is ranging from 8.01 to 8.58 **Water:** Ec value up to 8.1 mm / cm **Average Rainfall:** 668.mm **Temperature Range:**41.0° C to 12.0 °C

b)Topography

S. No.	Agro ecological situation	Characteristics
1	Shallow black soil with low rainfall	Soil: Sandy clay loam to clay with Rainfall: <750 mm
2	Hilly soil with low rainfall	Soil: Sandy clay loam to sandy clay with Rainfall: <750 mm
3	Medium black soil with low rainfall	Soil: Sandy clay to clay with Rainfall: <750 mm
4	Deep black soil with low rainfall (Ghed)	Soil: clay with Rainfall: <750 mm
5	Mix red & black soil with medium rainfall	Soil: Sandy clay loam to clay loam with Rainfall: 750-1000 mm

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Sandy clay loam to clay	Rainfall: <750 mm	34241
2	Sandy clay loam to sandy clay	Rainfall: <750 mm	46080
3	Sandy clay to clay	Rainfall: <750 mm	86627
4	Clay	Rainfall: <750 mm	56880
5	Sandy clay loam to clay loam	Rainfall: 750-1000 mm	5707

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

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Groundnut	69900	85627	12.25
2	Cotton	17900	47488	26.53
3	Wheat	6840	21662	31.67
4	Cumin	9190	5651	6.15
5	Coriander	16455	18643	11.33
6	Gram	14625	20723	14.17
7	Green gram	355	324	9.15
8	Black gram	120	147	12.25
9	Castor (Rabi)	1205	3675	30.50
10	Forage crops	29555	3342168	1130.83

Source: District agriculture department.

2.5. Weather data (2017-18)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January 2017	-	27.91	11.08	89.00	29.00
February 2017	-	29.65	13.12	88.50	26.25
March 2017	-	32.76	16.56	77.75	42.25
April 2017	-	33.88	18.08	90.00	47.00
May 2017	-	32.40	20.49	80.60	58.60
June 2017	330.5	31.49	20.31	86.75	65.75
July 2017	189.6	29.73	15.97	95.00	72.25
August 2017	201.0	29.35	14.76	93.60	72.40
September 2017	110.0	30.83	16.35	92.00	62.75
October 2017	-	32.11	16.96	88.25	61.50
November 2017	-	30.48	15.59	79.40	51.00
December 2017	-	29.90	12.35	77.25	34.75
Total	**831.1**	**30.87**	**15.97**	**86.51**	**51.96**

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

Category	Population	Production	Productivity
Cattle			
Crossbred	-	-	-
Indigenous	83108	-	-
Buffalo	105346	-	-
Sheep	22649	-	-
Goats	22325	-	-
Pigs	-	-	-
Crossbred	-	-	-
Indigenous	-	-	-
Rabbits	-	-	-
Poultry			
Hens	-	-	-
Desi	2069	-	-
Category		Production (Q.)	Productivity
Fish (Reservoir)	10748 (Fisherman)	91513 MT (Capture)	10748 (Fisherman)

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
Porbandar	Cluster I	1. Khambhodar 2. Majivana 3. Fatana 4. Sodhana 5. Shingda	• Groundnut • Wheat • Cumin • Coriander • Sorghum • Gram • Fenugreek	• White grub & stem rot in groundnut • Wilt & blight in cumin • Powdery mildew in coriander	• IPM • INM • Improved package of practices • IDM • Poor quality water
Ranavav	Cluster II	1. Khijdal 2. Rana Vadvala 3. Bhod 4. Rana Khirasara 5. Aniyari	• Groundnut • Cotton • Sorghum • Wheat • Cumin • Pearl millet	• White grub & stem rot in groundnut • Pink ball worm & sucking pest in cotton • Wilt & blight in cumin	• IPM • INM • Improved package of practices • IDM • INM in Horticulture

Kutiyana	Cluster III	1. Pasvari 2. Segras 3. Bhogsar 4. Mal 5. Baloch	• Groundnut • Cotton • Castor • Sorghum • Wheat • Cumin • Gram	• White grub & stem rot in groundnut • Pink ball worm & sucking pest in cotton • Wilt & blight in cumin	• IPM • INM • Improved package of practices • IDM • Problematic soil • Poor quality irrigation water

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Groundnut	Integrated Nutrient Management, Integrated Pest & Disease Management, Soil moisture conservation, Improved variety, organic farming
Cotton	Integrated Pest Management, Integrated Nutrient Management
Wheat	Integrated Nutrient Management, Soil moisture conservation
Cumin	Integrated disease management, irrigation management, organic farming
Coriander	Improved variety, IDM
Chick pea	Improved variety, INM, organic farming
Sorghum	Soil moisture conservation
Horticulture	Improved package of practices of spices, PHT in fruits & vegetables
Fisheries	Integrated fish farming, freshwater aquaculture, seaweed cultivation
Farm women	Income generating activities, Value addition in agricultural produce, women & child care

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
4	4	28	28	12	12	280	280

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
55	55	2000	2648	27	27	2465	6601

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
112	166.5	10000	7000

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

3.1. B. Operational areas details during 2017-18

Sr. 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 Wheat Cumin Coriander Sorghum Gram Fenugreek Cattle Buffalos	• White grub & stem rot in groundnut • Wilt & blight in cumin • Powdery mildew in coriander • Milk Fever & Mastitis	6990 183 329 18845	1. Khambhodar 2. Majivana 3. Fatana 4. Sodhana 5. Shingda	FLD OFT Training Extension Activity
2	Groundnut Cotton Sorghum Wheat Cumin Pearl millet Cattle Buffalos	• White grub & stem rot in groundnut • Pink ball worm & sucking pest in cotton • Wilt & blight in cumin • Milk Fever & Mastitis	6990 2685 183 18845	1. Khijdal 2. Rana Vadvala 3. Bhod 4. Rana Khirasara 5. Aniyari	FLD OFT Training Extension Activity
3	Groundnut Cotton Castor Sorghum Wheat Cumin Gram Cattle Buffalos	• White grub & stem rot in groundnut • Pink ball worm & sucking pest in cotton • Wilt & blight in cumin • Milk Fever & Mastitis	6990 2685 183 18845	1. Pasvari 2. Segras 3. Bhogsar 4. Mal 5. Baloch	FLD OFT Training Extension Activity

* 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 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	-	-	-	-	-	-	-	-	-	-
Farm Machineries	-	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	1
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Total	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**

A2. Abstract on the number of technologies refined 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	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-	-	-	-	-	-

Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-	-	-	-	-	-
Farm Machineries	-	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

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	-	-	-	-	-	-
Disease of Management	10	-	-	-	-	10
Value Addition	-	-	-	-	-	-
Production and Management	10	-	-	-	-	10
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
TOTAL	**20**	-	-	-	-	20

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

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

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	3	3	1.2
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction		Evaluation and minimization of physiological & muscular stress of farmwomen while milking	5	5	-
Storage Technique					
Total			**8**	**8**	**1.2**

B.2. Technologies Refined 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	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
Weed Management	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
Value addition	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Total	-	-	-	-	-

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	Buffalos	Effect of parasitic drug on farm animal	10	10
Disease management				
Value addition				
Production and management	Buffalos	Effect of feeding of mineral mixture and Fertivet tablet in Jafrabadi Buffalos	10	10
Feed and fodder				
Small scale income generating enterprises				
		Total	**20**	**20**

B.4. Technologies Refined 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	-	-	-	-
Disease management	-	-	-	-
Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder	-	-	-	-
Small scale income generating enterprises	-	-	-	-
Total	-	-	-	-

C1.Results of Technologies Assessed

OFT: 1

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	Low yield and heavy damage due to white grub	Management of white grub in groundnut	3	Integrated pest management	1.Yield (kg/ha) 2. White grub. population 3. Economics	White Grub population/m^2	T_1 : 7 T_2: 1 T_3: 1	This technology was cheaper, easy to apply and very effective for the management or white grub in groundnut	-	-

Contd..

Technology Assessed	Source of Technology	Production (Kg/ha)	Please give the unit (kg/ha)	Net Return (Profit) in Rs. /ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)*	-	1575	1575	29563	2.00
Technology option 2**	JAU, Junagadh	2086	2086	52975	3.10
Technology option 3***	JAU, Junagadh	2150	2150	55425	3.20

*** Farmer's practice -** Chloropyrihpos @ 4 lit./ha at the time of attack

**** Recommended practice –** Seed treatment with chloropyriphos @ 25 ml/kg, spraying the trees on bund with carbaryl @ 40 g/15 lit water

***** Intervention -** Soil application of *Metarhizium anisopliae* and *Beauveria bassiana* @ 2.5 Kg/ha. at the time of sowing.

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 groundnut
2 Problem Definition: Heavy infestation of white grub in groundnut
3 Details of technologies selected for assessment: Integrated management of white grub
4 Source of technology: JAU, Junagadh
5 Production system and thematic area: Ground nut, Integrated Pest Management
6 Performance of the Technology with performance indicators: White Grub population/m^2
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: -
8 Final recommendation for micro level situation:-
9 Constraints identified and feedback for research:-
10 Process of farmers participation and their reaction:-

OFT: 2

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
	-	Physiological and muscular stresses in farmwoman during milking.	Evaluation and minimization of physiological & muscular stress of farmwomen while milking	5	Use of drudgery reduction tool for milking (revolving milking stool)	Level of drudgery, Physical stress, Work output and Field acceptability	Physical stress, Tool Factor	T 1 : High T 2 : Low T 1 : Medium relevant T 2 : Highly relevant	This (revolving milking stool) technology was very effective for reducing the Physiological and muscular stresses	-	-

Contd..

