ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVK MORBI DURING 2021
(January 2021 to December2021)

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, Morbi Dist: Morbi (Gujarat) – 363641	-	-	kvkmorbi@gmail.com	www.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 (Gujarat)	0285-2672080	0285-2672653	dee@jau.in	www.jau.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. L. L. Jivani	02822-224853	**94269 72590**	lljivani@gmail.com

1.4. Year of sanction: 2017 (Grant & Staff from March-2017)

1.5. Staff Position (as on 31 December, 2021)

					If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
No	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	Current Pay Band	Current Grade Pay	Date of joining	
1.	Senior Scientist and Head	Dr. Lalji L. Jivani	9426972590	Genetics & Plant Breeding	131400 - 217100	UL-13A	01/12/20	-
2.	Subject Matter Specialist	D. A. Saradava	9426784628	Plant Protection	57700 - 182400	UL-10	01/03/17	-
3.	Subject Matter Specialist	Smt. Hetal H. Padsumbiya	9979673732	Home Science	57700 - 182400	UL-10	01/04/21	-

4.	Subject Matter Specialist	Vacant	-	-	-	-	-	-
5.	Subject Matter Specialist	Vacant	-					
6.	Subject Matter Specialist	Vacant	-	-	-	-	-	-
7.	Subject Matter Specialist	Vacant	-	-	-	-	-	-
8.	Agriculture Officer	Gamansinh S. Zala	8780953478	B.Sc. Agri.	Fix Pay	Fix Pay	03/08/18	-
9.	Programme Assistant	Vacant	-	-	-	-	-	-
10.	Computer Programmer	R. R. Sida	-	B.C.A.	Fix Pay	Fix Pay	01/04/19	-
11.	Farm Manager	Vinuji V. Thakor	8155049089	B.Sc. Agri.	Fix Pay	Fix Pay	31/07/18	-
12.	Accountant / Superintendent	Niraj P. Vaidya	9377748176	B.Sc.	39900 - 126600	L - 7	01/03/20	-
13.	Stenographer	Vacant	-	-	-	-	-	-
14.	Driver 1	Vacant	-	-	-	-	-	-
15.	Driver 2	Vacant	-	-	-	-	-	-
16.	Supporting staff 1 & 2	Vacant	-	-	-	-	-	-

1.6. Total land with KVK (in ha) :26.2 ha. :

S. No.	Item	Area (ha)
1	Under Buildings and Road	2.0 ha
2.	Under Demonstration Units	1.8 ha
3.	Under Crops	8.0 ha
4.	Horticulture	Nil
5.	Others (Barren submerged under Machchhu-3 dam , Bund and Water drain)	14.4 ha
6.	**Total**	**26.2 ha**

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	KVK	2019-20	575.32	143.00 Lacs	-	-	-
2.	Farmers Hostel	KVK	2019-20	443.96	61.00 Lacs	-	-	-
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Demonstration Units (2)	SAU	2019-20	18.0	10000/-	-	-	-
5	Fencing	JAU	2017-18	4535	7,95,480/-	-	-	-
6	Rain Water harvesting system	-	2018-19	-	2,00,000/-	-	-	-
7	Threshing floor	JAU	2020-21	400	3,15,838/-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9	ICT lab	-	-	-	-	-	-	-
10	Other	SAU	2019-20	1.40 lac ltr.	4.6 Lacs	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor Mini Captain 9.5 H.P.	2005	165000/-	-	Working
Mahindra Bolero	2019	800000/-	29200 kms	Working

C) Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Computer System Acer 18.5	2017	34115/-	Working
Computer System Acer 18.5	2017	34115/-	Working
Printer MF 3010 canon	2017	10266/-	Working
Printer LBP 6230 canon	2017	8761/-	Working
Computer System SIS Agiledag-2277 LG	2010	24210/-	Working
Computer System Intel core i3 processor HCL		34596/-	Working
Printer MF 4350d canon		14327/-	Working
Xerox Machine RICHO Digital	2013	113755/-	Working
Computer system Acer	2009	31635/-	Working
Computer system Acer	2010	32270/-	Working
Printer Samsung	2013	4579/-	Working
Computer system Acer	2009	30968/-	Working
LG smart television	2021	189975/-	Working

1.8. Details of SAC meeting conducted in the year 2021

Date	Name and Designation of Participants	Salient Recommendations	Action taken
10/02/2021	Dr. V. P. Chovatia, Honorable Vice Chancellor, JAU, Junagadh.	Add quantity per trial 1kg of each pulse in OFT on "Preservation techniques of different pulses with organic methods".	One kilogram of pulses is given in each trial in this year
	Dr. H. M. Gajipara, Directorate of Extension Edn., JAU, Junagadh	More emphasis should be given to trainings on soil health and analysis of soil and water samples	Total 3 training organized in this year and total 200 soil sample tested and included in the action plan of year 2022
	Dr. D. S. Hirpara, Res. Sci. (DF), DFRS, JAU, Targhadia, Dist: Rajkot		
	Dr. G. R. Sharma, Principal, Polytechnic in Agril. Engg., JAU, Targhadia, Dist: Rajkot		
	Dr. B. B. Kabaria, Senior Scientist & Head, KVK, JAU, Targhadia, Dist: Rajkot		
	Dr. N. B. Jadav, Senior Scientist & Head, KVK, JAU, Pipalia (Dhoraji), Dist. Rajkot		
	Dr.. L. L. Jivani, Senior Scientist & Head, KVK, JAU, Morbi, Dist. Morbi		
	Dr. H. C. Chhodvadia, Asstt. Extension Educationalist, DEE office, JAU, Junagadh		

	Dr. Vikramsinh Chauhan District Agriculture Officer, Morbi, Dist. Morbi		
	Dr. H. D.Mehta Subject Matter Specialist, KVK- Morbi, Dist. Morbi		
	Prof. D. A.Saradava Subject Matter Specialist, KVK- Morbi, Dist. Morbi		
	Prof. Pinky Sharma, AEE, DEE office, JAU, Junagadh		
	Shri Kiran Patel, Reliance Foundation, Jasadan		
	Dr. B. K. Dubey, Deputy Director, NHRDF, Naranka, Rajkot		
	Dr. S. K. Tiwari, Technical Officer, NHRDF, Naranka, Rajkot		
	Ghansyamsinh J. Jadeja, Farmer,Khanpar, Morbi		
	Jethalal Amarshibhai Jetpariya, Farmer, Nasitpar, Morbi		

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK MORBI

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

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

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

a) Soil type

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

b)Topography

S. No.	Agro ecological situation	Characteristics
1	Situation No. 7	Plain & hilly areas in Wankaner Tehsil.
2	Situation No. 5	Plain costal region (saline) affected with desertification

2.3 Soil Types

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

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2020)

S. No	Crop	Area (ha)	Production (MT)	Productivity (q /ha)
1	Groundnut	89348	199968	1800
2	Cotton (Bt)	158027	251615	1497
3	Sesame	17652	8378	470
4	Castor	6585	17020	2154
5	Green gram	2116	1045	650
6	Black gram	1315	843	738
7	Vegetable	1942	44893	21501
8	Fodder	10165	234685	21721
9	Wheat	36040	168994	4441
10	Gram	42315	90188	1906

Source: District agriculture department.

