ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2020
KRISHI VIGYAN KENDRA
JAU, PORBANDAR (GUJARAT)
(January 2020 to December 2020)

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)
	Office	FAX		
Krishi Vigyan Kendra Junagadh Agricultural University Opp. Saint Joseph School, Adityana Road Khapat – Porbandar – 360 579 (Gujarat)	94089 03062	-	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 – 362 001 (Gujarat)	0285-2671784 0285-2672080-90	0285-2672004 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	94089 03062	098252 80843	rkodedra@jau.in

1.4. Year of sanction: February, 2005

1.5. Staff Position (as on 31 December, 2020)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Pay Band	Current Grade Pay		
1	Senior Scientist and Head (I/C)	R. K. Odedra	Pl. breeding & Genetics	131400-217100	-	01-06-2009	-
2	Subject Matter Specialist	D. S. Thakar	Home Science	68900-205500	-	22-08-2006	-
3	Subject Matter Specialist	H. A. Patel	Animal Hus.	57700-182400	-	06-04-2015	-

4	Subject Matter Specialist	V. M. Savaliya	Horticulture	57700-182400	-	01-08-2017	-
5	Subject Matter Specialist	Dr.H.N.Der	Agronomy	57700-182400	-	01-09-2020	-
6	Subject Matter Specialist	Vacant	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-	-
8	Programme Assistant	D.N.Hadiya	-	38090 (Fix)	-	07-08-2018	-
9	Computer Programmer	J.J.Naliyapara	-	39900-126600	-	12-06-2008	-
10	Farm Manager	A.M.Gamit	-	38090 (Fix)	-	02-08-2018	-
11	Accountant/Superintendent	B.S.Bokhiriya	-	39900-126600	-	12-06-2008	-
12	Stenographer	Vacant	-	-	-	-	-
13	Driver 1	Vacant	-	-	-	-	-
14	Driver 2	Vacant	-	-	-	-	-
15	Supporting Staff 1	Vacant	-	-	-	-	-
16	Supporting Staff 2	Vacant	-	-	-	-	-

1.6. Total land with KVK (in ha) : 20.59

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	2007	588	30,78,850	-	-	Completed

2	Farmers Hostel	ICAR	2008	288	21,02,300	-	-	Completed
3	Staff Quarters (6)	ICAR	2007	446	28,38,616	-	-	Completed
4	Demonstration Units (2)	ICAR	2017	-	-	-	-	Completed
5	Fencing	ICAR	2009	500 RM	-	-	-	Completed
6	Rain Water harvesting system	ICAR	2009	-	10,00,000	-	-	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	3,80,000	59102 hrs	Medium
Scorpio Jeep	2017	11,86,893	54085	Good
Moror cycle (Hero – Splendor)	2010	47,000	26158	Good

C) Equipments & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
LCD projector	2008-09	1,00,000	Running
Zerox machine	2008-09	1,24,000	Running
R.O. plant	2008-09	24,450	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	1,03,912	Running
Multi purpose groundnut cum wheat thresher	2008-09	1,14,000	Running
Cotton shredder	2008-09	2,42,000	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	16,85,000	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 of SAC meetings conducted in the year 2020

Date	Sr. No.	Name and Designation of Participants	Salient Recommendations	Action taken
12th February, 2020	1	Dr. V. P. Chovatia Hon'ble Vice Chancellor & Director of Research, JAU, Junagadh	**By Hon'ble Vice Chancellor**	
	2	Dr. B. K. Sagarka Director of Extension Education, JAU, Junagadh	➢ Check possibilities of organic wheat in *Ghed* area	➢ The same was studied
	3	Dr. R. K. Odedra I/C Senior Scientist & Head, KVK, JAU, Khapat-Porbandar	➢ Conduct FLDs on bee keeping in mango orchard	➢ FLDs were not conducted as limited availability of honey bee box
	4	Shri J. N. Parmar District Agricultural Officer, Porbandar	➢ Transfer FLDs on MDP in ATIC project	➢ FLDs were transferred but not conducted due to high price
	5	Shri K. B. Raval Dy. Director of Animal Husbandry, Porbandar	➢ Aware farmers about pink ballworm in every training	➢ The same was included in every trainings in area of cotton
	6	Shri R. S. Gohel Deputy Director Agriculture (Training), FTC, Porbandar	➢ Note the incidence of yellow vein mosaic in GAM-5, if seen	➢ Recommendation was implemented & incidence of yellow vein mosaic not observed
	7	Shri M. D. Odedra Rep. Deputy Director (Horticulture), Porbandar	➢ Conduct training on preparation of *Jivamrut/Dhanjivamrut*	➢ One training was conducted
	8	Shri P. J. Mahida Assistant Director of Fisheries, Porbandar	➢ Include training in Home Science on items prepared from mushrooms & on bakery items prepared from pearlmillet	➢ The same was included in the training
	9	Shri Arvindbhai Chavda Dy. Project Director, ATMA, Porbandar	➢ Study the effect of nitrogen on animals when used as feed	➢ Effect was studied & mentioned in the report
	10	Shri J. B. Gadhvi RFO, Porbandar	➢ One plot at KVK should be provided to natural farming	➢ One plot was already provided at KVK for the same
	11	Shri Murubhai Bhimabhai Godhaniya At: Advana; Ta. & Dist. Porbandar		
	12	Shri Maldebhai Savdasbhai Karavdra At: Ramgadh; Ta.: Ranavav; Dist.: Porbandar		

	13	Smt. Shital Malde Karavdara At: Ramgadh; Ta: Ranavav; Dist. Porbandar		
	14	Kum. Mina Dayalal Teriya At: Palakhada; Ta: Porbandar; Dist. Porbandar	**By Director of Extension Education**	
	15	Smt. Bhumika Dayalal Teriya At; Palakhada; Ta.: Porbandar; Dist.: Porbandar	➢ Soil analysis of each FLDs fields should be carried out ➢ Conduct FLDs on bulb rotting of onion in initial stage ➢ Mentioned farmer's feedback about varieties given in FLDs ➢ Mentioned the variety on which OFT of Agronomy discipline was taken & quantify the dose of fertilizer (DAP/Urea etc.) used by farmers; Recheck the dose of bio-fertilizers used as seed treatment	➢ Soil analysis were carried out for those FLDs under which seed was provided as input ➢ One FLD was conducted ➢ Feedbacks were mentioned ➢ Same were mentioned in the report
	16	Shri Nagabhai Devabhai Sundavadra At:Degam; Ta: &Dist. Porbandar		
	17	Shri Pratapbhai Jodhabhai Sundavadra At:Degam; Ta: &Dist. Porbandar		
	18	Shri Hasmukhbhai M. Chavda At: Gokran; Ta-Kutiyana; Di- Porbandar		
			By Dy. Director of Animal Husbandry	
			➢ Group of women were organized & trained for value addition of milk	➢ One training was included

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

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

S. No	Farming system/enterprise
1	Rainfed Farming System
2	Animal husbandry (Cattle/Buffalos)

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

a) Based on Soil

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:** 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:** 39.0° 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 area of jurisdiction of KVK (2019)

S. No	Crop	Area (ha)	Production (MT)	Productivity (q/ha)
1	Groundnut	83,100	2,01,933	24.30
2	Cotton*	9,400	38,374	6.94
3	Wheat	23,000	72,335	31.45
4	Cumin	30,200	31,721	10.50
5	Coriander	12,100	17,509	14.47
6	Gram	14,900	21,903	14.70
7	Green gram	4,600	3,979	8.65
8	Sesame (Summer)	4,600	3,864	8.40
9	Coconut**	710	6,269	8829
10	Mango	355	2,947	83.01

Source: District Agriculture Department, Porbandar

* Cotton- Production in bale of 170 kg each & productivity in lint (kg/ha)