Technology Assessed	Source of Technology	Physical stress	Tool Factor		
13	14	15	16	17	18
Technology option 1 (Farmer's practice) : No use of Milking stool	-	High	Medium relevant	-	-
Technology option 2: Revolving milking stool	MPUAT, Udaipur	Low	Highly relevant	-	-

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: Evaluation and minimization of physiological & muscular stress of farmwomen while milking
2 Problem Definition: Physiological and muscular stresses in farmwoman during milking.
3 Details of technologies selected for assessment: Use of drudgery reduction tool for milking (revolving milking stool)
4 Source of technology: MPUAT, Udaipur
5 Production system and thematic area: Drudgery Reduction
6 Performance of the Technology with performance indicators: Physical stress, Tool Factor
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:-
8 Final recommendation for micro level situation:-
9 Constraints identified and feedback for research:-
10 Process of farmers participation and their reaction:-

OFT: 3

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
Buffalos	-	Long inter calving period in Jafrabadi buffaloes	Effect of feeding of mineral mixture and Fertivet tablet in Jafrabadi Buffalos	10	Reducing intercalving period in Jafrabadi buffaloes	Inter calving period in month Average heat Milk Yield (Lit./Day)	Inter calving period in month Average heat Milk Yield (Lit./Day)	14-17.33 Months 2-3 Month 14.33	This technology was reduce the inter calving period and also increase the milk yield	-	-

Contd..

Technology Assessed	Source of Technology	Inter calving period (Month)	Average Heat (Month)	Milk yield (Lit./Day)	BCR
13	14	15	16	17	18
Technology option 1 (Farmer's practice): Control , No Use any Material	-	18-24	3.0-4.33	12.33	-
Technology option 2: Mineral mixture 50 gm/day + Fertivet tablet 1 tablet /day (5 Tables)	Animal Nutrition and Feeding Practice, ICAR, New-Delhi	14-17.33	2-3	14.33	-

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: Effect of feeding of mineral mixture and Fertivet tablet in Jafrabadi Buffalos
2 Problem Definition: Long inter calving period in Jafrabadi buffaloes
3 Details of technologies selected for assessment: Reducing intercalving period in Jafrabadi buffaloes
4 Source of technology: Animal Nutrition and Feeding Practice, ICAR, New-Delhi
5 Production system and thematic area: Production and management
6 Performance of the Technology with performance indicators: Inter calving period (Month), Average Heat (Month), Milk yield (Lit./Day)
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:-
8 Final recommendation for micro level situation:-

9 Constraints identified and feedback for research: -
10 Process of farmers participation and their reaction:-

OFT: 4

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
Buffalos	-	Parasitic infection and low milk yield	Effect of parasitic drug on farm animal	10	Nutrition management	Milk Yield Income	Milk Yield Income	15 347 Rs/animal/day	This technology was increase the milk yield	-	-

Contd..

Technology Assessed	Source of Technology	Milk yield (Lit./Day)	Gross Cost	Net Profit	BCR
13	14	15	16	17	18
Technology option 1 (Farmer's practice): Control	-	13	250	305	1.22
Technology option 2: Mineral mixture 50 gm/day + Fenbendazole tablet (5-7.5 mg/kg body weight)	Animal Health Management By N. S. R. Sastry	15	277	347	1.25

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: Effect of parasitic drug on farm animal
2 Problem Definition: Parasitic infection and low milk yield
3 Details of technologies selected for assessment: Nutrition management
4 Source of technology: Animal Nutrition and Feeding Practice, ICAR, New-Delhi
5 Production system and thematic area: Nutrition management
6 Performance of the Technology with performance indicators: Milk Yield, Income
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:-
8 Final recommendation for micro level situation: -
9 Constraints identified and feedback for research: -

10 Process of farmers participation and their reaction: -

D1. Results of Technologies Refined

Results of On Farm Trial

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology refined	Parameters of refined t	Data on the parameter	Results of refinement	Feedback from the farmer	Details of refinement done
1	2	3	4	5	6	7	8	9	10	11
-	-	-	-	-	-	-	-	-	-	-

Contd..

Technology Refined	Source of Technology for Technology Option1 / Justification for modification of assessed Technology Option 1	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15	16	17
Technology Option 1 (best performing Technology Option in assessment)	-	-	-	-	-
Technology Option 2 (Modification over Technology Option 1)	-	-	-	-	-
Technology Option 3 (Another Modification over Technology Option 1)	-	-	-	-	-

D.2. Details of each On Farm Trial for refinement to be furnished in the following format separately as per the following details:

1. Title of Technology refined
2 Problem Definition
3 Details of technologies selected for refinement
4 Source of technology
5 Production system and thematic area
6 Performance of the Technology with performance indicators
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
8 Final recommendation for micro level situation
9 Constraints identified and feedback for research
10 Process of farmers participation and their reaction

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	INM	INM	Trainings, Field days FLDs & OFTs	40	2500	1300
2	Cotton	IPM	IPM	Trainings, Field days FLDs & OFTs	15	525	275
3	Wheat	INM	INM	Trainings, Field days FLDs & OFTs	12	450	160
4	Cumin	IDM	IDM	Trainings, Field days FLDs & OFTs	15	120	18
5	Chick pea	Varietal Evaluation	Improved variety GG-3	Trainings, Field days FLDs & OFTs	18	1400	850
6	Chick pea	Bio-agent	HNPV	Trainings, Field days FLDs & OFTs	10	400	100
7	Green Gram	Varietal Evaluation	GM-4	Trainings, Field days FLDs & OFTs	28	1200	300
8	Vegetables	Kitchen gardening	Improved variety of 5 crops	Trainings, Field days FLDs	15	450	45
9	Groundnut	Varietal Evaluation	Improved variety GG-22	Trainings, Field days FLDs & OFTs	3	100	50

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**.)

(i) FLDs conducted during 2017-18

a. Cereals

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	Wheat	INM*	INM, Zinc sulphate	Rabi-2017	8	8	-	20	20	Nil
2	Wheat	INM**	INM, Zinc sulphate	Rabi-2017	8	8	-	20	20	Nil
*Biofertilizer, PSM+Azotobactor+ Zinc sulphate										

** Biofertilizer, PSM+Azotobactor

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					
Wheat	Rabi-2017	Irrigated	Medium Black	Low	Medium	High	Groundnut	10-24/11/17	-	831.1	21
Wheat	Rabi-2017	Irrigated	Medium Black	Low	Medium	High	Groundnut	10-24/11/17	-	831.1	21

b.Horticultural crops :

Sr. 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	
2	Cumin	IDM*	IDM	Rabi-2017	10	10	-	20	20	Nil

*Trichoderma (1 kg), Mancozeb (1 kg) & Hexaconazole (250 ml)

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					
Cumin	Rabi-17	Irrigated	Medium Black	Low	medium	high	Groundnut	16-25/11/17	-	831.1	21

c. **Oilseed & Pulses Crops:**

Sr. 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	INM*	INM	Kharif 2017	10	10	-	25	25	-
2	Groundnut	Varietal	GJG-22	Kharif 2017	8	8	-	20	20	-
3	Gram	Varietal	GJG-3	Rabi 2017-18	8	8	-	20	20	-
4	Green Gram	Varietal	GM-4	Summer-18	4	4		10	10	

*Biofertilizers, Savaj Rhizobium & PSB culture (500 ml each) & micronutrient Grade IV (500 ml)

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 2017	Rainfed	Medium Black	Low	medium	high	Groundnut/ wheat/cumin	28/6 to 2/7/17	5/11/17 to 25/11/17	831.1	21
Groundnut	Kharif 2017	Rainfed	Medium Black	Low	medium	high	Groundnut/ wheat/cumin	28/6 to 2/7/17	5/11/17 to 25/11/17	831.1	21
Gram	Rabi 2017-18	Rainfed	Medium Black	Low	medium	high	-	5-17/11/17	-	831.1	21
Green gram	Summer 2016	Irrigated	Medium Black	Low	medium	high	Wheat/cumin/ Coriander	20/2 to 26/2/18	-	831.1	21

d. Other Crops:

Cotton & Kitchen Gardening

Sr. 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	Cotton	IPM	IPM (Pheromone trap and *Beuveria*)	Kharif 2017	10	10	2	23	25	Nil
2	Kitchen gardening	Improved variety	Improved varieties of JAU	Kharif 2017	8	8	0	50	50	Nil
3	Kitchen gardening	Improved variety	Improved varieties of JAU	Rabi 2017-18	8	8	0	50	50	Nil

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					
Cotton*	Kharif 17	Rainfed/ irrigated	Medium Black	Low	medium	high	G. Nut/ Cotton	28/6 to 5/7/17	-	831.1	21
Kitchen gardening**	Kharif 17	Rainfed	Medium Black	Low	medium	high	G. Nut/ Cotton	8 to 25/06/2017	-	831.1	21
Kitchen gardening***	Rabi 17	irrigated	Medium Black	Low	medium	high	G. Nut/ Cotton	24 to 30/11/2017	-	831.1	21

***Pheromone traps (10 No.) for Pink ball worm and *Beuveria bassiana* 1.0 kg**
****Kitchen Gardening:** JAU, Improved Varieties viz. Tomato (JT-4), Smooth Guard-(GJSG-2), Brinjal (GJLB-4) , Indian bean- (GJIB-11) and Indian bean- (GJIB-2).
***** Kitchen Gardening:** JAU, Improved Varieties viz. Tomato (JT-3), Okra (GJO-3), Cowpea (AVC-1), Smooth Guard-(GJSG-2), and Brinjal (GJLB-4)

e. Analytical Review of component demonstrations:

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Groundnut	Kharif-17	*LSF*	Rainfed	17.85	16.23	9.98
Chick pea	Rabi – 17-18	HNPV	Rainfed	17.24	16.12	6.95

