KVK, JAU, Targhadia (Rajkot-I)
DETAILS OF ANNUAL PROGRESS REPORT
(1st January 2022 to 31st December 2022)

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, Targhadia-360 023, Rajkot-I, Dist.: Rajkot, Gujarat State	(0281) 2784170	0281) 2784170	kvkrajkot@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. G.V. Marviya	(0281) 2784170	9825554434	gvmaravia@jau.in

1.4. Year of sanction: September – 2004

1.5. Staff Position (as on 31st December, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	If Permanent, please indicate		Date of joining
					Current Pay Band	Current Grade Pay	
1.	Senior Scientist and Head	Dr. G. V. Marviya	9825554434	Bio-chemistry	131400-217100 (UL-13A)	135300/-	1-1-2022
2.	Subject Matter Specialist	Dr. M. M. Tajpara	9427667135	Animal Science	68900-205500 (UL-11)	95400/-	4-8-2015
3.	Subject Matter Specialist	Dr. J. H. Chaudhary	9978303111	Agronomy	57700-182400 (UL-10)	66800/-	1-8-2017
4.	Subject Matter Specialist	Vacant	-	Plant Protection	-	-	-
5.	Subject Matter Specialist	Vacant	-	Horti-culture	-	-	-
6.	Subject Matter Specialist	Shri D. P. Sanepara	9426449712	Agril. Engg.	68900-205500 (UL-11)	104200/-	1-11-2016

7.	Subject Matter Specialist	Smt. H. H. Padsumbiya	9979673732	Home Science	68900-205500 (UL-11)	95400/-	17-2-2022
8.	Programme Assistant	Shri A. B. Dabhi	7990446090	Agronomy	39900-126600 (L-7)	46200/-	7-8-2014
9.	Computer Programmer	Miss. R. T. Padaliya	9979027064	Computer	39900-126600 (L-7)	50500/-	3-1-2009
10.	Farm Manager	S. R. Rathva	9712313538	Plant Breeding	39900-126600 (L-7)	38090/-	30-7-2018
11.	Accountant/ Superintendent	M. D. Vachhani	9825066876	-	25500-81100 (L-4)	44900/-	1-3-2022
12.	Stenographer	Vacant	-	-	-		
13.	Driver 1	Vacant	-	-	-	-	-
14.	Driver 2	Vacant	-	-	-	-	-
15.	Supporting staff 1	Vacant	-	-	-	-	-
16.	Supporting staff 2	Vacant	-	-	-	-	-

1.6. Total land with KVK (in ha):

Sr. No.	Item	Area (ha)
1	Under Buildings	2.87
2.	Under Demonstration Units	0.50
3.	Under Crops	13.80
4.	Horticulture	0.50
5.	Farm Pond	0.48
6.	Others (Road & drainage)	1.85
	Total	**20.00**

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Comple-tion Year	Plinth area (Sq. m)	Expenditure (Rs.)	Starting year	Plinth area (Sq. m)	Status of construction
1.	Administrative Building	KVK	31-3-2011	550	5500000	-	-	-
2.	Farmers Hostel	KVK	31-3-2011	305	3000000	-	-	-
3.	Staff Quarters (6)	KVK	31-3-2011	400	4000000	-	-	-
4.	Demonstration Units: (8)					-	-	-
	Solar water pumping system	ATIC	2019	7.5 HP	262500	-	-	-
	Bio gas plant	RKVY	2007	10 cu.m	42000	-	-	-

	Farm implement demo.	RKVY	2009	Diff. farm implements	-	-	-	-
	Vermi-compost unit	KVK	2018	-	-	-	-	-
	Farm waste compositing	KVK	2019	7 m x 5 m	-	-	-	-
	Entomophagous park	KVK	2018	0.10 ha	-	-	-	-
	Crop cafeteria	KVK	2012	0.10 ha	-	-	-	-
	Kitchen garden	KVK	2018	0.05 ha	-	-	-	-
5	Fencing/ Farm wall					-	-	-
6	Rain Water harvesting system: (5)							
	Farm pond-1	KVK	2012	9000 cu.m capacity	105000	Runoff is collecting from 12 ha agricultural land		
	Farm pond-2	KVK	2010	850 cu.m capacity	-	Runoff is collecting from 2 ha agricultural land and 3 ha building area		
	Roof water harvesting tank	KVK	2017	Size: L: 6.10 m W: 3.10 m H: 2.50 m	204285	Rain water harvesting in underground tank (Cap: 50000 lt.) from 300 sq.m office roof area		
	Open well recharging structure	KVK	2013	Size: L: 2.0 m W: 2.0 m H: 1.5 m	9500	Runoff from 5 ha area for open well recharging		
	Bore well recharging structure	KVK	2018	Size: L: 1.5 m W: 1.0 m H: 1.0 m	12500	Rain water harvesting from 190 sq.m roof area for bore well recharging		
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	KVK	2012	-	400000	-	-	-
9	Seed hub godown	ICAR	2019	196.80	3500000	-	-	-
10	ICT lab	-	-	-	-	-	-	-
11	Store room	RKVY	9-2-10	70.61	454500	-	-	-
12	Training hall	RKVY	11-2-10	190.99	1395800	-	-	-
13	Processing unit	RKVY	11-2-10	197.31	1536400	-	-	-
14	Implement shed	RKVY	9-2-10	77.33	297800	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present status
Jeep (Bolero Neo) (GJ-3GA-1805)	2022	830000	26223	Working
Motorcycle (GJ-3DF-5781)	2010	50000	54769	Working
Tractor (Mahindra 39 HP) (GJ-3CL-7668)	2011	440000	-	Working
Mini Tractor (Mistubishi 18.5 HP) (GJ-3DD-8043)	2000	219000	-	Not working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Generator set	2002	24900	Working
Color TV (Akai)	2002	13850	Working
LCD Project (Panasonic PT LC 50)	2002	164368	Working
PA Audio Vision System	2002	20000	Working
Computer System (Intel Pentium IV)	2003	32000	Working
Computer Genius Desktop (Wipro Super)	2006	-	Working
Refrigerator (Electronic Kelvinator)	2006	10,500	Working
Solar steel digital water plant	2006	45000	Working
Balaji Bio Gas Plant	2007	32000	Working
Tractor Mounted Sprayer (Aspee)	2007	32000	Working
Laptop Computer (HCL)	2008	47500	Working
Air Assisted Blower type Sprayer	2009	98750	Working
Photo Copier Machine (Richo)	2009	115300	Working
LCD Projector (PT-CB50NTE-2GA - Panasonic)	2009	92155	Working
DVD Home theater system with Speaker (HCL)	2009	28000	Working
LCD TV 22” (Model- 22LG30 - L. G.)	2009	27287	Working
Cotton Stalk Shredder	2009	121000	Working
Groundnut Digger-Tractor Operated	2009	78500	Working
Cultivator cum Rotavator	2009	90000	Working
Groundnut Decorticator	2009	95850	Working
Multi Crop Thresher	2009	114000	Working
Processing Unit	2009	1685000	Working
Plantar – Tractor operator	2009	44000	Working
Digital Camera (Nikon) P- 90 12.1	2010	24300	Working
Desktop Veriten PC (Acer)	2016	46032	Working
Digital Xerox Machine with Printer	2016	144391	Working
K-yan Pro standerd	2016	110644	Working
Home UPS inverters system	2016	79000	Working
Smart Television (LG)	2021	189975	Working
Portable Sound System (AHUJA)	2022	17000	Working
Desktop computer (Dell)	2022	25000	Working
Laptop (HP)	2022	40000	Working
Air Conditioner -1.5 ton (Haier)	2022	37500	Working
Air Conditioner -1.5 ton (Haier)	2022	37500	Working
Air Conditioner -1.5 ton (Haier)	2022	37500	Working
Air Conditioner -1.5 ton (Haier)	2022	37500	Working
Desktop computer (Lenovo)	2022	63690	Working
Desktop computer (Lenovo)	2022	63690	Working
Desktop computer (Lenovo)	2022	63690	Working

1.8. Details of SAC meetings to be conducted in the year

Date	Name & Designation of Participants	Salient Recommendations	Action taken
10/03/2022	Prof. (Dr.) N. K. Gontia, Honorable Vice Chancellor, JAU, Junagadh. Dr. H. M. Gajipara, Director of Extension Education, JAU, Junagadh Dr. D. S. Hirpara, ADR & Research Scientist (DF), MDFRS, JAU, Targhadia Dr. R. M. Satasiya, Principal, Polytechnic in Agril. Engg., JAU, Targhadia Dr. G. V. Marviya, Senior Scientist & Head, KVK, JAU, Targhadia, Dist: Rajkot Dr. N. B. Jadav, Senior Scientist & Head, KVK, JAU, Pipalia (Dhoraji), Dist. Rajkot Dr. N. P. Shukla,Senior Scientist & Head, KVK, Lokbharati Sanosara, Dist. Bhavnagar Anjanaben K. Baraiya, Scientist (Home Science), KVK, JAU, Jamnagar Shri S. K. Joshi, Agriculture (Extension), Rajkot Shri R. K. Boghara, Dy. Director of Horticulture, Rajkot Dr. B. K. Dubey, Deputy Director, NHRDF, Naranka, Rajkot Shri D. U. Vaghela, Regional Training Centre, WALMI, Rajkot Dr. S. K. Tiwari, Technical Officer, NHRDF, Naranka, Rajkot Dr. H. C. Chhodvadia, Asso.Extn. Educationalist, DEE office, JAU, Junagadh Prof. Pinky Sharma, AEE, DEE office, JAU, Junagadh Dr. Amit Patel, Dy. Manager, Rajkot Dairy (Gopal Dairy),Rajkot Shri Kiran Patel, Reliance Foundation,Jasdan, Dist: Rajkot Ritaben Vora, Centre for Environment Education, Jasdan, Dist: Rajkot Shri T. B. Gohil, Project Director, DWDU, Rajkot Devendrabhai S. Moliya, Village: Targhadi, Ta: Paddhari, Dist: Rajkot Shri Kalyanbhai C. Ramani, Village: Lilapur, Ta: Jasdan, Dist.: Rajkot Sureshbhai B. Makwana, Village: Bhoyra, Ta: Vinchhiya, Dist: Rajkot Hareshbhai Bholabhai Kakadiya Village: Bhadla, Ta: Rajkot, Dist: Rajkot Dineshbhai J. Rathod, Village: Nani Lakhavad, Ta: Jasdan, Dist: Rajkot Lilaben Chhaganbhai Lakhatariya, Village: Lalavadar, Ta: Vinchhiya, Dist: Rajkot Jamnaben Mohanbhai Dabhi, Village: Barvada, Ta: Jasdan, Dist: Rajkot	➢ To make arrangement of seed selling at KVK, Targhadia for seed produced under Seed-hub project. ➢ MOU should be made with different NGOs like Reliance Foundation. ➢ In OFT on cotton, seed rate 3.75 kg/ha was mentioned which should be corrected as per recommended seed rate of cotton. ➢ Demonstration plot should be prepared for Organic/Natural farming at KVK farm. ➢ More training should be planned on natural farming. ➢ FLDs on crop residues decomposing like wheat straw should be arranged, if possible. ➢ Farm implements demonstration like Agri-drone should be arranged at KVK, Targhadia. ➢ To arrange FLDs on insect-pest and disease management in chilli, coriander and onion. ➢ FLD on Integrated Disease Management (IDM) should be arranged in cumin crop. ➢ Number of soil samples should be increased for soil analysis. ➢ Documentation should be done for ARYA and NICRA project for ICAR Award. ➢ Information board on different Schemes of Government of Gujarat should be displayed at KVK.	All Suggestion Accepted & Implemented except FLDs on insect-pest and disease management in chilli, coriander and onion was not conducted due to vacant post of SMS (Plant Protection)