**Coconut- Production in '000 nuts & productivity in no. of nuts/ha

2.5. Weather data (2020)

Month	Rainfall (mm)	Temperature ^{0}C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
Jan-2020	0	30.00	7.00	59.50	20.00
Feb-2020	0	34.00	9.80	76.00	20.00
Mar-2020	0	39.00	18.00	84.00	36.50
Apr-2020	0	40.00	17.00	84.50	46.00
May-2020	0	35.00	17.50	81.00	63.00
Jun-2020	288	36.40	26.00	92.00	67.00
Jul-2020	735	34.00	23.00	92.00	67.00
Aug-2020	596	34.00	15.50	92.00	65.50
Sep-2020	94	34.00	26.00	81.50	55.00
Oct-2020	4	34.50	24.00	81.00	52.50
Nov-2020	0	34.00	17.00	72.50	39.50
Dec-2020	0	34.00	9.50	71.50	31.00
Total	**1717**	-	-	-	-
Average	**-**	**34.90**	**17.50**	**80.63**	**46.92**

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

Category	Population	Production	Productivity
Cattle			
Crossbred	-	-	-
Indigenous	84,711	-	-
Buffalo	1,44,573	-	-
Sheep	21,675	-	-
Goats	17,891	-	-
Pigs			
Crossbred	-	-	-
Indigenous	-	-	-
Rabbits	-	-	-
Poultry			
Hens	2069	-	-
Desi	-	-	-
Category		Production (q)	Productivity
Fish (Reservoir)	11,748 (Fisherman)	9,50,000	-

2.7. Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problems identified	Identified Thrust Areas
Porbandar	Cluster I	Khapat Palkhada Rinavala Kuchhadi Degam	Groundnut Wheat Cumin Coriander Sorghum Gram	• White grub & stem rot in groundnut • Wilt & blight in cumin • Powdery mildew in coriander	• IPM (Management of white grub in groundnut) • INM • Improved package of practices • IDM (Management of stem rot in groundnut) • Poor quality water
Ranavav	Cluster II	Ramgadh Aaditpara Doltgadh Daiyar Pipliya	Groundnut Cotton Sorghum Wheat Cumin Pearl millet	• White grub & stem rot in groundnut • Pink ballworm & sucking pests in cotton • Wilt & blight in cumin	• IPM (Management of white grub in groundnut; pink ball worm in cotton) • INM • Improved package of practices • IDM (Management of stem rot in groundnut) • INM in Horticulture
Kutiyana	Cluster III	Choliyana Sindhpur Frer Gokran Hamadpara	Groundnut Cotton Castor Sorghum Wheat Cumin Gram	• White grub & stem rot in groundnut • Pink ballworm & sucking pests in cotton • Wilt & blight in cumin	• IPM (Management of white grub in groundnut; pink ball worm in cotton) • INM • Improved package of practices • IDM (Management of stem rot in groundnut) • 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
5	4	17	12	19	20	245	351

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
75	47	1860	1103	168	874	2945	3624

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
174	200	11000	7520

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

3.1. B. Operational areas details during the year 2020

S.No.	Major crops & enterprises being practiced in cluster of villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Name of Cluster Villages identified for interventions	Interventions (OFT, FLD, Training, extension activity etc.)*
1	Groundnut	• White grub & stem rot in groundnut	5500	Khapat Palkhada Rinavala Kuchhadi Degam	OFTs; Training; Ext. Activities
	Cumin	• Wilt & blight in cumin	950		FLDs; Training; Ext. Activities
	Coriander	• Powdery mildew in coriander	1600		FLDs; Training; Ext. Activities
	Cattle/ Buffalos	• Milk Fever & Mastitis	16745		OFTs; Training; Ext. Activities
2	Groundnut	• White grub & stem rot in groundnut	5500	Ramgadh Aaditpara Doltgadh Daiyar Pipliya	OFTs; Training; Ext. Activities
	Cotton	• Pink ball worm & sucking pest in cotton	950		FLDs; Training; Ext. Activities
	Cumin	• Wilt & blight in cumin	1600		FLDs; Training; Ext. Activities
	Cattle/ Buffalos	• Milk Fever & Mastitis	16745		OFTs; Training; Ext. Activities
3	Groundnut	• White grub & stem rot in groundnut	5500	Choliyana Sindhpur Gokran Farer Hamadpara	OFTs; Training; Ext. Activities
	Cotton	• Pink ball worm & sucking pest in cotton	2150		FLDs; Training; Ext. Activities
	Cumin	• Wilt & blight in cumin	950		FLDs; Training; Ext. Activities
	Cattle/ Buffalos	• Milk Fever & Mastitis	16745		OFTs; Training; Ext. Activities

* Support with problem-cause and interventions diagram

3.2. Technology Assessment (*Kharif*- 2020, *Rabi*- 2019-20, Summer -2020)

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	-	-	-	-	1	-	-	-	-	**1**
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	-	-	-	-	-	-	-	-	-	-
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
TOTAL	**-**	**1**	**-**	**-**	**1**	**-**	**-**	**-**	**-**	**2**

A2. 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*	2	-	-	-	-	**2**
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
TOTAL	**2**	**-**	**-**	**-**	**-**	**2**

*Same OFTs taken in Rabi-2019-20 & Kharif-2020. So, calculated two times

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Integrated Nutrient Management	Chili	Integrated nutrient management in Summer chili	3	3	1.2
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					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total	**-**	**-**	**6**	**6**	**2.4**

B.2. 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*	Cattle	Effect of supplementation of concentrates on milk production of *Gir* cow	6	6
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

*Same OFTs taken in Rabi-2019-20 & Kharif-2020. So, calculated two times

C1.Results of Technologies Assessed

Results of On Farm Trial -1

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
Chili	Irrigated	Low production in Summer chili	Integrated Nutrient Management in Summer chili	3	Integrated Nutrient Management	1. Yeild (kg/ha) 2. Economics	-	-	-	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)-150-50-00 (kg NPK/ha)	-	20.51	q/ha	352780	5.52
Technology option 2 (Recommended practice)-100-50-50 (kg NPK/ha)	JAU, Junagadh	21.45	q/ha	374950	5.96
Technology option 3 - RDF + spraying of banana pseudostem sap @ 1 % thrice. First spray at starting of flowering and another at 15 days intervals.	NAU, Navsari	22.09	q/ha	387390	6.06

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 - Integrated Nutrient Management in Summer chili
2 Problem Definition - Low production in Summer chili
3 Details of technologies selected for assessment - Integrated Nutrient Management
4 Source of technology - NAU, Navsari
5 Production system and thematic area - Chili, Integrated Nutrient Management
6 Performance of the Technology with performance indicators - Yield, Economics
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

Results of On Farm Trial -2

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 & heavy damage due to white grub	Management of whitegrub in groundnut	3	Integrated Pest Management	1. Yeild (kg/ha) 2. White grub population 3. Economics	Whitegrub population/m^2	T_1 – 3 T_2 – 1 T_3 – 1 T_4 - 1	Tech. was cheaper; easy to apply and effective to manage whitegrub	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)*	-	12.55	q/ha	18388	1.39
Technology option 2**	JAU, Junagadh	12.90	q/ha	21725	1.47
Technology option 3***	JAU, Junagadh	13.15	q/ha	23538	1.52
Technology option 4****	JAU, Junagadh	13.02	q/ha	22838	1.51

*** 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-1 -** Soil application of *Metarhizium anisopliae* @ 2.5 kg/ha at time of sowing
**** **Intervention-2 -** Soil application of *Beuveria bassiana* @ 2.5 kg/ha at 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 - Groundnut, 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

Results of On Farm Trial - 3

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**
Cattle	-	Low fat %, Financial loss	Effect of supplementation of concentrates on milk production of *Gir* cow	3	Nutrition Management	1. Milk yield 2. Income	-	9.68 177 Rs./animal/day	This tech. Increases milk yield	-	-

Contd..