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	INM in groundnut increased production as well as the quality
2	IPM improves the growth and yield of cotton
3	Creating awareness among the farmers about improved/high yielding varieties of the related crops
4	Leads the farmers from traditional agriculture to scientific & sustainable agriculture by the use of recommended/improved package of practices and ultimately reduce the cost of cultivation
5	Make the farmers aware about Integrated Pest & Disease Management by the proper use of insecticide/fungicides.
6	Improved variety of Groundnut GJG -22 is better than the Existing variety
7	INM in wheat was better than farmers' practices

Farmers' reactions on specific technologies

S. No	Feed Back
1	An improved variety particularly of chick pea GG-3 is good and can give its potential yield with proper management practices.
2	If the seeds of the new varieties are generously available through Govt. Agencies, they are interested in sowing of demonstrated improved varieties.
3	Micro nutrients in groundnut can enhance the growth and increase production.
4	IDM in cumin reduce the pesticides consumption and reduce the cost of cultivation

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	15	-	328	-
2	Farmers Training	8	-	256	-
3	Media coverage	-	-	-	-
4	Training for extension functionaries	-	-	-	-

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops (2017-18)

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut																		
1	Groundnut	INM	GG-20	25	10	28.13	12.50	18.87	16.23	16.26	25300	75480	50180	2.98	28760	64920	36160	2.25
2	Groundnut	Varietal	GJG-22	20	8	31.25	13.45	20.15	16.23	24.15	25000	80600	55600	3.22	28760	64920	36160	2.25

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

Frontline demonstration on pulse 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										
Greengram																		
	Varietal Evaluation	Improved variety	GM-4	10	4	Results Awaited												
Chickpea																		
	Varietal Evaluation	Improved variety	GJG-3	20	8	28.25	13.55	18.32	16.12	13.64	13500	64120	50620	4.74	15600	56420	40820	3.61

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

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												
Cereals																			
Wheat																			
	INM+ Zinc Sulphate	INM	20	8	34.20	26.10	30.25	26.42	14.50	-	-	25850	52938	27080	2.04	28300	46235	17935	1.63
	INM Bio-fertilizer	INM	20	8	33.10	25.02	29.10	26.42	10.14	-	-	25660	50925	25265	1.98	28300	46235	17935	1.63
Spices & condiments																			
Cumin																			
	IDM	IDM	20	10	13.85	7.90	9.98	8.25	20.97	-	-	26300	129740	103440	4.93	27900	107250	79350	3.84
Commercial Crops																			
Cotton																			
	IPM	IPM (Pheromone trap and Beuveria)	25	10	35.50	20.30	29.53	25.57	15.5	-	-	30350	162415	132065	5.35	32300	140635	108335	4.35

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

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
	Bypass Fat	Nutrient Management	20	20	3000	2600	15.38	-	-	100000	127000	27000	1.27	92000	112000	20000	1.21
Buffalo																	

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

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Composite fish culture																	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Feed Management																	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Button Mushroom																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apiculture																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize Sheller																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Value Addition																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Vermi Compost																	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Other Enterprise: 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)
Kitchen Gardening (*Kharif*)	Kitchen Gardening	Improved varieties of university: 1. Tomato (JT-4), 2. Smooth Guard- (GJSG-2), 3. Brinjal (GJLB-4) , 4. Indian bean- (GJIB-11) 5. Indian bean- (GJIB-2)	50	50 / crop	38.89	-	-	-	-	175	466	291	2.66	-	-	-	-

Kitchen Gardening (*Rabi*)	Kitchen Gardening	Improved varieties of university: 1. Tomato (JT-3), 2. Okra (GJO-3), 3. Cowpea(AVC-1), 4. Smooth Guard- (GJSG-2), 5. Brinjal (GJLB-4)	50	50/ crop	40.70	-	-	-	-	175	488	313	2.78	-	-	-	-

FLD on Demonstration details on crop hybrids

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Oilseed crop													
-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pulse crop													
-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cereal crop													
-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetable crop													
-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruit crop													
-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (specify)													
-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	1	0	20	20	0	0	0	0	20	20
Micro Irrigation/irrigation	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Soil & water conservatioin	-	-	-	-	-	-	-	-	-	-
Integrated nutrient management	1	10	5	15	5	0	5	15	5	20
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	**2**	**10**	**25**	**35**	**5**	**0**	**5**	**15**	**25**	**40**
II Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low value and high valume crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation	1	20	0	20	6	0	6	26	0	26
Others (pl specify)										
Total (a)	**1**	**20**	**0**	**20**	**6**	**0**	**6**	**26**	**0**	**26**
b) Fruits	-	-	-	-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (b)	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-

Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (c)	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (d)	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (e)	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
Production and Management technology	1	20	0	20	0	0	0	20	0	20
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (f)	**1**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
g) Medicinal and Aromatic Plants										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition										
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (g)	-	-	-	-	-	-	-	-	-	-
GT (a-g)	**2**	**40**	**0**	**40**	**6**	**0**	**6**	**46**	**0**	**46**
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Integrated water management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Balance use of fertilizers	-	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Dairy Management	1	27	5	32	4	2	6	31	7	38
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-

Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-
Disease Management	1	20	0	20	0	0	0	20	0	20
Feed & fodder technology	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	**2**	**47**	**5**	**52**	**4**	**2**	**6**	**51**	**7**	**58**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing										
Processing and cooking	1	0	18	18	0	5	5	0	23	23
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	20	20	0	4	4	0	24	24
Women empowerment	-	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	**2**	**0**	**38**	**38**	**0**	**9**	**9**	**0**	**47**	**47**
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Farm Machinary and its maintenance	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
VII Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	1	15	0	15	5	0	5	20	0	20
Integrated Disease Management	1	0	23	23	0	0	0	0	23	23
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	-
Production of bio control	-	-	-	-	-	-	-	-	-	-

agents and bio pesticides										
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	**2**	**15**	**23**	**38**	**5**	**0**	**5**	**20**	**23**	**43**
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	1	0	65	65	0	0	0	0	65	65
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
Others LSF	1	30	0	30	0	0	0	30	0	30
Total	**2**	**30**	**65**	**95**	**0**	**0**	**0**	**30**	**65**	**95**
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
X CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	**12**	**142**	**156**	**298**	**20**	**11**	**31**	**162**	**167**	**329**

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	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	1	25	0	25	5	0	5	30	0	30
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Micro Irrigation/irrigation	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	1	20	10	30	0	6	6	20	16	36
Soil & water conservation										
Integrated nutrient management	1	0	20	20	5	0	5	5	20	25
Production of organic inputs										
Others Organic Farming & certification	1	22	0	22	8	0	8	30	0	30
Total	**4**	**67**	**30**	**97**	**18**	**6**	**24**	**85**	**36**	**121**
II Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low value and high valume crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables	-	-	-	-	-	-	-	-	-	-
Export potential vegetables										
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (a)	-	-	-	-	-	-	-	-	-	-
b) Fruits	-	-	-	-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	1	20	0	20	5	0	5	25	0	25
Cultivation of Fruit	1	22	5	27	0	3	3	22	8	30
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
Others- Organic farming in	1	22	10	32	0	0	0	22	10	32

Horticultural crops										
Total (b)	**3**	**64**	**15**	**79**	**5**	**3**	**8**	**69**	**18**	**87**
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (c)	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (d)	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (e)	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
Production and Management technology	1	25	0	25	0	0	0	25	0	25
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (f)	**1**	**25**	**0**	**25**	**0**	**0**	**0**	**25**	**0**	**25**
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (g)	-	-	-	-	-	-	-	-	-	-
GT (a-g)	**4**	**89**	**15**	**104**	**5**	**3**	**8**	**94**	**18**	**112**
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Integrated water management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Balance use of fertilizers	-	-	-	-	-	-	-	-	-	-

Soil and Water Testing	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-
Disease Management	1	25	0	25	5	0	5	30	0	30
Feed & fodder technology	1	0	35	35	0	0	0	0	35	35
Production of quality animal products										
Others –Care of pregnant animal	1	0	30	30	0	5	5	0	35	35
Total	**3**	**25**	**65**	**90**	**5**	**5**	**10**	**30**	**70**	**100**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	1	0	25	25	0	5	5	0	30	30
Minimization of nutrient loss in processing										
Processing and cooking	1	0	24	24	0	4	4	0	28	28
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	33	33	0	3	3	0	36	36
Women empowerment	-	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	1	0	26	26	0	6	6	0	32	32
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	**4**	**0**	**108**	**108**	**0**	**18**	**18**	**0**	**126**	**126**
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Farm Machinary and its maintenance	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-

Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
VII Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	1	25	0	25	5	0	5	30	0	30
Integrated Disease Management	1	25	5	30	0	0	0	25	5	30
Bio-control of pests and diseases	1	22	5	27	4	4	8	26	9	35
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	**3**	**72**	**10**	**82**	**9**	**4**	**13**	**81**	**14**	**95**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management	1	35	5	40	0	0	0	35	5	40
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	1	36	0	36	0	0	0	36	0	36
Edible oyster farming										
Pearl culture	1	30	0	30	0	0	0	30	0	30
Fish processing and value addition										
Others –LSF	1	35	0	35	0	0	0	35	0	35
Total	**4**	**136**	**5**	**141**	**0**	**0**	**0**	**136**	**5**	**141**
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-

Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	**22**	**389**	**233**	**622**	**37**	**36**	**73**	**426**	**269**	**695**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	1	25	0	25	5	0	5	30	0	30
Integrated Farming	1	0	20	20	0	0	0	0	20	20
Micro Irrigation/irrigation	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	1	20	10	30	0	6	6	20	16	36
Soil & water conservation										
Integrated nutrient management	2	10	25	35	10	0	10	20	25	45
Production of organic inputs										
Others –Organic farming	1	22	0	22	8	0	8	30	0	30
Total	**6**	**77**	**55**	**132**	**23**	**6**	**29**	**100**	**61**	**161**
II Horticulture	-	-	-	-	-	-	-	-	-	-
a) Vegetable Crops	-	-	-	-	-	-	-	-	-	-
Production of low value and high valume crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation	1	20	0	20	6	0	6	26	0	26
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (a)	-	-	-	-	-	-	-	-	-	-
b) Fruits	-	-	-	-	-	-	-	-	-	-
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	1	20	0	20	5	0	5	25	0	25