2. DETAILS OF DISTRICT

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

Sr. No	Farming system/enterprise
1	Groundnut – Wheat/ Cumin/ Chick pea, Cotton – Summer Groundnut/ Sesame/ Pulses
2	Dairy product
3	Farm waste management specially for cotton stalk
4	Fruit and vegetable preservation
5	Value addition in groundnut, sesame, gram, etc.

2.2 Description of Agro-climatic Zone & major agro ecological situations

a) Soil type

Sr. No	Agro-climatic Zone	Characteristics
1.	North Saurashtra Agro Climatic Zone (VI)	The total geographical area of North Saurashtra Agro Climatic Zone is 35.2 Lacs ha. Out of total area, 73.40 per cent area falls under arid and semi-arid region. The soils of this zone are shallow to moderately deep. The soils of Rajkot district is low in their availability of nitrogen while medium in phosphorus and high in available potash except the available phosphorus and potash is in medium category in adopted villages. Monsoon commences usually by the end of June and withdraws by middle of September. Average annual rainfall of district is 648 mm while 725.3 mm during 2022.

b)Topography

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

2.3 Soil types

Sr. No	Soil type	Characteristics	Area in ('000) ha
1.	Clay to clay loam	Medium black calcareous soil	258
2.	Sandy Clay Loam to Clayey	Well drained soil with rapid permeability	301
3.	Sandy to Sandy loam 10 cm, Calcareous	Well drained soils	

2.4. Area, Production and Productivity of major crops cultivated in the district (2021-22)

Sr. No.	Crop	Area (ha)	Production (Tone)	Productivity (Kg. /ha)
1	Groundnut	271007	553556	2043
2	Cotton	198220	295702	1492
3	Sesamum	2041	1973	967
4	Castor	5035	13122	2606
5	Pearl millet	497	470	947
6	Green gram	1978	1246	630
7	Black gram	1446	1572	1087
8	Pigeon pea	3680	6949	1888
9	Wheat	91520	366258	4002
10	Chick pea	145509	327645	2252
11	Cumin	22874	17737	775
12	Groundnut (Summer)	1850	4233	2288
13	Pearl millet (Summer)	522	1486	2846

Source: District agriculture department

2.4 Weather data (2022)

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January	1.1	26.3	10.9	79.9	51.0
February	0.0	30.8	12.8	74.6	26.4
March	0.0	37.3	17.9	65.9	27.2
April	0.0	41.0	21.9	74.0	20.2
May	0.0	41.0	25.4	77.2	30.5
June	47.3	38.6	25.7	77.1	43.1
July	376.6	31.4	23.9	89.3	79.0
August	147.0	31.3	23.4	88.5	69.8
September	153.3	32.6	22.6	86.8	59.4
October	0.0	34.7	20.2	70.7	36.3
November	0.0	33.0	15.8	58.4	25.6
December	0.0	30.0	13.8	56.5	28.2
Total/Ave.	**725.3**	**34.0**	**19.5**	**74.9**	**41.4**

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

Category	Population	Production (tonne)	Productivity
Cattle			
Crossbred	4,52,000	33,26,900 (Milk)	
Indigenous			
Buffalo	3,62,000	52,84,700 (Milk)	
Sheep	2,63,400	2,66,810 (Wool)	
Goats	1,97,000	2,31,240 (Milk)	
Pigs	1,000		
Crossbred			
Indigenous			
Rabbits			
Poultry		**Production of eggs (No.)**	
Hens (*Crossbred)*	13,400	32,52,000 (Egg)	
Desi	7,800	3,92,000 (Egg)	
Category			
Fish (Reservoir)			

2.7 Details of Operational area / Villages

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Jasdan	Cluster I	Barvala Kamlapur Lilapur Shivrajpur Nani lakhavad	Groundnut, Cotton, Sesame, Wheat, Cumin, Chickpea, Garlic, Onion. * Enterprises are dairy business, Vermi composting, Preparation of roasted groundnut and chikki from groundnut and sesame	Pink ball worm in cotton, Heavy infestation of sucking pest in cotton, Phytopthora disease in sesame and White grub infestation in groundnut, Long inter-calving period in buffalo, Nutritional deficiency in animal feed and fodder, Less area under horticultural crops, Anemia problem in adolescent girls	• IPM and INM in major crops of this area • Increase drainage of soil • Reducing the inter-calving period in buffalo • Motivate the farmers for arid horticultural crops. • Efficient use of irrigation water • To create the awareness for grading, processing and marketing (value addition)
2	Vinchhiya	Cluster II	Amrapur Hingolgadh Gundala Bhoyara Lalavadar			
3	Rajkot	Cluster III	Haripar Makanpar Umrali Khachharia Hodathali			

2.8 Priority thrust areas

Sl. No	Crop/ Enterprise	Thrust area
1	Groundnut, Sesame etc	Increasing the productivity of the major crops by adopting the recommended dry farming technologies and to create awareness for value addition.
2	Water conservation	*In situ* soil moisture conservation and rainwater harvesting. Use of cotton stalk for organic manure.
3	Cotton	Motivating cotton growers to adopt IPM and INM practices for reducing the cost of production.
4	Arid Fruits	Promoting the arid horticulture.
5	Livestock production	Enhancing productivity of milch animals by proper feeding and breeding management.
6	Women empowerment	Providing self employment through skill oriented income generating activities
7	Agriculture	Developing interest among youth for agriculture as a profession.
8	Horticulture	Value addition in agriculture produces through proper grading, processing, marketing and information technology.
9	PHT	Minimizing the post harvest losses and to create the awareness for proper storage.
10	Income generating activities	Self employment among rural youth and skill oriented income generating activities.
11	Nutrition management	Care and importance of nutrition in children & pregnant women.

3. TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
9	9	23	23	14	14	175	175

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
81	53	2025	1406	-	1111	-	9889

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
-	141.25	-	-

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

3.1. B. Operational areas details during 2022

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	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Cotton	Low yield of cotton	-	All cluster	OFT, Training
2	Groundnut	Variety	-	All cluster	FLD
		White grub	-	All cluster	FLD and Training
		Stem rot	-	All cluster	FLD and Training
3	Cumin	Wilt in cumin	-	All cluster	FLD, OFT and Training
		Low yield due to sowing method and over irrigation	-	All cluster	
4	Gram	Variety	-	All cluster	FLD and Training
5	Chili	Leaf curl and fruit rot	-	All cluster	OFT
6	Tomato	Variety & Leaf curl	-	All cluster	FLD and OFT
7	Brinjal	Variety	-	All cluster	FLD and Training

3.2. Technology Assessment (*Kharif* 2022, *Rabi* 2021-22, Summer 2022)

A.1. Abstract on the number of technologies assessed/refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation					1					1
Integrated Pest Management										
Integrated Crop Management										
Integrated Disease Management				1	1					2
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology				1						1
Farm Machineries										
Integrated Farming System				1						1
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique			1							1
Mushroom cultivation										
Natural Farming		1								1
TOTAL		**1**	**1**	**3**	**2**					**7**

A.2 Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Fisheries	TOTAL
Evaluation of Breeds							
Nutrition Management	1						1
Disease of Management	1						1
Value Addition							
Production and Management							
Feed and Fodder							
Small Scale income generating enterprises							
TOTAL	**2**						**2**

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 trail covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation	Tomato	Response of new release variety of Tomato GT-6 on leaf curl occurrence and yield	1	3	0.4
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management	Chili	Effect of the fungicide on disease of chili	1	3	0.4
	Cumin	Use of *Trichoderma* for wilt disease management in cumin	1	3	0.4
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology	Cumin	Performance of drip irrigation with line sowing method in cumin	1	3	0.4
Farm Machineries					
Integrated Farming System	Cotton	De-topping in Cotton	1	3	0.4
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique	Pules	Preservation techniques of different pulses with organic methods	1	5	-
Mushroom cultivation					
Natural Farming	Ground-nut	Natural farming in *Kharif* Groundnut	1	1	0.4
Total			**7**	**21**	**2.4**

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

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management	Cows	Chelated & Area Specific Mineral mixture for dairy Cows	1	1
Disease management	Calf	Fortified Health management for reducing calf mortality	1	1
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total			**2**	**2**

