

ANNUAL PROGRESS REPORT

(JANUARY-2023 TO DECEMBER, 2023)

SUBMITTED TO
ICAR-ATARI,
ZONE-VIII, PUNE



SUMMITTED BY
KRISHI VIGYAN KENDRA
SAMODA-GANWADA
TA.SIDHPUR, DIST.PATAN (GUJARAT)

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 Saraswati Gram Vidhyapith Samoda-Ganwada Ta.Sidhpur, Di. Patan Gujarat, Pin. 384 151	Office	FAX	kvksamoda@yahoo.com	www.kvkpatan.in
	-	-		

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

Address	Telephone		E mail	Website address
	Office	FAX		
Saraswati Gram Vidyapeeth, Samoda-Ganwada Ta.Sidhpur, Di. Patan Gujarat, Pin. 384 151 (N.G.)	Office	FAX	<u>kvksamoda@yahoo.com</u>	www.kvkpatan.in
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1.3. Name of the Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Upesh Kumar Senior Scientist and Head Krishi Vigyan Kendra Samoda-Ganwada Ta.Sidhpur, Di.Patan Gujarat Pincode-384151	Office	Mobile	kvksamoda@yahoo.com
	-	7974415593	

1.4. Date and Year of sanction: 1993

1.5. Staff Position (as on December, 2021)

Sl. No.	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
					Current Pay Band	Current Grade Pay		
1.	Senior Scientist and Head	Dr.Upesh Kumar	9425661514	Plant Pathology	Level-13A	-	01/10/2016	
2.	Subject Matter Specialist	Vacant		Plant Pathology	Level-10	-		
3.	Subject Matter Specialist	Vacant		Ext.Edu	Level-10	-		
4.	Subject Matter Specialist	Smt. H.M.Patel	9909497009	Home Science	Level-10	-	19/08/2002	
5.	Subject Matter Specialist	Shri S.S. Darji	9909941995	Horticulture	Level-10	-	02/04/2012	
6.	Subject Matter Specialist	Shri R.P.Chaudhari	9574620447	Agronomy	Level-10	-	16/04/2015	
7.	Subject Matter Specialist	Shri S.J.Patel	9662654302	Animal Science	Level-10	-	01/09/2016	
8.	Programme Assistant	Smt. J.S.Patel	9909847367	-	Level-6	-	27/07/1996	
9.	Computer Programmer	Shri D.R.Patel	9979161440	-	Level-6	-	06/05/1993	
10.	Farm Manager	Shri D.N.Patel	9825703608	-	Level-6	-	22/02/1996	
11.	Accountant/Superintendent	Vacant		-	Level-6	-		
12.	Stenographer	Shri J.K.Patel	9909301273	-	Level-4	-	25/01/1996	
13.	Driver 1	Shri R.A.Patel	9727016216	-	Level-3	-	14/08/2010	
14.	Supporting staff 1	Shri R.H.Desai	9879536469	-	Level-2	-	14/05/1993	
15.	Supporting staff 2	Shri R.D.Thakor	9586532371	-	Level-2	-	25/01/1996	
16.	Supporting staff 3	Shri P.V.Senma	9913298630		Level-2	-	25/01/1996	

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	2.00
3.	Under Crops	9.00
4.	Horticulture	5.00
5.	Pond	-
6.	Others if any (Specify)	3.00
	Total	20.00

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	1993	694	21,87,250=00	-	-	-
2.	Farmers Hostel	ICAR	1999-2000	308.82	12,37,848=11	-	-	-
3.	Staff Quarters (9)	ICAR	1996-97	731	16,89,512=74	-	-	-
4.	Demonstration Units (2)	RKVY	2012-13	4,000	5,45,000=00	-	-	-
5.	Fencing	ICAR	2001-02	-	2,99,902=00	-	-	-
6.	Rain Water harvesting system	-	-	-	-	-	-	-
7.	Threshing floor	ICAR	2006-07	262.89	2,68,039=00	-	-	-
8.	Farm Godown	ICAR	2006-07	44.89		-	-	-
9.	Implement shed	ICAR	2011-12	-	285640=00	-	-	-
10.	Other	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present status
Tractor	2019-20	6,13,417.00		New tractor
Jeep	2009-10	7,60,236.00		Working
Motorcycle	2010-11	49,695.00		Working

C) Equipments & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Slide Projector/ O.H.P.	1994	23,969=00	Working
Mega Phone	1994	2,140=00	Working
Computer + Printer	2006	66,530=00	Working
Stabilizer	2006	1,750=00	Working
LCD Projector	2007	54,326=92	Working
DVD Player	2007	3,846=16	Working
Laptop	2007	39,423=08	Working
P.A. System	2009	28,600=00	Working
Computer	2009	49,500=00	Working
Generator	2009	98,500=00	Working
Fax machine	2009	19,800=00	Working
Multicrop thresher	2011	1,46,000=00	Working
Rotary weeder	2011	51,450=00	Working
Power sprayer	2011	15,855=00	Working
Seed cum fertilizer drill	2011	27,250=00	Working
K-YAN	2013	76,650=00	Working
Oven	2014	7200=00	Working
Sewing Machine	2014	8700=00	Working
Computer (Dell inspiron 3250) (No.2)	2017	68000=00	Working
Epson –M-200 printer (No.1)	2017	12000=00	Working
AC (No.2)	2017	98000=00	Working
Podium –PD-900	2017	40000=00	Working
Promax audio trally	2017	16000=00	Working
Interactive white board-IR80	2017	32000=00	Working
Double sided pinup board	2017	17050=00	Working
Folding banner stand	2017	2000=00	Working
Projection screen	2017	3200=00	Working
Camera (No.3)			