Technology Assessed	Source of Technology	Milk Yield (lit/day)	Gross Cost (Rs/animal/day)	Net Profit (Rs/animal/day)	BCR
13	**14**	**15**	**16**	**17**	**18**
Farmers Practice - Control	-	7.74	258	97	1.37
Feeding of concentrated mixture		8.70	290	129	1.44
Feeding of concentrated mixture + Mineral mixture	Animal Nutrition Research Station, AAU, Anand	9.68	355	177	1.50

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 supplementation of concentrates on milk production of *Gir* cow
2 Problem Definition - Low fat %, Financial loss
3 Details of technologies selected for assessment - Nutrition management
4 Source of technology - Animal Nutrition Research Station, AAU, Anand
5 Production system and thematic area - Nutrition management
6 Performance of the Technology with performance indicators - Milk Yield(lit/day), 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

Results of On Farm Trial - 4

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
Cattle	-	Low fat %, Financial loss	Effect of supplementation of concentrates on milk production of *Gir* cow	3	Nutrition Management	1. Milk yield 2. Income	-	-	This tech. Increases milk yield	-	-

Contd..

Technology Assessed	Source of Technology	Milk Yield (lit/day)	Gross Cost (Rs/animal/day)	Net Profit (Rs/animal/day)	BCR
13	14	15	16	17	18
Farmers Practice - Control	-	-	-	-	-
Feeding of concentrated mixture	-	-	-	-	-
Feeding of concentrated mixture + Mineral mixture	Animal Nutrition Research Station, AAU, Anand	-	-	-	-

***Results awaited**

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 supplementation of concentrates on milk production of *Gir* cow
2 Problem Definition - Low fat %, Financial loss
3 Details of technologies selected for assessment - Nutrition management
4 Source of technology - Animal Nutrition Research Station, AAU, Anand
5 Production system and thematic area - Nutrition management
6 Performance of the Technology with performance indicators - Milk Yield(lit/day), 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

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 2020 and recommended for large scale adoption in the district

Sr No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Wheat	Varietal Evaluation	Improved variety – GJW-463	Trainings, FLDs	19	625	227
2	Wheat	INM	*Azatobacter* + PSB	Trainings, FLDs	21	189	153
3	Groundnut	Varietal Evaluation	Improved variety GJG-22	Trainings, FLDs & Field days	27	1025	1450
4	Gram	Varietal Evaluation	Improved variety GJG-3	Trainings, FLDs & Field days	29	2100	1700
5	Green gram	Varietal Evaluation	Improved variety GM -4	Trainings, FLDs	24	750	375
6	Cotton	IPM	Pheromone trap + *Beuveria bassiana*	Trainings, FLDs & Field days	20	950	2100
7	Cattle/buffalos	Nutrition management	Mineral mixture, Bypass fat	Trainings, FLDs	11	150	-

B. Details of FLDs implemented during 2020 (*Kharf*- 2020, *Rabi*- 2019-20, Summer- 2020)

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstrations			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Wheat	Varietal	GJW-463	*Rabi*–2019-20	4	4	-	10	10	Nil
2	Wheat	INM	$ZnSO_4$	*Rabi*-2019-20	8	8	-	20	20	Nil
3	Wheat	INM	*Azatobacter* + PSB	*Rabi*-2019-20	8	8	-	10	10	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					
Wheat	*Rabi*–2019-20	Irrigated	Medium black	Low	Medium	High	Groundnut	15-25/11/19	-	1326.8	35
Wheat	*Rabi*–2019-20	Irrigated	Medium black	Low	Medium	High	Groundnut	15-25/11/19	-	1326.8	35
Wheat	*Rabi*–2019-20	Irrigated	Medium black	Low	Medium	High	Groundnut	15-25/11/19	-	1326.8	35

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	INM in wheat is better than farmer's practice
2	Improved variety GJW – 463 gives higher yield as compare to variety grown by farmer
3	Length of spike is higher in GJW – 463

Farmers' reactions on specific technologies

S. No	Feed Back
1	Variety GJW-463 gives higher yield than GJW-496/ Lok-1
2	Chapati making from GJW-463 flour was also acceptable

Horticultural crops

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstrations			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Onion	INM	Sulphur–90 %	*Rabi*-2019-20	4	4	-	10	10	Nil
2	Mango	IPM	Fruit fly trap	*Rabi*-2019-20	4	4	-	10	10	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					
Onion	Rabi-2019-20	Irrigated	Medium Black	Low	Medium	High	Groundnut	10-25/12/19	-	1326.8	35
Mango	Rabi-2019-20	Irrigated	Red laterite	Low	Medium	High	-	-	-	1326.8	35

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Leads the farmers from traditional agriculture to scientific & sustainable agriculture by use of recommended practices
2	In case of Sulphur deficiency in soil; application is quite beneficial
3	Quality of mango was improved due to less infestation of fruit fly

Farmers' reactions on specific technologies

S. No	Feed Back
1	Quality of onion was good
2	Less infestation of fruit fly in mango

Oilseeds

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstrations			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Groundnut	Varietal	GJG-22	*Kharif* – 2020	4	4	-	10	10	Nil
2	Sesame	Varietal	GT-3	Summer-2020	-	4.4	-	11	11	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					
Ground nut	*Kharif* -2020	Rainfed	Medium Black	Low	Medium	High	Groundnut/ wheat/cumin	15-20/06/2020	-	1717	38
Sesame	Summer-2020	Irrigated	Medium black	Low	Medium	High	Groundnut/ wheat/cumin	15-20/02/2020	-	1326.8	35

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Improved variety of Groundnut GJG -22 is better than the Existing variety (GG-20) in production
2	Improved variety of sesame GT-3 is better performer

Farmers' reactions on specific technologies

S. No	Feed Back
1	Production of GJG-22 was higher
2	Higher oil percentage in GJG-22 preferred by oil miller
3	Sesame variety GT-3 is bold seeded, so fetches higher prices as compared to other varieties

Pulses

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstrations			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Green gram	Varietal	GM-4	Summer-2020	4	4	-	10	10	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					
Green gram	Summer-2020	Irrigated	Medium Black	Low	Medium	High	Wheat/ Cumin/ Coriander	25 to 28/02/20	-	1326.8	35

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Variety of greengram GM-4 is better performer than local varieties

Farmers' reactions on specific technologies

S. No	Feed Back
1	Increase production than local varieties

Commercial crops

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstrations			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Cotton	IPM	Pheromone trap and *Beuveria bassiana*	*Kharif*- 2020	10	10	0	25	25	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* -2020	Rainfed/ irrigated	Medium Black	Low	Medium	High	G. Nut/ Cotton	15-20/06/2020	-	1717	38

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Quality of lint was improved as less pink ball worm infestation occurs

Farmers' reactions on specific technologies

S. No	Feed Back
1	IPM (Pheromone trap and *Beauveria bassiana*) in cotton reduces pink ball warm damage

Analytical Review of component demonstrations

Crop	Season	Component	Farming situation	Average Yield (q/ha)	Local Yield (q/ha)	% increase in productivity over local check
Chickpea	*Rabi*-2019-20	HNPV + *Beauveria*	Rainfed	15.10	14.69	2.79
Sorghum (*Gundhri*)	Semi *Rabi*-2019-20	*Azatobactor* + PSB	Rainfed	14.22	13.91	2.23

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	2	-	67	-
2	Farmers Training	8	-	195	-
3	Media coverage	-	-	-	-
4	Training for extension functionaries	-	-	-	-

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut																		
	Varietal	Improved Variety	GJG-22	10	4	25.00	12.50	14.75	13.00	9.83	47228	77437	30209	1.64	47228	68250	21022	1.44
Sesamum																		
	Varietal	Improved Variety	GT-3	11	4.4	10.63	8.63	8.76	8.32	5.29	32670	66255	33585	2.03	33000	62180	29180	1.88

* 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	Improved Variety	GM-4	10	4	9.75	8.13	9.11	8.50	7.23	21000	59087	38087	2.81	21000	55097	34097	2.62