C. 1. Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed/Refined	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*
Groundnut	Rainfed	Higher use of chemical fertilizers	Natural farming in *Kharif* Groundnut	**1**	**T1:** Seed treatment through fungicides, Use of chemical fertilizers, Use of Insecticides-Pesticides **(Farmers Practices)**	Yield Kg/ha and White grub infestation (%)					
					T2: FYM @ 10 t/ha, Use of PSB@ 8g/kg seeds, Use of *Trichoderma viride* @ 2.5 kg/ha, Use of *Beauveria bassiana* @ 80 ml per pump, *Metarhyzium anisopliae* @ 5 kg/ha, *Pseudomonas fluorescens* @ 2.5 kg/ha **(Recommended Practices)**						
					T3: Bijamrut @ 20 lit./100 kg seeds, Ghan Jivamrut@ 200 kg/acre in basal dose and 100 kg at flowering stage, Jivamrut @ 200 lit./acre, Use of Dasparni Ark@ Agniastra and Brahmastra @ 6 to 8 lit. dissolved in 100 to 200 lit. of water and spray in 1 acre, Nimastra @ 200 lit. spray in 1 acre without water **(Interventions)**						
Cotton	Rainfed	Low Yield of Cotton	De-topping in Cotton	3	**T1:** Farmers Practices	Seed cotton yield (kg/ha) and No. of bolls/plant (10 plants)					
					T2: De-topping at 75 DAS						
					T3: De-topping of monopodial branches at 75 DAS & 90 DAS						

Chili	Irrigated	Problem of diseases in chilli	Effect of the fungicide on disease of chilli	3	**T1**: 2 sprays of Hexaconazol @ 1ml per litre @ 15 days interval	Yield Kg/ha and infestation (%)					
					T2: Seed treatment of Carbendazime @ 3 gm per seed + soil application of Trichoderma @2.5 kg/ha + Soil drenching of COC@ 40gm/10 lit						
					T3: 2 sprays of Hexaconazol @ 1ml per litre @ 15 days interval + Soil drenching of COC @ 40gm/10 lit						
Tomato	Irrigated	To increase yield of Tomato by decreasing sucking pest infestation by sowing tolerant variety	Response of New Release Variety of Tomato GT-6 on leaf curl occurance and yield.	3	**T1** : :Sowing of Local Variety + any Pesticides.	Yield Kg/ha and infestation (%)					
					T2 : Sowing of GT-6 Variety + any Pesticides.						
					T3 : :Sowing of GT-6 Variety and foliar sprayings of Acephate 75 WP @ 1.5 g / liter 10 days after transplanting, Fipronil 5 SC @ 1.5 ml / liter 20 DAT, and Imidacloprid 70 WG @ 2g / 15 liter 40 DAT						
Cumin	Irrigated	Heavy incidence of wilt disease in cumin	Use of Trichoderma for wilt disease management in cumin	3	**T1: No** use of trichoderma or fungicide at the time of sowing	Yield Kg/ha and infestation (%)					
					T2: Trichoderma @ 5 kg /ha with organic manure @500 kg / ha at the time of sowing.						
					T3: Application of Trichoderma @ 5 kg /ha along with organic manure @500 kg / ha at the time of sowing and second application of Trichoderma @ 5 kg /ha along with organic manure by broadcasting method at 15 days after germination.						

Cumin	Irrigated	Low yield due to sowing method and over irrigation	Performance of drip irrigation with line sowing method in cumin	3	**T1**: Broad casting method without drip irrigation (Farmer's practices)	Yield Kg/ha and B:C Ratio					
					T2: Line sowing (20 cm) with drip irrigation (Recommended technology)						
C**ows**		Low milk production & infertility problems in dairy cow	Chelated & Area Specific Mineral mixture for dairy Cows	1	**T1**: Farmers practices (Control)	Milk Yield (Lit/day) and Estrus after calving (days					
					T2: Cow Fed with 50 gms/day chelated mineral mixture supplementation						
					T3: Cow fed with 50 gms/day chelated & area specific mineral mixture						
Calf		During winter season calf mortality due to Pneumonia, diarrhea & low body weight	Fortified Health management for reducing calf mortality	1	**T1**: Colustrum after birth upto 3 days	calf survival rate (%) and Body weight (%)					
					T2: T1+ Antibiotics (Oxytetracyclin) after 5-7 days						
					T3: T1+ deworming (Panacure) (1st dose -21 days and 2nd dose -42 days)						
					T4: T1 +T2+T3 (colostrum feeding + Antibiotic + deworming)						
Preserva-tion techniques		Lack of knowledge about phase preservation (damage during storage about 30 to 45 percent)	Preserva-tion 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 months					Use of castor oil is very effective to storage of different pulses

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*
Natural farming in *Kharif* Groundnut					
T1 Seed treatment through fungicides, Use of chemical fertilizers, Use of Insecticides-Pesticides **(Farmers Practices)**	NCOF, Gaziabad (U.P.)	1475 (42)	Kg/ha (% Infestation of white grub)	25,100	2.8
T2 FYM@ 10 t/ha, Use of PSB@ 8g/kg seeds, Use of *Trichoderma viride*@ 2.5 kg/ha, Use of *Beauveria bassiana* @ 80 mi per pump, *Metarhyzium anisopliae* @ 5 kg/ha, *Pseudomonas fluorescens* @2.5 kg/ha **(Recommended Practices)**		1350 (43)	Kg/ha (% Infestation of white grub)	23,200	2.5
T3 Bijamrut@ 20 lit./100 kg seeds, Ghan Jivamrut@ 200 kg/acre in basal dose and 100 kg at flowering stage, Jivamrut@ 200 lit./acre, Use of Dasparni Ark@ Agniastra and Brahmastra@6 to 8 lit. dissolved in 100 to 200 lit. of water and spray in 1 acre, Nimastra @ 200 lit. spray in 1 acre without water **(Interventions)**		1200 (50)	Kg/ha (% Infestation of white grub)	21,000	2.1
De-topping in Cotton					
T1 Farmers Practices	Junagadh Agricultural University	3500 (32.00)	Kg/ha (No. of bolls/plant (10 plants)	313000	4.03
T2 De-topping at 75 DAS		3600 (38.00)	Kg/ha (No. of bolls/plant (10 plants)	390000	4.92
T3 De-topping of monopodial branches at 75 DAS & 90 DAS		3900 (40.00)	Kg/ha (No. of bolls/plant (10 plants)	411000	5.28

Effect of the fungicide on disease of chilli					
T1: spray of Hexaconazol @ 1ml per litre @ 15 days interval	JAU, Junagadh	9917 (15)	Kg/ha (% plant infestation)	97750	2.81
T2: Seed treatment of Carbendazime @ 3 gm per seed + soil application of Trichoderma @2.5 kg/ha + Soil drenching of COC@ 40gm/10 lit		13167 (8)	Kg/ha (% plant infestation)	145275	3.78
T3: 2 spray of Hexaconazol @ 1ml per litre @ 15 days interval + Soil drenching of COC@ 40gm/10 lit		10125 (10)	Kg/ha (% plant infestation)	98875	2.87
Response of New Release Variety of Tomato GT-6 on leaf curl occurrence and yield					
T1 : :Sowing of Local Variety + any Pesticides.	Junagadh Agriculture University, Junagadh	15000 (9 to 10)	Kg/ha (% plant infestation)	70700	2.40
T2 : Sowing of GT-6 Variety + any Pesticides.		21000 (3 to 4)		103250	3.06
T3 : Sowing of GT-6 Variety and foliar sprayings of Acephate 75 WP @ 1.5 g / liter 10 days after transplanting, Fipronil 5 SC @ 1.5 ml / liter 20 DAT, and Imidacloprid 70 WG @ 2g / 15 liter 40 DAT		29000 (1 to 2)		109250	3.11
Use of Trichoderma for wilt disease management in cumin					
T1 : No use of *Trichoderma* or fungicide at the time of sowing	JAU, Junagadh	700 (15 to 17)	Kg/ha (% plant infestation)	101050	3.9
T2 : Application of Trichoderma @ 5 kg /ha with organic manure @500 kg / ha at the time of sowing		980 (8 to 9)	Kg/ha (% plant infestation)	129050	4.66
T3 : Application of Trichoderma @ 5 kg /ha along with organic manure @500 kg / ha at the time of sowing and second application of Trichoderma @ 5 kg /ha along with organic manure by broadcasting method at 15 days after germination.		1080 (3 to 4)	Kg/ha (% plant infestation)	144400	4.79

Performance of drip irrigation with line sowing method in cumin					
T1 : Broad casting method without drip irrigation (Farmer's practices)	RTTC, JAU, Junagadh	945	Kg/ha	110975	3.13
T2 : Line sowing (20 cm) with drip irrigation (Recommended technology)		1125	Kg/ha	135872	4.53
Chelated & Area Specific Mineral mixture for dairy Cows					
T1: Farmers practices (Control)	NDRI, Kernal, Hariyana	7.4 and 138	Milk Yield (Lit/day) and Estrus after calving (days)	-	-
T2: Cow Fed with 50 gm/day chelated mineral mixture supplementation		8.6 and 111	Milk Yield (Lit/day) and Estrus after calving (days)	-	-
T3: Cow fed with 50 gm/day chelated & area specific mineral mixture		9.4 and 88	Milk Yield (Lit/day) and Estrus after calving (days)	-	-
Fortified Health management for reducing calf mortality					
T1: Colustrum after birth upto 3 days	IVRI, Izzatnagar	40 and 10	calf survival rate (%) and Body weight (%)		
T2: T1+ Antibiotics (Oxytetracyclin) after 5-7 days		71 and 12	calf survival rate (%) and Body weight (%)		
T3: T1+ deworming (Panacure) (1st dose -21 days and 2nd dose -42 days)		69 and 20	calf survival rate (%) and Body weight (%)		
T4: T1 +T2+T3 (colostrum feeding + Antibiotic + deworming)		89 and 20	calf survival rate (%) and Body weight (%)		

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: **Natural farming in *Kharif* Groundnut**
2. Problem Definition: Deteriorate in yield and quality of groundnut
3. Details of technologies selected for assessment:
    1. Seed treatment through fungicides, Use of chemical fertilizers, Use of Insecticides-Pesticides (**Farmers Practices)**
    2. FYM@ 10 t/ha, Use of PSB @ 8g/kg seeds, Use of *Trichoderma viride* @ 2.5 kg/ha, Use of *Beauveria bassiana* @ 80 mi per pump, *Metarhyzium anisopliae* @ 5 kg/ha, *Pseudomonas fluorescens* @ 2.5 kg/ha **(Recommended Practices)**
    3. Bijamrut @ 20 lit./100 kg seeds, Ghan Jivamrut @ 200 kg/acre in basal dose and 100 kg at flowering stage, Jivamrut @ 200 lit./acre, Use of Dasparni Ark @ Agniastra and Brahmastra@6 to 8 lit. dissolved in 100 to 200 lit. of water and spray in 1 acre, Nimastra @ 200 lit. spray in 1 acre without water (**Interventions)**
4. Source of technology: NCOF, Gaziabad (U.P.)
5. Production system and thematic area: NRM
6. Performance of the Technology with performance indicators:

No	Name of the farmer	Name of the Village	Yield (Kg/ha)		
			T1	T2	T3
1	KVK Farm	Targhadia	1475	1350	1200
Average			1475	1350	1200

Note: In T3 Treatment due to heavy Infestation of white grub, plant population was reduced to 50%

7. Feedback, matrix scoring of various technology parameters recorded through farmer's participation / other scoring techniques: Farmers practices has given higher production as compare to recommended practices and interventions.
8. Final recommendation for micro level situation: Yield can be increased and stem rot infestation can be reduced with use of *Trichoderma* in mixture with castor cake.
9. Constraints identified and feedback for research: - White grub infestation was observed more in recommended practices and interventions treatment.
10. Process of farmers participation and their reaction: The farmers participation in natural Farming is enhanced day by day and they adopting natural farming on their fields also.