Cultivation of Fruit	1	22	5	27	0	3	3	22	8	30
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
Others – Organic farming in horticultural crops	1	22	10	32	0	0	0	22	10	32
Total (b)	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (c)	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (d)	-	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (e)	-	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-	-
Production and Management technology	2	45	0	45	0	0	0	45	0	45
Processing and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (f)	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total (g)	-	-	-	-	-	-	-	-	-	-
GT (a-g)	**6**	**129**	**15**	**144**	**11**	**3**	**14**	**140**	**18**	**158**
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Integrated water management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient	-	-	-	-	-	-	-	-	-	-

Management										
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Balance use of fertilizers	-	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management	-	-	-	-	-	-	-	-	-	-
Dairy Management	1	27	5	32	4	2	6	31	7	38
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-
Disease Management	2	45	0	45	5	0	5	50	0	50
Feed & fodder technology	1	0	35	35	0	0	0	0	35	35
Production of quality animal products										
Others –Care of pregnant animal	1	0	30	30	0	5	5	0	35	35
Total	**5**	**72**	**70**	**142**	**9**	**7**	**16**	**81**	**77**	**158**
V Home Science/Women empowerment	-	-	-	-	-	-	-	-	-	-
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	1	0	25	25	0	5	5	0	30	30
Minimization of nutrient loss in processing										
Processing and cooking	2	0	42	42	0	9	9	0	51	51
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	2	0	53	53	0	7	7	0	60	60
Women empowerment	-	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	1	0	26	26	0	6	6	0	32	32
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	**6**	**0**	**146**	**146**	**0**	**27**	**27**	**0**	**173**	**173**
VI Agril. Engineering	-	-	-	-	-	-	-	-	-	-
Farm Machinary and its maintenance	-	-	-	-	-	-	-	-	-	-
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-	-	-

Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
VII Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	2	25	23	48	5	0	5	30	23	53
Integrated Disease Management	2	40	5	45	5	0	5	45	5	50
Bio-control of pests and diseases	1	22	5	27	4	4	8	26	9	35
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	**5**	**87**	**33**	**120**	**14**	**4**	**18**	**101**	**37**	**138**
VIII Fisheries	-	-	-	-	-	-	-	-	-	-
Integrated fish farming	-	-	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	2	35	70	105	0	0	0	35	70	105
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-
Shrimp farming	1	36	0	36	0	0	0	36	0	36
Edible oyster farming										
Pearl culture	1	30	0	30	0	0	0	30	0	30
Fish processing and value addition										
Others- LSF	2	65	0	65	0	0	0	65	0	65
Total	**6**	**166**	**70**	**236**	**0**	**0**	**0**	**166**	**70**	**236**
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-

Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Apiculture	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
X CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
Others (pl specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	**34**	**531**	**389**	**920**	**57**	**47**	**104**	**588**	**436**	**1024**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	26	5	31	0	0	0	26	5	31
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	1	22	7	29	6	0	6	28	7	35
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	21	21	0	6	6	0	27	27
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	2	0	42	42	0	9	9	0	51	51
Production of quality animal products	1	27	0	27	4	0	4	31	0	31
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-

Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	1	0	35	35	0	0	0	0	35	35
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other – IPDM	2	45	0	45	8	2	10	53	2	55
TOTAL	**9**	**120**	**110**	**230**	**18**	**17**	**35**	**138**	**127**	**265**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	1	31	0	31	6	0	6	37	0	37
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	-	-	-	-	-	-	-	-	-	-
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	31	0	31	6	0	6	37	0	37

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	26	5	31	0	0	0	26	5	31
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	1	31	0	31	6	0	6	37	0	37
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	1	22	7	29	6	0	6	28	7	35
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	21	21	0	6	6	0	27	27
Small scale processing	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	2	0	42	42	0	9	9	0	51	51
Production of quality animal products	1	27	0	27	4	0	4	31	0	31
Dairying	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	1	0	35	35	0	0	0	0	35	35
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Any other – IPDM	2	45	0	45	8	2	10	53	2	55
TOTAL	**10**	**151**	**110**	**261**	**24**	**17**	**41**	**175**	**127**	**302**

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
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other - Integrated crop management –Major crops	1	27	3	30	1	1	2	30	2	32
TOTAL	**1**	**27**	**3**	**30**	**1**	**1**	**2**	**30**	**2**	**32**

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
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of	-	-	-	-	-	-	-	-	-	-

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

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other - Integrated crop management –Major crops	1	27	3	30	1	1	2	30	2	32
TOTAL	**1**	**27**	**3**	**30**	**1**	**1**	**2**	**30**	**2**	**32**

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	26	0	26	5	0	5	31	0	31
Commercial production of vegetables	-	-	-	-	-	-	-	-	-	-
Production and value addition										
Fruit Plants	-	-	-	-	-	-	-	-	-	-
Ornamental plants	-	-	-	-	-	-	-	-	-	-
Spices crops	-	-	-	-	-	-	-	-	-	-
Soil health and fertility management	1	0	32	32	0	5	5	0	37	37
Production of Inputs at site	-	-	-	-	-	-	-	-	-	-
Methods of protective cultivation	1	21	2	23	0	0	0	21	2	23
Others (pl. specify)										
Total	**3**	**47**	**34**	**81**	**5**	**5**	**10**	**52**	**39**	**91**
Post harvest technology and value addition										
Processing and value addition	1	16	15	31	4	5	9	20	20	40
Others (pl. specify)										
Total	**1**	**16**	**15**	**31**	**4**	**5**	**9**	**20**	**20**	**40**
Farm machinery										
Farm machinery, tools and implements	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Livestock and fisheries										
Livestock production and management	-	-	-	-	-	-	-	-	-	-
Animal Nutrition Management	1	0	22	22	0	8	8	0	30	30
Animal Disease Management	1	35	0	35	0	0	0	35	0	35
Fisheries Nutrition	-	-	-	-	-	-	-	-	-	-
Fisheries Management	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	**2**	**35**	**22**	**57**	**0**	**8**	**8**	**35**	**30**	**65**
Home Science										
Household nutritional security	1	0	26	26	0	3	3	0	29	29
Economic empowerment of women	-	-	-	-	-	-	-	-	-	-
Drudgery reduction of women	1	0	30	30	0	5	5	0	35	35
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	**2**	**0**	**56**	**56**	**0**	**8**	**8**	**0**	**64**	**64**
Agricultural Extension										
CapacityBuilding and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	**8**	**98**	**127**	**225**	**9**	**26**	**35**	**107**	**153**	**260**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Commercial vegetable production	-	-	-	-	-	-	-	-	-	-
Integrated crop management	-	-	-	-	-	-	-	-	-	-
Organic farming	1	15	0	15	0	0	0	15	0	15
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	**1**	**15**	**0**	**15**	**0**	**0**	**0**	**15**	**0**	**15**
Post harvest technology and value addition										
Value addition	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Livestock and fisheries										
Dairy farming	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-
Poultry farming	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Income generation activities										
Vermicomposting	-	-	-	-	-	-	-	-	-	-
Production of bio-agents, bio-pesticides,	-	-	-	-	-	-	-	-	-	-
bio-fertilizers etc.	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery	-	-	-	-	-	-	-	-	-	-
and implements	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Nursery, grafting etc.	**1**	**15**	**0**	**15**	**0**	**0**	**0**	**15**	**0**	**15**
Tailoring, stitching, embroidery, dying etc.	-	-	-	-	-	-	-	-	-	-
Agril. para-workers, para-vet training	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	**1**	**15**	**0**	**15**	**0**	**0**	**0**	**15**	**0**	**15**
Agricultural Extension										
Capacity building and group dynamics	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Grand Total	**2**	**30**	**0**	**30**	**0**	**0**	**0**	**30**	**0**	**30**

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	2261	2261	-	2261
Diagnostic visits	286	286	-	286
Field Day	15	328	-	328
Group discussions	12	267	-	267
Kisan Ghosthi	19	402	-	402
Film Show	12	329	-	329
Self -help groups	1	15	-	15
Kisan Mela	1	475	5	475
Exhibition	2	596	8	596
Scientists' visit to farmers field	279	295	-	295
Plant/animal health camps	-	-	-	-
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	-	-	-	-
Method Demonstrations	-	-	-	-
Celebration of important days	4	1123	4	1123
Special day celebration	2	224	-	224
Exposure visits	-	-	-	-
Others –	-	-	-	-
Total	**2894**	**6601**	**17**	**6601**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	-
Extension Literature	5
Newspaper coverage	2
Popular articles	8
Radio Talks	-
TV Talks	2
Animal health amps (Number of animals treated)	-
Others (pl. specify)	-
Total	**17**

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	Wheat	GJW-463	-	13.5	-	-
Oilseeds	Groundnut(Breeder)	GG-20		120	-	-
		GJG-17	-	34.20	-	-
		GJG-22	-	12.30	-	-
Pulses	-	-	-	-	-	-
Commercial crops	-	-	-	-	-	-
	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-
	-	-	-	-	-	-
Flower crops	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
Spices	Coriander	GC-1	-	13.8	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
Fodder crop seeds	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
Fiber crops	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
Forest Species	-	-	-	-	-	-
Total				**193.8**	**-**	**-**

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	Brinjal	GJB-2, GJB-3 and GJLB-4		4000	1430/-	105
	Tomato	GT-1 and JT-3		3000	1070/-	65
Fruits	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
Ornamental plants	-	-	-	-	-	-
Others	-	-	-	-	-	-
Total	**-**	**-**	**-**	**7000**	**2500/-**	**170**