* 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

Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change 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)
					H	L	A										
Cereals																	
Wheat																	
	Varietal	Improved Variety	10	4	37.50	30.00	33.94	32.00	5.97	28300	60953	32653	2.15	28300	56431	28131	1.99
	INM	$ZnSO_4$	20	8	33.75	29.38	31.29	30.56	2.38	27500	53493	25993	1.95	28300	52252	23953	1.84
	INM	Biofertilizer	10	8	34.38	30.00	32.38	31.50	2.79	27000	56816	29816	2.10	28300	55281	26981	1.95
Onion																	
	INM	Sulphur-90%	10	4	265.0	225.0	246.6	238.88	3.27	95300	174266	78966	1.81	95000	159969	64949	1.68
Fruit crops																	
Mango																	
	IPM	Fruit fly trap	10	4	92.50	76.25	81.75	80.63	3.16	145000	457813	312813	3.16	150000	403125	253125	2.69
Commercial Crops																	
Cotton																	
	IPM	Pheromone trap + Beauveria bassiana	25	10	24.38	18.13	21.30	19.43	9.62	31500	97537	66037	3.10	33500	88831	55331	2.65

* 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 Nutri cereals

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										
Sorghum																		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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																	
	Disease management	Mineral mixture + Fenbendazole tablet	10	10	3050	2600	17.38	-	-	110000	168000	58000	1.52	95000	135000	40000	1.42
	Disease management	Mineral mixture + Fenbendazole tablet	10	10	Result Awaited												
Buffalo																	
	Nutrient management	Mineral mixture	20	20	2800	2400	16.67	-	-	105000	160000	55000	1.52	90000	120000	30000	1.33
	Nutrient management	Bypass fat	20	20	3100	2700	14.81	-	-	106000	160000	54000	1.51	92000	125000	33000	1.36
	Nutrient management	Mineral mixture	20	20	Result Awaited												
	Nutrient management	Bypass fat	20	20	Result Awaited												

* 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																
NIL																

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Drudgery reduction	Revolving milking stool	5	Relevance factor	Highly relevant	Medium relavant

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-2020*)	Kitchen Gardening	Improved varieties by JAU*	50	50/ crop	46.89	-	-	-	-	-	-	-	-	-	-	-	-
Kitchen Gardening (*Rab-2019-20i*)	Kitchen Gardening	Improved varieties by JAU**	50	50/ crop	59.20	-	-	-	-	-	-	-	-	-	-	-	-

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													
	-	-	-	-	-	-	-	-	-	-	-	-	-

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*	1	21	0	21	0	0	0	21	0	21
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	1	25	0	25	0	0	0	25	0	25
Micro Irrigation/irrigation										
Seed production*	1	0	0	0	0	0	0	0	0	0
Nursery management	1	18	0	18	2	0	0	20	0	20
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs	1	19	0	19	0	0	0	19	0	19
Fodder production	1	18	0	18	0	0	0	18	0	18
Total	**6**	**101**	**0**	**101**	**2**	**0**	**0**	**103**	**0**	**103**
Note-*Both trainings were included in same online training										
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	15	0	15	5	0	5	20	0	20
Others (Production technology)	1	23	0	23	0	0	0	23	0	23
Total (a)	**2**	**38**	**0**	**38**	**5**	**0**	**5**	**43**	**0**	**43**
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 (Value addition in Flowers & fruits)	1	19	0	19	0	0	0	19	0	19
Total (b)	**1**	**19**	**0**	**19**	**0**	**0**	**0**	**19**	**0**	**19**
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	21	0	21	0	0	0	21	0	21
Processing and value addition										
Others (pl specify)										
Total (f)	**1**	**21**	**0**	**21**	**0**	**0**	**0**	**21**	**0**	**21**
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**	**78**	**0**	**78**	**5**	**0**	**5**	**83**	**0**	**83**
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	0	15	15	0	7	7	0	22	22
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	2	40	0	40	2	0	2	42	0	42
Feed & fodder technology	1	0	22	22	0	0	0	0	22	22
Production of quality animal products	2	21	14	35	0	0	0	21	14	35
Others (pl specify)										
Total	**6**	**61**	**51**	**112**	**2**	**7**	**9**	**63**	**58**	**121**
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	27	27	0	0	0	0	27	27
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	0	0	0	22	22	0	22	22
Women empowerment	1	0	19	19	0	0	0	0	19	19
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**3**	**0**	**46**	**46**	**0**	**22**	**22**	**0**	**68**	**68**
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	8	21	29	0	0	0	8	21	29
Integrated Disease Management	1	11	5	16	0	0	0	11	5	16
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**2**	**19**	**26**	**45**	**0**	**0**	**0**	**19**	**26**	**45**
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										
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 (pl specify)										
Total										
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	**21**	**259**	**123**	**382**	**9**	**29**	**36**	**268**	**152**	**420**

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	16	0	16	5	0	5	21	0	21
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation	1	26	0	26	0	0	0	26	0	26
Integrated nutrient management										
Production of organic inputs										
Others (Production technology)	2	65	0	65	0	0	0	65	0	65
Total	**4**	**107**	**0**	**107**	**5**	**0**	**5**	**112**	**0**	**112**
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	23	0	23	0	0	0	23	0	23
Total (a)	**1**	**23**	**0**	**23**	**0**	**0**	**0**	**23**	**0**	**23**

b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	22	8	30	2	1	3	24	9	33
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)	**1**	**22**	**8**	**30**	**2**	**1**	**3**	**24**	**9**	**33**
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	15	3	18	0	0	0	15	3	18
Processing and value addition										
Others (pl specify)										
Total (f)	**1**	**15**	**3**	**18**	**0**	**0**	**0**	**15**	**3**	**18**
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)	**3**	**60**	**11**	**71**	**2**	**1**	**3**	**62**	**12**	**74**
III Soil Health and Fertility Management										
Soil fertility management	1	20	0	20	0	0	0	20	0	20
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	**1**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
IV Livestock Production and Management										
Dairy Management	3	53	2	55	0	0	0	53	2	55
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	2	42	0	42	0	0	0	42	0	42
Feed & fodder technology	1	0	23	23	0	0	0	0	23	23
Production of quality animal products										
Others (pl specify)										
Total	**6**	**95**	**25**	**120**	**0**	**0**	**0**	**95**	**25**	**120**
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	32	32	0	0	0	0	32	32
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies	1	0	26	26	0	0	0	0	26	26
Rural Crafts										
Women and child care	1	0	22	22	0	0	0	0	22	22
Others (pl specify)										
Total	**3**	**0**	**80**	**80**	**0**	**0**	**0**	**0**	**80**	**80**

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	23	22	45	0	0	0	23	22	45
Integrated Disease Management	1	25	0	25	0	0	0	25	0	25
Bio-control of pests and diseases	1	30	0	30	0	0	0	30	0	30
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**4**	**78**	**22**	**100**	**0**	**0**	**0**	**78**	**22**	**100**
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										
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 (pl specify)										
Total										
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	**21**	**360**	**138**	**498**	**7**	**1**	**8**	**367**	**139**	**506**

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	1	21	0	21	0	0	0	21	0	21
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	1	16	0	16	5	0	5	21	0	21
Integrated Farming	1	25	0	25	0	0	0	25	0	25
Micro Irrigation/irrigation										
Seed production*	1	0	0	0	0	0	0	0	0	0
Nursery management	1	18	0	18	2	0	0	20	0	20
Integrated Crop Management										
Soil & water conservation	1	26	0	26	0	0	0	26	0	26
Integrated nutrient management										
Production of organic inputs	1	19	0	19	0	0	0	19	0	19
Others (pl specify)	1	18	0	18	0	0	0	18	0	18