Canon DLSR	2017	43495=00	Working
Sony digital	2017	8390=00	Working
Sony Handy cam	2017	31990=00	Not working (Destroy)
Philips 55' digital signage display	2017	99800=00	Working
Magazin display stand (No.2)	2017	7640=00	Working
Motorized scroller	2017	17300=00	Working
Acrylic charts (57)	2017	79800=00	Working
Rolling charts (27)	2017	8910=00	Working
Standy with flex banner (No.4)	2017	3680=00	Working
GPS-Navigator	2017	8000=00	Working
Sprayers No.4)	2017	14650=00	Working
-Aspee durotekic battery sprayer	2017		
-Aspee Bolo motorized knapsack sprayer	2017		
-Aspee duroteck hitech sprayer -Aspee (Marut sprayer)	2017		
Nursery tools	2017	35965=00	Working
Water cooler with purifier	2017	52100=00	Working
Soil testing lab kit (No.2)	2017	172000=00	Working
Chaff cutter	2017	26964=00	Working
Grinder	2017	16065=00	Working
BP monitor	2017	1200=00	Working
Weighting scale	2017	1000=00	Working
Acrylic specimen box (30)	2017	10500=00	Working
Agrimedia video film (125)	2017	13125=00	Working
Double sided pinup board (No.2)	2017	34100=00	Working

1.8. Details of SAC meeting conducted in the year: 2023

Date	Name and Designation of Participants	Recommendation of SAC Members	Action against suggestion
12-02-2021	<p>Sri M.L.Patel, Director, Saraswati Gram Vidyapeeth, Samoda-Ganwada, District – Patan</p> <p>Dr R.R.Prajapati, Associate Director Extension Education Directorate Extension Education, SDAU, S.K. Nagar</p> <p>Shri M.S.Patel, Dy.Director of Agril. (Training), F.T.C.,Patan</p> <p>Shri H.B.Patel, Asst. Director of Agril. (Extension), Dist. Agril. Dept., Patan</p> <p>Shri Anand K. Pandya, Horticultural Officer, Dy.Director of Horticultural, Patan</p> <p>Shri S.R.Chaudhary, Dy.Director, S.S.N.L., Patan, Dy.Director, S.S.N.L., Patan</p> <p>Shri H.D.Ninama, Assistant, S.S.N.L., Patan, Dy.Director, S.S.N.L., Patan</p> <p>Shri M.J. Patel, Manager, Lead Bank, Patan</p>	<p>To aware the farmers for efficient use of water.</p> <p>To provide technical back up for organizing the cluster demonstration.</p> <p>To organize training programme on Natural farming.</p> <p>Green maturing practices should be emphasised among farmers</p> <p>To organize training programme on selection of chemical fertilizer and its efficient use.</p> <p>To organize training programme to prepare organic manure and vermi composting</p> <p>To increase the use of IPM for management of pest</p> <p>To organize webinar for large scale dissemination of</p>	<p>04 No of webinar (304 No of farmers), Training 01 No, Group meeting – 01 No, Special day- 01 No for awareness about efficient use of irrigation water</p> <p>Technical support to - Agriculture Department (07 No of training), SSNL (01 No of training), Reliance foundation (06 No of training) as well as BAIF (02 No of training) for conducting demo</p> <p>SPNF Training- 05 No (380 No of farmers) under Webinar on SPNF- 01 No (161 No of farmers) PM live telecast- 01 No (550 No of Farmers) Group meeting- 01 No (16 No of farmers)</p> <p>KVK conduct 01 No Demo & 02 No training KVK also demo the technology at KVK instructional farm</p> <p>KVK conduct 0 No of training, 01 No of training to extension functionaries, & 04 No of FLD for promotion of liquid bio fertilizer & STV based nutrient management</p>

<p>Dr.D.J.Patel, Veterinary Officer, Dudhsagar Dairy, Sidhpur Center</p> <p>Shri Vipul Parmar, G.S.F.C., Sidhpur</p> <p>Shri Ajay Mongokiya, G.N.F.C., Sidhpur</p> <p>Shri B.M.Vasoya, IFFCO, Patan</p> <p>Shri D.M.Nadoda, Progressive farmer, Orumana Village</p> <p>Shri Jalarambhai Thakor, F.P.O. Leader, Tharod Village</p> <p>Shri Jitendrabhai Patel, Progressive Farmer, Kanesara Village</p> <p>Dr. Sharad M.Soni, S.M.S.(Animal Sci.), K.V.K.,Mehsana</p> <p>Sagarbhai P. Chaudhary, Media Representative</p> <p>Shri D.D.Patel, Dy.Director of Agriculture (Extension), Patan</p> <p>Shri Rakesh Varma,</p>	<p>technologies</p> <p>To organize the seed production programme for cumin and chickpea</p> <p>To promote the value addition activities</p> <p>Kitchen garden should be increased</p> <p>To impart training on improvement of soil health and fertility</p> <p>To promote the value addition activities</p> <p>KVK should cover all the taluka of Patan district</p>	<p>KVK conduct -01 No of demo, 02 No of training, 1 No of Method demo & 3 No of group meeting</p> <p>KVK have demo unit- 6250 Kg Vermi compost sale to farmers</p> <p>Training- 06 No, Demo – 07 No, Sangosthi- 01 No & Audio conference- 04 No for popularization of IPM module</p> <p>Total 16 No of online webinar/ audio conference (37548 No of participants) 01 Digital farm school under ODOP programme</p> <p>KVK converge with FPO & Reliance foundation for seed production in Black gram, Chickpea & Cumin</p> <p>KVK have been organize on/off campus training programme for value addition in fruits and vegetables</p> <ul style="list-style-type: none"> ❖ FLD- 01 (105 No of demo) ❖ Training- 03 No (70 No of farm women) ❖ IS training- 01 No (52 No of Aanganwadi Workers) ❖ Field Day- 03 (115 No of farm women) <p>3 No of webinar- 356, 6 No of training, 01 No</p>
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<p>D.D.M. NABARD</p> <p>Shri H.H.Solanki, Veterinary Officer, Kakoshi Dist. Panchayat, Patan</p> <p>Smita K.Patel, Progressive Farm women, Chandravati Village</p> <p>Anjanaben J.Patel, Progressive Farm women, Chandravati Village</p> <p>Lalitaben Bhudarbhai Patel, Progressive Farm women, Ganeshpura Village</p> <p>Kokilaben Rasikbhai Patel, Progressive Farm women, Ganeshpura Village</p> <p>Dr.V.B. Parmer, Dy.Director of Animal Husbandary, Patan</p> <p>Shri Mukeshbhai Desai, Manager Reliance Foundation, Patan</p> <p>Shri Bharatbhai K. Chaudhary, Representative Doordarshan, Patan</p> <p>Shri Pravinbhai Daraji, G. India News Editor, Patan</p> <p>Dr. Upesh Kumar, Senior Scientist & Hear, KVK,Patan</p>		<p>of method demo & 117 No of soil testing</p> <p>KVK have been organize on/off campus training programme for value addition in fruits and vegetables</p> <p>KVK are covered in all taluka of district Patan through KVK mandatory activities as well as Convergence with allied department</p>
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2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