2.5. Weather data (2021)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January	0	27.7	9.9	67.9	37.9
February	0	32.9	13.3	70.9	28.6
March	0	38.5	19.3	70.1	25.6
April	0	40.4	22.4	74.0	21.1
May	**0**	40.3	24.8	77.4	34.9
June	28	38.1	25.9	79.9	51.6
July	235.8	34.9	25.5	83.2	62.9
August	13	33.8	23.9	84.9	61.1
September	270.1	31.2	24.1	91.8	79.8
October	0	33.1	20.1	74.2	44.6
November	0	32.1	16.2	57.5	38.6
December	0	26.9	11.9	73.2	45.6
Total	**546.9**				

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

Category	Population	Production	Productivity
Cattle			

Crossbred	140476		12 lit/Day
Indigenous			
Buffalo	173285		17 lit/Day
Sheep	93747		
Goats	65880		
Pigs			
Crossbred			
Indigenous			
Rabbits	79		
Poultry			
Hens	1000000		3 kg/Bird
Desi			
Category		Production (Q.)	Productivity
Fish (Reservoir)			

2.7. Details of Operational area / Villages

Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Morbi	Chakampar Jivapar Dharampur Thorala Andarana	**Crops:** Groundnut, Cotton,Sesame, Wheat,Cumin, Chickpea,Onion, Garlic **Enterprises:** Dairy business, Vermi composting. Preparation of roasted groundnut and chikki from groundnut seeds	(1) Pink ball worm in cotton (2) Heavy infestation of sucking pests in cotton (3) *Phytopthora*disease in sesame (4) White grubs infestation in groundnut (5) Stem rot infestation in groundnut (6) Wilt and blight in cumin	(1) IPM and INM in major crops of this area (2) Increase drainage of soil (3) Motivate to farmers for arid horticultural crops (4) Efficient use of irrigation water (5) Judicious use pesticides
Tankara	Otala Saraya Neknam Lakhdhirgadh Bhutkotda	**Crops:** Groundnut, Cotton, Sesame, Wheat,Cumin, Chickpea,Onion, Garlic **Enterprises:** Vermi composting. Preparation of roasted groundnut and chikki from groundnut seeds	(1) Pink ball worm in cotton (2) Heavy infestation of sucking pests in cotton (3) *Phytopthora*disease in sesame (4) White grubs infestation in groundnut (5) Stem rot infestation in groundnut (6) Wilt and blight in cumin (7) Nutritional deficiency in animal feed and fodder (8) Less area under horticultural crops	(1)IPM and INM in major crops of this area (2) Increase the drainage of soil (3) Efficient use of irrigation water (4) Judicious use pesticides

Wankaner	Palas Panchdwarka Shekhradi Amarsar Pipaliya raj	**Crops:** Groundnut, Cotton,Sesame, Wheat,Cumin, Chickpea,Onion, Garlic **Enterprises:** Vermi composting. Preparation of roasted groundnut and chikki from groundnut seeds	(1) Pink ball worm in cotton (2) Heavy infestation of sucking pests in cotton (3) *Phytopthora*disease in sesame (4) White grubs infestation in groundnut (5) Stem rot infestation in groundnut (6) Wilt and blight in cumin (7) Nutritional deficiency in animal feed and fodder (8) Long inter calving period in buffalo (8) Less area under horticultural crops	(1) IPM and INM in major crops of this area (2) Reducing calving period in buffalo (3) Motivate to farmers for arid horticultural crops (4) Efficient use of irrigation water (5) Judicious use pesticides

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Groundnut, Sesame etc	Increasing the productivity of the major crops by adopting recommendation of dry farming technologies and to create awareness for value addition.
Water conservation	*In situ* soil moisture conservation and rainwater harvesting. Use of cotton stalk for organic manure.
Cotton	Motivating cotton growers to adopt IPM and INM practices for reducing the cost of production.
Women empowerment	Providing self employment through skill oriented income generating activities
Agriculture	Developing interest among youth for agriculture as a profession.
Horticulture	Value addition in agriculture produces through proper grading, processing, marketing and information technology.
Income generating activities	Self employment among rural youth and skill oriented income generating activities.
Nutrition management	Care and importance of nutrition in children & pregnant women.
Spices crop	Adopt recommended practice of IDM in spices crop i.e. cumin &ajwain.

3. TECHNICAL ACHIEVEMENTS

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

OFT	FLD

1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
4	4	16	16	9	9	80	80

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
50	57	1276	2303	-	158	-	6636

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
19.00	19.83	--	50

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

3.1. B. Operational areas details during the year 2021

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Bt. cotton	Sucking Pest, Para Wilt, Pink Boll Worm	1,12,000 ha	Halvad, Tankara, Wakaner, Morbi block	FLD on pink boll worm management.
					Training on pink boll worm management
2	Groundnut	White Grub Stem Root	42,000 ha	Tankara , Halvad block	OFT on White grub management in groundnut. Training on pest and Disease management in groundnut.
3	Cumin	Wilt and Blight	3900 ha	Morbi, Halvad, Maliya	FLD and OFT on Wilt management and also training for IDM in Cumin.
4	Pomegranate	Seed rot and nematode	1000 ha	Morbi, Halvad and Maliya	Training programmed and crop seminar

3.2. Technology Assessment (Kharif 2021, Rabi 2020-21, Summer 2021)

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation		1								1
Integrated Pest Management		1								1
Integrated Crop Management										
Integrated Disease Management				1						1
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique			1							1
Mushroom cultivation										
Total		**2**	**1**	**1**						**4**

A2. Abstract on the number of technologies assessed in respect of livestock enterprises : Nil

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

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 (Per trial covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation	Sesame	Assessment of new variety of sesame GT-5	3	3	0.4
Integrated Pest Management	Groundnut	Seed treatment with chlorpyriphos 20ec @ 25 ml/kg seed and Soil application of *metarhiziumanisoplii* @ 5 kg/ha with 300 kg/ha castor cake at the time of sowing	5	5	0.4
Integrated Crop Management					
Integrated Disease Management	Cumin	Application of Trichoderma @ 5 kg /ha with organic manure @1000 kg / ha at the time of sowing	3	3	0.4
Small Scale Income Generation Enterprises					

Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique	Green Gram and Chana dal	Storage with castor oil, Dray Neem leaves and plastic bag	5	5	-
Mushroom cultivation					
Total			**16**	**16**	**1.2**

B.2. Technologies assessed under Livestock and other enterprises : Nil

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

C1.Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Ground nut	Limited irrigation	Heavy infestation of white grub in ground nut	Management of White Grub in Groundnut crop	3	management of white grub in Groundnut	Yield and percentage of dry plant	Yield 2890 kg/ ha 3170 kg/ ha 3380 kg/ ha and T1 ,T2 , T3 percentage of dry plant 3.7% ,2.8% , 2.5%	9.68 percentage higher yield received over farmer practice in T2 where as 16.95 percentage Higher in T3 over farmer practice.	Application of Metarhizium anisoplii @ 5 kg/ha with 300 kg/ha castor cake at time of sowing is effective to reduce the infestation of white grub.	Nil	Nil
Cumin	Irrigated	Heavy incidence of wilt disease in cumin	Use of *Trichoderma* for wilt disease management in cumin	3	wilt management through *Trichoderma* treatment	Yield and Percentage of wilted plant	Yield T1 – 912kg/ ha T2 – 1070 kg/ ha T3 – 1090 kg/ha and percentage of wilted/ plant (75 days) T1 –5.98 T2 – 3.09 T3 – 1.56	17.32 percent higher yield obtain in T2 and 19.51 percent higher in T3 than farmer practice.	*Trichoderma* with compost two application 1st at time of sowing and 2nd 25 DAS sowing is very effective to control the wilt disease	Nil	Nil
Sesame	Irrigated	Low yield of sesame in summer	Assessment of new variety of sesame	3	Assessment of new variety of sesame	Yield and No. of capsules	Yield T1 – 666kg/ ha T2 – 776 kg/ ha T3 – 791 kg/ha and No. of capsules/plant T1-26 T2-31 T3-35	16.51 percent higher yield obtain in T2 and 18.76 percent higher in T3 than farmer practice.	GT – 5 is bold and white seeded and higher yielder (summer).	Nil	Nil

Preservation techniques		Lack of knowledge about phase preservation (damage during storage about 30 to 45 percent)	Preservation techniques of different pulses with organic method	5	T1 Use of neem leaves T2 Use of castor oil T3 use of Plastic bag	Insect infestation after 6 month	In cahna dal T1-12 T2-3 T3-8 And in green gram T1-8 T2-2 T3-6	-	Use of castor oil is very effective to storage of different pulses	-	-