Total	**10**	**208**	**0**	**208**	**7**	**0**	**5**	**215**	**0**	**215**
Note-*Both trainings were included in same online training										
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	2	38	0	38	5	0	5	43	0	43
Others (Production technology)	1	23	0	23	0	0	0	23	0	23
Total (a)	**3**	**61**	**0**	**61**	**5**	**0**	**5**	**66**	**0**	**66**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	22	8	30	2	1	3	24	9	33
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (Value addition in Flowers & fruits)	1	19	0	19	0	0	0	19	0	19
Total (b)	**2**	**41**	**8**	**49**	**2**	**1**	**3**	**43**	**9**	**52**
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	36	3	39	0	0	0	36	3	39
Processing and value addition										
Others (pl specify)										
Total (f)	**2**	**36**	**3**	**39**	**0**	**0**	**0**	**36**	**3**	**39**
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)	**7**	**138**	**11**	**149**	**7**	**1**	**8**	**145**	**12**	**157**
III Soil Health and Fertility Management										
Soil fertility management	1	20	0	20	0	0	0	20	0	20
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	**1**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
IV Livestock Production and Management										
Dairy Management	4	53	17	70	0	7	7	53	24	77
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	4	82	0	82	2	0	2	84	0	84
Feed & fodder technology	2	0	45	45	0	0	0	0	45	45
Production of quality animal products	2	21	14	35	0	0	0	21	14	35
Others (pl specify)										
Total	**12**	**156**	**76**	**232**	**2**	**7**	**9**	**158**	**83**	**241**
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	2	0	0	59	0	0	0	0	59	59

diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	0	0	0	22	22	0	22	22
Women empowerment	1	0	19	19	0	0	0	0	19	19
Location specific drudgery reduction technologies	1	0	26	26	0	0	0	0	26	26
Rural Crafts										
Women and child care	1	0	22	22	0	0	0	0	22	22
Others (pl specify)										
Total	**6**	**0**	**126**	**126**	**0**	**22**	**22**	**0**	**148**	**148**
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	3	31	43	74	0	0	0	31	43	74
Integrated Disease Management	2	36	5	41	0	0	0	36	5	41
Bio-control of pests and diseases	1	30	0	30	0	0	0	30	0	30
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**6**	**97**	**48**	**145**	**0**	**0**	**0**	**97**	**48**	**145**
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										
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 (pl specify)										
Total										
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	**42**	**619**	**261**	**880**	**16**	**30**	**44**	**635**	**291**	**926**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops	1	0	20	20	0	3	3	0	23	23
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs	1	0	18	18	0	5	5	0	23	23
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	**2**	**0**	**38**	**38**	**0**	**8**	**8**	**0**	**46**	**46**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology	1	0	23	23	0	0	0	0	23	23
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**	**0**	**23**	**23**	**0**	**0**	**0**	**0**	**23**	**23**

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		
		M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops	1	0	20	20	0	3	3	0	23	23
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs	1	0	18	18	0	5	5	0	23	23
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	1	0	23	23	0	0	0	0	23	23
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	**3**	**0**	**61**	**61**	**0**	**8**	**8**	**0**	**69**	**69**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
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	1	0	77	77	0	16	16	0	93	93
Any other (pl.specify)										
TOTAL	**1**	**0**	**77**	**77**	**0**	**16**	**16**	**0**	**93**	**93**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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		
		M	F	T	M	F	T	M	F	T
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	1	0	77	77	0	16	16	0	93	93
Any other (pl.specify)										
TOTAL	**1**	**0**	**77**	**77**	**0**	**16**	**16**	**0**	**93**	**93**

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and										

implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Details of vocational training programmes carried out by KVKs for rural youth (4 or more days)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
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.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (Computer learning)	1	0	15	15	0	0	0	0	15	15
Total	**1**	**0**	**15**	**15**	**0**	**0**	**0**	**0**	**15**	**15**
Grand Total	**1**	**0**	**15**	**15**	**0**	**0**	**0**	**0**	**15**	**15**

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)	547	547	0	547
Diagnostic visits	26	98	5	103
Field Day	2	65	2	67
Group discussions	-	-	-	-
Kisan Ghosthi	-	-	-	-
Film Show	-	-	-	-
Self -help groups	-	-	-	-
Kisan Mela	2	1043	17	1060
Exhibition	-	-	-	-
Scientists' visit to farmers field	26	98	5	103
Plant/animal health camps	-	-	-	-
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	6	130	6	136
Method Demonstrations	-	-	-	-
Celebration of important days	15	976	0	976
Special day celebration	-	-	-	-
Exposure visits	-	-	-	-
Others (Farmers visit to KVK)	235	235	0	235
Others (Lectures delivered as a resource person)	15	397	0	397
Total	**874**	**3589**	**35**	**3624**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	3
Newspaper coverage	4
Popular articles	3
Radio Talks	0
TV Talks	0
Animal health amps (Number of animals treated)	0
Social Media (No. of platforms Used)	0
Others (News letter)	4
Total	**14**

3.6 Online activities during year 2020

S. No.	Activity Type	Mode of implementation	Title of Program	No. of Programmes	No. of Participants/ Views
A. Farmers training					
1		Google meet	Weed Management practices in important *Kharif* crops	1	21
2		Google meet	Seed production in major *kharif* crops	1	21
3		Google meet	Information about New Farmer's Act,2020	1	130
4		Google meet	Production of organic fruits	1	33
5		Google meet	Advances in production technology of groundnut, cotton and INM	1	35
	Total			**5**	**240**
B. Farmers scientist's interaction programme					
1	-	-	-	-	-
	Total	-	-	-	-
C. Farmers seminars					
1	-	-	-	-	-
	Total	-	-	-	-
D. Expert lectures					
1		Google meet	Lecture on World environment day	1	27
	Total	-	-	**1**	**27**
E. Any other (Pl. specify)					
1	Video uploaded	Youtube	New Farmer's Act,2020	1	-
	Total	-	-	**1**	-
	Grand Total (A+B+C+D+E)	-	-	**7**	**267**

3.7. 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	-	39.05	81541	-
Oilseeds						
	Groundnut	GG-20	-	125.2	1250625	-
		GJG-17	-	24.29	308877	-
		GJG-22	-	11.85	147922	-
Total	-	-	-	200.39	1788965	-

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
Vegetable seedlings						
	Brinjal	GJLB-4; GJB-3	-	3800	1900	122
	Tomato	JT-3	-	3720	1860	98
Total	-	-	-	**7520**	**3760**	**220**

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity kg	Value (Rs.)	No. of Farmers
Bio Fertilizers	-	-	-	-
Total	-	-	-	-

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals	**-**	**-**	**-**	**-**
Total	**-**	**-**	**-**	**-**

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

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

KVK Newsletter (Date of start) – 01.04.2020
Periodicity – Every quarter

B. Literature developed/published

Item	Title	Authors name	Number
Research papers	-	-	-
Technical reports	Annual Progress Report-2019-20	-	-
	SAC Report-2019-20	-	-
News letters	JAU News Letter (Total -4)	-	-
Technical bulletins	-	-	-
Popular articles	*Ful pakoma mulyvardhan*	V.M.Savaliya; Dr.B.V.Thummar; Dr.S.J.Sindhi & Dr.J.V.Chovatia	

	Ambama Paknu Ujjaval Bhavishy	V.M.Savaliya; Dr.S.J.Sindhi; Dr.B.V.Thummar; Dr.J.V.Chovatia & H.M.Delvadiya	
	Silage (Lila ghaschara nu athanu)	Dr.H.A.Patel; Dr.R.K.Odedra & V.M.Savaliya	
Extension literature	*Sajiv Kheti Padhdhti*	Dr.S.J.Sindhi; V.M.Savaliya & Dr.R.K.Odedra	1000
	Kheti kharch ghatado nafo vadharo	V.M.Savaliya; Dr.S.J.Sindhi; Dr.R.B.Vadher & Dr.R.K.Odedra	1000
	Ful pakoma mulyvardhan	V.M.Savaliya; Dr.J.V.Chovatia; Dr.R.B.Vadher & Dr.R.K.Odedra	1000
Others (Pl. specify)	-	-	-
TOTAL	**12**	**-**	**3000**