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

S. No	Farming system/enterprise
1.	Crop production – Dairy
2.	Crop Production – Horticulture – Dairy
3.	Poultry Farming.
4.	Cropping system predominant in district <ul style="list-style-type: none"> - Castor - Cotton - Green gram/ Black gram/ Cluster bean - Wheat/ Mustard/ Chickpea/ Cumin / Funnel/Ajwain - Pearl millet

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

a) Soil type

S. No.	Agro-climatic Zone	Characteristics
1	Zone No.4 (Patan, Saraswati, Sidhpur and Chansama taluka)	- Average rainfall is 610 mm. - Soil type is loamy, sandy, saline & medium black. - Main crops- Cotton, Wheat, Castor, Cumin, Bajara, Mustard, Fennel, Chilli, Carrot
2	Zone No.8 (Harij, Sami, Shankheswar, Radhanpur and Santalpur taluka)	- Average rainfall is 500mm. - Soil type is loamy, sandy, saline and medium black. - Main Crops - Rainfed Cotton, Wheat, Gram, Dill seed, Mustard & Cumin.

B) Topography

S. No.	Agro ecological situation	Characteristics
1	Alluvial sandy soil with low rainfall	Low rainfall dry climate
2	Saline soil with low rainfall	Low rainfall, dry climate, and absence of vegetative cover
3	Salt affected soil	Low rainfall dry climate and absence of vegetative cover

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1.	Heavy black soil	<ul style="list-style-type: none"> - High Water holding capacity - Low permeability - Water logging condition - Fertile soil 	30400
2.	Medium black soil	<ul style="list-style-type: none"> - Medium WHC - Medium permeability - Fertile soil 	334400
3.	Loamy soil	<ul style="list-style-type: none"> - More retain water and nutrient than sandy soil and low retain water and nutrient than black soil 	213220
4.	Sandy soil	<ul style="list-style-type: none"> - Low WHC - High permeability 	165424
5.	Saline soil	<ul style="list-style-type: none"> - Salts accumulation on the soil surface - Water logging condition - Crack formation during Summer Season 	109535

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2023)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
A	Field Crop			
	Bajra-Kharif	3971	2073	5.2
	Bajra-Summer	4220	13537	32.0

	Cotton- Desi	25817	31589	2.0
	Hybrid	21153	70112	8.99
	Castor	99588	190581	19.1
	Mustard	28896	50186	17.4
	Wheat	33972	98770	29.0
	Pulses Gram	46590	68350	14.7
	Green-gram	2719	403	1.5
	Black-gram	22662	6875	3.0
	Cluster bean (Seed)	13595	3607	2.6
	Moth bean & cowpea	321	157	4.8
B	Fruit crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2023			
	Citrus	850	10200.4	12.00
	Mango	103	515.00	5.00
	Ber	369	3070.80	10.49
	Guava	31	279.00	9.00
	Pomegranate	662	7480.60	11.30
	Date Palm	188	1314.00	6.99
	Papaya	151	6267.00	41.50
	Aonla	161	1376.55	8.55
	Total/ Average	2620	31303.36	12.02
C	Vegetable crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2023			
	Potato	767	18247	23.79
	Brinjal	349	6491	18.60
	Cabbage	228	4150	18.20
	Tomato	174	4289	24.64
	Cauliflower	310	5766	18.60
	Cucurbits	496	8839	17.82
	Total/ Average	3748	80656	21.50
D	Spice crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2023			
	Cumin	6421	32749	0.51
	Fennel	2357	4243	1.80
	Coriander	100	168	1.68

	Fenugreek	850	1641	1.93
	Isangul	521	511	0.98
	Ajwain	180	166	0.92
	Suwa	3600	5256	1.46
	Total/ Average	71821	44734	0.82
E	Flower crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2023			
	Rose	49	427	8.71
	Marigold	57	523	9.18
	Mogra	03	22	7.33
	Total/ Average	109	972	8.92

Source: District agriculture/ Horticulture/ Animal Husbandry department.

2.5. Weather data (2023)

Month	Rainfall (mm)	Temperature (° C)		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January		25.17	10.67	-	-
February		30.97	16.48	-	-
March	30	32.13	19.12	-	-
April		36.05	24.81	-	-
May		40.65	27.59	-	-
June	170	36.44	27.53	-	-
July	146	31.30	26.00	-	-
August	120	31.72	25.68	-	-
September		32.45	24.76	-	-
October		32.02	23.46	-	-
November		32.10	22.43	-	-
December		25.92	14.08	-	-
Total	466			-	-

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	173660		7.4 kg./day
<i>Indigenous</i>	7493		2.62 kg./day
Buffalo	432837		3.56 kg./day
Sheep	45920		
<i>Crossbred</i>	53750	-	-
<i>Indigenous</i>	-	-	-
Goats	101011	-	0.30 kg/day
Pigs	00	-	-
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	-	-	-
Rabbits		-	-
Camel	2262		
Horse	1024		
Poultry	80751		148 egg deshi 298 improved (rir)
Hens	26210		