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**
OFT-1					
Sowing of groundnut without Seed treatment. Farmers adopt drenching of Chlorpyriphos or Quinalphos @ 6 lit/ha with irrigation at initiation of pest incidence. (Farmers practice)	-	2890	kg/ ha	79300	2.21
Seed treatment with Chlorpyriphos 20ec @ 25 ml/kg seed.(GAU Reco.)	Gujarat Agriculture University	3170	kg/ ha	92100	2.38
Application of Metarhiziumanisoplii @ 5 kg/ha with 300 kg/ha castor cake at time of sowing.	Junagadh Agricultural University	3380	kg/ ha	10090	2.48
OFT-2					
Sowing without use of Trichodarma. But they use fungicides viz., Carbendazim, Hexaconazole, Difenconazole, Tebuconazole, Propiiconazole, , etc after initiation of diseases. (Farmers practices.)	-	912	kg/ ha	68200	2.45
Application of Trichoderma @ 5 kg /ha with organic manure @1000 kg / ha at the time of sowing.. (Recommended practices.)	Gujarat Agriculture University	1070	kg/ ha	85950	2.80
Application of Trichoderma @ 5 kg /ha along with organic manure @1000 kg / ha at the time of sowing and second application of Trichoderma @ 5 kg /ha	-	1090	kg/ ha	87450	2.79

along with organic manure by broadcasting method at 15 days after germination. (Intervention).					
OFT-3					
G Til - 2 or Local (Farmer Practice).		666	kg/ ha	7880	1.17
G Til – 3 (JAU Recommendation for summer)	Junagadh Agricultural University	776	kg/ ha	18232	1.40
G Til – 5 (JAU Recommendation for summer)	Junagadh Agricultural University	791	kg/ ha	19482	1.42

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

OFT-1

1	Title of Technology Assessed	:	Management of white grub in ground nut crop.
2	Problem Definition	:	Heavy infestation of white grub in ground nut.
3	Details of technologies selected for assessment	:	Seed treatment with chlorpyriphos 20 EC.
4	Source of technology	:	Gujarat Agriculture University.
5	Production system and thematic area	:	Integrated pest management.
6	Performance of the Technology with performance Indicators	:	-----
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques	:	Matrix scoring is 8 out of 10 done by farmer.
8	Final recommendation for micro level situation	:	Application of Metarhizium anisoplii @ 5 kg/ha with 300 kg/ha castor cake at time of sowing is effective to reduce the infestation of white grub..
9	Constraints identified and feedback for research	:	-----
10	Process of farmer's participation and their reaction	:	Seed treatment is the best and cheapest method for management of white grub.

OFT-2

1	Title of Technology Assessed	:	Use of Trichoderma for wilt disease management.
2	Problem Definition	:	Heavy incidence of wilt disease in cumin effecting yield loss up to 9 to 20 percent.

3	Details of technologies selected for assessment	:	Application of Trichoderma with compost
4	Source of technology	:	Junagadh Agriculture University, Junagadh
5	Production system and thematic area	:	Integrated disease management
6	Performance of the Technology with performance Indicators	:	-----
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques	:	7 out of 10 scoring
8	Final recommendation for micro level situation	:	Application of Trichoderma 5 kg/ ha with compost @ 1000 kg/ ha at time of sowing and second application is DAS
9	Constraints identified and feedback for research	:	Nil
10	Process of farmer's participation and their reaction	:	Trichoderma application gave good result in suppressing the wilt disease and increase yield.

OFT-3

1	Title of Technology Assessed	:	Assessment of new variety of sesame
2	Problem Definition	:	Low yield of sesame in summer.
3	Details of technologies selected for assessment	:	New variety of sesame (GT-5)
4	Source of technology	:	Junagadh Agriculture University, Junagadh
5	Production system and thematic area	:	Varietal Evaluation
6	Performance of the Technology with performance Indicators	:	-----
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques	:	7 out of 10 scoring
8	Final recommendation for micro level situation	:	GT – 5 is bold and white seeded and higher yielder (summer).
9	Constraints identified and feedback for research	:	Nil
10	Process of farmer's participation and their reaction	:	GT – 5 is bold and white seeded and higher yielder (summer).

OFT-4 Preservation techniques of different pulses with organic method

Performance of technology assessed:

No. of	Name of	Technology options	Data on Parameter
			Insect infestation (%)

Trial	crop		after 6 month
5	Chana dal	T1 Use of dry neem leaves	12
		T2 Use of castor oil	3
		T3 Use of airtight plastic bag	8
		T4 Without any treatment	19
	Green gram	T1 Use of dry neem leaves	8
		T2 Use of castor oil	2
		T3 Use of airtight plastic bag	6
		T4 Without any treatment	22

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 2021 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Groundnut	New Variety	New variety of Groundnut /GJG-32	To test yield potentiality of newly released groundnut variety	6	10	4.0
2	Cotton	IPM	Pink ball worm management through MDP	Management of pink ball worm through MDP	5	10	4.0
3	Sesame	New Variety	New variety of GT-5 Summer	To test yield potentiality of newly released groundnut variety	4	10	4.0
4	Cumin	IDM	Management of wilt through Trichoderma	Management of wilt through bio agent	6	10	4.0
5	Chickpea	New Variety	Popularized new variety GG-5	To test yield potentiality of newly released groundnut variety	4	10	4.0
6	Pearl millet	New Variety	Popularization of new variety GHB-538	To test yield potentiality of newly released groundnut variety	6	10	4.0
7	Black gram	New Variety	Popularization of new variety GU-2	To test yield potentiality of newly released black gram variety	5	10	4.0

B. Details of FLDs implemented during 2021(Kharif 2021, Rabi 2020-21, Summer 2021) (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Groundnut	New Variety	Popularization of new variety	*Kharif* 2021	4.0	4.0	-	10	10	-
2	Black gram	New Variety	Popularization of new variety	*Kharif* 2021	4.0	4.0	1	9	10	-
3	Cotton	IPM	Pink boll worm management through MDP pest	*Kharif* 2021	4.0	4.0	2	8	10	-
4	Chickpea	New variety	Popularized new variety GJG-6	*Rabi* 2020-21	4.0	4.0	1	9	10	-
5	Cumin	IDM	Management of wilt through Tricoderma	*Rabi* 2020-21	4.0	4.0	2	8	10	-
6	Pear millet	New variety	New variety (for taste), Bio fortified variety	Summer 2021	2.0	2.0	-	5	5	-
7	Pear millet	New variety	New variety (for taste), Bio fortified variety	Summer 2021	2.0	2.0	1	4	5	-
8	Sesamum	New variety	Popularized new variety for summer	Summer 2021	4.0	4.0	2	8	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Groundnut	*Kharif*	RF	Medium Black	Low	Low	High	Cotton	20th to 25th June	12th Oct.	1219.5	-
Cotton	*Kharif*	RF	Medium Black	Low	Low	High	Cotton	25th to 27th June	15th Dec.	1219.5	-
Cumin	*Rabi*	Irrigated	Medium Black	Low	Low	High	Groundnut	5th Nov.	5th March	-	-
Chickpea	*Rabi*	Irrigated	Medium Black	Low	Low	High	Groundnut / Sesame early cotton	20th Nov.	10th March	-	-
Pearl millet	*Summer*	Irrigated	Medium Black	Low	Low	High	Cotton	20th Feb.	19th May	-	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Variety GJG – 32 is resistant against tikka and rust disease in heavy rainfall condition as compare to T6-45 ,GJG – 22 ,TAG – 24.
2.	Trichoderma harzianium is very useful to suppress the wilt disease in cumin.
3.	Pheromone trap is very useful for mass trapping of pink boll worm moth in cotton crop.
4.	GG-5 chickpea variety is high yielding as well as disease resistant compare to GG-2, GJG-3.
5.	Sesamum GT – 5 is bold and white seeded and higher yielder (summer).