C. Details of Electronic Media Produced

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

D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel	-	-
2	Facebook page/ Account	-	-
3	Mobile Apps	-	-
4	WhatsApp groups	**3**	**94**
5	Twitter Account	-	-
6	Any other (Pl. Specify)	-	-

D. Success Stories / Case studies, if any

1. Success Story – 1 – Natural farming

Name of Farmer Rambhai Khimabhai Karavadara

Mobile No. 9265918362

Village Name Kunvadar

Block/Taluka/Mandal Porbandar

District Porbandar

State Gujarat

Formulation prepared

1. FYM - FYM prepared at farm level with waste decoposer
2. Bio-fertilizer - Farmer uses waste decomposer as a bio fertilizer
3. Pesticides - *Agniastra*
   Bramhastra
   Dasparni ark

Cultural practices

a. Seed treatment - *Jeevamrut* & Waste decoposer

b. Irrigation practices

Crop	No. of Irrigation	Irrigation System Adopted	Stages of Irrigation
Groundnut	As per requirement	Sprinkler/Drip	Peg formation/Pod development
Wheat	8	Flood	Crown root initiation, late tillering, late jointing, flowring, milk & dough stage

c. Nutrient management of Soil Fertility

Name	Material & method of natural formulation for fertility management	Quantity (t/ha)
FYM	Dung; farm waste & waste decomposer	11.08

d. Biofertilizer application

Name of fertilizer	Material & method of natural formulation for control	Quantity (litre/ha)
Waste decoposer	Applied with irrigation	300 - 1000

e. Plant protection practices

Name of pest/diseases	Material & method of natural formulation Recommendation for control	Quantity (litre/ha)
Helicoverpa *Heliothis* Sucking pests (thrips, aphids)	*Agniastra* *Bramhastra* *Dasparni ark*	200-300 ml/15 litre water – initial 1 lit/15 litre water – at final stage

Yield & Economics

1. Groundnut

Parameters	2017	2018	2019
Economic yield (kg/ha)	2800	2600	2700
Cost of cultivation (Rs/ha)	35000	35000	35000
Net returns (Rs/ha)	141400	134000	145900
Price (Rs/kg)	60-65	60-70	65-70

2. Wheat

Parameters	2017	2018	2019
Economic yield (kg/ha)	5500	6000	6250
Cost of cultivation (Rs/ha)	26000	26000	26000
Net returns (Rs/ha)	150000	166000	205250
Price (Rs/kg)	30-35	30-35	35-40

2. Success Story -2 – Income generation through plug tray nursery

Name of Farmer Bhaveshbhai Odedra

Mobile No. 9904913787

Village Name Adityana

Block/Taluka/Mandal Porbandar

District Porbandar

State Gujarat

Introduction

Bhaveshbhai Odedra is a small farmer of Adityana village of Porbandar district having only 1.0 ha land. In year 2020, due to high rainfall in this area, his farm was flooded with water causing complete failure of *Kharif* season.

He started raising seedlings of various vegetables for extra income. He produces seedlings of brinjal, tomato, chili, cabbage & onion on his farm; mostly on flat bed. But, last year he started using plug tray plates for raising seedlings of chili, brinjal & tomato.

He also cultivates vegetables on natural farming concept.

Economics

Crop	No. of seedling produced	Gross Cost	Gross Return	Net Return
Brinjal	25000	16250	25000	8750
Tomato	25000	16250	25000	8750
Chili	40000	32000	60000	28000
Chili-Plug tray	3000	3000	7500	4500
Total	93000	67500	117500	50000

3. Success Story -3 - Self-employment by professional training course

Name of Farmer : Ms. Trupti Ramjibhai Dhokiya

Village : Choliya, Tal. Kutiyana, Dist.: Porbandar, Gujarat

Education : MBA in Agri business

Age : 27 years

Ms. Truptiben is in regular contact of this KVK and actively participating in the training programs and other activities of the KVK.

Truptiben did a Beauty parlor course and also taught and guided the other 20 girls and she also started her own business. After participating in the course, Truptiben was highly inspired to start the beauty parlor business for earning extra income. She is getting Rs.50,000/- to 60,000/- in marriage season. She is also inspiring the other trainee girls to start the business. She not only started her own business but also inspired other girls to start and take a step for themselves. Truptiben not only joined and participated in training course of Beauty parlor and started her business but she also guided and inspired other 20 girls of her group for starting this business.

In addition, she also runs tailoring class and she is doing tailoring herself and earns Rs. 2000 per month. Thus Ms. Truptiben has set an example for the other women of the district and inspired them to do such kind of activities.

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

NIL

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
-	-	-	-

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

A. Practicing Farmers

a) Nil

B. Rural Youth

a) **Nil**

C. In-service personnel

a) Nil

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) Field level observations

For FLD:

i) New variety/technology

ii) Poor yield at farmers level

iii) Existing cropping system

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) – 2018-19

Sr No	Taluka	Name of the block	Name of the village
1	Porbandar	Cluster I	Khapat Palkhada Rinavala Kuchhadi Degam
2	Ranavav	Cluster II	Ramgadh Aaditpara Doltgadh Daiyar Pipliya
3	Kutiyana	Cluster III	Choliyana Sindhpur Frer Gokran Hamadpara

ii. No. of farm families selected per village :

iii. No. of survey/PRA conducted : 15

iv. No. of technologies taken to the adopted villages: 21

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	

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.)
ATIC	April, 2014	State Govt.	2022000

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**	**-**	**2**	**0**	**-**
02	**Research projects**	**-**	**-**	**-**	**-**
03	**Training programmes**	**-**	**3**	**2**	**-**
04	**Demonstrations**	**-**	**-**	**-**	**-**
05	**Extension Programmes**	**-**	**-**	**-**	**-**
	KisanMela	**-**	**1**	**1**	**-**
	Technology Week	**-**	**-**	**-**	**-**
	Exposure visit	**-**	**-**	**-**	**-**
	Exhibition	**-**	**-**	**-**	**-**
	Soil health camps	**-**	**-**	**-**	**-**
	Animal Health Campaigns	**-**	**-**	**-**	**-**
	Others (Extension programme)	**-**	**1**	**-**	**-**
06	**Publications**	**-**	**-**	**-**	**-**
	Video Films	**-**	**-**	**-**	**-**
	Books	**-**	**-**	**-**	**-**
	Extension Literature	**-**	**-**	**-**	**-**
	Pamphlets	**-**	**-**	**-**	**-**

	Others (Pl. specify)	-	-	-	-
07	**Other Activities** (Pl.specify)	-	-	-	-
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	-	-	-	-

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
-	-	-	-	-	-

G. Details of linkage with PKVY (*Paramparagat Krishi VikasYojana*)

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

H. Details of linkage with NFSM

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

I. Details of linkage with SMAF (Sub-mission on Agroforestry)

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

- ✓ Groundnut variety –GJG-22 gave higher yield (~8-10%) as compared to GG-20
- ✓ The lustre of seed var. GJG-6 was somewhat dim as compared to Digvijay
- ✓ Chickpea variety GJG-6 have good vegetative growth as compared to Digvijay in current season
- ✓ Wheat var. GJW-463 have higher tillering than other local check varieties
- ✓ Application of sulphur-(90%) increase quality as well as yield in onion
- ✓ Application of *Beauveria bassiana* + HNPV effectively control pod borer in chickpea
- ✓ Use of mineral mixture & bypass fat increases milk yield

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
- Incidence of rugose spiralling whitefly was observed in Porbandar district

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

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. 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 during2020: No
If Yes

Period of observing Technology Week: From to
Online / Offline:
Total number of farmers visited :
Total number of agencies involved :
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			
Lectures organized			
Exhibition			
Film show			
Fair			
Farm Visit			
Diagnostic Practicals			
Supply of Literature (No.)			
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			

12. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
-	-	-	-	-

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

NIL

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

NIL

13. *Kisan* Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2020	-	-	-
Feb 2020	-	-	-
March 2020	-	-	-
April 2020	-	-	-
May 2020	-	-	-
Jun 2020	-	-	-
Jul 2020	-	-	-
Aug 2020	-	-	-
Sept 2020	-	-	-
Oct 2020	-	-	-
Nov. 2020	-	-	-
Dec. 2020	-	-	-

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

14. PERFORMANCE OF INFRASTRUCTURE IN KVK

A. Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-	-	-

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

Name of the crop	Date of sowing	Area (ha)	Details of production			Amount (Rs.)		Remark
			Variety	Type of Produce	Qty (kg)	Cost of inputs	Gross income	
Pulses								
Green gram	04-03-2020	0.4	GM-4	Seed	138	-	-	-
Green gram	04-03-2020	0.4	GAM-5	Seed	150	-	-	-
Black gram	04-03-2020	0.4	GU-2	Seed	168	-	-	-
Oilseeds								
Groundnut	25-06-2020	10	GG-20	Seed	-	-	-	-
Groundnut	26-06-2020	2	GJG-22	Seed	-	-	-	-
Groundnut	26-06-2020	1	GJG-17	Seed	-	-	-	-
Sesame	06-03-2020	0.4	GJT-5	Seed	72	-	-	-

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

Sl. No.	Bio Products	Name of the Product	Qty (kg)	Amount (Rs.)		Remarks
				Cost of inputs	Gross income	
	Bio-Fertilizers	-	-	-	-	-
	Bio-Fungicides	-	-	-	-	-
	Bio-pesticides	-	-	-	-	-
	Bio-Agents	-	-	-	-	-

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)
January 2020	-	-	-
February 2020	-	-	-
March 2020	-	-	-
April 2020	-	-	-
May 2020	-	-	-
June 2020	-	-	-
July 2020	-	-	-
August 2020	-	-	-
September 2020	-	-	-
October 2020	-	-	-
November 2020	-	-	-
December 2020	-	-	-

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 sprinker	2	2	-	110	2	-	10 ha

H. Performance of Nutritional Garden at KVK farm

If Nutritional Garden developed at KVK farm/Village Level? Yes

If yes,
Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
0.16	Vegetable crops	8	107

Nutritional Garden developed at Village Level

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
	Vegetable crops	-	-
	Fruit crops	-	-
	Others if any	-	-

H. Details of Skill Development Trainings organized

S.No.	Name of KVKs/SAUs/ICAR Institutes	Name of QP/Job role	Duration (hrs)	No. of participants					
				SCs/STs		Others		Total	
				Male	Female	Male	Female	Male	Female
-	-	-	-	-	-	-	-	-	-

15.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 2020-21 (Rs. in lakh) (Till Dec, 2020)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	4900000	2720000	4034981
2	**Traveling allowances**	10000	-	-
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	900000	332500	500692
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)	**5810000**	**3052500**	**4535673**
B. Non-Recurring Contingencies				

1	**Works**	-	-	-
2	**Equipments including SWTL & Furniture**	-	-	-
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	-	-	-
4	**Library** (Purchase of assets like books & journals)	-	-	-
TOTAL (B)		-	-	-
C. REVOLVING FUND		-	-	-
GRAND TOTAL (A+B+C)		**5810000**	**3052500**	**4535673**

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 2018 to March 2019	33.96	40.49	26.01	48.44
April 2019 to March 2020	48.44	30.53	22.12	56.85
April 2020 to December, 2020	56.85	19.48	18.17	58.16

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/Offline)	Dates
Dr.H.A.Patel	Scientist	Recent extension Approaches for effective transfer of technology	JAU, Junagadh	Offline	07th to 9th January, 2020
V.M.Savaliya	Scientist	Recent extension Approaches for effective transfer of technology	JAU, Junagadh	Offline	07th to 9th January, 2020
V.M.Savaliya	Scientist	Post COVID-19 Agribusiness: Challenges & opportunities	JAU, Junagadh (Online)	Online	13th to 14th June, 2020
Dr.R.K.Odedra	Senior Scientist & Head	APR-Workshop	Online	Online	24th to 26th July, 2020
V.M.Savaliya	Scientist	Nuetracetical from flower crops	Annamalai Uni.(Online)	Online	4th August, 2020
V.M.Savaliya	Scientist	Flower seed production - Challenges & opportunities	Annamalai Uni.(Online)	Online	5th August, 2020
Dr.S.J.Sindhi	Scientist	Bio pesticides- Green technology in sustainable agriculture	NAU, Navsari	Online	18th August, 2020
Dr.S.J.Sindhi	Scientist	*Kharif pakoma pravartman pak sarkshan na prashno ane nirakaran*	NAU, Navsari	Online	20th August, 2020
V.M.Savaliya	Scientist	*Shiyalu shakbhaji pakoma paksarakshan*	AAU, Anand	Online	6th October, 2020
Dr.H.N.Der	Scientist	Online national quiz on food, nutrition & agriculture	JAU, Junagadh	Online	16th October, 2020
V.M.Savaliya	Scientist	*Sajiv khetima pak sarankshan*	PPAG & AAU, Anand	Online	27th October, 2020
Dr.H.N.Der	Scientist	*Sajiv khetima pak sarankshan*	PPAG & AAU, Anand	Online	27th October, 2020

Dr.H.N.Der	Scientist	Harnessing the potential of tropical tuber crops under changing climate	ICAR-CTCRI	Online	27th October, 2020
V.M.Savaliya	Scientist	*Shiyalu pakoma poshan vyavsthapan*	AAU, Anand	Online	9th November, 2020
Dr.H.N.Der	Scientist	*Shiyalu pakoma poshan vyavsthapan*	AAU, Anand	Online	09th November, 2020
Dr.H.N.Der	Scientist	Recent trends in vertebrate pest management	NIPHM, Hyderabad	Online	23rd November, 2020
Dr.H.N.Der	Scientist	*Sajiv kheti - takav kurshi no vaigyanik abhigam*	NAU, Bharuch	Online	25th November, 2020
Dr.H.N.Der	Scientist	Recent trends in biosecurity; international & national perspectives	NIPHM, Hyderabad	Online	04th December, 2020
Dr.H.N.Der	Scientist	Status & strategies for farm mechanization in India	JAU, Junagadh	Online	24th December, 2020

17. Details of progress in Doubling Farmers Income (DFI) villages adopted by KVKs

Name of the village	Total No. of families surveyed	Key interventions implemented	No. of farmers covered in each intervention	Change in income (Rs/unit)	
				Before	After
Degam	10	➢ Bench mark survey regarding farmers status were done ➢ 3 FLDs on relevant technologies & seed of improved varieties were provided to the farmers ➢ 2 OFTs were also given in Degam village on recent technologies ➢ 5 ON & OFF campus trainings were conducted	OFTs- 6 farmers FLDs – 15 farmers Training – 52 farmers	320608	378400
Choliyana	10			514128	590500

18. Details of activities planned under NARI /PKVY / TSP / KKA, etc.

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered
-	-	-	-	-	-

19. Details of Progress of ARYA Project

Name of Enterprise	No of Training Conducted	No of Beneficiaries	No of Extension Activities	No of Beneficiaries	No of Unit established	Change in income		No. Of Groups Formed
						Before	After	
NA								

20. Details of SAP

S. No.	Types of major Activity conducted- SwachhtaPakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
1	*Swachhta* week	5	67
2	*Swachhta Pakhwada*	15	257

21. Please include any other important and relevant information which has not been reflected above

A) Celebration of Republic Day

The **Republic Day** was celebrated at Krishi Vigyan Kendra, Porbandar. The staff member of KVK & COA remained present on this occasion. Dr.R.K.Odedra, Senior Scientist & Head unfurl the tricolor flag with salute to our national flag & sang our national anthem.