2.7. Details of Operational area / Villages 2023

Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Siddhpur	Tavdiya, Nagvasan, Lavara, Dhanpura, Kot, Ganwada, Samoda, Chatawada,	Blackgram Green gram Pearlmillet Castor Cotton	➤ Average productivity is low in major crop. ➤ Leaf curl infestation in chilli ➤ Low ground water table. ➤ Soil productivity status is low ➤ Problematic soil- Saline & Alkaline soil	➤ Average productivity of major crops is low ➤ Micro irrigation system ➤ Reclamation of problematic soil ➤ Area under fruit & vegetable crop is very low
Patan	Anawada, Gaja, Sankhari, norta, Khimiyana	Mustard Wheat Chickpea	➤ Flower dropping in cotton ➤ Pest & diseases intensity high- para wilt in cotton, termite in wheat, Blight in Cumin,	➤ Scope & Importance of secondary agriculture ➤ Average milk production per animal is low ➤ Infertility problem in Dairy animals
Chanasma	Bhatsar	Cumin	➤ Mealybug in Cotton, Semi-looper & prodenia in castor,	➤ Farm mechanization
Saraswati	Mesar, Sampra, Balva Undra, Muna, Katra,	Fennel Ajwain	➤ and citrus canker & dieback in lime	➤ Women empowerment through income generation activities
Shankheswar	Biliya, Kuvarad, Orumana	Tobacco Carrot	➤ Pink ball worm infestation in BT Cotton	➤ No use of micronutrient in fruits & vegetable crop
Harij	Adiya, Katra, Kathi, Nana	Potato Chilli	➤ Less Adoption of intercropping in long distance sown crop.	➤ Quality planting material
Sami	Zilwana, Haripura, Subapura	Onion Kagzi lime	➤ Less adoption of horticultural crops	➤ Integrated Crop Management
Santalpur	Varnosari, Bavarda, Limgamda	Cauliflower Watermelon	➤ Loss of food grains due to poor knowledge and storage facility	
Radhanpur	Bandhwad	Mesani Buffalo Kankrej cow HF cow	➤ Average milk production per animal is low ➤ Infertility problem in Dairy animals	

2.8. Priority thrust areas:

Crop/ Enterprise	Thrust area	Crop/ Enterprise	Thrust area
Green gram/ Black gram	Improved variety, INM, IWM, MIS, IPM & IDM	Chili,Watermelon,Cauliflow er	Nursery Management INM, MIS IDM, IPM Value Addition
Castor	Hybrid variety, INM, MIS, IWM, IPM & IDM	Lime	Rejuvenation of old orchards Micro Nutrient Application MIS, IDM & IPM Value Addition
Cotton	Hybrid variety, INM, MIS, IWM, IPM & IDM	Soil Health	Production of Organic Inputs Soil Fertility Management Management of problematic soil
Chickpea	Improved variety, INM, MIS, IWM, IPM & IDM	Live-stock	Dairy Management Disease Management Breeding Management Feed and fodder Management Animal nutrition management
Mustard	Improved/ Hybrid variety, INM, MIS, IWM, IPM & IDM	Fodder Bajra and Sorghum	Integrated Crop Management Integrated Nutrient Management Fodder production
Wheat	Hybrid variety, INM, MIS, IWM, IPM & IDM	Home Science	Use of solar cooker Fruits & veg. preservation Farm women empowerment through income generation activity Drudgery reduction House hold Food Security by kitchen gardening Income generating activity Low cost & high nutrition diet Women & child care
Cumin/ Fennel/ Ajwain	Production & management technology Nutrient & Water management Integrated Pest & Disease management & Value addition		

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
08	08	55	54	22	20	555	415

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
95	95	2005	3294	123	197	6780	14422

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
55.5		22000	17413

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

Abstract of intervention under taken

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Cotton	Imbalance use of nutrient Heavy infestation of pest- pink boll worm Heavy incidence of disease- Wilt	11,000 ha	Chansama	Training, FLD, Field Day, Field visit etc
2	Black gram	Use of old/ local variety Imbalance use of nutrient Heavy infestation of pest Heavy incidence of disease	1000 ha	Sankeshwar & Sami	Training, FLD, Field Day, Field visit etc
3	Castor	Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest Heavy incidence of disease	75000 ha	Saraswati, Siddhapur	Training, FLD, Field Day, Field visit etc
4	Chickpea	Use of old/ local variety Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest- Heliothis Heavy incidence of disease- Wilt	5000 ha	Sankeshwar & Sami	Training, FLD, Field Day, Field visit etc
5	Mustard	Use of old/ local variety Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest- Aphid Heavy incidence of disease-blight	20000 ha	Chanasma & Patan	Training, OFT, FLD, Field Day, Field visit etc
6	Wheat	Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest- termite	25000 ha	Siddhapur	Training, OFT, FLD, Field Day, Field visit etc

7	Cauliflower	Imbalance use of major nutrient& no use of micro nutrient Scarcity of irrigation water Heavy infestation of pest- sucking pest Heavy incidence of disease – Damping off	175 ha	Sidhpur,Saraswati,Patan	Training, FLD, Field Day, Field visit etc
8	Watermelon	Imbalance use of major nutrient& no use of micro nutrient Scarcity of irrigation water Heavy infestation of pest- Fruit fly Heavy incidence of disease – Powdery Mildew	100ha	Sidhpur,Patan,Sarswati	Training, FLD, Field Day, Field visit etc
9	Fennel, Ajwain & Cumin	Use of old/ local variety Imbalance use of nutrient Scarcity of irrigation water Heavy incidence of disease-blight	25000 ha	Chanasma,Radhanpur,Santalpur Patan	Training, FLD, Field Day, Field visit etc
10.	Milch animal- Cow & Buffalo	Heavy infestation of endo & ecto parasite No use of feed supplements like probiotics, bypass fat, etc. No or improper use of mineral mixture Reproductive diseases in dairy animals	60 % animals are affected	Siddhpur, Saraswati, Sami, Harij, Radhanpur	Training, OFT, FLD, Field Day, Field visit etc

* Support with problem-cause and interventions diagram

3.2. Technology Assessment (Kharif 2023, Rabi 2023, Summer 2024)

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation	01		01	01						03
Integrated Pest Management				01						01
Integrated Crop Management					01					01
Integrated Disease Management				01						01
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Storage Technique										
Mushroom cultivation										
Total	01		01	03	01					06

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management	01					01
Value Addition						
Production and Management						
Feed and Fodder	01					01
Small Scale income generating enterprises						
TOTAL	02					02