OFT-2

1. Title of Technology Assessed : **De-topping in Cotton**
2. Problem Definition : Low Yield of Cotton
3. Details of technologies selected for assessment :
    1. Farmers Practices
    2. De-topping at 75 DAS
    3. De-topping of monopodial branches at 75 DAS & 90 DAS
4. Source of technology: JAU
5. Production system and thematic area: NCM
6. Performance of the Technology with performance indicators:

No	Name of the farmer	Name of the Village	Unit	Result		
				T1	T2	T3
1	Devabhai Dodiya	Anadpar (Ta: Raikot)	Yield (Kg/ha)	3350	3550	3800
2	Vallabhbhai Jamod	Revaniya (Ta: Vinchhiya)		3550	3600	3900
3	Naranbhai Jamod			3600	3650	4000
Average yield				**3500**	**3600**	**3900**

7. Feedback, matrix scoring of various technology parameters recorded through farmer's participation / other scoring techniques : Interventions treatment has given higher production as compare to farmers practice and recommended treatment.
8. Final recommendation for micro level situation : Yield can be increased through De-topping of monopodial branches at 75 DAS & 90 DAS
9. Constraints identified and feedback for research : - De-topping is much laborious work and taking time for operation.
10. Process of farmers participation and their reaction : Farmers are aware about de-topping in cotton and adopting this technology in their farms.

OFT-3

1. Title of Technology Assessed : **Effect of the fungicide on disease of chilli**
2. Problem Definition : Wilt diseases in chilli
3. Details of technologies selected for assessment :

   T1: 2 spray of Hexaconazol @ 1ml per litre @ 15 days interval

   T2: Seed treatment of Carbendazime @ 3 gm per seed + soil application of Trichoderma @2.5 kg/ha + Soil drenching of COC@ 40gm/10 lit

   T3: 2 spray of Hexaconazol @ 1ml per litre @ 15 days interval + Soil drenching of COC@ 40gm/10 lit
4. Source of technology : JAU
5. Production system and thematic area : IDM

6 Performance of the Technology with performance indicators:

No	Name of the farmer	Name of the Village	Unit	Result		
				T1	T2	T3
1	Rameshbhai Khimabhai Sariya	Nani Lakhavad (Ta: Jasdan)	Yield (Kg/ha)	9750	13125	9625
2	Rahulbhai Vinubhai Sariya			10625	12625	9750
3	Hareshbhai Khimabahi Sariya			9375	13750	11000
Average yield				**9917**	**13167**	**10125**
(% plant infestation)				**15**	**8**	**10**

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : T2 has given higher production as compare to T1 & T3
8. Final recommendation for micro level situation : Seed treatment of Carbendazime @ 3 gm per seed + soil application of Trichoderma @2.5 kg/ha + Soil drenching of COC@ 40gm/10 lit should be adopted for wilt diseases control in chilli.
9. Constraints identified and feedback for research : - Farmers are less aware about latest technologies and recommended practices to control wilt in chilli.
10. Process of farmers participation and their reaction : Some Farmers have started to adopt new technology for better production in chilli.

OFT-4

1. Title of Technology Assessed : **Response of New Release Variety of Tomato GT-6 on leaf curl occurrence and yield**
2. Problem Definition： Low yield of Tomato and Heavy Infestation of leaf Curl Virus
3. Details of technologies selected for assessment :
   T1: Sowing of Local Variety + any Pesticides.
   T2: Sowing of GT-6 Variety + any Pesticides.
   T3: Sowing of GT-6 Variety and foliar sprayings of Acephate 75 WP @ 1.5 g / liter 10 days after transplanting, Fipronil 5 SC @ 1.5 ml / liter 20 DAT, and Imidacloprid 70 WG @ 2g / 15 liter 40 DAT
4. Source of technology: JAU
5. Production system and thematic area: IPM

6 Performance of the Technology with performance indicators:

No	Name of the farmer	Name of the Village	Unit	Result		
				T1	T2	T3
1	Mathurbhai Maganbhai Jamod	Revaniya (Ta: Jasdan)	Yield (Kg/ha)	14600	20500	28600
2	Dalubhai Khimabhai Dervaliya	Vangdhra (Ta: Vinchhiya)		15000	21000	28900
3	Jasmatbhai Zverbhai Dervadiya			15300	21700	29400
Average yield				**15000**	**21000**	**29000**
(% plant infestation)				**9 to 10**	**3 to 4**	**1 to 2**

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Interventions has given higher production as compare to Farmers practices and recommended practices.
8. Final recommendation for micro level situation: Farmers should grow latest variety of Tomato GT-6 and carried out foliar sprayings of Acephate 75 WP @ 1.5 g / liter 10 days after transplanting, Fipronil 5 SC @ 1.5 ml / liter 20 DAT, and Imidacloprid 70 WG @ 2g / 15 liter 40 DAT
9. Constraints identified and feedback for research: Farmers are less aware about latest technologies.
10. Process of farmers participation and their reaction: Farmers getting trainings and knowledge for latest technologies for better production in tomato

OFT-5

1. Title of Technology Assessed: **Use of *Trichoderma* for wilt disease management in cumin**
2. Problem Definition: Heavy incidence of wilt disease in cumin
3. Details of technologies selected for assessment:
   T1: No use of *Trichoderma* or fungicide at the time of sowing
   T2: Application of *Trichoderma* @ 5 kg /ha with organic manure @500 kg / ha at the time of sowing.
   T3: Application of *Trichoderma* @ 5 kg /ha along with organic manure @500 kg / ha at the time of sowing and second application of *Trichoderma* @ 5 kg /ha along with organic manure by broadcasting method at 15 days after germination.
4. Source of technology: JAU
5. Production system and thematic area: IDM
6. Performance of the Technology with performance indicators:

No	Name of the farmer	Name of the Village	Unit	Result		
				T1	T2	T3
1	Jahabhai Kadvabhai Zapadia	Barvala (Ta: Jasdan)	Yield (Kg/ha)	725	995	1100
2	Bhikhubhai Jasmatbhai Sakariya			680	980	1065
3	Mukeshbhai Dhirubhai Sakariya			695	965	1075
Average yield				**700**	**980**	**1080**
(% plant infestation)				**15 to 17**	**8 to 9**	**3 to 4**

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: T3 has given higher production as compare to T1 & T2
8. Final recommendation for micro level situation: This is first year of trial final result will be obtained after two-year trial
9. Constraints identified and feedback for research: T3 has given higher production as compare to T2 & T3
10. Process of farmers participation and their reaction: This was first trial for experimentation and it will be waited for farmer participation & reaction

OFT-6

1. Title of Technology Assessed: **Performance of drip irrigation with line sowing method in cumin**
2. Problem Definition: Low yield due to sowing method and over irrigation
3. Details of technologies selected for assessment:
   T1: Broad casting method without drip irrigation (Farmer's practices)
   T2: Line sowing (20 cm) with drip irrigation (Recommended technology)
4. Source of technology: RTTC, JAU, Junagadh
5. Production system and thematic area: Resource Conservation Technology
6. Performance of the Technology with performance indicators:

No	Name of the farmer	Name of the Village	Yield (kg/ha)	
			T1	T2
1	Bhaveshbhai Bhanabhai Makwana	Bhoyara (Ta: Vinchhiya)	970	1165
2	Bholabhai Shambhubhai Makwana		925	1090
3	Dehabhai Manjibhai Makwana		940	1120
Average			**945**	**1125**

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Line sowing with drip irrigation gave higher production of cumin as compare to broad casting method with flood irrigation.
8. Final recommendation for micro level situation: Yield can be increased and disease infestation can be reduced with use of drip irrigation in line sowing of cumin.
9. Constraints identified and feedback for research: -
10. Process of farmers participation and their reaction: Low Disease infestation in line sowing cumin crop with controlled irrigation (i.e. drip irrigation)

OFT-7

1. Title of Technology Assessed**: Chelated & Area Specific Mineral mixture for dairy Cows**
2. Problem Definition: Low milk production & infertility problems in dairy cow
3. Details of technologies selected for assessment:
    1. Farmers practices (Control)
    2. Cow Fed with 50 gms/day chelated mineral mixture supplementation
    3. Cow fed with 50 gms/day chelated & area specific mineral mixture
4. Source of technology: NDRI, Kernal, Hariyana
5. Production system and thematic area: Nutrition Management
6. Production system and thematic area: Nutrition Management
7. Performance of the Technology with performance indicators:

No	Name of the farmer	Name of the Village	Unit	Result		
				T1	T2	T3
1	Rekhaben Dhirubhai Nakrani	Umrali	Milk Yield (Lit/day)	7.4	8.6	9.9
			Estrus after calving (days)	138	111	88

8. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: T3 treatment has given higher production as compare to T1 & T2
9. Final recommendation for micro level situation: Milk Yield can be increased and estrus after calving can be reduced with use of chelated & area specific mineral mixture
10. Constraints identified and feedback for research: - Milk Yield can be increased and estrus after calving can be reduced with use of chelated & area specific mineral mixture
11. Process of farmers participation and their reaction: This was first trial for experimentation and it will be improved and repeated nest.