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers	-	-	-	-
	-	-	-	-
	-	-	-	-
Bio-pesticide	-	-	-	-
	-	-	-	-
	-	-	-	-
Bio-fungicide	-	-	-	-
	-	-	-	-
	-	-	-	-
Bio Agents	-	-	-	-
	-	-	-	-
	-	-	-	-
Others	-	-	-	-
	-	-	-	-
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	-	-	-	-
Others (Pl. specify)	-	-	-	-
	-	-	-	-
Piggery	-	-	-	-
Piglet	-	-	-	-
Others (Pl.specify)	-	-	-	-
Fisheries	-	-	-	-
Indian carp	-	-	-	-
Exotic carp	-	-	-	-
Others (Pl. specify)	-	-	-	-
	-	-	-	-
Total	-	-	-	-

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

A. KVK News Letter (Date of start, Periodicity: number of copies distributed etc.):
26/12/2017, Quarterly, e- news letter

B. Literature developed/published

Item	Title	Authors name	Number
Research papers	Effect Of Organic Manure On Yield Attributes, Nutrient And Content Of Grain Amaranthus	Solanki, R. P.; Patel, H. A.; Odedra, R. K.; Dodiya, V. D.; Bariya, A. R. And Patel, S. B.	ISSN: 0975-3710 NASS : 4.20
	Parity Effect On Milk Let- Down Time In Mehsana Buffaloes	Hasmukh A. Patel, Amit K. Srivastava, Haresh D. Chauhan, Jethabhai B. Patel	ISSN: 2307-8316 NASS : 4.00
	Studies On Milking Behaviour Of Mehsana Buffaloes	H. A. Patel, J. B. Patel, S. R. Thaker, R. P. Solanki and R. J. Modi	ISSN: 2278-3687 NASS :3.98
	Chemical analysis of Agricultural land soil of Porbandar taluka, Gujarat	Patel H. A., Odedra, R. K.; Thakar D.S., Parakhia A.M. and Solanki R.P.	ISSN: 0975-3710 NASS : 4.20
	Screening of Promising Genotypes of Sponge gourd against fruit fly, *B. cucurbitae*	A.M. Bharadiya J. B. Bhut, M. V. Varia and R. B. Vadher	ISSN-0974-8431, NASS: 3.94
Technical reports	SAC, ZREAC & AGRESSCO	-	
News letters	-	-	
Technical bulletins	-		
Popular articles	Soil Health Card- tena hetu ane fayda	R. K. Odedra, V.M.Savaliya and H.A.Patel	-
	Jiru ni vaigyanik kheti padhdhhati	R. P. Solanki, H.A.Patel and V.M.Savaliya	-
	Dudhanu Mulyavardhan ane teni banavato	H.A.Patel, R. K. Odedra, and D.S.Thakar	-
	Bahya paropjiviothi thata zogo ane tenu niyantran	H.A.Patel, R. K. Odedra, and R. P. Solanki	-
Extension literature	-	-	
Others (Pl. specify)	-	-	
TOTAL			

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 Stories/Case studies: 1

Title: Development of combine thresher with hydraulic for groundnut

Name of Farmer: Devsibhai Lilabhai Sundavdra

Village : Village: Degam; Ta: Porbandar; Di: Porbandar

Education : 7th Std.

Age : 46 years

Land : 2.3 ha.

Shri Devsibhai is a very innovative farmer of Porbandar area and has got engineering skills despite of his low education. He is very interesting in innovating low cost farm equipments through his own engineering skills according to his need and experimenting in his field. He is in regular contact of KVK, Porbandar and participating in different activities.

He is cultivating groundnut in *Kharif* season as a major crop in his field. At the time of harvesting of groundnut, there was always need for labour while groundnut threshing. Considering this constraints, he was inspired to develop combine thresher with hydraulic for groundnut threshing which can be cost effective and efficient. He has made it from locally available spare parts and fitted himself manually. He has also done many improvements according to his need and local condition during the development stage.

Technology:

The combine thresher with hydraulic made by Shri Devsibhai is efficient and economical to the farmers. He has made the machine in just Rs 1,35,000. Farmers are always facing the problem of labour scarcity during the season of groundnut harvesting that is why farmers cannot harvest the crop timely. By use of this machine groundnut of one acre area was easily threshed in one hour by only 4 labour. Otherwise for such type of work 10-12 labour were required.

Impact:

Shri Devsibhai also gives the combine thresher with hydraulic to other farmers on rent basis for harvesting of groundnut and earn additional income. Other farmers of the district are very much impressed by the success of this equipment and its cost effectiveness. The farmers of Porbandar district have invited the innovative technology.

Success Stories/Case studies: 2

Title: Entrepreneurship Development through Value Addition of Mango

Name of farmers :	**Shri Satishbhai Gadhvi**
Present Address:	**Village: Segaras Tal. Kutiyana, Dist.: Porbandar, Gujarat**
Date of birth Or Age :	**32 years**
Education:	**6th Std.**

Shri Satishbhai Gadhavi of Segras village of Porbandar district is a very enthusiastic and business oriented person. He and his wife Maltiben is a regular participant in the KVK programmes since last three years.

Technology:

Shri Satishbhai Gadhavi of Segras village of Porbandar district is a very enthusiastic and business oriented person. Home Scientist of KVK had imparted trainings on preparation of mango pickles by using solar cooker in the village. Shri Satishbhai also provided solar cooker to conduct OFT on mango pickles by KVK. He was imparted skill for preparation of mango pickles in solar cooker and motivated for preparation of mango

pickles and start as business. Shri Satishbhai was inspired through the training programme and OFT conducted on preparation of mango pickles and started preparation of mango pickles in solar cooker on large scale and started business since last three years. He is preparing 200 kg pickle every day in the mango season.

Impact:

In a season he is preparing approximately 4000 kg of mango pickle and selling it in the domestic market. The cost of preparation of pickle is very less due to use of solar cooker as compared to traditional method of preparation. From this business he is earning approximately Rs. 2.0 lakh every year. He is fetching more profit due to use of solar cooker. A considerable income can be secured by preparation of mango pickles specially by using solar cooker.

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

Higher Production through Improved Technology

Name of Farmer : Bhima Nogha Gareja

Village : Village: Segras; Ta: Kutiyana; Di: Porbandar

Education : -

Age : 42 years

Land : 1.0 ha.

Shri Bhimabhai Gareja is a small farmer of Segras village of Kutiyana district. He is illiterate and has small land holding but he tries new technologies on his farm and adopt them easily then others. In Kutiyana taluka of Porbandar district, many farmers depend upon rainfed farming. They take chickpea as an unirrigated crop. Largely, they used older varieties of chickpea like Digvijay. They don't apply seed treatment before sowing. So, KVK-Porbandar give FLDs on chickpea to aware farmers for adopt new technologies.

New technology was provided to farmer by KVK as per under.

Variety: GJG-3 (Chickpea)
Improved variety seeds: 30 Kg.
Bio fertilizer: *Rhizobium* + P.S.M. (500 ml each)
Bio agent: H.N.P.V. – 250 ml

Moreover, the institute suggests him to apply seed treatment with carbendazim@3.0 g /kg seed to improve the germination & plant stand. Also, suggest him to apply interculture operation 2 times and provide supplementary irrigation to crop. Which, ultimately improves plant growth and increase yield as compared to traditional practice followed by the farmer. He takes 62 % higher yield than check variety and ultimately get net return Rs 23710 higher than check. Shri Bhimabhai set an ideal example how one can increase their yield by use of such new or improved technology.

Table for comparison between old and new technology

Yield obtained (q/ha)		Yield increase (%)	Expenditure and returns (Rs/ha)								Net returns increase (%)
			Check				Demo				
Check	Demo		Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	
11.05	18.00	162	23160	55250	32090	1.38	25200	81000	55800	2.21	173

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

A. Practicing Farmers: --

a) --Nil --

B. Rural Youth: --

a) --Nil --

b)

C. In-service personnel: --

a) --Nil ---

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

iii) Field level observations

For FLD:

i) New variety/technology

ii) Poor yield at farmers level

iii) Existing cropping system

iv) Others if any

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year): 15

ii. No. of farm families selected per village :- -

iii. No. of survey/PRA conducted : 15

iv. No. of technologies taken to the adopted villages: 112

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
1 State department of Agriculture	Most of organizations are members of Scientific Advisory Committee of this KVK and have linkage with different mandatory activities conducting training programmes and demonstration on implements, Khedut Shibir, Kishan Gosthy, Field Day and Vocational Trainings, Sponsored trainings, contribution received for infrastructural development etc.
District Agriculture Officer	
ATMA	
Deputy Director, FTC	
Dy. Director of Agriculture (Extension)	
Dy. Director of Horticulture	
Dy. Director of Animal husbandry	
Asstt. Director of Fisheries	
2. Asstt. Conservator of Forest	
3. Taluka purchase and sales Union (Porbandar, Kutiyana, Ranavav)	
4. State Bank of India	
5.DWDU, Porbandar	
6.Doordarshan Kendra	Dissemination of activities
7.All India Radio	

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?