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Varietal Evaluation	Blackgram	Assessment of Improved varieties in Blackgram T1 – Local Variety, T2 – GU-1(Improved Variety) T3 – GU-2 (Improved Variety)	10	10	0.25
	Cumin	Assessment of variety of Cumin T1:- Local , T2:- G.C-4, T3:- G.C-5	06	06	0.25
	Wheat	Assessment of Improved varieties in Wheat T1 –GW-496, T2 –GW-451, T3 – GW-513	10	10	0.25
Integrated Pest Management	Cotton	Assessment of pesticides for management of Pink boll worm T1 ; spraying of Quinalphos 25 EC @ 3 ml./ lit. water T2 ; Spraying of <i>Beauvaria basiana</i> @ 8 gm./ lit. water at initiation of flowering & repeated by 10 days interval (5 sprays) T3 : use of MDP paste , apply about 1000 drops / ha. between the upper two tiny branches of plant at initiation of flowering & repeat it by 30 days interval (3 times)	05	05	0.50
Integrated disease management	Cumin	Assessment of IDM module for the management of blight in cumin T1:- No seed treatment – spray mancozeb 75 wp @ 2 to 2.5 gm./ lit. of water T2:- Seed treatment y mancozeb 75 wp @ 3	10	10	0.50

		gm./ kg. seed & spray of mancozeb 75 wp @ 3.5. gm./ lit. water along with solution 2.5 ml/lit. at 35-45 DAS respected by 10-12 days interval (4 sprays) T3:- At initiation of disease spray of krisoxim methyl 50 SC @ 1 ml / 1 lit. water, followed by second spray at 15 days of first spray.			
Integrated Crop Management	Cauliflower + Fennel	Assessment of Cropping system T1:- Cauliflower T2:- Cauliflower+Fennel	04	04	0.25
Total			45	45	

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
Nutrition management	Mehsani Buffalo	Assessment of high yielding fodder grass variety T1: Farmer's practices fodder grass local T2: CoFS-31 fodder grass variety T3: CSV-33 MF fodder grass variety	05	05
Disease management	Kankrej cow	Assessment of ectoparasite to control tick infestation in Kankrej Cow T1: Application of deltamethrine (1.25%) solution @ 3 ml/lit of water, spray and repeat 21 days T2: Application of amitraz 1%+cypermethrin 1% + piperonylbutoxide 5% solution @ 1ml/10 kg b wt topically along the midline and repeat after 21 days T3: Use of soap permethrin 5% + cetrimide 1% + aloe vera 1% apply and massage the leather on every part of body and wash after 1 hour	05	05
Total			10	10

C. 1.Results of Technologies Assessed- Year- 2022-23

OFT-1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technolog y Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	needed refinement Any	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Wheat (2022- 23)	Irrigated	Low yield of wheat due to use of old variety	Assessment of improved variety of wheat	10	T1 – GW- 496 T2 – GW- 451 T3 – GW- 513	No of effective tillers & Yield (qtl/ha) & Yield Qtl/ha)	T1- No	T1-31.7 q/ha	✓% more effective tillers in T ₂ & % in T ₃ as compare to T ₁ . ✓11.8% more yield in T ₂ & 18.6% in T ₃ as compare to T ₁	-	-
							T2- No	T2-35.4 q/ha			
							T3- No	T3-37.6 q/ha			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	31.7	Qtl/ha	52800	3.0
Technology option 2	SDAU, S K Nagar	35.4	Qtl/ha	61950	3.3
Technology option 3		37.6	Qtl/ha	67225	3.5

Details of On Farm Trial

- 1 **Title of Technology Assessed** - Assessment of Improved Variety in wheat
- 2 **Problem Definition** - Low yield of wheat due to Improved Variety.
- 3 **Details of technologies selected for assessment-** T1 – GW- 496, T2 – GW- 451, T3 - GW- 513
- 4 **Source of technology-** SDAU, S K Nagar
- 5 **Production system and thematic area-** Varietal Evaluation
- 6 **Performance of the Technology with performance indicators-**
No of effective tillers / Plant- T₁- , T₂-, T₃-
7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques** - Farmers are convinced with the technology of T3 because under technology they found 18.6 % higher yield over own practice.
- 8 **Final recommendation for micro level situation** – The technology was found more effective over farmers practice & recommendation after compilation of next year data
- 9 **Constraints identified and feedback for research-** No any Constraints
- 10 **Process of farmers participation and their reaction-** Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

OFT-2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cumin (2022- 23)	Irrigated	Low yield of Cumin due to use of local variety	Assessment of improved variety of Cumin	06	T1 – Local T2 – G.C-4 T3 – G.C-5	No of umbel/Pl ant & Yield (qtl/ha)	T1:- 31.1 No. T2:- 37.8 No. T3:- 34.7 No.	T1:- 4.62 Qtl/ha T2:- 5.85 Qtl/ha T3:- 5.07 Qtl/ha	21.54% more umbel in T ₂ & 11.58% in T ₃ as compare to T ₁ . 26.7% more yield in T ₂ & 9.75% in T ₃ as compare to T ₁	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	4.62	Qtl/ha	71231	3.3
Technology option 2	SDAU, S K Nagar	5.85	Qtl/ha	99600	4.1
Technology option 3	NRC, Seed Spices, Ajmer	5.07	Qtl/ha	80225	3.5

Details of On Farm Trial

- 1 **Title of Technology Assessed** - Assessment of high yielding variety of Cumin G.C-4 & G.C-5
- 2 **Problem Definition** - Low yield of existing variety of Cumin
- 3 **Details of technologies selected for assessment-** variety of Cumin G.C-4 & G.C-5
- 4 **Source of technology-** SSRC, SDAU, Jagudan
- 5 **Production system and thematic area-** ICM
- 6 **Performance of the Technology with performance indicators- No.of umbels per Plant** T1:- 31.1 No. T2:- 37.8 No. T3:- 34.7 No
7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques –** 21.54 % higher umbel in T2 & 11.58 % more umbel are found in T3 as compared to T-1 resulted enhance 26.71 % higher yield in T2 & 15.46 % higher yield in T-3 as compared to T1. Farmers are seen the impact of technology & motivate for future adoption.
- 8 **Final recommendation for micro level situation –** The technology (T-2) were found more effective over farmers practices as well as T-3.
- 9 **Constraints identified and feedback for research-** Highly Susceptible variety for blight in both the condition irrigated as well as rainfed
- 10 **Process of farmers participation and their reaction-**