OFT-8

1. **Title of Technology Assessed:** Fortified Health management for reducing calf mortality
2. Problem Definition: During winter season calf mortality due to Pneumonia, diarrhea & low body weight
3. Details of technologies selected for assessment:
    T1: Colustrum after birth upto 3 days
    T2: T1+ Antibiotics (Oxytetracyclin) after 5-7 days
    T3: T1+ deworming (Panacure) (1st dose -21 days and 2nd dose -42 days)
    T4: T1 +T2+T3 (colostrum feeding + Antibiotic + deworming)
4. Source of technology: IVRI, Izzatnagar
5. Production system and thematic area: Disease Management
6. Production system and thematic area: Health Management
7. Performance of the Technology with performance indicators:

No	Name of the farmer	Name of the Village	Unit	Result			
				T1	T2	T3	T4
1	Bhaveshbhai Jadavbhai Sorthiya	Hodathali	calf survival rate (%)	40%	71%	69%	89%
			Body weight (%)	10%	12%	20%	20%

8. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: T4 has given higher calf survival rate than T1, T2, T3 and higher body weight gain as compare to T1 & T2
9. Final recommendation for micro level situation: This is first year of trial final result will be obtained after two-year trial
10. Constraints identified and feedback for research: - T4 has given higher calf survival rate as compare to T1, T2 & T3
11. Process of farmers participation and their reaction: This was first trial for experimentation and it will be waited for farmer participation & reaction

OFT-9

1. Title of Technology Assessed: **Preservation techniques of different pulses with organic method**

Performance of technology assessed:

No. of Trial	**Name of crop**	**Technology options**	**Data on Parameter**
			Insect infestation (%) after 6 months
5	Chana dal	T1 Use of dry neem leaves	13
		T2 Use of castor oil	4
		T3 Use of airtight plastic bag	8
		T4 Without any treatment	21
	Green gram	T1 Use of dry neem leaves	9
		T2 Use of castor oil	3
		T3 Use of airtight plastic bag	7
		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 2022 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	ICM	Varietal + INM+IDM + IPM	To test yield potentiality of newly released groundnut variety	20	120	150
2	Groundnut	IPM	Varietal evaluation+ IPM through Chlorpyriphos	Management of white grub through seed treatment	15	105	125
3	Chickpea	ICM	Varietal+ INM+IDM+IPM	To test yield potentiality of newly released gram variety	18	185	325
4	Wheat	ICM	INM		7	30	45
5	Cumin	ICM	IPM	Management of pest management	5	55	45
6	Cumin	ICM	Line sowing	Management of pest & disease	8	80	120
7	Seasonal Vegetables	Nutritional Security	Kitchen garden		15	45	-
8	Brinjal	ICM	Varietal evaluation	To test yield potentiality of newly released variety	9	28	15
9	Brinjal	ICM	Varietal evaluation	To test yield potentiality of newly released variety	7	25	12
10	Tomato	ICM	Varietal evaluation	To test yield potentiality of newly released variety	12	30	20
11	Buffalo	Nutrient Management	Bypass Protein (22%)	Increased milk production	14	35	-
12	Buffalo	Nutrient Management	By Pass Fat	Increased milk production	18	40	-
13	Cow	Nutrient Management	Chelated Mineral Mixture	Increased milk fat %	12	30	-
14	Fodder	Fodder Management	Fodder management	Increased milk production	15	35	-

B. Details of FLDs implemented during 2022 (*Kharif* 2022, *Rabi* 2021-22, Summer 2022)

Oilseeds (*Kharif*-2022)**:**

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for short-fall in achievem
					Proposed	Actual	SC/ ST	Others	Total	
1	Groundnut	NRM	Varietal + INM + IDM + IPM	*Kharif* 2022	4.0	4.0	1	9	10	-
2	Groundnut	ICM	IPM Chlorpyriphos	*Kharif* 2022	4.0	4.0	1	9	10	-

Pulses (*Rabi* 2021-22):

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for short-fall
					Proposed	Actual	SC/ ST	Others	Total	
1	Chickpea	ICM	Varietal+ INM+IDM+IP	*Rabi* 2021-22	4.0	4.0	2	8	10	-

Cereals (*Rabi* 2021-22):

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for short-fall
					Proposed	Actual	SC/ ST	Others	Total	
1	Wheat	ICM	INM	*Rabi* 2021-22	2.0	2.0	1	4	5	-

Vegetable

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for short-fall
					Proposed	Actual	SC/ ST	Others	Total	
1	Brinjal	ICM	Varietal evaluation	*Rabi* 2021-22	8.0	8.0	3	17	20	-
2	Brinjal	ICM	Varietal evaluation	*Rabi* 2021-22	4.0	4.0	1	9	10	--
3	Tomato	ICM	Varietal evaluation	*Rabi* 2021-22	8.0	8.0	4	16	20	

Others (Spices & livestock):

Sr. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for short-fall
					Proposed	Actual	SC/ ST	Others	Total	
1	Cumin	ICM	IPM	*Rabi* 2021-22	4.0	4.0	1	9	10	-
2	Cumin	ICM	Line sowing	*Rabi* 2021-22	2.0	2.0	0	5	5	-
3	Buffalo	Nutrient management	Bypass Protein (22%)	2022	-	-	3	17	20	-
4	Buffalo	Nutrient management	By Pass Fat	2022	-	-	2	18	20	-
5	Cow	Nutrient management	Chelated Mineral Mixture	2022	-	-	2	18	20	-
6	Fodder	Fodder management	Fodder management		-	-	1	9	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Groundnut	*Kharif*	RF	M. B.	L	M	H	Wheat/ Cumin	11/6/ 2022	16/10/ 2022	725.3 mm	-
Groundnut	*Kharif*	RF	M. B.	L	M	H	Wheat/ Cumin	4/6/ 2022	2/10/ 2022	725.3 mm	-
Chickpea	*Rabi*	Irrigated	M. B.	L	M	H	G'nut / Cotton	16/11/ 2021	21/2/ 2022	-	-
Wheat	*Rabi*	Irrigated	M. B.	L	M	H	G'nut / Cotton	24/11/ 2021	20/2/ 2022	-	-
Cumin	*Rabi*	Irrigated	M. B.	L	M	H	G'nut / Cotton	24/11/ 2021	20/2/ 2022	-	-

Technical Feedback on the demonstrated technologies

S. No.	Feed Back
1	Recently developed certified varieties of different crops give higher yield.
2	Use of fertilizers, irrigation, insecticides and fungicide as per recommendation reduce the production cost.
3	Low disease infestation and increase in the yield in line sowing method of cumin with use of drip irrigation
4	Stem rot infestation can be reduced with use of *Trichoderma* in mixture with castor cake
5	Yield of cotton can be increased through De-topping of monopodial branches at 75 and 90 DAS

Farmers' reactions on specific technologies

SN	Feed Back
1.	Groundnut variety GJG-32 gave higher yield and low disease infestation as compared to other variety but it required more number of days for maturity
2.	Yield of cotton can be increased through De-topping but De-topping practice is much laborious work and taking time for operation.
3.	Application of *Trichoderma* reduce wilt disease in cumin
4.	Application of *Trichoderma* reduce stem rot infestation in groundnut
5.	Low infestation of pest & disease in line sowing of cumin
6.	Research needed for control of insect-pests and diseases in organic farming
7.	Improve nutritional status of cattle and increase productivity of milch animal through feeding bypass fat and bypass protein
8.	Fresh vegetable available at doorstep and at a time with minimum cost in kitchen gardening

Extension and Training activities under FLD

Sl. No	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	2	Aug. & Feb.	57	-
2	Farmers Training	5	2022	123	-
3	Media coverage	-	-	-	-
4	Training for extension functionaries	2	May and June	58	-

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut	NRM	Varietal + INM+IDM + IPM	GJG-32	10	4.0	25.00	15.00	20.00	18.00	11.11	35000	99000	64000	2.82	33500	88500	55000	2.64
Groundnut	ICM	IPM Chlorpyriphos	GJG-32	10	4.0	20.00	13.00	16.50	15.00	10.00	39500	99850	60350	2.53	37700	88240	50540	2.34

Frontline demonstration on pulse crops :

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Eq Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Chickpea	Varietal evaluation	Varietal+ INM+IDM+IPM	GJG-6	10	4.0	26.00	19.00	22.00	19.00	15.78	27200	111300	84100	4.09	25500	97400	71900	3.81

Frontline demonstration on cereal crops:

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Eq Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Wheat	ICM	INM	GW-451	5	2.0	50.00	43.00	46.00	42.00	9.5	32000	102200	70200	3.24	30500	96500	66000	3.16

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 disease percent		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												
Cumin	IPM	GC-4	10	4	12.00	9.50	10.75	8.20	31.09			42110	157000	114890	3.72	38500	115200	76700	2.99
Cumin	IDM	GC-4	5	2	11.90	8.80	10.00	8.20	29.95			34100	163300	129200	4.78	33000	135000	102000	4.09

FLD on Vegetable crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters disease percent		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												
Brinjal (GJLB-4)	ICM	Varietal evaluation	20	8.0	251.0	135.3	155.25	120.10	29.26			55325	145500	90175	2.62	54100	111300	57200	2.0
Brinjal (GJB-3)	ICM	Varietal evaluation	10	4.0	267.0	130.3	160.0	123.0	30.08			54500	151000	96500	2.77	53000	109000	56000	2.05
Tomato (GT-6)	ICM	Varietal evaluation	20	8.0	250.0	150.5	170.0	130.0	30.70			55500	155300	99800	2.79	54500	125000	70500	2.29

Frontline Demonstration on Nutri cereals : Nil

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										

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of farmers	Major parameters	Fodder waste (kg/animal/day)		% change in major parameter (waste reduction)	Cost reduction Rs./animal/day
					Demo	Check		
Chaff cutter (Capacity 0.5 ton/hr)	Fodder crop (Maize and Sorghum)	Chaff cutter	1	Fodder waste reduction	0.60	3.70	83.78	25.00

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cow	Nutrient Management	Bypass Protein (22%)	20	20 animals	1694 kg/lactation	1472 kg/lactation	15.08			37200	84700	47500	2.28	36000	73600	37600	2.04
Buffalo	Nutrient Management	By Pass Fat	20	20 animals	8.0% Fat	6.7% Fat	19.40			34000	91320	47320	2.68	30000	71400	41400	2.38
Buffalo	Nutrient Management	Chelated Mineral mixture	20	20 animals	1629 kg/lactation	1476kg/lactation	10.36			29000	66160	37160	2.28	27500	59040	31540	2.14
Fodder (Jinjvo)	Fodder Management		10	1	84	72	16.66			81000	136000	55000	1.67	73000	108000	35000	1.48

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)
Different vegetables	Nutritive & fresh healthy vegetables	Kitchen garden	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-

Farm women reaction

-Kitchen gardening gives continues supply of fresh vegetables at lower cost which gives daily nutritious diet
-In kitchen gardening farm women are not applying any agrochemicals so they produce organic vegetables
-Before demonstration, farm women were growing only three to four vegetable crops in their backyard but after demonstration they said that they will grow different vegetable crops through kitchen gardening in scientific way
-They gave extra vegetables to their neighbors
-Farm women said that now we will generate income by selling of extra vegetables because now they are aware about precious organic vegetables
- Due to kitchen gardening children learned to about plant cognization and bio diversity.