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**	Farmer, Farmwomen & Rural youth	22	6	-
02	**Research projects**	-	-	-	-
03	**Training programmes**	Farmer, Farmwomen & Rural youth	8	-	-
04	**Demonstrations**	Farmer, Farmwomen & Rural youth	6	-	-
05	**Extension Programmes**				
	KisanMela	Farmer, Farmwomen & Rural youth	2	-	-
	Technology Week	Farmer, Farmwomen & Rural youth	-	1	-
	Exposure visit	-	-	-	-
	Exhibition	Farmer, Farmwomen & Rural youth	1	3	-
	Soil health camps	Farmer, Farmwomen & Rural youth	-	1	-
	Animal Health Campaigns	-	-	-	-
	Others (Pl. specify)				
06	**Publications**				
	Video Films	Rural youth	3	5	-
	Books	-	-	-	-
	Extension Literature	Farmer, Farmwomen & Rural youth	6	7	-
	Pamphlets	Farmer, Farmwomen & Rural youth	4	3	-
	Others (Pl. specify)	-	-	-	-
07	Other Activities (Pl .specify)	-	-	-	-
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	Rural youth	2	2	-

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:

Sr. No.	Name of organization
1	District Agriculture Officer
2	ATMA
3	Deputy Director, FTC
4	Dy. Director of Agriculture (Extension)
5	Dy. Director of Horticulture
6	Dy. Director of Animal husbandry

8. Innovator Farmer's Meet

Sl.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	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
-	-	-	-	-

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

S. No	Feed Back
1	INM in groundnut increased production as well as the quality
2	Micronutrients and IPM improves the growth and yield of cotton
3	Creating awareness among the farmers & farm womens about improved/high yielding varieties of the related crops
4	Leads the farmers from traditional agriculture to scientific & sustainable agriculture by the use of recommended/improved package of practices and ultimately reduce the cost

	of cultivation
5	Make the farmers aware about Integrated Pest & Disease Management by the proper use of insecticide/fungicides.
6	INM in wheat was better than farmers' practices
7	An improved variety particularly of chick pea GG-3 is good and can give its potential yield with proper management practices.
8	If the seeds of the new varieties are generously available through Govt. Agencies, they are interested in sowing of demonstrated improved varieties.
9	Micro nutrients in Cotton and groundnut can enhance the growth and increase production.
10	IDM in cumin reduce the pesticides consumption and reduce the cost of cultivation
11	Use of Trichoderma in groundnut is the best technology to control stem rot.

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

1. **Horticulture:**

- In Coriander, variety GC-2; seed shattered at the time of harvesting.

2. **Plant protection:**

- In the field where coriander was grown; on next season in same field there were problem in growing of cumin (Severe problem of wilt).
- In the field of cumin, some plants change color to purple and they remain standing until crop harvested.
- Efficacy of newer technical of pesticides, fungicides and herbicides should be tested and recommended if possible.
- Reasons for resurgence of white grub and control measures based on may be suggested.
- Reason for pink ball warm in cotton should be identified and accordingly its management should be suggested.

3. **Plant breeding &Genetics**

- Certified seed of latest groundnut varieties should be made available to the farmers.
- To develop Groundnut digger and combined harvester of groundnut if possible.

4. **Fisheries:**

- Land availability is the main constraint in the promotion of brackish water aquaculture & demarcation of potential land needs to be done for farmers.
- Commercial hatchery of shrimp/fish needs to be developed for the fish farmers.
- Study to exploit Mollusk culture, emphasis on Pearl culture in fresh water & marine water is needs to be done.
- There is a need to utilize vast natural resources of marine algae & promote culture along the coast.
- Research on application of liquid Sea weed fertilizer (LSF) on horticultural crops needs to be conducted.
- The office of Fish Farmer Development Agency (FFDA) needs to be established in the district.

5. **Home Science**

- To develop the machineries and tools for reduce the drudgery for farm women.
- To develop models of urban agriculture to ensure food and nutritional security.
- To develop package of practices for organic management of pest and disease in kitchen gardening vegetables.

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

Period of observing Technology Week: From 21-09-2017 to 25-09-2017
Total number of farmers visited :523
Total number of agencies involved : 2
Number of demonstrations visited by the farmers within KVK campus:

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	5	523	Groundnut Production Technologies
Lectures organized	24	380	Production Technology, Pest & disease management, Value addition, Organic Farming, Micro irrigation, etc.
Exhibition	1	368	Improved farm implements
Film show	5	365	Value addition, pest & diseases management in groundnut
Fair	-	-	-
Farm Visit	3	165	-
Diagnostic Practicals	-	-	-
Supply of Literature (No.)	4	523	-
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week	-	523	-

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	-	-
Vegetable crops	-	-
Tuber crops	-	-
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
-	-	-	-

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

Impact of KVK activities:

Impact analysis of different extension activities like trainings, FLDs, OFTs, Other extension activities etc. conducted by KVK, Khapat in adopted villages was done in the Porbandar district. The information was collected from the beneficiary farmers in adopted villages by an interview schedule prepared. The study was conducted with a view to measure the knowledge, adoption level, behavioral changes etc about latest agricultural technologies and yield & profit enhancement in major crops. 100 beneficiary farmers were selected randomly from the adopted villages for the study. Interview schedule was prepared in local language. The objectives of the study are as follows.

1. To study the farmer's profile.
2. To identify the source of agricultural information before and after KVK interventions.
3. To evaluate the knowledge and adoption level of improved technologies in major crops before and after KVK interventions.
4. To measure the change in production and productivity of major crops.

Farmer's Profile

Age of the beneficiary farmers

Sr. No.	Category	Percentage
1	Up to 35 years	40
2	36 to 50 years	48
3	More than 50 years	12

The data reveals that 40 percent of the farmers are of young age group while 48 percent are in the age group of 36-50 years. Only 12 percent farmers are more than 50 years of age. This shows that more emphasis was given to young farmers for different KVK activities.

Educational level of the participants

Sr. No.	Category	Percentage
1.	Illiterate	12
2.	Primary level	34
3.	S.S.C. / H.S.C. level	52
4.	Graduate and above	2

Above figures indicates that majority of the respondents are of either primary level or having high school education. Only 2 percent beneficiaries were graduate. The farmers having higher education have lands but they are either in some other business or in service.

Land Holdings

Sr. No.	Category	Percentage
1.	Less than 1 ha.	7
2.	1 to 2 ha.	22
3.	2 to 4 ha.	28
4.	More than 4 ha.	43

Data shows that 50 percent farmers have 1-4 ha. land while 43 percent have more than 4 ha. land and 7% have less than 1 ha. land.

Annual income

Sr. No.	Category	Percentage	
		Before KVK	After KVK
1.	10000 to 50000	20	5
2.	50001 to 100000	18	22
3.	100001 to 200000	32	40
4.	More than 200000	30	33

The figures of annual income before and after KVK interventions indicate that before KVK interventions the farmers having annual income of Rs. 10,000 to 50,000 were 20% while after KVK it changes to 5% it means that 15% farmers are shifted to higher income slab. Farmers who were getting income of Rs. 50001 to 1,00, 000, 1,00,001 to 2,00,000 and more than 2,00,000 before KVK were increased after KVK interventions in the tune of 4%, 8% and 3% respectively.

Knowledge and adoption level of improved technologies by the beneficiaries before and after KVK interventions.

1. Knowledge and adoption level of groundnut production technology

Sr. No.	Particular	Before KVK		At Present	
		Knowledge (%)	Adoption (%)	Knowledge (%)	Adoption (%)
1.	High yielding varieties				
	a. Spreading: GG-11,12,13	45	32	90	48
	b. Semi spreading: GG-20, GJG-22	90	80	100	95
	c. Bunch: GG-2,4,6,7, TPG-41, TG-37A	65	52	92	70

2.	Sowing time	85	90	100	100
3.	Seed rate	80	63	90	87
4.	Seed treatment	62	43	92	90
5.	Row spacing	57	42	89	78
6.	Application of FYM	80	63	100	72
7.	Integrated Nutrient Management	36	30	92	86
8.	Use of Biofertilizers	21	15	54	48
9.	Use of micronutrients	19	14	48	40
10.	Irrigation (MIS)	62	60	85	92
11.	Integrated disease management	18	16	80	75
12.	Use of *Trichoderma* for stem rot control	15	13	88	84
13.	Integrated pest management	22	19	77	71

2. Knowledge and adoption level of cotton production technology

Sr. No.	Particular	Before KVK		At Present	
		Knowledge (%)	Adoption (%)	Knowledge (%)	Adoption (%)
1.	High yielding varieties (Bt. Cotton)	52	52	100	100
2.	Sowing time	87	85	95	88
3.	Seed rate	32	26	92	79
4.	Seed treatment	80	67	100	100
5.	Row spacing	40	38	95	73
6.	Application of FYM	60	32	85	72
7.	Integrated Nutrient Management	24	17	82	73
8.	Irrigation (MIS)	35	24	87	75
9.	Integrated disease management	25	14	80	72
10.	Integrated pest management	28	22	87	85

3. Knowledge and adoption level of cumin production technology

Sr. No.	Particular	Before KVK		At Present	
		Knowledge (%)	Adoption (%)	Knowledge (%)	Adoption (%)
1.	High yielding varieties (GC-4)	38	32	98	98
2.	Sowing time	73	67	95	92
3.	Seed rate	51	42	85	83
4.	Seed treatment	43	38	96	84
5.	Line sowing at 30 cm	48	42	87	85
6.	Application of FYM	43	40	84	77
7.	Integrated Nutrient Management	32	28	96	92
8.	Irrigation	68	59	95	90
9.	Integrated disease management	30	26	93	89
10.	Use of *Trichoderma*	27	22	78	70
11.	Integrated pest management	37	32	97	94

4. Knowledge and adoption level of Chickpea production technology

Sr. No.	Particular	Before KVK		At Present	
		Knowledge (%)	Adoption (%)	Knowledge (%)	Adoption (%)
1.	High yielding varieties Guj.Gram-2, 3	18	13	83	72
2.	Seed rate	56	42	92	83
3.	Row spacing	72	48	95	82
4.	Seed treatment	22	18	95	78
5.	Irrigation	21	14	86	75
6.	Plant Protection	32	28	94	87

5. Productivity of major crops before and after KVK interventions

Sr. No.	Name of crop	Yield (qt. / ha.)		Yield increased in %
		Before KVK	At present	
1.	Groundnut	18.00	22.50	25.00
2.	Cotton	18.75	28.00	49.33
3.	Cumin	5.50	8.00	45.40
4.	Chickpea	14.50	19.00	27.27
5.	Wheat	35.00	41.00	17.14

Data of the productivity of major crops in the district indicates that after KVK interventions, productivity of major crops increased in the range of 17 % to 49%. This enhancement may be due to the adoption of improved agricultural technologies including production technologies, INM, IPM, IDM, irrigation management, use of improved farm implements etc. disseminated by KVK scientists through trainings, FLDs, OFTs, field days, field visits, technology week, telephonic helpline and other many extension activities.