Farmers' reactions on specific technologies

S. No	Feed Back
1.	Farmers and Farm Women is very happy with establishment of to the KVK at Morbi.
2.	Pink boll worm problem in cotton.
3.	Para wilting in cotton crop.
4.	White grub problem in ground nut crop.
5.	Sucking pest particularly thrips problem in cotton, onion chilly and garlic crop.
6.	Falls army worm in Maize.
7.	Heavy infestation of wilt and blight in Chickpea.
8.	Heavy infestation of Thrips in Cumin,Garlic and Onion crop.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	3	August, Sept. and December	93	-
2	Farmers Training	4	January to December	99	-
3	Media coverage	2	-	-	-
4	Training for extension functionaries	2	January to December	61	-

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										
Sesamum	New variety	Popularized new variety for summer	GT-5	10	4.0	9.30	7.50	8.25	8.00	3.1	45400	67650	22250	1.49	45400	64000	18600	1.41

Groundnut	New Variety	Popularization of new variety	GJG-32	10	4.0	42.50	32.25	35.73	30.18	18.38	65800	183350	117550	2.78	65900	156900	91000	2.38

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										
Chickpea	New variety	Popularized new variety GJG-6	GJG-6	10	4.0	18.80	13.60	16.52	14.81	11.5	40500	91904	51404	2.27	40100	82012	41912	2.05
Black gram	New Variety	Popularization of new variety	GU-2	10	4.0	5.95	3.20	3.83	3.00	27.6	24300	30742	6442	1.26	23700	23820	120	1.00

- Black gram crop has failed due to heavy rainfall

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Bajra																			
Pearl millet	New Variety	Popularization of new variety GHB-538	5	2.0	35.60	32.80	34.62	34.60	0.06	-	-	47000	69240	22240	1.47	47000	59850	12850	1.27
Pearl millet	New Variety	Popularization of new variety GHB-1129	5	2.0	36.50	35.50	36.18	34.60	4.56	-	-	47000	72360	25360	1.53	47000	60550	13550	1.29
Cotton									Ball damage (%)										
Cotton	IPM	Management of pink ball warm through	10	4.0	19.80	14.40	17.44	16.51	5.6	16	23	54100	143880	89780	2.66	52900	136207	83307	2.57

		MDP																	
Cumin										Wilt damage (%)									
Cumin	IDM	Management of wilt through Trichoderma	10	4.0	4.0	14.30	11.70	12.82	11.44	3.2	10.3	41300	160250	118950	3.88	40200	143000	102800	3.55

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										
Bajra																		
Pearl millet	New Variety	Popularization of new variety GHB-538	GHB-538	5	2.0	35.60	32.80	34.62	34.60	0.06	47000	69240	22240	1.47	47000	59850	12850	1.27
Pearl millet	New Variety	Popularization of new variety GHB-1129	GHB-1129	5	2.0	36.50	35.50	36.18	34.60	4.56	47000	72360	25360	1.53	47000	60550	13550	1.29

FLD on Livestock : Nil

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																	
Buffalo																	
Buffalo Calf																	
Dairy																	
Poultry																	
Sheep & Goat																	
Vaccination																	

FLD on Fisheries : Nil

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																	

FLD on Other enterprises : Nil

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																

FLD on Women Empowerment : Nil

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

FLD on Farm Implements and Machinery : Nil

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)
Vegetable	Nutritional security	Vegetables seed	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Demonstration details on crop hybrids : Nil