OFT-3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	needed refinement Any	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cotton (2022-23)	Irrigated	Low yield of cotton due to infestation of pink boll worm	Assessment of IPM module for the management of Pink boll worm	10	T1- Spraying quinolphos 25EC @ 3 ml/ Lit of water T2 –Spray <i>B basiana</i> @ 5 gm/ Lit of water at initiation of flowering & repeated by 10 Days interval (5 spray) T3- Use MDP paste- keep about 1000 drops/ ha between the upper two tiny branches of plant at initiation of flowering & repeatedly by 30 days interval (3 times)	% infestation of pink ball worm Yield (qtl/ha)	T1-17.5 % infestation of pink ball worm T2-11.8 % infestation of pink ball worm T3-9.4 % infestation of pink ball worm	T1-19.3 q/ha T2-22.2 q/ha T3-24.5 q/ha	✓ Reduction of pink boll worm- 32.57% in T ₂ & 46.29 % in T ₃ in compariso n of T ₁ ✓ Enhance the yield – 15.03 % in T ₂ & 26.9 % in T ₃ as compariso n of T ₁	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	19.3	Qtl/ha	116610	3.99
Technology option 2	JAU, Junagadh	22.2	Qtl/ha	147940	4.30
Technology option 3		24.5	Qtl/ha	157350	4.61

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

- 1 Title of Technology Assessed :- Assessment of IPM module for the management of Pink boll worm
- 2 Problem Definition :- Low yield of cotton due to infestation of pink boll worm
- 3 Details of technologies selected for assessment:-
 - T1**- Spraying quinolphos 25EC @ 3 ml/ Lit of water
 - T2** –Spray *B basiana* @ 5 gm/ Lit of water at initiation of flowering & repeated by 10 Days interval (5 spray)
 - T3**- Use MDP paste- keep about 1000 drops/ ha between the upper two tiny branches of plant at initiation of flowering & repeatedly by 30 days interval (3 times)
- 4 Source of technology:- JAU, Junagadh
- 5 Production system and thematic area :- IPM
- 6 Performance of the Technology with performance indicators:- Under assessed technology reduce the % infestation of pink ball worm – 32.6 % in T₂ & 46.3 % in T₃ in comparison of T₁ resulted enhance the yield – 15.03 % in T₂ & 26.9 % in T₃ as comparison of T₁
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :-
Farmers are ready to adopt the seed treatment by either chemical or bio-fungicide before the sowing of seeds owing to they found less disease incidence.

- 8 Final recommendation for micro level situation: - Assessed technologies T-3 were found more effective over farmers practice & recommended after compilation of third year data.
- 9 Constraints identified and feedback for research and developmental departments: - Evaluate wilt resistant variety
- 10 Process of farmers participation and their reaction: - Group meeting with farmers for selection of the problem solving models of chick pea production technology.

OFT-4

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cumin (2022- 23)	Irrigated	Low yield of cumin due to incidence of blight disease	Asses men t of fungi cide for the mana geme nt of blight disea se in cumi n	10	T1- Farmers practice (No Seed treatment & spray of Mancozeb 75%WP @ 2.0-2.55 gm/ Lit of water T2-Seed treatment by Mancozeb 75% WP@3 gm/ Kg Seed & spray of Manzozeb	Disease incidence (%)	T1-24.2 %	T1-4.39 q/ha	✓ Reduce blight disease incidence 34.4 % in T2 & 40.1 % in T3 as compared to T1 ✓ Enhance the yield – 40.9 % in T2 & 44.2 % in T3 as compared to T1	-	-
							T2- 14.3 %	T2-5.90 q/ha			
							T3- 13.5 %	T3-6.15 q/ha			
						Yield (qtl/ha)					

					75% WP@3.5gm/ Lit of water along with soap solution (2.5 ml) at 35- 40 DAS repeatedly by 10 days interval (4 spray) T3- Initiation of disease first spray of Kresoxim methyl 50 SC @ 1 ml/ Lit of water & second spray of 15 Days after first spray					
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Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	4.39	Qtl/ha	62825	2.75
Technology option 2	SDAU, S.K. Nagar	5.90	Qtl/ha	94650	3.48
Technology option 3		6.15	Qtl/ha	99815	3.60

Details of On Farm Trial

- 1 **Title of Technology Assessed** :- Management of blight disease in cumin
- 2 **Problem Definition:** - Low yield of cumin due to incidence of blight disease
- 3 **Details of technologies selected for assessment:-**
 - T1- Farmers practice (No Seed treatment & spray of Mancozeb 75%WP @ 2.0-2.55 gm/ Lit of water
 - T2-Seed treatment by Mancozeb 75% WP@3 gm/ Kg Seed & spray of Manzozeb 75% [WP@3.5gm/](#) Lit of water along with soap solution
(2.5 ml) at 35-40 DAS repeatedly by 10 days interval (4 spray)
 - T3- Initiation of disease first spray of Kresoxim methyl 50 SC @ 1 ml/ Lit of water & second spray of 15 Days after first spray
- 4 **Source of technology** :- SDAU,S.K.Nagar
- 5 **Production system and thematic area** :- IDM
- 6 **Performance of the Technology with performance indicators:-** Spraying fungicide reduce the blight incidence in cumin- 34.4 % in T2 & 40.1% in T3 as compared to T1
- 7 **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques** :-Very less infestation found in assessed technologies, so farmers where realized that proper time application of fungicide is effective manage the disease.
- 8 **Final recommendation for micro level situation:** - Assessed technologies T-3 were found more effective over farmers practice & recommended after compilation of third year data.
- 9 **Constraints identified and feedback for research and developmental departments:-** To develop resistant variety against blight disease.
- 10 **Process of farmers participation and their reaction** :- Group meeting with farmers for selection of the problem solving models of blight disease management in cumin.

OFT 5

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Livestock	crossbreed cows	Anestrus in	Assessment of mineral and deworming effect on anestrus condition in crossbreed cows	05	Use of green fodder, dry fodder, concentrate + Chelated mineral mixtures @ 40 gm + trace minerals bolus + Deworming of animals	Signs of heat shown by animals, No. of animal in heat, Conception rate	Signs of heat shown by animals, No. of animal in heat, Conception rate	40 and 60 percent increase conception rate over T1 and T2 respectively	Use of this technology increase conception rate		

Contd..