Impact of farm women activities conducted by KVK, Khapat

Farm women of the adopted villages were imparted the trainings on value addition, income generation activities, preparation of bakery products, embroidery, tailoring and handicrafts etc. by home scientist of KVK, Khapat. FLDs on solar cooker as well as OFTs on food and nutrition, preparation of different items in solar cooker were also conducted.

- Farm women were made aware about importance of high calorie healthy diet during trainings and they started preparing healthy diet at home for them and their family.
- Solar cooking was popularized by trainings, FLDs and OFTs among the farm women. As it saves time, energy and cost, many of the farm women purchased solar cooker and preparing different routine items cost effectively, with less time and energy.
- A SHG of farm women named "*Radhe Krishna Group*" of Gokran village of Kutiyana Taluka was inspired to do income generation activities. They started the vocation of Vat making from cotton and earned additional income of approximately Rs. 1000 per month.
- Smt. Rambhiben Maru of Bakharla village started vocation of preparation of handicrafts items and earned Rs 2000 per month additional income.
- Tejalben Keshvala of Khapat village started embroidery work and earned Rs. 1500-2000 per month.

Smt. Pravinaben Savaniya of Adityana village started preparation of mango pickle in bulk in solar cooker and selling. She earned Rs. 2000 per month additional income.

Impact of fisheries activities conducted by KVK, Khapat

The fisherman of the district were imparted training on various aspects of fisheries, Mariculture and aquaculture with emphasis on efficient use of natural resources and its conservation etc. by KVK scientist. FLDs on cultivation of seaweed- "*Kappaphycus"* using bamboo raft was conducted.

- The fisherman started functioning in associations, forming groups and become more adoptive towards latest technologies.
- The culture of giant fresh water prawn – Scampi is adopted by fisherman as well as non fisherman also and shown encouraging results first time in the district.
- The seaweed cultivation of *Kappaphycus* using bamboo raft was successfully done.

Tiger shrimp (*P. monodon*) harvested during the fishery are successfully collected in live conditions and supplied to the shrimp hatchery for raising shrimp larvae. This generated extra income to the fisherman.

B. Cases of large scale adoption

Impact on productivity and profitability by *Trichoderma* in groundnut

Situation Analysis:

In Porbandar district of South Saurashtra region, there are three talukas; Porbandar, Ranavav and Kutiyana. Among them, average kharif sown groundnut covers 68550 ha of area (APY by Directorate of Agriculture, Gujarat). As groundnut is a major kharif crop. Since, last few years stem rot is the major problem in groundnut growing farmers

of Porbandar district. Stem rot affect badly to the production as well as quality of the crop and ultimately reduce the average income of the farmers.

Plan, Implementation and Support :

For control of stem rot disease, farmers used various chemical fungicides. By the use of various chemical fungicides, the overall production cost may increase and ultimately decrease the profit or income of the farmers. The Junagadh Agricultural University suggested use of *Trichoderma harzinium* for effective control of stem rot of groundnut. As it is a non chemical method to prevent stem rot of groundnut. Also, it is cheaper from chemical method and control is more effective over chemical method. So, Krishi Vigyan Kendra mainly focused on spreading of this technology through various means viz., FLDs, OFTs and on campus as well as off campus trainings.

More over, scientist's diagnostic visit to farmers field and advised the farmers over solve the problem, was carried out frequently by the KVK staff. Pamphlets are also provide to the farmers on various occasions like Krishi Mela, Farmers Training, Khedut Shibir . KVK-Porbandar were also sell *Trichoderma harzinium* talc based powder to the farmers on Non-profit basis. The overall activities done by the KVK was shown in following table.

Technology Products produced by JAU provided to the farmers

Sr. No.	**Technology Product**	**Quantity disseminated**
1	Savaj *Trichoderma*	12399 kg

Technical support by KVK

Sr. No.	**Technical Support**	**No of unit**	**No of farmers benefited**
1	Training	24	627
2	FLDs	60	60
3	OFT	09	09
4	Pamphlet	02	1000

Output:

As mentioned above, it is cheaper than chemical control. As per below table, which shown the result of FLD in rainfed situation, average yield of year -2010-17was 18.57 q/ha over check 16.88 q/ha, which was 10.01 percent higher than the check treatment.

Year: 2010-2017

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Groundnut	Kharif	Plant Protection – a) *Trichoderma*	Rainfed	18.57	16.88	10.01

Source : APR of KVK-Porbandar

As mentioned in the below table, gain in knowledge was increased by near about 60 percent after the technical support provided by KVK in terms of trainings, OFTs, FLDs, diagnostic visits etc.

Sr. No.	**Particular**	**Before**	**At Present**
		Knowledge (%)	**Knowledge (%)**
1.	Use of *Trichoderma* for stem rot control	15	78

Outcome:

KVK-Porbandar gives FLDs on *Trichoderma harzinium* on selected villages. Due to the results, farmers adopted the new technology over chemical control. Further, due to its effect this technology was spread to nearby villages. As shown in table, this technology was spread in 6075 farmers among 135 villages over last 5 years.

Sr. No.	Crop	Technology demonstrated	Horizontal spread of technology		
			No. of Villages	No. of farmers	Area in ha
1	Groundnut	*Trichoderma harzinium*	135	6075	2500

Source : APR of KVK-Porbandar

Impact:

The impact of KVK intervention is shown in table. As per table, before KVK intervention the average productivity of groundnut was 18 q/ha. After that it was 22.50 q/ha. It was 25 percent higher.

Sr. No.	Name of crop	Yield (qt. / ha.)		Yield increased in %
		Before KVK	At present	
1.	Groundnut	18.00	22.50	25.00

Farmers feedback:

- Use of *Trichoderma* in groundnut is the best technology to management of stem rot.
- *Trchoderma* is cost effective.
- *Trichoderma* is very an easy to apply in field.
- Chemical controls of stem rot in groundnut not available till today
- Eco-friendly management of stem rot in groundnut by *Trichoderma*

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

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar e-ness	Other enterprise	Tota l
	Text only	-	-	-	-	-	-	-
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	-	-	-	-	-	-	-
	Total farmers Benefitted	-	-	-	-	-	-	-

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	Crop cafeteria	Kharif & Rabi season	-	14 varieties of Kharif crops & 12 varieties of Rabi crops	-	-	-	-	Demonstration purpose
2	Poly house/Net house	2008-09		GJB-2, GJB-3 ,GJLB-4, GT-1 & JT-3	Sapling	7000		2500/-	Demonstration purpose
3	Vermi-composting Unit	2009		-	Vermi-compost	120 kg	-	Used in poly house	Demonstration purpose
4	Ornamental fish production unit	2016-17		Different five types of fish	Fingerlings	2000	3000/-	-	Demonstration purpose
5	Rain water harvesting structure	2009-10		-	-	-	-	-	Demonstration purpose
6	Solar pump	2013-14		-	-	-	-	Used in poly house & farm	Demonstration purpose

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 (Lakh)	Gross income (Lakh)	
Cereals									
Wheat	30/11/17	6/03/18 to 10/3/18	1.0	GJW-463	Truthful	2700 Kg.	0.070	-	-
Pulses									
	-	-	-	-	-	-	-	-	-
Oilseeds									
Ground nut	04/07/17 to 6/7/17	26/10/17 to 30/11/17	10.0	GG-20	Breeder	12000 Kg.	3.43	16.20	-
	04/07/1	26/10/1	2.0	GJG-	Breeder	3420		4.61	-

	7 to 6/7/17	7 to 30/11/17		17		Kg.			
	04/07/17 to 6/7/17	26/10/17 to 30/11/17	1.0	GJG-22	Breeder	1230 Kg.		1.66	-
Fibers									
Spices & Plantation crops									
Coriander	30/11/17	6/03/18 to 10/3/18	2.0	GC-2	Truthful	2700 Kg.	0.060	-	-
Vegetables									
Sapling	-	-	-	Brinjal & Tomato	-	7000	-	0.025	
Others (specify)									
-	-	-	-	-	-	-	-	-	-

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): **30**

Months	**No. of trainees stayed**	**Trainee days (days stayed)**	**Reason for short fall (if any)**
April 2017	20	3	-
May 2017	20	3	-
June 2017	24	3	-
July 2017	88	6	-
August 2017	26	3	-
September 2017	523	-	-
October 2017	43	6	-
November 2017	-	-	-
December 2017	40	3	-
January 2018	38	3	-
February 2018	30	3	-
March 2018	-	-	-

F. Database management

S. No	Database target	Database created
-	-	-

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

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
-	-	5.0 ha Micro sprinkler	2	2	7000	137	06	-	10 ha

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	SBI, Porbandar	Porbandar	000456	Training organizer, KVK, Khapat-Porbandar	10250767705	360002121	SBIN0000456

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**	60.87	60.87	53.94
2	**Traveling allowances**	0.53	0.53	0.12
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	9.32	9.32	8.84
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)		**70.72**	**70.72**	**62.90**
B. Non-Recurring Contingencies				
1	**Works**	0	0	0
2	**Equipments including SWTL & Furniture**	0	0	0
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	0	0	0
4	**Library** (Purchase of assets like books & journals)	0	0	0
TOTAL (B)		0	0	0
C. REVOLVING FUND		**81.95**	**0**	**47.99**
GRAND TOTAL (A+B+C)		**152.67**	**70.72**	**110.89**