3.4. Training Programmes

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	25	0	25	0	0	0	25	0	25
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	1	21	0	21	0	0	0	21	0	21
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation	1	25	1	26	2	0	2	27	1	28
Integrated nutrient management										
Production of organic inputs										
Others (pl. specify) Organic/Natural Farming	2	43	0	43	0	0	0	43	0	43
Total	**5**	**114**	**1**	**115**	**2**	**0**	**2**	**116**	**1**	**117**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising	1	30	0	30	0	0	0	30	0	30
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	**1**	**30**	**0**	**30**	**0**	**0**	**0**	**30**	**0**	**30**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques	1	32	0	32	3	0	3	35	0	35
Others (pl specify)										
Total (b)	**1**	**32**	**0**	**32**	**3**	**0**	**3**	**35**	**0**	**35**

c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	**2**	**62**	**0**	**62**	**3**	**0**	**3**	**65**	**0**	**65**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	1	27	3	30	0	0	0	27	3	30
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**1**	**27**	**3**	**30**	**0**	**0**	**0**	**27**	**3**	**30**

IV Livestock Production and Management										
Dairy Management	1	31	0	31	0	0	0	31	0	31
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	0	16	16	0	5	5	0	21	21
Disease Management	1	19	0	19	2	0	2	21	0	21
Feed & fodder technology	1	18	0	18	7	0	7	25	0	25
Production of quality animal products	1	21	0	21	0	0	0	21	0	21
Others (pl specify)	1	17	0	17	2	0	2	19	0	19
Total	**6**	**106**	**16**	**122**	**11**	**5**	**16**	**117**	**21**	**138**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	2	29	31	0	3	3	2	32	34
Design and development of low/minimum cost diet	1	0	24	24	0	1	1	0	25	25
Designing and development for high nutrient efficiency diet	1	13	31	44	0	7	7	13	38	51
Minimization of nutrient loss in processing										
Processing and cooking	1	0	9	9	0	0	0	0	9	9
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	10	10	0	0	0	0	10	10
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**5**	**15**	**103**	**118**	**0**	**11**	**11**	**15**	**114**	**129**
VI Agril. Engineering										
Farm Machinery and its maintenance	1	28	0	28	0	0	0	28	0	28
Installation and maintenance of micro irrigation systems	1	22	0	22	1	0	1	23	0	23
Use of Plastics in farming practices	1	25	0	25	0	0	0	25	0	25
Production of small tools and implements										
Repair and maintenance of farm machinery and implements	1	24	4	28	2	0	2	26	4	30
Small scale processing and value addition	1	27	0	27	0	0	0	27	0	27
Post Harvest Technology										
Others (pl specify)rain water Harvesting	1	23	1	24	3	0	3	24	3	27
Total	**6**	**149**	**5**	**154**	**6**	**0**	**6**	**153**	**7**	**160**

VII Plant Protection										
Integrated Pest Management	1	18	0	18	0	0	0	18	0	18
Integrated Disease Management	1	20	0	20	0	0	0	20	0	20
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**2**	**38**	**0**	**38**	**0**	**0**	**0**	**38**	**0**	**38**
GRAND TOTAL	**27**	**511**	**128**	**639**	**22**	**16**	**38**	**531**	**146**	**677**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	**No. of courses**	**Participants**								
		Others			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	1	29	0	29	0	0	0	29	0	29
Crop Diversification										
Integrated Farming	1	19	0	19	2	0	2	21	0	21
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**2**	**48**	**0**	**48**	**2**	**0**	**2**	**50**	**0**	**50**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	28	0	28	0	0	0	28	0	28
Others (pl specify)										
Total (a)	**1**	**28**	**0**	**28**	**0**	**0**	**0**	**28**	**0**	**28**

b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	**1**	**28**	**0**	**28**	**0**	**0**	**0**	**28**	**0**	**28**

III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs	1	15	0	15	0	0	0	15	0	15
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**1**	**15**	**0**	**15**	**0**	**0**	**0**	**15**	**0**	**15**
IV Livestock Production and Management										
Dairy Management	3	79	31	110	0	0	0	79	31	110
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology	1	20	0	20	0	0	0	20	0	20
Production of quality animal products										
Others (pl specify)	1	20	0	20	0	0	0	20	0	20
Total	**5**	**119**	**31**	**150**	**0**	**0**	**0**	**119**	**31**	**150**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	16	16	0	0	0	0	16	16
Design and development of low/minimum cost diet	1	0	21	21	0	4	4	0	25	25
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment	1	0	13	13	0	0	0	0	13	13
Location specific drudgery reduction technologies	1	0	27	27	0	2	2	0	29	29
Rural Crafts										
Women and child care	1	0	16	16	0	0	0	0	16	16
Others (pl specify)										
Total	**5**	**0**	**93**	**93**	**0**	**6**	**6**	**0**	**99**	**99**

VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems	1	23	0	23	4	0	4	27	0	27
Use of Plastics in farming practices	2	36	1	37	3	0	3	39	1	40
Production of small tools and implements										
Repair and maintenance of farm machinery and implements	1	23	0	23	0	0	0	23	0	23
Small scale processing and value addition										
Post Harvest Technology	1	16	0	16	0	0	0	16	0	16
Others (pl specify)										
Total	**5**	**98**	**1**	**99**	**7**	**0**	**7**	**105**	**1**	**106**
VII Plant Protection										
Integrated Pest Management	1	22	0	22	0	0	0	22	0	22
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**1**	**22**	**0**	**22**	**0**	**0**	**0**	**22**	**0**	**22**
GRAND TOTAL	**20**	**330**	**125**	**455**	**9**	**6**	**15**	**339**	**131**	**470**

Farmers' Training including sponsored training programmes – CONSOLIDATED

(On + Off campus)

Thematic area	**No. of courses**	**Participants**								
		Others			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production										
Weed Management	1	25	0	25	0	0	0	25	0	25
Resource Conservation Technologies										
Cropping Systems	1	29	0	29	0	0	0	29	0	29
Crop Diversification										
Integrated Farming	2	40	0	40	2	0	2	42	0	42
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation	1	25	1	26	2	0	2	27	1	28
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)	2	43	0	43	0	0	0	43	0	43
Total	**7**	**162**	**1**	**163**	**4**	**0**	**4**	**166**	**1**	**167**

II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising	1	30	0	30	0	0	0	30	0	30
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	28	0	28	0	0	0	28	0	28
Others (pl specify)										
Total (a)	**2**	**58**	**0**	**58**	**0**	**0**	**0**	**58**	**0**	**58**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques	1	32	0	32	3	0	3	35	0	35
Others (pl specify)										
Total (b)	**1**	**32**	**0**	**32**	**3**	**0**	**3**	**35**	**0**	**35**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										

f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	**3**	**90**	**0**	**90**	**3**	**0**	**3**	**93**	**0**	**93**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	1	27	3	30	0	0	0	27	3	30
Production and use of organic inputs	1	15	0	15	0	0	0	15	0	15
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**2**	**42**	**3**	**45**	**0**	**0**	**0**	**42**	**3**	**45**
IV Livestock Production and Management										
Dairy Management	4	110	31	141	0	0	0	141	0	141
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	0	16	16	0	5	5	0	21	21
Disease Management	1	19	0	19	2	0	2	21	0	21
Feed & fodder technology	2	38	0	38	7	0	7	45	0	45
Production of quality animal products	1	21	0	21	0	0	0	21	0	21
Others (pl specify)	2	37	0	37	2	0	2	39	0	39
Total	**11**	**225**	**47**	**272**	**11**	**5**	**16**	**267**	**21**	**288**

V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	2	45	47	0	3	3	2	48	50
Design and development of low/minimum cost diet	2	0	45	45	0	5	5	0	50	50
Designing and development for high nutrient efficiency diet	1	13	31	44	0	7	7	13	38	51
Minimization of nutrient loss in processing										
Processing and cooking	1	0	9	9	0	0	0	0	9	9
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	10	10	0	0	0	0	10	10
Women empowerment	1	0	13	13	0	0	0	0	13	13
Location specific drudgery reduction technologies	1	0	27	27	0	2	2	0	29	29
Rural Crafts										
Women and child care	1	0	16	16	0	0	0	0	16	16
Others (pl specify)										
Total	**10**	**15**	**196**	**211**	**0**	**17**	**17**	**15**	**213**	**228**
VI Agril. Engineering										
Farm Machinery and its maintenance	1	28	0	28	0	0	0	28	0	28
Installation and maintenance of micro irrigation systems	2	45	0	45	5	0	5	50	0	50
Use of Plastics in farming practices	3	61	1	62	3	0	3	64	1	65
Production of small tools and implements										
Repair and maintenance of farm machinery and implements	2	47	4	51	2	0	2	49	4	53
Small scale processing and value addition	1	27	0	27	0	0	0	27	0	27
Post-Harvest Technology	1	16	0	16	0	0	0	16	0	16
Others (pl specify)	1	23	1	24	3	0	3	24	3	27
Total	**11**	**247**	**6**	**253**	**13**	**0**	**13**	**258**	**8**	**266**
VII Plant Protection										
Integrated Pest Management	2	40	0	40	0	0	0	40	0	40
Integrated Disease Management	1	20	0	20	0	0	0	20	0	20
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**3**	**60**	**0**	**60**	**0**	**0**	**0**	**60**	**0**	**60**
GRAND TOTAL	**47**	**841**	**253**	**1094**	**31**	**22**	**53**	**901**	**246**	**1147**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated farming	1	0	65	65	0	10	10	0	75	75
TOTAL	**1**	**0**	**65**	**65**	**0**	**10**	**10**	**0**	**75**	**75**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Natural Farming	2	51	0	51	7	0	7	58	0	58
TOTAL	**2**	**51**	**0**	**51**	**7**	**0**	**7**	**58**	**0**	**58**