Technology Assessed	Source of Technology	Conception (%)	No. of Animals show sign of estrus	No.of animal in heat
13	14	15	16	17
Use of green fodder, dry fodder, concentrate	Farmer practices	20	1	1
T1 +Chelated mineral mixtures @ 40 gms + copper and cobalt bolus	SDAU, S K nagar	60	3	3
T2 + Deworming of animals	IVRI, Izzatnagar	80	4	4

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

1. Title of Technology Assessed : Assessment of mineral and deworming effect on anestrus condition in crossbreed cows
2. Problem Definition : Anestrus in crossbreed cows
3. Details of technologies selected for assessment : Use of green fodder, dry fodder, concentrate + Chelated mineral mixtures @ 40 gms + trace minerals bolus + Deworming of animals
4. Source of technology : IVRI, Izzatnagar
5. Production system and thematic area : Nutrient management
6. Performance of the Technology with performance indicators : Signs of heat shown by animals, No. of animal in heat, Conception rate
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Increase conception rate
8. Final recommendation for micro level situation : Second year ruselt
9. Constraints identified and feedback for research : --
10. Process of farmers participation and their reaction : Group meeting and field visit

OFT 6

C1.Results of Technologies Assessed - Result 2022-23

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement																								
1.	2	3	4	5	6	7	8	9	10	11	12																								
Livestock	Kankrej cow	Tick infestation leading to reduced milk production	Assessment of ectoparasite to control tick infestation in Kankrej Cow	05	Application of deltamethrine (1.25%) solution @ 3 ml/lit of water, spray and repeat 21 days Application of amitraz 1%+cypermethrin 1% + piperonylbutoxide 5% solution @ 1ml/10 kg b wt topically along the midline and repeat after 21 days	Ectoparasite infestation reduction (%), milk production, BCR	Ectoparasite infestation reduction (%), milk production, BCR	<p>Ectoparasite infestation reduction (%)</p> <table border="1"> <tr> <td>T1</td> <td>T2</td> <td>T3</td> </tr> <tr> <td>50</td> <td>80</td> <td>70</td> </tr> </table> <p>BCR</p> <table border="1"> <tr> <td>T1</td> <td>T2</td> <td>T3</td> </tr> <tr> <td>1.0</td> <td>1.1</td> <td>1.2</td> </tr> </table> <p>Milk production</p> <table border="1"> <tr> <td>T1</td> <td>T2</td> <td>T3</td> </tr> <tr> <td>4.0</td> <td>4.1</td> <td>4.2</td> </tr> </table> <p>Fat %</p> <table border="1"> <tr> <td>T1</td> <td>T2</td> <td>T3</td> </tr> <tr> <td>4.3</td> <td>4.5</td> <td>4.5</td> </tr> </table>	T1	T2	T3	50	80	70	T1	T2	T3	1.0	1.1	1.2	T1	T2	T3	4.0	4.1	4.2	T1	T2	T3	4.3	4.5	4.5	Ectoparasite infestation reduction, improvement in skin tone, Increase in milk production		
T1	T2	T3																																	
50	80	70																																	
T1	T2	T3																																	
1.0	1.1	1.2																																	
T1	T2	T3																																	
4.0	4.1	4.2																																	
T1	T2	T3																																	
4.3	4.5	4.5																																	

					Use of soap permethrin 5% + cetrimide 1% + aloevera 1% apply and massage the leather on every part of body and wash after 1 hour						
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C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1. Title of Technology Assessed : Assessment of ectoparasiticides to control tick infestation in Mehsani buffaloes
2. Problem Definition : Tick infestation leading to reduced milk production
3. Details of technologies selected for assessment:
 - T1: Application of deltamethrin (1.25%) solution @3 ml/lit of water, spray and repeat after 21 days,
 - T2 :Application of amitraj 1% + cypermethrin 1% + piperonylbutoxide 5% solution @ 1 ml/10 kg body weight topically along the midline and repeat after 21 days
 - T3: Use of soap permethrin 5% + cetrimide 1% + Aloe vera (1%) apply and massage the leather on every part of body and wash after 1 hour
4. Source of technology : IVRI, Izzatnagar and TANUVAS, Chennai
5. Production system and thematic area : Disease Management
6. Performance of the Technology with performance indicators : Ectoparasitic infestation (%), milk production, BCR
7. Feedback, matrix scoring of various technology : parameters done through farmer's participation / other scoring techniques

8. Final recommendation for micro level situation : 1st Year result
9. Constraints identified and feedback for research: -
10. Process of farmers participation and their reaction : Group meeting and field visit

C1.Results of Technologies Assessed

Results of On Farm Trial

OFT-1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technolog y Assessed	Parameters of assessment	Data on the parameter	Results of assessme nt	Feedback from the farmer	needed refinement Any	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Blackgram (2023)	Irrigated	Low yield of castor due to use of old variety	Assessment of Improved varieties in Blackgram	10	T1 - T9 (Local Variety) T2 – GU -1 (Improved Variety) T3-GU-2 (Improved Variety)	No of Pods/ Plant Yield Qtl/ha)	T1-6.1	T1-6.2 q/ha	✓ 4.92 % increase pod in T2 & 8.2% increase pod in T3 as compared to T1 resulted 22.59 % enhance the yield in T2 & 29.03% enhancement in T3 as compared to T1		
							T2- 6.4	T2- 7.6q/ha			
							T3- 6.6	T3-8.0 q/ha			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	6.3	Qtl/ha	26080	2.7
Technology option 2	SDAU, S K Nagar	7.6	Qtl/ha	33860	3.1
Technology option 3	JAU, Junagadh	8.0	Qtl/ha	36450	3.2

Details of On Farm Trial

- 1 **Title of Technology Assessed** - Assessment of improved variety of balckgram
- 2 **Problem Definition** - Low yield of black gram due to use of old variety- T-9
- 3 **Details of technologies selected for assessment**- T1 - Local Variety T2 – GU-1(Improved Variety) T3 – GU-2(Improved Variety)
- 4 **Source of technology**- SDAU, S K Nagar, JAU, Juagadhh
- 5 **Production system and thematic area**- Varietal evaluation
- 6 **Performance of the Technology with performance indicators-**

No of pods/ Plant-

T₁- 6.1,

T₂- 6.4,

T₃-6.6

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -**
Farmers are convinced with the technology of T3 because under technology they found 25 % higher yield over own practice.
- 8 **Final recommendation for micro level situation – –** The technology T3 was found more effective over farmers practice & recommendation after compilation of third year data
- 9 **Constraints identified and feedback for research-** No any Constraints
- 10 **Process of farmers participation and their reaction-** Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