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													

3.4. Training Programmes (Online programmes if any should be included under On Campus category)

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems	1	45	2	47			0	45	2	47
Crop Diversification				0			0	0	0	0
Integrated Farming	1	25		25	5		5	30	0	30
Micro Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	1	40		40	3		3	43	0	43
Soil & water conservatioin				0			0	0	0	0
Integrated nutrient management	1	44		44	6		6	50	0	50
Production of organic inputs				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**4**	**154**	**2**	**156**	**14**	**0**	**14**	**168**	**2**	**170**
II Horticulture				0			0	0	0	0
a) Vegetable Crops				0			0	0	0	0
Production of low value and high valume crops				0			0	0	0	0
Off-season vegetables	1	32		32	1		1	33	0	33
Nursery raising	1	39		39	4		4	43	0	43
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others (pl specify)	1	49	2	51	2		2	51	2	53
Total (a)	**3**	**120**	**2**	**122**	**7**	**0**	**7**	**127**	**2**	**129**
b) Fruits				0			0	0	0	0
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit	1	51		51	7		7	58	0	58
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (b)	**1**	**51**		**51**	**7**		**7**	**58**	**0**	**58**
c) Ornamental Plants				0			0	0	0	0
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (c)				0			0	0	0	0
d) Plantation crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (d)				0			0	0	0	0
e) Tuber crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (e)				0			0	0	0	0
f) Spices				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)	1	94		94	6		6	100	0	100
Total (f)	1	94		94	6		6	100	0	100
g) Medicinal and Aromatic Plants				0			0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (g)				0			0	0	0	0
GT (a-g)	**5**	**265**	**2**	**267**	**20**	**0**	**20**	**285**	**2**	**287**
III Soil Health and Fertility Management				0			0	0	0	0
Soil fertility management				0			0	0	0	0
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Balance use of fertilizers				0			0	0	0	0
Soil and Water Testing				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
IV Livestock Production and Management				0			0	0	0	0
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed & fodder technology				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
V Home Science/Women empowerment				0			0	0	0	0
Household food security by kitchen gardening and nutrition gardening	2		89	89		5	5	0	94	94
Design and development of low/minimum cost diet	1	5	41	46		4	4	5	45	50
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	1	3	44	47		3	3	3	47	50
Women empowerment	1		25	25			0	0	25	25
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
Others (pl specify)	1		28	28		2	2	0	30	30
Total	**6**	**8**	**227**	**235**	**0**	**14**	**14**	**8**	**241**	**249**
VI Agril. Engineering				0			0	0	0	0
Farm Machinary and its maintenance				0			0	0	0	0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
VII Plant Protection				0			0	0	0	0
Integrated Pest Management	2	77		77	8		8	85	0	85
Integrated Disease Management	2	67		67			0	67	0	67
Bio-control of pests and diseases	2	81	2	83	8		8	89	2	91
Production of bio control agents and bio pesticides				0			0	0	0	0
Others (pl specify)	3	92		92	9		9	101	0	101
Total	**9**	**317**	**2**	**319**	**25**	**0**	**25**	**342**	**2**	**344**
VIII Fisheries				0			0	0	0	0
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
IX Production of Inputs at site				0			0	0	0	0
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
X CapacityBuilding and Group Dynamics				0			0	0	0	0
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
XI Agro-forestry				0			0	0	0	0
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
GRAND TOTAL	**24**	**744**	**233**	**977**	**59**	**14**	**73**	**803**	**247**	**1050**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems	1	29		29			0	29	0	29
Crop Diversification				0			0	0	0	0
Integrated Farming	1	36		36	3		3	39	0	39
Micro Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management				0			0	0	0	0
Soil & water conservatioin				0			0	0	0	0
Integrated nutrient management	1	21		21	5		5	26	0	26
Production of organic inputs				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**3**	**86**	**0**	**86**	**8**	**0**	**8**	**94**	**0**	**94**
II Horticulture				0			0	0	0	0
a) Vegetable Crops				0			0	0	0	0
Production of low value and high valume crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising	1	101		101	18		18	119	0	119
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation	1	36		36			0	36	0	36
Others (pl specify)				0			0	0	0	0
Total (a)	**2**	**137**	**0**	**137**	**18**	**0**	**18**	**155**	**0**	**155**
b) Fruits				0			0	0	0	0
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit	1	52		52	7		7	59	0	59
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (b)	**1**	**52**		**52**	**7**		**7**	**59**	**0**	**59**
c) Ornamental Plants				0			0	0	0	0
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (c)				0			0	0	0	0
d) Plantation crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (d)				0			0	0	0	0
e) Tuber crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (e)				0			0	0	0	0
f) Spices				0			0	0	0	0
Production and Management technology	1	48		48	2		2	50	0	50
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (f)	**1**	**48**		**48**	**2**		**2**	**50**	**0**	**50**
g) Medicinal and Aromatic Plants				0			0	0	0	0
Nursery management				0			0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (g)				**0**	**0**		**0**	**0**	**0**	**0**
GT (a-g)	**4**	**237**	**0**	**237**	**27**	**0**	**27**	**264**	**0**	**264**
III Soil Health and Fertility Management				0			0	0	0	0
Soil fertility management				0			0	0	0	0
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Balance use of fertilizers	1	51		51	8		8	59	0	59
Soil and Water Testing	1	25		25	1		1	26	0	26
Others (pl specify)	1	25		25			0	25	0	25
Total	**3**	**101**	**0**	**101**	**9**	**0**	**9**	**110**	**0**	**110**
IV Livestock Production and Management				0			0	0	0	0
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed & fodder technology				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				**0**			**0**	**0**	**0**	**0**
V Home Science/Women empowerment				0			0	0	0	0
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet	1		10	10			0	0	10	10
Designing and development for high nutrient efficiency diet	1		16	16		1	1	0	17	17
Minimization of nutrient loss in processing	1		15	15			0	0	15	15
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs	1		24	24		3	3	0	27	27
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Women empowerment	1		28	28		2	2	0	30	30
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts	2		58	58		11	11	0	69	69
Women and child care	2		84	84		7	7	0	91	91
Others (pl specify)				0			0	0	0	0
Total	**9**	**0**	**235**	**235**	**0**	**24**	**24**	**0**	**259**	**259**
VI Agril. Engineering				0			0	0	0	0
Farm Machinary and its maintenance				0			0	0	0	0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others (pl specify)				0			0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Total				**0**			**0**	**0**	**0**	**0**
VII Plant Protection				0			0	0	0	0
Integrated Pest Management	2	101		101	17		17	118	0	118
Integrated Disease Management	2	65		65	10		10	75	0	75
Bio-control of pests and diseases	2	56		56	5		5	61	0	61
Production of bio control agents and bio pesticides				0			0	0	0	0
Others (pl specify)	4	148		148	10		10	158	0	158
Total	**10**	**370**	**0**	**370**	**42**	**0**	**42**	**412**	**0**	**412**
VIII Fisheries				0			0	0	0	0
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
IX Production of Inputs at site				0			0	0	0	0
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
X Capacity Building and Group Dynamics				0			0	0	0	0
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
XI Agro-forestry				0			0	0	0	0
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
GRAND TOTAL	**29**	**794**	**235**	**1029**	**86**	**24**	**110**	**880**	**259**	**1139**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems	2	74	2	76			0	74	2	76
Crop Diversification				0			0	0	0	0
Integrated Farming	2	61		61	8		8	69	0	69
Micro Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	1	40		40	3		3	43	0	43
Soil & water conservatioin				0			0	0	0	0
Integrated nutrient management	2	65		65	11		11	76	0	76
Production of organic inputs				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**7**	**240**	**2**	**242**	**22**	**0**	**22**	**262**	**2**	**264**
II Horticulture				0			0	0	0	0
a) Vegetable Crops				0			0	0	0	0
Production of low value and high valume crops				0			0	0	0	0
Off-season vegetables	1	32		32	1		1	33	0	33
Nursery raising	2	140		140	22		22	162	0	162
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation	1	36		36			0	36	0	36
Others (pl specify)	1	49	2	51	2		2	51	2	53
Total (a)	**5**	**257**	**2**	**259**	**25**	**0**	**25**	**282**	**2**	**284**
b) Fruits				0			0	0	0	0
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit	2	103		103	14		14	117	0	117
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (b)	**2**	**103**		**103**	**14**		**14**	**117**	**0**	**117**
c) Ornamental Plants				0			0	0	0	0
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (c)				**0**			**0**	**0**	**0**	**0**
d) Plantation crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (d)				**0**			**0**	**0**	**0**	**0**
e) Tuber crops				0			0	0	0	0
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (e)				**0**			**0**	**0**	**0**	**0**
f) Spices				0			0	0	0	0
Production and Management technology	1	48		48	2		2	50	0	50
Processing and value addition				0			0	0	0	0
Others (pl specify)	1	94		94	6		6	100	0	100
Total (f)	**2**	**142**	**0**	**142**	**8**	**0**	**8**	**150**	**0**	**150**
g) Medicinal and Aromatic Plants				0			0	0	0	0
Nursery management				0			0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (g)				**0**			**0**	**0**	**0**	**0**
GT (a-g)	**9**	**502**	**2**	**504**	**47**	**0**	**47**	**549**	**2**	**551**
III Soil Health and Fertility Management				0			0	0	0	0
Soil fertility management				0			0	0	0	0
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Balance use of fertilizers	1	51		51	8		8	59	0	59
Soil and Water Testing	1	25		25	1		1	26	0	26
Others (pl specify)	1	25		25			0	25	0	25
Total	**3**	**101**	**0**	**101**	**9**	**0**	**9**	**110**	**0**	**110**
IV Livestock Production and Management				0			0	0	0	0
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed & fodder technology				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
V Home Science/Women empowerment				0			0	0	0	0
Household food security by kitchen gardening and nutrition gardening	2		89	89		5	5	0	94	94
Design and development of low/minimum cost diet	2	5	51	56		4	4	5	55	60
Designing and development for high nutrient efficiency diet	1		16	16		1	1	0	17	17
Minimization of nutrient loss in processing	1		15	15			0	0	15	15
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs	1		24	24		3	3	0	27	27
Storage loss minimization techniques				0			0	0	0	0
Value addition	1	3	44	47		3	3	3	47	50
Women empowerment	2		53	53		2	2	0	55	55
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts	2		58	58		11	11	0	69	69
Women and child care	2		84	84		7	7	0	91	91
Others (pl specify)	1		28	28		2	2	0	30	30
Total	**15**	**8**	**462**	**470**	**0**	**38**	**38**	**8**	**500**	**508**
VI Agril. Engineering				0			0	0	0	0
Farm Machinary and its maintenance				0			0	0	0	0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others (pl specify)				0			0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Total				0			0	0	0	0
VII Plant Protection				0			0	0	0	0
Integrated Pest Management	4	178		178	25		25	203	0	203
Integrated Disease Management	4	132		132	10		10	142	0	142
Bio-control of pests and diseases	4	137	2	139	13		13	150	2	152
Production of bio control agents and bio pesticides				0			0	0	0	0
Others (pl specify)	7	240		240	19		19	259	0	259
Total	**19**	**687**	**2**	**689**	**67**	**0**	**67**	**754**	**2**	**756**
VIII Fisheries				0			0	0	0	0
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
IX Production of Inputs at site				0			0	0	0	0
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
X CapacityBuilding and Group Dynamics				0			0	0	0	0
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total				0			0	0	0	0
XI Agro-forestry				0			0	0	0	0
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total										
GRAND TOTAL	**53**	**1538**	**468**	**2006**	**145**	**38**	**183**	**1683**	**506**	**2189**

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

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

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

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

farm machinery and implements										
Value addition										
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										

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

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

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	16	3	19	2		2	18	3	21
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	1	16	3	19	2		2	18	3	21

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management	1	31	7	38	7		7	38	7	45
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	1	18		18				18		18
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	2	49	7	56	7	0	7	56	7	63

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		
		Mal	Femal	Tot	Mal	Femal	Tot	Mal	Femal	Tot

		e	e	al	e	e	al	e	e	al
Productivity enhancement in field crops										
Integrated Pest Management	**1**	**16**	**3**	**19**	**2**		**2**	**18**	**3**	**21**
Integrated Nutrient management	**1**	**31**	**7**	**38**	**7**		**7**	**38**	**7**	**45**
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	**1**	**18**		**18**				**18**		**18**
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	**3**	**65**	**10**	**75**	**9**	**0**	**9**	**74**	**10**	**84**