B) Celebration of World Environment Day

"World Environment Day" was celebrated at Krishi Vigyan Kendra, Porbandar through online webinar on date – 5th June, 2020. The speaker for the event is Dr. M. B. Tandel, Asst. Professor, ASPEE College of Forestry, NAU, Navsari. He delivered lecture on **Imprortance of Forest in Enviornment**. Total 27 (21-male & 6-female) participants and staff member took part in this webinar.

C) Celebration of International Day of Yoga

"International Day of Yoga" was celebrated at Krishi Vigyan Kendra, Porbandar on 21st June, 2020. The staff members of Krishi Vigyan Kendra; College of Agriculture & Cotton Research Station were participated in this event. Due to COVID-19 pandemic, they did yoga session in the morning at their homes. Total 16 members were participated in this event.

D) Celebration of Independence Day

The Independence Day was celebrated at Krishi Vigyan Kendra, Porbandar. The staff member of KVK & COA remained present on this occasion. Dr.R.K.Odedra, Senior Scientist & Head unfurl the tricolor flag with salute to our national flag & sang our national anthem.

E) Celebration of *Parthenium* Awareness Week

***"Parthenium* Awreness Week"** was celebrated at Krishi Vigyan Kendra, Porbandar from 16th to 22nd August, 2020. Activities related to awareness about *parthenium*, a 'noxious weed' were carried out on different days of the week. Activities like awareness training on *parthenium*; uprooting of *parthenium* from campus; chemical control of *parthenium* etc. were carried out. Total 77 (39-male & 38-female) farmers & farmwomen as well as staff members were participated during whole activities.

F) Live Webcast Of Inauguration Of Administrative Building At Jhansi By Hon'ble PM

An Inauguration of Administrative Building at Rani Lakshmi Bai Central Agricultural University, Jhansi was done by our Hon'ble PM Shri Narendrabhai Modi on 29th August, 2020. On this occasion, live webcast was organized to attend this programme. Staff member of Krishi Vigyan Kendra, Porbandar & farmers of Porbandar district were joined this programme through online platform. Total 39 participants from this campus were attending this event through webinar.

G) Celebration of *Poshan Maah*

The whole September was celebrated as ***"Poshan Maah".*** Different activities related to *Poshan Abhiyan* of Govt. of India were carried out at Krishi Vigyan Kendra, Porbandar. Awreness about balanced nutrition in health;

development of nutritional garden at KVK campus; off campus training of women about nutrition etc. were carried out. A mega event of creating awareness of *Anganwadi* Worker & about nutrition was carried out on 17th September, 2020. Seeds of vegetables were also distributed to them in association with IIFCO. 105 women (91 – *anganwadi* worker & 14 farmwomen) were participated in this event. Total 284 (157-male & 127-female) participants were involved in whole activities carried throughout month.

H) COVID-19 *Jan Andolan*

As we all know COVID-19 is a pandemic that hit our daily life as well as economy adversely. In this pandemic time, to aware people about COVID-19 & its effect, Krishi Vigyan Kendra, Porbandar run this COVID-19 *Jan Andolan* on 8th October, 2020. On this occasion, oath taking was done by staff of KVK & COA, Khapat to maintain social distance & taking all necessary precautions. Dr.R.K.Odedra, Senior Scientist & Head, KVK, Khapat take one lecture on detrimental effects of this pandemic. Total 31 (29-male & 2-female) participants were participated in this programme.

I) Celebration of *Mahila Kisan Divas*

"Mahila Kisan Divas" was celebrated at Krishi Vigyan Kendra, Porbandar on 15th October, 2020. Debate competition on nutritional diet was carried out amongst participants. Moreover, an essay competition was also organized amongst participants. Total 37 farmwomen were participated in this programme.

J) Celebration of Vigilance Awareness Week

"Vigilance Awareness Week" was celebrated at Krishi Vigyan Kendra, JAU, Porbandar from 28th October to 2nd November, 2020. Various activities were undertaken by KVK on behalf of this programme like display banner of Vigilance Awareness at public places; aware people about corruption and its detrimental effect on our economy; organize debate competition among rural youth etc. Staff of KVK & COA, Porbandar actively participated in this programme.

K) Celebration of Constitution Day

The constitution day was celebrated at Krishi Vigyan Kendra, Porbandar on 26th November, 2020. The preamble of our constitution was read by staff of KVK & COA, Porbandar. All staff have watched the live webcast of speech of our Hon'ble PM on this day & tweeted about this event. Total 21 participants were present in this programme.

L) Celebration of World Soil Health Day

"World Soil Health Day" was celebrated at Krishi Vigyan Kendra, Porbandar on 5th December, 2020. Total 22 farmers participated in this event. On this occasion, soil health card was distributed to the farmers and various lectures on soil fertility and its health was delivered by COA & KVK staff of this campus.

M) Celebration Of Kisan & Vigyan Diwas And Live Webcast Of PM Programme

Live webcast of Hon'ble PM programme of releasing PM-KISAN next installment were organized at Krishi Vigyan Kendra, Porbandar. Moreover, ***"Kisan & Vigyan Diwas"*** was also celebrated at Krishi Vigyan Kendra, Porbandar on 25th December, 2020. Scientist interacts with the participants about how farmers & science are important

for our agriculture. Total 103 participants (57 farmers + 29 farmwomen+17 staff members) remain present in this programme. Staff of COA & KVK also remain present in this programme.

N) Celebration of *Swachhta Pakhwada*

As per ICAR guidelines, *Swachhta Pakhwada* was celebrated from 16th to 31st December, 2020 at Krishi Vigyan Kendra, Porbandar. In this event, daily *Swachhta* related activities were done on different aspects. Staff of Krishi Vigyan Kendra & College of Agriculture, Porbandar were participated in this activities. On this event various activities like display banner of *Swachhta Pakhwada* at public place in Porbandar; cleaning of office & its premices; sanitation drive at nearby village Khapat; *Swachhta* oath taking etc. were organized. Farmers & farmwomen were aware about *Swachhta* Mission & its importance on every event organized at KVK, Porbandar. Total 257 (241-male & 16-female) participants were took part in different activities.

O) 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	January to March-2020	8	179	8	179
2	April to June- 2020	0	0	0	0
3	July to September- 2020	0	0	0	0
4	October to December- 2020	5	109	5	109

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	42	635	291	926
Rural youths	3	0	69	69
Extension functionaries	1	0	93	93
Sponsored Training	0	0	0	0
Vocational Training	1	0	15	15
Total	**47**	**635**	**468**	**1103**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	21	8.4	-
Pulses	20	8	-
Cereals	40	20	-
Vegetables	10	4	-
Other crops	55	22	-
Hybrid crops	-	-	-
Total	**146**	**62.4**	-
Livestock & Fisheries	100	-	100
Other enterprises	105	-	105
Total	205	-	-
Grand Total	**351**	**62.4**	**205**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	2	2	6
Livestock	2	2	6
Various enterprises	-	-	-
Total	4	4	12
Technology Refined			
Crops	-	-	-
Livestock	-	-	-
Various enterprises	-	-	-
Total	-	-	-
Grand Total	**4**	**4**	**12**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	874	3624
Other extension activities	-	-
Total	**874**	**3624**

5. Mobile Advisory Services

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

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	200.39	1788965
Planting material (No.)	7520	3760
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	46	13800
Water	33	1650
Plant	-	-
Total	**79**	**15450**

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	3
2	Conferences	0
3	Meetings	0
4	Trainings for KVK officials	16
5	Visits of KVK officials	0
6	Book published	0
7	Training Manual	0
8	Book chapters	0
9	Research papers	0
10	Lead papers	0
11	Seminar papers	0
12	Extension folder	3
13	Proceedings	1
14	Award & recognition	0
15	On going research projects	0