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General/Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)	1	37	5	42	4	0	4	41	5	46
Total	**1**	**37**	**5**	**42**	**4**	**0**	**4**	**41**	**5**	**46**
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	0	30	30	0	0	0	0	30	30
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total	**1**	**0**	**30**	**30**	**0**	**0**	**0**	**0**	**30**	**30**
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL	**2**	**37**	**35**	**72**	**4**	**0**	**4**	**41**	**35**	**76**

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

Area of training	No. of Courses	No. of Participants								
		General/Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Livestock Production and Management										
Scientific Dairy Farming	1	25	25	50	0	0	0	25	25	50
Total	**1**	**25**	**25**	**50**	**0**	**0**	**0**	**25**	**25**	**50**

3.5. Extension Programmes

Sr. No.	Activities and Sub-activities	Area (ha)/ No.	Beneficiaries (No.)
1	Field Day	2	57
2	Kishan Gosthi	3	32
3	Kisan Mela	3	345
4	Exhibition	1	385
5	TV Programme	1	-
6	Radio Talk	1	-
7	Press Release	8	-
8	Lecture Delivered	29	1362
9	Telephonic Help Line	998	998
10	Khedut Shibir	1	1009
11	Scientist Visit to Farmers field	8	41
12	Farmers Visit to KVK Farm	18	740
13	Extn. Literature distributed	5	950
14	TV/Film Show	6	596
15	Exposure visit	2	112
16	Animal Treatment Camp	3	179
17	Soil and Water testing	1	400
18	PM Kisan Samman Sammelan	3	514
19	Celebration of international pulse day	1	65

20	Celebration of international women day	1	190
21	Celebration of International Yoga Day and Awareness on Balanced use of Fertilizer and Awareness on Region Specific Agroforestry	1	49
22	Celebration of ICAR foundation day	1	110
23	Celebration of *Parthenium* week	1	50
24	Celebration of Mahila kisan diwas	1	30
25	Celebration of poshan abhiyan and tree plantation	1	51
26	Celebration of Technology week	1	385
27	Celebration of swachta pakhwadia	1	579
28	Celebration of World soil health day	1	47
29	Celebration of Kishan Diwas	1	86
30	Input dealer training	6	356
31	Celebration of Jal Shakti Abhiyan	1	171

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	-
Extension Literature	-
Newspaper coverage	8
Popular articles	-
Radio Talks	1
TV Talks	1
Animal health camps (Number of animals treated)	3 (179)
Others (pl. specify)	-
Total	**13**

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Oilseeds	Groundnut (Breeder)	GJG-31	-	12.00 Expected	-	-
	Groundnut (Breeder)	GJG-32	-	31.50 Expected	-	-
	Groundnut (TF)	GJG-32	-	24.00 Expected	-	-
Pulses	Chickpea (Breeder)	GG-5	-	23.65	-	-
	Chickpea (Foundation)	GG-5	-	50.10		

4. LITERATURE DEVELOPED/PUBLISHED (with full title, author & reference)

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

B. Literature developed/published

Item	Title	Authors name	Name & Number
Research papers/ Abstract	Altered expression levels of transcripts of GNAC TFs during drought stress in susceptible and tolerant cultivaras of groundnut	Feba Jacob, Mahesh Mahatma, Yogita Deshmukh, Umesh K. Kandoliya, **G. V. Marviya**, Meera Joshi and Ashish Vala	Plant Stress, 3:1-8 January 2022
	Seroprevalence of PPR Virus in Pre- and Post-Vaccinated Sheep and Goats of Saurashtra Region of Gujarat	**M. M. Tajpara** J. B. Kathiriya and H. H. Savsani	International Journal of Current Microbiology & Applied Sciences, 11(2): 275-283, February 2022
	The Role of Self-Help Groups in Women Empowerment in Rajkot District of Gujarat (Research Paper)	**Hetal A. Manvar** and Dr. Mita Raviraj Rajpura,	Ayudh International Peer-Reviewed Referred Journal, ISSN-2321: 2160, Impact factor: 4.7, VoI-4, April 2022
	Impact of training programme on livelihood of rural women of Rajkot district of Gujarat (Abstract)	**Manvar H. A**,1, Kathiriya J. B.2, Saradva D. A.3 and Hirapara D. S.4.	*SEEG National Seminar-2022 Souvenir*, 24-25 June 2022 JAU, Junagadh (ES-57 page No 212)
	Adoption level of the dairy farmers about recommended improved animal husbandry practices	**M. M. Tajpara** B. N. Kalsariya V. P. Dadhania and B. B. Kabaria	SEEG National Seminar-2022 Souvenir, 24-25 June 2022 JAU, Junagadh (ES-67 page No 217)
	Knowledge of dairy farmers towards recommended animal husbandry practices in Rajkot district	**M. M. Tajpara** B. N. Kalsariya B. B. Kabaria and V. P. Dadhania	SEEG National Seminar-2022 Souvenir, 24-25 June 2022 JAU, Junagadh (ES-68 page No 218)
	Socio personal characteristics of dairy farmers about improved animal husbandry practices in Rajkot district	**M. M. Tajpara** B. N. Kalsariya V. P. Dadhania and B. B. Kabaria	SEEG National Seminar-2022 Souvenir, 24-25 June 2022 JAU, Junagadh (RLD 121 page No 410)
	Application of climate resielient technologies in NICRA village of Rafala	**M. M. Tajpara** B. N. Kalsariya B. B. Kabaria and V. P. Dadhania	SEEG National Seminar-2022 Souvenir, 24-25 June 2022 JAU, Junagadh (GI-41 page No 482)
	Isolation of PPRV in vero cell line from Saurashtra region of Gujarat	**M.M. Tajpara** D.R. Patel and P. M. Makwana	The Pharma Innovation Journal, 11(12): 2496-2499, November 2022
Technical reports	Monthly, quart, Six monthly and Annual	Junagadh Agri. University	19
Others			

C. 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	11	1020
5	Twitter Account	1	10
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).

(1) Higher yield of cotton through drip irrigation system

Name of Farmer:	Babubhai Devabhai Ramani
Village :	Khorana
Taluka :	Rajkot
District :	Rajkot
Mo. No.:	6352115172
Age :	65 Years
Education :	5th Pass
Land Holding :	14 Acre
Livestock :	Gir Cow-1
Crops Grown :	Cotton, Groundnut, Wheat, Chickpea,

Special Recognition:

Babubhai Devabhai Ramani is a progressive farmer of Khorana village of Rajkot Taluka. He always uses to adopt new technologies to obtain higher production and maximum net return from the farming. He attends the majority of the training as well as other programmes organized at KVK, Targhadia (Rajkot-I) and implements the new technologies in his field. With the technical guidance of KVK, he cultivates the *Bt*. Cotton crop with drip irrigation system since last four years.

Babubhai has adopted drip irrigation system in cotton crop since 2019-20 and cultivates cotton crop with drip irrigation every year. He got cotton yield of 1250 kg/acre, 1325 kg/acre, 1300 kg/acre and 1350 kg/acre during the years of 2019-20, 2020-21, 2021-22 and 2022-23, respectively. He has cultivated the *Bt*. Cotton in 5 acre with drip irrigation system during the year 2022-23 and received total production of 6750 kg from 5 acre land area and earned total Rs. 6,41,250/- with net profit of Rs. 4,96,250/-.

Babubhai says **" There is no age for learning, one can learn at any age"**

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

- Use of cow urine, butter milk, bajra flour, etc. for insect pest and disease management.
- Use of small or wrinkle seeds of groundnut for sowing purpose.
- Farmers grow maize as a mixed crop in groundnut and inter crop in cotton is best

  Practices for sucking pest management by attracting the natural enemies.
- Cotton Stalk Shredder
- Tractor mounted spryer
- Chaff cutter for minimizing the animal fodder waste
- IPM in cotton-Use of Trap crop, Pheromone trap, etc.
- Minimizing the chemical fertilizer and maximizing organic manure.
- Value addition in different agriculture crops like groundnut, sesame etc.

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Groundnut	Farmers maintain a set furrow system and apply manure and fertilizers every year in the same furrow.	To get residual effect of manure and fertilizers in succeeding crop
	Groundnut	Some farmers near the river bed, apply sand in the set furrow for increasing infiltration rate of the soil	To reduce the water Logging condition in the field
	Groundnut	Farmers grow maize as mix crop in groundnut	To increase natural enemies & fodder purpose
2	Kharif crops	Farmer apply lifesaving supplementary irrigation to the crops during moisture stress condition	For life saving irrigation to minimize the risk of crop failure
3	Cotton	Farmers grow maize after 3-4 rows of cotton	To increase the natural enemies and fodder purpose
4	Cotton	After heavy rain, farmer apply irrigation to balance the salt concentration at top of soil	To balance the salt concentration
5	Livestock (Cow, Buffalo)	Use of salt in cotton seed cake	Increase milk production
		Use of calcium carbonate in water tank	For control of bacterial infection and calcium deficiency
		Use of petrol and diesel in wound	For control of maggot wound

5. LINKAGES

A. Functional linkage with different organizations

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

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Agricultural Technology Information Center (ATIC)	2004	Govt. of Gujarat	16,40,000/-
Cluster Frontline Demonstrations on Rabi Pulses under NFSM	2015-16	ICAR-New Delhi	1,80,000/-
Cluster Frontline Demonstrations on Oilseeds under NMOOP	2015-16	ICAR-New Delhi	2,40,000/-
Attracting and Retaining Youth in Agriculture (ARYA)	2015-16	ICAR-New Delhi	7,46,350/-
Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India	2016-17	ICAR-New Delhi	-
Capacity building of Farmers through training program on profitable diary farm and livestock management Scheme	2021-22	ICAR-New Delhi	1,88,651/-
Out scaling of Natural Farming through KVKs	2022-23	ICAR-New Delhi	2,51,000/-
Kisan Bhagidari Prathmikta Hamari	2022-23	ICAR-New Delhi	60,592/-