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	**1**	**30**		**30**				**30**		**30**
Commercial production of vegetables	**1**	**32**		**32**	**1**		**1**	**33**		**33**
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management	**1**	**46**		**46**	**9**		**9**	55		**55**
Production of Inputs at site										
Methods of protective cultivation	**1**	**95**		**95**	**5**		**5**	**100**		**100**
Others (pl. specify)										
Total	**4**	**203**	**0**	**203**	**15**	**0**	**15**	**218**	**0**	**218**
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	**1**		**31**	**31**		**8**	**8**		**39**	**39**
Economic empowerment of women	**1**		**28**	**28**		**2**	**2**		**30**	**30**
Drudgery reduction of women										
Others (pl. specify)										
Total	**2**	**0**	**59**	**59**	**0**	**10**	**10**	**0**	**69**	**69**
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL	**6**	**203**	**59**	**262**	**15**	**10**	**25**	**218**	**69**	**287**

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		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
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.	**1**		**29**	**29**		**1**	**1**		**30**	**30**
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	**1**		**29**	**29**		**1**	**1**		**30**	**30**

3.5. Extension Programmes

Activities	No. of Programmes	No. of Farmers	No. of Extension Personnel	TOTAL
Advisory Services	3	950	-	**950**
Diagnostic visits	5	46	4	**50**
Field Day	3	93	2	**95**
Group discussions	18	102	7	**109**
KisanGhosthi	18	130	2	**132**
Film Show	5	434	8	**442**
Self -help groups meeting	2	60	2	**62**
KisanMela	-	-	-	**-**
Exhibition	-	-	-	**-**

Scientists' visit to farmers field	33	139	7	**146**
Plant/animal health camps	-	-	-	**-**
Farm Science Club	-	-	-	**-**
Ex-trainees Sammelan	1	31	0	**31**
Farmers' seminar/workshop	2	139	5	**144**
Method Demonstrations	3	85	0	**85**
Celebration of important days	14	2301	11	**2312**
Special day celebration	7	227	5	**232**
Exposure visits	-	-	-	**-**
Others (pl.specify)	2	376	5	**381**
Total	**116**	**4163**	**58**	**5271**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	-
Extension Literature	-
Newspaper coverage	25
Popular articles	17
Radio Talks	-
TV Talks	-
Animal health amps (Number of animals treated)	-
Social Media (No. of platforms Used)	-
Others (pl. specify)	-
Total	**42**

3.6 Online activities during year 2021

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webexetc)	Title of Program	No. of Programmes	No. of Participants/ Views
A	Farmers training				
1	Farmers training	Audio Conferencing	IPM in major crops	2	178
2	Farmers training	Video conferencing	Clean Milk production	1	39
3	Farmers training	Video conferencing	Different crops contribute to bee pollen	1	52
4	Collaboration training	Video conferencing	Importance of organic farming	1	46
	Total			**5**	**315**
B	Farmers scientist's interaction programme				
1	Video conferencing	Video conferencing	Plant protection	2	17
2	Video conferencing	Video conferencing	Horticulture	1	11
	Total			**3**	**28**
C	Farmers seminars				
	Total				
D	Expert lectures	Audio Conferencing	IPM and IDM in major crops	2	195
	Total			2	195
E	Any other				
	Total				
	Grand Total (A+B+C+D+E)			**11**	**538**

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	Pear millet	J2597	-	0.30	2760	3
Oilseeds	Sesame (Breeder)	GJT-5	--	2.33	54289	-
	Sesame (Labeled)	GJT-5	-	0.91	16380	20
	Groundnut	GJG-22	-	3.76	27600	
Pulses	Black Gram (Labeled)	GU - 2	-	2.12	42400	105
	Chickpea (Labeled)	GG - 5	-	6.25	40000	30
Commercial crops						
Vegetables	Onion (Breeder)	GJWO-3	-	0.55	55000	-
Flower crops						
Spices	Cumin (Labeled)	GC - 4	-	5.84	129006	221
	Ajwain (Labeled)	GA - 2	-	1.53	28518	89
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Total				**19.83**	**395953**	**468**

Production of planting materials by the KVK :

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings	Drumstick	-	-	25	-	25
Fruits	Jambun	-	-	25	-	25
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total				**50**	**-**	**50**

Production of Bio-Products : Nil

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				

Trichoderma				
Others				
Total				

Production of livestock materials :Nil

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

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

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

B. Literature developed/published

Item	**Title**	**Authors name**	**Number**
Research papers	NA		
Technical reports	SAC, Annual, ZEARC, AGRESSCO	-	5
News letters	JAU, news letters	-	4
Technical bulletins	-	-	-
Popular articles	*Krushi Kayda-Bharatiy krushi aaitayshik sudharo aek rashtra aek bajar*	Dr. Hemangi D. Mehta/ D. A. Saradava	Chakravat news, January 2021
	Krushi Kayda-Bharatiy krushi aaitayshik sudharo aek rashtra aek bajar	Dr. Hemangi D. Mehta/ D. A. Saradava	Sanjog news, January 2021
	Amrut fal Amala ni kheti	Dr. Hemangi D. Mehta/ D. A. Saradava	Sanjog news, January 2021
	Amrut fal Amala ni kheti	Dr. Hemangi D. Mehta/ D. A. Saradava	Chakravat news, January 2021
	Limbadani upayogita	Dr. Hemangi D. Mehta/ D. A. Saradava	Sanjog news, January 2021
	Online nana moklavama sauthi saral ane vishvashpatra aep-Bhim	Dr. Hemangi D. Mehta/ D. A. Saradava	Chakravat news, January 2021
	Tunka gala ma moti kmani	Dr. Hemangi D. Mehta/ D. A.	Chakravat news, January 2021

	apato pak- Mashrum	Saradava	
	Mashrum kheti karo ane swarojgari melavo	Dr. Hemangi D. Mehta/ D. A. Saradava	Sanjog news, January 2021
	Rokadiya pak marchani kheti ane mulyvrudhi kari nanan melavo	Dr. Hemangi D. Mehta	Chakravat news, February 2021
	Rokadiya pak marchani kheti ane mulyvrudhi kari nanan melavo	Dr. Hemangi D. Mehta	Krushi prabhat, February 2021
	Marchani kheti ane mulyvrudhi	Dr. Hemangi D. Mehta	Sanjog news, February 2021
	Paushtik fal chiku-Part-1	Dr. Hemangi D. Mehta	Sanjog news, February 2021
	Paushtik fal chiku-Part-1	Dr. Hemangi D. Mehta	Chakravat news, February 2021
	Paushtik fal chiku-Part-2	Dr. Hemangi D. Mehta	Sanjog news, February 2021
	Paushtik fal chiku-Part-2	Dr. Hemangi D. Mehta	Chakravat news, February 2021
	Hal na samay ma aelovera ni khetima lakhoni kmani	Dr. Hemangi D. Mehta	Chakravat news, February 2021
	Hal na samay ma aelovera ni khetima lakhoni kmani	Dr. Hemangi D. Mehta	Sanjog news, February 2021
Extension literature	-	-	-
Others (Pl. specify) Book	Achievements and Endeavours report of KVK MORBI	Dr. L.L Jivani Shri Dilip A. Saradava Smt. Hetal H. Padsumbiya Smt. Hemangi D. Mehta	100

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	20	1120
5	Twitter Account	@JauKvk	72
6	Any other (Pl. Specify)	**-**	**-**

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

(A) New Entrepreneur in Agriculture : Honey bee farming

- Name :- Kamleshbhai Patel
- Village :- Halvad, Tal. Halvad, Dist. Morbi
- Age :- 46 years
- Mobile No. :- 9998868777
- Education :- B.Com
- Total land :- 3.2 ha.

Kamleshbhai belongs to village Akhiyala of Morbi district. he is having farm in his village but the quality of soil & water is very poor. he was cultivating cotton crop under rainfed condition but the returns from the rainfed cotton crop was very less.

He attended a training program on honeybee farming at K.V.K.Morbi and got interested in it. Then he visited many honey producers at Baroda, Himmatnagar & Junagadh then he shifted to a town Halvad. And started honeybee farming. Initially he purchased 50 honeybee boxes & kept them near Ajwain & Funnel farm. He found that he was getting honey of different flavours. Observing good results next year he purchased 150 honeybee boxes and established extraction machine as well as a small filter plant at his home. He started packing with brand name “Navodaya honey” now he is getting good income from honeybee farming as compared to traditional farming.