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	35.58	9.21	3.03	41.76
April 2016 to March 2017	41.76	21.29	25.45	37.60
April 2017 to March 2018	37.60	44.35	47.99	33.96

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. R. K. Odedra	Senior Scientist & Head	ICAR sponsored Winter school on "Genomic, Proteomic and Metabolomic Application in crop improvement"	Department of Biotechnology Junagadh Agricultural University Junagadh	4th to 24th September - 2017
Dr. H. A. Patel	Scientist	Advances in Animal Nutrition to Improve Livestock Productivity	IVRI, Izatnagar (U. P.)	6th to 26th Sep. 2017
Dr. R. B. Vadher	Scientist	Advance Technologies for Improving the Soil Health and Livelihood in Degraded Land	Department of Soil Science & Agricultural Chemistry, RVSKVV, Gwalior (MP)	30th Jan. to 19th Feb. 2018
Dr. R. K. Odedra	Senior Scientist & Head	National Conference of KVK	IARI, New Delhi	16th -17th March 2018
Dr. R. K. Odedra	Senior Scientist & Head	Training programme on "Water Conservation techniques Micro Irrigation system for quality production"	DEE, JAU, Junagadh	21st to 23rd March 2018
Dr. H. A. Patel	Scientist	Training programme on "Water Conservation techniques Micro Irrigation system for quality production"	DEE, JAU, Junagadh	21st to 23rd March 2018
V. M. Savaliya	Scientist	Training programme on "Water Conservation techniques Micro Irrigation system for quality production"	DEE, JAU, Junagadh	21st to 23rd March 2018

17. Please include any other important and relevant information which has not been reflected above.
Implementation of ATIC

Trainings: Under Agricultural Technology Information Centre (ATIC) project, Twenty one training programmes were organized.

Details	No. of courses	General			SC/ST			Total		
		M	F	T	M	F	T	M	F	T
Trainings on improved agricultural Technologies	21	218	206	424	84	59	143	302	265	567

FLDs:

Crop/ Variety	Area (ha)	No. of Demonstration	Results
Groundnut – IPM (GG-20+Chlorpyriphos)	20.0	50	12.8% yield increase
Wheat-Improved variety GJW-463	3.6	09	13.2% yield increase
Liquid seaweed fertilizer (LSF) in groundnut	8.0	20	8.9% yield increase

LSF: FLDs on LSF prepared by FRS, JAU, Okha were conducted on20 farmer's field in different adopted villages of ATIC in 8 ha. area. Two sprays at 15 days interval were made at flowering stage of groundnut.

Celebration of *Parthenium* Awareness Week

Parthenium awareness week was celebrated by KVK, Khapat-Porbandar during 16-22 August 2017. During the week, awareness programmes were conducted with mandatory activities of KVK like training, field days, visit etc. in which methods of management of *Parthenium*, its hazards were discussed and deliberated to the farmers, staff and labours.

D) Celebration of Technology Week

A Technology week was celebrated on groundnut in current year during 21th to 25th September, of 2017 with a view to provide an opportunity to show the worth of the technologies through seminars and live demonstration and to boost up technology transfer. During the week, different improved technologies of groundnut right from the land preparation and sowing to harvesting and post harvest technologies up to marketing were demonstrated live or discussed thoroughly in the seminars During the week total 523 farmers (320 farmers + 203 farm women) have participated in seminar and discussion.

Farmers interacted with the KVK Scientists very interestingly and major problems and their solution in groundnut cultivation were conversed in discussion session.

Celebration of New India Manthan "Sankalp Se Sidhdhi"

New India Manthan "Sankalp Se Sidhdhi" programme was organized on 26th August, 2017 at Krishi Vigyan Kendra, Junagadh Agricultural University, Khapat-Porbandar, Gujarat. The Function was graced by the presence of Shri Babubhai Bokhiriya, chief guest and Hon'ble Cabinet minister, Water supply, Animal Husbandary, cow Breeding, Fisheries, civil Aviation and salt industries, Government of Gujarat; Dr. A. R. Pathak , chair person and Hon'ble Vice Chancellor of Junagadh Agricultural University, Junagadh; Dr. V. P Chovatia, Director of Research, Junagadh Agriculture University, Junagadh; Shri J. N. Parmar, District Agricultural Officer, Porbandar; Chairman APMC Porbandar Shri Laxmanbhai Odedra, President yuva BJP Porbandar Shri. Ajaybhai Bapodra and Shri Virambhai Karavadra, President Taluka Panchayat Porbandar, other dignitaries and officers of ATMA-Porbandar, Krishi Vigyan Kendra, College of Agriculture, Cotton research station were remained present.

The message of Hon'ble Prime Minister was conveyed through film show on New India Manthan "Sanklap se Siddhi". The oath on different attributes for building new India was taken by all the participants in this programme In new India Manthan "Sanklap se Siddhi" programe 475 farmers and farmwomen remain present.

F) Celebration of "Mahila Sashaktikaran Pakhvadiya"

During 01 to 14th Aug-2017, Mahila Sashaktikaran Pakhvadiya has been celebrated by KVK. In this celebration, canning class was organized on date – 02/08/2017 & Krushi Mahila Divas -06/08/2017 has been celebrated. Total 133 women were participated in this programme.

G) Celebration of *Swachhta Pakhvada*

During Date – 15/09/2017 to 02/10/2017 *Swachhta Pakhvada* was celebrated by KVK- Khapat. Among this, various activities like *Swachhta Sankalp*; Swachhta activity at public places were done. Also, aware the people about *swachhta* mission.

H) Celebration of ''Mahila Kisan Divas"

''Mahila Kisan Divas" programme was organized on 15th October, 2017 at Krishi Vigyan Kendra, Junagadh Agricultural University, Khapat-Porbandar, Gujarat. During the programme, role of farm women in agriculture, women empowerment, drudgery reducing technologies for farm women, value addition in agricultural produces and entrepreneurship development in farm women were thoroughly highlighted and discussed through seminar and lectures. Progressive farm women namely Smt. Lakhiben Parbatbhai Kadavala from Aditpara village and Smt. Prabhaben Sadariya of Adityana village who are actively associated with ATMA project and regular participant of KVK activities also shared their ideas and success stories. They were also honored by DEE, JAU, Junagadh during the programme. During the event, cooking, debate and drawing competition were also organized. Farm women as well as rural girls actively participated in different competitions and they were also motivated by giving rank from one to three for different competitions. A total 146 farm women from different villages have interestingly participated in the event.

The Director of Extension Education, JAU, Junagadh also remained present on this occasion. He interacted with farm women during his lecture he made aware the farm women with how latest technologies useful to them, role of farm women and the scope of development of agriculture.

Celebration of International Women day

"International Womens day" 'programme was organized on 8th March, 2018 at Krishi Vigyan Kendra, Junagadh Agricultural University, Khapat-Porbandar, Gujarat. During the programme, women empowerment, drudgery reducing technologies for farm women, and entrepreneurship development in farm women were thoroughly highlighted and discussed through seminar and lectures.

Activities conducted under Mera Gaun Mera Gaurav (MGMG)

Under MGMG, 10 villages of Porbandar district has been selected for different extension activities. Two teams of KVK, Khapat is working and each team has five villages. The activities conducted are given below.

Sr. No.	Quarter	Visit to village		Meetings/Gosthis organised	
		No.	Participants	No.	Participants
1	April to June 2017	10	250	4	107
2	July to Sept. 2017	11	265	11	265
3	October to Dec. 2017	10	264	10	264
4	January to March 2018	10	206	10	293

Technology Products produced by JAU provided to the farmers

Different technology products like bioagents, biofertilizers and pheromone traps produced by Junagadh Agricultural University has been provided to the farmers of Porbandar district for control of pest and diseases of groundnut and cotton. The details of technology products disseminated are given below.

Sr. No.	Technology Product	Quantity disseminated
1	Savaj *Beuvaria basiana*	6650 kg
2	Savaj *Trichoderma*	9800 kg
3	Savaj *Rhizobium* culture	250 lit.
4	Savaj PSB culture	250 lit.

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	34	588	436	1024
Rural youths	10	175	127	302
Extension functionaries	1	30	2	32
Sponsored Training	8	107	153	260
Vocational Training	2	30	0	30
Total	**55**	**930**	**718**	**1648**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	55	22	-
Pulses	40	16	-
Cereals	40	16	-
Vegetables	100	16	-
Other crops	25	10	-
Hybrid crops	-	-	-
Total	**260**	**80**	-
Livestock & Fisheries	20	-	20
Other enterprises	-	-	-
Total	**20**	**-**	**20**
Grand Total	**280**	**80**	**20**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops			
Livestock	2	20	20
Various enterprises			
Total			
Technology Refined			
Crops	1	3	3
Livestock			
Various enterprises	1	5	5
Total			
Grand Total	**4**	**28**	**28**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	633	4340
Other extension activities	2261 (Telephonic help line)	2261
Total	**2894**	**6601**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Tota l
	Text only	-	-	-	-	-	-	-
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	-	-	-	-	-	-	-
	Total farmers Benefitted	-	-	-	-	-	-	-

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	166.5	2247750/-
Planting material (No.)	7000	2500/-
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	2908	696819
Water	103	5150
Plant	150	0
Total	**3161**	**701969**

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	1
2	Conferences	1
3	Meetings	15
4	Trainings for KVK officials	5
5	Visits of KVK officials	5
6	Book published	1
7	Training Manual	0
8	Book chapters	1
9	Research papers	5
10	Lead papers	0
11	Seminar papers	2
12	Extension folder	0
13	Proceedings	1
14	Award & recognition	2
15	On going research projects	0