C. Details of linkage with ATMA

Is ATMA implemented in your district : Yes

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	Staff meeting	2	-	-
02	Research Projects				-
03	Training Programmes	Farmer training	5	1	-
04	Demonstrations	Technology demonstration	2	2	
05	Extension Programmes				
	KisanMela		-	-	-
	Technology Week		1	1	-
	Exposure visit		4	-	-
	Exhibition		-	-	
	Soil health camps		-	-	-
	Animal Health Campaigns		-	-	-
	Others		-	-	-
06	**Publications**				-
	Video Films				-
	Books				-
	Extension Literature				-
	Pamphlets				-
	Others (Pl. specify)				-
07	**Other Activities (Pl.specify)**				
	Watershed Approach				-
	Integrated Farm Development				

D. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	FLD on Wheat	-	0	-	-
2	FLD on Chickpea	-	0	-	

E. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	**Pulses:** CFLDs, Training, Agro Advisory and Literature distribute	District Agri. Department , Rajkot	1,80,000/-	75,000/-	-
2	**Oilseeds:** CFLDs, Training, Agro Advisory and Literature distribute	District Agri. Department , Rajkot	2,40,000/-	1,09,750/-	-

7. Convergence with other agencies and departments: Yes

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) : Nil

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

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

1. Many farmers adopted soybean as a new crop in this area.
2. Sowing area of groundnut variety GJG-32 increased.
3. Heavy infestation of white grub in groundnut in sporadic area particularly in natural farming system.
4. Research needed for control of insect-pests and diseases in organic/ natural farming.
5. Low incidence of pink ball worm in cotton crop.
6. Lumpy skin disease in cattle.
7. Late and poor germination was observed in cumin variety GC-4
8. Cumin variety GC-4 is high yielding but gradually loosing wilt resistant character
9. Heavy infestation of thrips in crops like garlic, onion, cotton, tomato, brinjal, chilly etc.
10. Wilt disease was found in chickpea

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

1. Research needed for control of insect-pests and diseases in organic farming
2. *Colletotricum* fungus (Onion ring disease) in *Kharif* onion
3. Longer inter calving period in buffalo

11. Technology Week celebration during 2022: Yes

Period of observing Technology Week: From to 12th to 17th September 2022
Online / Offline: Offline
Total number of farmers visited: 418
Total number of agencies involved: 5
Number of demonstrations visited by the farmers within KVK campus: 7

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	-	-	
Lectures organized	12	418	Agronomy, plant protection, Value addition, Natural resort management, Livestock production and management
Exhibition	1	418	Agri equipment and demo unit
Film show	2	418	Crop and livestock technology

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Fair	-	-	-
Farm Visit	6	402	Field and Demo unit visit
Diagnostic Practical's	2	102	Groundnut
Supply of Literature (No.)	-	418	Pamphlet of agriculture and livestock
Supply of Seed (q)	-	-	
Supply of Planting materials(No.)	-	-	
Bio Product supply (Kg)	-	-	
Bio Fertilizers (q)	-	-	
Supply of fingerlings	-	-	
Supply of Livestock specimen (No.)	-	-	
Total number of farmers visited the technology week	-	418	

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

- Nil -

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)
Improved variety of Cumin (GC-4)	265	85	35000	52000
Improved variety of Gram (GJG-5)	198	75	32500	43000
New variety of Groundnut (GJG-32)	355	60	45000	63000
Wheat variety (GW-496, 366)	210	80	32500	38000
Use of *Trichoderma* for the control of stem rot in groundnut	425	75	30200	35000
Use of mineral mixture in buffalo	235	65	39000	44000

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

B. Cases of large-scale adoption

(Please furnish detailed information for each case)

- Adoption of *Trichoderma* for the management of stem rot disease in groundnut.
- Adoption of *Bt.* cotton varieties with INM and IPM concepts.
- Farmers prefer to sow high yielding variety of groundnut i.e. semi spreading variety GG-20 & GJG-22 and bunch variety GJG-32.
- Most of the farmers adopt variety of cumin (GC-4) which is resistant to wilt disease
- Intercropping/mix cropping in groundnut and cotton was adopted for minimize the risk factor in dry land agriculture with preservation of natural enemies.
- Farmers prefer to sow bold seeded variety of chickpea GJG-3
- Farmers are ready to use of rotavator/ cotton shredder/ mobile chopper for increasing the organic matter in soil particularly in *Bt*. Cotton cropping system

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

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2022	2	3000	
Feb 2022	2	3000	
March 2022	2	3000	
April 2022	2	3000	
May 2022	2	3000	
Jun 2022	2	3000	
Jul 2022	2	3000	
Aug 2022	2	3000	
Sept 2022	2	3000	
Oct 2022	2	3000	
Nov. 2022	2	3000	
Dec. 2022	2	3000	

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
Rajkot-I	Text only	5	1	19	-	2	-	27
	Voice only							
	Voice & Text both							
	Total Messages							
	Total farmers Benefitted		**3000**	**3000**	**-**	**3000**	**-**	**-**

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remark
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Vermi composting	2018	0.05	-	-	-	-	-	-
2	Nadep composting	2019	7 x 5 m	-	-	-	-	-	-
3	Crop cafeteria	2012	0.10	Latest variety of different crops					
4	Kitchen garden	2018	0.05	Different vegetable crops					
5	Organic farming	2016	1.00	-	-	-	-	-	-
6	Natural farming	2022	1.00	-	-	-	-	-	-

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	
Pulses:									
Gram	30-10-21	01-03-22	1.00	GG-5	Breeder	2365	-	300000	
Gram	24-11-21	11-03-22	3.00	GG-5	Foundation	5010	-	310000	
Oilseeds:									
Groundnut	05-7-22	19-10-22	1.80	GJG-31	Breeder	1200	-	-	
Groundnut	06-7-22	08-11-22	6.35	GJG-32	Breeder	3150	-	-	
Groundnut	08-7-22	15-11-22	5.65	GJG-32	TF	2400	-	-	

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

Sl. No.	Bio Products	Name of the Product	Qty (kg/lit)	Amount (Rs.)		Remarks
				Cost of inputs	Gross income	
1	Bio- Fertilizers					
2	Bio-Fungicides					
3	Bio- pesticides					
4	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. Details on Rain Water Harvesting Structure and micro-irrigation system

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
-	-	-	2	2	-	102	1	-	4.00

F. Performance of Nutritional Garden at KVK farm

If Nutritional Garden developed at KVK farm/Village Level: 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
0.1	Vegetable crops	15	203
	Fruit crops	3	
	Others if any	3	

Nutritional Garden developed at Village Level (Area under nutritional garden)

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
5	Vegetable crops	15	5
	Fruit crops	5	
	Others if any	-	

16. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

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

B. Utilization of KVK funds during the year 2022-23 (Rs. in lakh) (Till Jan., 2023)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	125.00	92.74	108.63
2	**Traveling allowances**			
3	**Contingencies**	14.32	5.82	5.81
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and Equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
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)	**139.32**	**98.56**	**114.44**
B. Non-Recurring Contingencies		0.00	0.00	0.00
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
	TOTAL (B)			
GRAND TOTAL (A+B)		**139.32**	**98.56**	**114.44**

C. Status of revolving fund (Rs.) for the four 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	26,56,467	19,39,208	19,41,027	26,54,648
April 2020 to March 2021	26,54,648	23,54,367	17,89,147	32,19,868
April 2021 to March, 2022	32,19,868	19,58,910	22,27,738	29,51,040
April 2022 to Dec. 2022	29,51,040	19,45,738	13,11,482	35,85,296

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/Offline)	Dates
Dr. G. V. Marviya, Dr. M. M. Tajpara Dr. J. H.Chaudhary	Senior Sci. & Head, Scientist(AH) Scientist (Agronomy)	Online Faculty Development Programme for Extension Functionaries	DEE, JAU, Junagadh	Online	3-5 Feb. 2022
Dr.J.H.Chaudhary	Scientist (Agronomy)	Sustainable Entrepreneurship in Agriculture, Horticulture, Fisheries, Animal Husbandry & Allied Sectors for Economic Development of India	Online	Online	01-21 March, 2022
Smt. H. H. Padsumbiya	Scientist (Home Science)	"Your discipline, your issues in contemporary Era"	DH College Rajkot	Online	20 April 2022
Dr. M. M. Tajpara	Scientist (Animal Husbandry)	Entry of DFI stories into excel	ICAR-ATARI-Pune	Offline	23-24 May
Shri D. P. Sanepara	Scientist (Agril. Engg.)	Participatory Extension Management Skills in Agriculture & Allied Field	EEI, AAU, Anand	Offline	23-28 May 2022
Dr. G. V. Marviya	Senior Scientist and Head	XII Biennial National KVK Conference-2022	Dr. Y. S. Parmar Uni. Of Horti. & Forestry,Solan, Nauni, Homachal paradesh	Offline	1-2 June 2022

Shri D. P. Sanepara Smt. H. H. Padsumbiya	Scientist (Agril. Engg. Scientist (Home Scie.)	Success Story Writing Skills for Print & Electronic Media	DEE, JAU, Junagadh	Offline	8-10 June 2022
Dr. G. V. Marviya, Dr. M. M. Tajpara Dr. J. H.Chaudhary	Senior Sci. & Head, Scientist(AH) Scientist (Agronomy)	Upgradation of HRD skills for extension personnel	DEE, JAU, Junagadh.	Offline	13-15 June 2022
Smt. H. H. Padsumbiya	Scientist (Home Scie.)	"Synergetic Extension Approaches for Livelihood Improvement and Agricultural Development"	JAU, Junagadh	Offline	24-25 June 2022
Dr. M. M. Tajpara	Scientist (Animal Husbandry)	Natural faming workshop	JAU, Junagadh	Offline	30 June 2022
Dr. G. V. Marviya	Senior Scientist and Head	Annual Zonal Workshop on KVKs of ZoneVIII	AAU, Anand	Offline	7-9 July 2022
Dr.J.H.Chaudhary	Scientist (Agronomy)	Natural Farming Orientation cum Training Programme	Kurukshetra Haryana	Offline	08-09 December, 2022