Sr. No.	Particular of farming	Area	Production Kg	Gross Income	Net Income
1	Cotton (Before honey bee farming)	3.2 ha.	5600	258800/-	139500/-
2	Honey bee rearing	200 Box	2200	1320000/-	595000/-

Selling price of honey Rs. 600/Kg

(B) Crop diversification : Date palm farming

- Name :- Nileshbhai Bapodaria
- Village :- Tikar, Ta. Halvad, Dist. Morbi
- Age :- 49 years
- Mobile No. :- 7069927220
- Education :- 12
- Total land :- 2.5 ha.

Nileshbhai is an innovative farmer of village Tikar(Morbi). The soil & water quality of his farm (near small desert of kutch) is very poor. He was cultivating only cotton as per his farm condition. Due to continuous mono cropping the productivity of cotton & his net income decreased year by year. As per the suggestion by K.V.K. scientists he planted date palm in 2.5 ha in his farm in 2016. During first 3 years he earned low income by taking black gram , green gram & cumin as intercrop. Since 2020, date palm began to bear fruits yielding 40-50 kg/plant. Due to which returns are good. He also started packing of date palm and selling them with his own brand.

Looking his success, the other farmers of his village started date palm cultivation.

Sr. No.	Particular of farming	Area (ha)	Production Kg	Gross Income	Net Income
1	Cotton (Before)	3	3100	285000/-	141000/-
2	Date palm (Now)	3	17000	850000/-	482000/-

(C) Modern approach to vegetable farming farming

- Name :- Shekh Sikandar M.
- Village :- Tithva, Ta. Wankaner, Dist. Morbi
- Age :- 42 years
- Mobile No. :- 9979597083
- Education :- 10
- Total land :- 1.7 ha.

Sikandarbhai is a progressive farmer of village Tithava of Wankaner taluka. He was cultivating cotton and vegetable on his farm traditionally. He attended training programs on vegetable cultivation (olericulture) at KVK, Targhadia and Morbi. He decided to grow vegetables scientifically and changed his cropping pattern.

Sikandarbhai installed drip irrigation system at his farm for cultivation of chilly and cucurbits by adopting mulching. He also made mandap system for bitter gourd and telephone system for tomato vegetable crop along with drip irrigation. By adopting these scientific techniques in vegetables, he obtained higher yield and best quality of vegetables by which he earned double income last year as compared to traditional method of cultivation of vegetables. During last year nearly 200 farmers visited his farm and they got encouraged for vegetable farming.

Sr. No.	Particular of farming	Area (ha)	Production Kg	Gross Income	Net Income
1	Cotton (Bt.)	0.8	1650	73500	41000
2	Brinjal	0.4	6200	99200	67500
3	Cucumber	0.4	5100	86500	66000
					174500
	After				
1	Bitter guard (Mandap system)	0.6	16200	212000	151500
2	Chilly (Mulching)	0.6	11900	182000	121500
3	Tomato (Telephonic + drip system)	0.5	12900	216000	122000
					395000

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

- IPM in Cotton-Use of Trap crop, Pheromone trap, MDP etc.
- Minimizing the chemical Fertilizer and Maximizing organic manure.
- Value addition in different agriculture crops like groundnut, sesame etc.

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

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

5.1. Indicate the specific training need analysis tools/methodology followed for
A. Practicing Farmers
B. Rural Youth
C. In-service personnel

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) Field level observations

ii) Farmer group discussions

For FLD:

i) New variety/technology

ii) Existing cropping system

iii) Problem at field level

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) – 2021

Block	Villages
Morbi	Chakampar Jivapar Dharampur Thorala Andarana
Tankara	Otala Saraya Neknam Lakhdhirgadh Bhutkotda
Wankaner	Palas Panchdwarka Shekhradi Amarsar Pipaliya raj

ii. No. of farm families selected per village :

iii. No. of survey/PRA conducted :

iv. No. of technologies taken to the adopted villages

v. Name of the technologies found suitable by the farmers of the adopted villages:

vi. Impact (production, income, employment, area/technological– horizontal/vertical)

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

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
Dy. Director of Agriculture.	Most of the Organizations are members of Scientific Advisory Committee (SAC) of KVK and have linkage with different activities of KVK viz., Training Programme, Khedut Sibir, Farmers day, Animal treatment Camp, Farmers fair, Film Show, Ex-training meeting and Soil health card etc.
Dy. Director of Agril. Extension (FTC)	
Dy. Director of Horticulture	
Dy. Director of Animal Husbandry	
District Agriculture officer	
Jilla Udhyong Kendra	
NHRDF	
Doordarshan Kendra	
All India Radio	
District Rural Development Agency(DRDA)	
ATMA	
District Watershed Development Agency (DWDA)	
GGRC	
Reliance foundation	
GSFC, GNFC	
IFFCCO	
KRIBHCO	
ANANDI NGO	

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
-	-	-	-

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

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

Yes, we have prepared the SREP of Morbi district.

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**	2	2	1	
02	**Research projects**				
03	**Training programmes**	5	6	2	
04	**Demonstrations**				
05	**Extension Programmes**				
	KisanMela				
	Technology Week	1		1	
	Exposure visit	1	3		
	Exhibition				
	Soil health camps	1	2	1	
	Animal Health Campaigns				
	Others (Pl. specify)				
06	**Publications**				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	**Other Activities** (Pl.specify)				
	Watershed approach	**1**	**1**		
	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
	Nil				

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
	Nil				

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
	Nil				

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

	Nil	

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
	Nil				

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
	Nil				

7. Convergence with other agencies and departments: Nil

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
	Nil			

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

1 To enhance the farmers to use recently developed certified varieties of different crops.
2 Proper use of fertilizers, Irrigation, insecticides and fungicide as per recommendation to reduce the production cost.

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

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

11. Technology Week celebration during2021:No, If Yes

Period of observing Technology Week: From **23rd to 28th August 2021**
Online / Offline: Offline
Total number of farmers visited : 131
Total number of agencies involved : 4
Number of demonstrations visited by the farmers within KVK campus: 2

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	-	-	-
Lectures organized	18	108	Groundnut/ Cotton/ Black gram
Exhibition	-	-	-
Film show	3	58	IPM technology and value addition
Fair	-	-	-
Farm Visit	6	115	Groundnut/ Black gram
Diagnostic Practicals	2	36	Groundnut and cotton
Supply of Literature (No.)	4	250	IPM, IDM, animal science
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	2	30	IPM, IDM, animal science
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week		131	

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

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries
Gujarat	KVK not included in this programme		

B. Major area coverage under alternate crops/varieties

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

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organized

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

E. Seed distribution in drought hit states (Seed distribution/sold by KVK)

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

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

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

13. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Only three year completed of KVK so, OFT, FLD and training conducted with limited staf				

B. Cases of large scale adoption

OFT – 1

OFT on white grub management was conducted for last three years in which Chlorpyriphos 25 E.C. 20 ml/kg seed treatment (GAU recommendation) second treatment of Metarhizium 5 kg + 300 kg castor cake at the time of sowing (JAU recommendation)

1. **Most of the farmers are adopting seedtreatment for white grub management. in Morbi district white grub problem is observed in Tankara taluka, farmers following university recommendation and other new technical(insecticides) developed recently.**
2. **Metarhizium is best for white grub as well as soil pests damaging groundnut but it is not available in market. most of farmers trust in university bio-product(now not available).**

Taluka wise adoption :

Sr No.	Name of Taluka	Sowing without seed treatment T_1	T_2	T_3
1.	Tankara	40%	59.8%	0.2%
2.	Wankaner	62%	38%	NIL
3.	Halvad	32%	67.9%	0.1%
4.	Morbi	78%	22%	NIL
5.	Maliya	100%	NIL	NIL

(3) Infestation of white grub in Morbi and Maliya taluka is not beyond ETL or severe so farmers of these taluka are not using seed treatment for control of white grub.

OFT – 2

Wilt management in cumin

> For the management of wilt disease OFT conducted on farm and farmer's field for three years in which Trichoderma was major component with organic manure. Most of farmers sowing cumin without application of Trichoderma where as in T_2 Trichoderma application with organic manure at the time of sowing and in T_3 two applications of Trichoderma at the time of sowing and after one month of germination. The adoption rate of this technology was as under.

Study of hundred farmers during field visit and training

Sr No.	Taluka	T_1	T_2	T_3
1.	Tankara	84%	2%	14% *
2.	Wankaner	92.5%	1.5%	6% *
3.	Halvad	85%	3%	12% *
4.	Morbi	86.5%	2.5%	11% *
5.	Maliya	94%	1%	5% *

*** only one application after germination.**

We have conducted on campus and off campus training and also field day creating awareness among farmers community. Even after obtaining good result of Trichoderma application most of farmers not adopting this technology due to shortage of labour, shortage of organic manure and unavailability of university Trichoderma. Farmers do not trust in other company Trichoderma even after showing good result.

FLD

Varietal FLD

GJG-22

Covered 30 % area of semi spreading groundnut area within 3 years.

GJG-32

Within 2 years sowing in 1800 to 2000 Ha in Tankara taluka where adequate irrigation facility is available.

FLD on wilt management through Trichoderma

Most of farmers are aware that treatment of Trichoderma at the time suppress the wilt disease in cumin but only 5 to 12% farmers are using Trichoderma due to unavailability of Trichoderma(University).

Chick pea GJG-3 and GG-5

More than 90 % farmers of unirrigated area are adopting GJG-3 chick pea variety whereas in irrigated area 60 % farmers select GJG-3 whereas 40 % farmers select GG-5 variety.

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
May 2021	2	1100	-
Aug 2021	1	500	-
Sept 2021	2	1100	-
Oct 2021	1	450	-

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
	Text only	3		3				6
	Voice only							
	Voice & Text both							
	Total Messages	**6**						**6**
	Total farmers Benefitted	**3150**						**3150**

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	
1	Roof Rain water harvesting system	2019-20	1.40 lac ltr.	-	-	-	4.6 lacs	-	-

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Pear millet			0.01	J2597		0.30	-	2760	
Pulses									
Black Gram			1.3	GU - 2	Labeled	2.12		42400	
Chickpea			0.4	GG - 5	Labeled	6.25		40000	
Oilseeds									
Sesame			1.3	GJT-5	Breeder	2.12		42400	
Sesame			1.3	GJT-5	Labeled	6.25		40000	
Fibers									
Spices & Plantation crops									
Cumin			1.8	GC - 4	Labeled	5.84		129006	
Ajwain			0.6	GA - 2	Labeled	1.53		28518	
Floriculture									
Fruits									
Vegetables									
Onion		-	0.3	GJWO-3	Breeder	0.55		55000	
Others (specify)									

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

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) : Nil

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

E. Utilization of hostel facilities

Accommodation available (No. of beds): 15

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January to December 2021	-	-	-

F. Database management

S. No	Database target	Database created
1	36 farmers per village of 6 villages from Morbi district	36 farmers from 6 villages

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

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.)		

H. Performance of Nutritional Garden at KVK farm : Yes

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
0.5	Vegetable crops	11	436
	Fruit crops	2	
	Others if any	-	

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
10	Vegetable crops	10	10
	Fruit crops	5	
	Others if any		

H. Details of Skill Development Trainings organized : Nil

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	SBI	Morbi	60071	Revolving Fund A/C,KVK,JAU, Morbi	36713882996	363002022	SBIN0060071
With KVK	SBI	Morbi	60071	Senior Scientist & Head , KVK,JAU, Morbi	36713882907	363002022	SBIN0060071

B. Utilization of KVK funds during the year 2021-22 (Rs. in lakh)(Till Feb, 2021)

No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	74.00	61.78	58.07
2	**Traveling allowances**	1.00	0.45	0.22
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	9.0	6.40	7.50
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	7.0	4.50	5.40
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+B+C+D+E+F+G+H+I+J)		**16.0**	**10.90**	**12.90**
TOTAL Recrring		**91.0**	**73.13**	**71.19**
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			-	-
GRAND TOTAL (A+B)		**91.0**	**73.13**	**71.19**

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 2019 to March 2020	4,50,501/-	11,95,154/-	9,10,619/-	7,35,036/-
April 2020 to March 2021	7,35,036/-	5,32,993/-	6,58,431/-	6,09,598/-
April 2021 to December 2021	6,09,598/-	1,58,832/-	41,028/-	7,27,402/-

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

Mr D. A. Saradava	Scientist (Plant protection)	State Level Annual Action Plan Workshop of KVKs of Gujarat	Online	Online	18/02/2021
Mr D. A. Saradava	Scientist (Plant protection)	Participatory Programme Planning, Monitoring and Evaluation	EEI,Anand (Online)	**Online**	9-10/03/21
Dr Hemangi Dipakkumar Mehta	Scientist (Home Science)	Participatory Programme Planning, Monitoring and Evaluation	EEI,Anand (Online)	**Online**	9-10/03/21
Dr L L Jivani	Senior Scientist and Head	Annual Zonal Workshop of KVKs	Online	**Online**	4-6/08/2021
Dr L L Jivani	Senior Scientist and Head	"Use of Mass Media for transfer of Technology"	EEI,Anand (Online)	**Online**	1-3/09/2021
Mr D. A. Saradava	Scientist (Plant protection	"Use of Mass Media for transfer of Technology"	EEI,Anand (Online)	**Online**	1-3/09/2021
Smt. H. H. Padsumbiya	Scientist (Home Science)	"Use of Mass Media for transfer of Technology"	EEI,Anand (Online)	**Online**	1-3/09/2021
Dr L L Jivani	Senior Scientist and Head	Training on Natural Farming	Adalaj Road, Adalaj, Gujarat, India	Offline	26/11 to 1/12/2021
Smt. H. H. Padsumbiya	Scientist (Home Science)	Presentation Skills for professional excellence	DEE, Junagadh	Offline	1-3/12/2021

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
Jepur, Haripar, Halvad, Tikar, Ranmalpur, Bagthala etc.	110	-	-	-	-

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
1	OFT, Training	8	-	39	211

19. Details of Progress of ARYA Project : Nil

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	

20. Details of SAP

S. No.	Types of major Activity conducted- SwachhtaPakhwada, Cleaning, Awareness Workshop, Miccobial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
1	Sapath taking and lunching of Swachh monitoring system by KVK staff, Cleaning and Sweeping of entire office premises / cleaning of KVK campus, Swachhta Awareness at local level, Cleaning and beautification of surrounding areas, Vermi composting and other activities on generate of wealth for waste.	12	506

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

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	47	1465	437	1902
Rural youths	-	-	-	-
Extension functionaries	3	74	10	84
Sponsored Training	6	218	69	287
Vocational Training	1		30	30
Total	**57**	**1757**	**546**	**2303**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	20	8.0	-
Pulses	20	8.0	-
Cereals	10	4.0	-
Vegetables	10		10
Other crops	20	8.0	-
Hybrid crops			-
Total	80	28.0	10
Livestock & Fisheries	-	-	-
Other enterprises	-	-	-
Total	-	-	-
Grand Total	80	28.0	10

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	2	8	8
Livestock			
Various enterprises	1	5	5
Total	3		13
Technology Refined			
Crops	1	3	3
Livestock			
Various enterprises			
Total	1		3
Grand Total	4		16

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	116	4224
Other extension activities	42	42
Total	**155**	**4266**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only	3		3				6
	Voice only							
	Voice & Text both							
	Total Messages	**3**		**3**				**6**

	Total farmers Benefitted	**3150**						**3150**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	19.83	368353/-
Planting material (No.)	50	-
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	60	3000
Water	30	1500
Plant		
Total	**90**	**4500**

8. HRD and Publications

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