OFT-2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technolog y Assessed	Parameters of assessment	Data on the parameter	Results of assessme nt	Feedback from the farmer	needed refinement Any	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Wheat (2023)	Irrigated	Low yield of wheat due to use of old variety	Assessme nt of Improved varieties of Wheat	10	T1 –GW- 496 T2 –GW- 451 T3 – GW- 513	No of effective tillers & Yield Qtl/ha)	Result awaited	Result awaite d	Result awaited	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Result awaited	Qtl/ha	Result awaited	
Technology option 2	SDAU, S K Nagar	Result awaited	Qtl/ha	Result awaited	
Technology option 3		Result awaited	Qtl/ha	Result awaited	

Details of On Farm Trial

- 1 **Title of Technology Assessed** - Assessment of improved variety of wheat
- 2 **Problem Definition** - Low yield of wheat due to use of old variety- GW-496
- 3 **Details of technologies selected for assessment-** **T1-GW-496** **T2-GW-451** **T3-GW-513**
- 4 **Source of technology-** SDAU, S K Nagar
- 5 **Production system and thematic area-** Varietal assessment
- 6 **Performance of the Technology with performance indicators-** Result awaited
7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -**
Result awaited
- 8 **Final recommendations for micro level situation –** Result awaited
- 9 **Constraints identified and feedback for research-** Result awaited
- 10 **Process of farmers participation and their reaction-** Result awaited

OFT-3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cumin (2023)	Irrigated	Low yield of Cumin due to use of local variety	Assessment of improved variety of Cumin	06	T1 – Local T2 – G.C-4 T3 – G.C-5	No of umbel/Pla nt & Yield (qtl/ha)	Result awaited	Result awaited	Result awaited	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Result awaited	Qtl/ha	Result awaited	
Technology option 2	SDAU, S K Nagar	Result awaited	Qtl/ha	Result awaited	
Technology option 3	NRC, Seed Spices, Ajmer	Result awaited	Qtl/ha	Result awaited	

Details of On Farm Trial

- 1 **Title of Technology Assessed** - Assessment of high yielding variety of Cumin G.C-4 & G.C-5
- 2 **Problem Definition** - Low yield of existing variety of Cumin
- 3 **Details of technologies selected for assessment-** variety of Cumin G.C-4 & G.C-5
- 4 **Source of technology-** SDAU,Jagudan
- 5 **Production system and thematic area-** ICM
- 6 **Performance of the Technology with performance indicators-** Result awaited
7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques –**
Result awaited
- 8 **Final recommendation for micro level situation –** Result awaited
- 9 **Constraints identified and feedback for research-** Result awaited.
- 10 **Process of farmers participation and their reaction-** Result awaited

OFT-4

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedb ack from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cauliflow er+ Fennel	Irrigate d	Low yield of present solo cropping pattern	Assessment of Intercropping Cauliflower+Fe nnel for enhancing the net profit	4	T1- Cauliflower as a solo cropping T2 – Cauliflower+Fe nnel	Net Profit (Rs./Ha.)	Result awaited	Result awaited	Result awaited	-	-
							Result awaited	Result awaited			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Cauliflower Farmer's practice)	-	Result awaited	Qtl/ha	Result awaited	
Technology option 2 (Cauliflower+Fennel)	SDAU,S.K.Nagar	Result awaited	Qtl/ha	Result awaited	

Details of On Farm Trial

- 1 Title of Technology Assessed :- Assessment of Intercropping Cauliflower+Fennel for enhancing the net profit
- 2 Problem Definition :- Low yield of present solo cropping pattern
- 3 Details of technologies selected for assessment:-
 T1:- Cauliflower as a solo cropping
 T2:- Cauliflower + Fennel
- 4 Source of technology :- SDAU, S.K.Nagar
- 5 Production system and thematic area :- ICM
- 6 Performance of the Technology with performance indicators:- **Results Awaited**
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- **Results Awaited.**
- 8 Final recommendation for micro level situation :- **Results Awaited**
- 9 Constraints identified and feedback for research and developmental departments:- **Results Awaited**
- 10 Process of farmers participation and their reaction :- **Results Awaited.**

OFT-5

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cotton (2023)	Irrigated	Low yield of cotton due to infestation of pink boll worm	Assessment of IPM module for the management of Pink boll worm	08	T1- Spraying quinolphos 25EC @ 3 ml/ Lit of water T2 – Spray <i>B basiana</i> @ 5 gm/ Lit of water at initiation of flowering & repeated by 10 Days interval (5 spray) T3- Use MDP paste- keep about 1000 drops/ ha between the upper two tiny branches of plant at initiation of flowering & repeatedly by 30 days interval (3 times)	% infestation of pink ball worm & Yield (qtl/ha)	Result awaited	Result awaited	Result awaited	-	-
							Result awaited	Result awaited			
							Result awaited	Result awaited			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Result awaited	Qtl/ha	Result awaited	
Technology option 2	JAU, Junagadh	Result awaited	Qtl/ha	Result awaited	
Technology option 3		Result awaited	Qtl/ha	Result awaited	

Details of On Farm Trial

- 1 Title of Technology Assessed :- IPM module for the management of Pink boll worm
- 2 Problem Definition :- Low yield of cotton due to infestation of pink boll worm
- 3 Details of technologies selected for assessment:-
 - T1- Spraying quinolphos 25EC @ 3 ml/ Lit of water
 - T2 –Spray *B basiana* @ 5 gm/ Lit of water at initiation of flowering & repeated by 10 Days interval (5 spray)
 - T3- Use MDP paste- keep about 1000 drops/ ha between the upper two tiny branches of plant at initiation of flowering & repeatedly by 30 days interval (3 times)
- 4 Source of technology :- JAU,Junagadh
- 5 Production system and thematic area :- IPM
- 6 Performance of the Technology with performance indicators:- Results Awaited
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- Results Awaited.
- 8 Final recommendation for micro level situation :- Results Awaited
- 9 Constraints identified and feedback for research and developmental departments:- Results Awaited
- 10 Process of farmers participation and their reaction :- Results Awaited.

OFT-6

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinements needed	on for refinements
1	2	3	4	5	6	7	8	9	10	11	12
Cumin	Irrigated	Low yield of cumin due to incidence of blight disease	Assessment of fungicide for the management of blight disease in cumin	10	T1- Farmers practice (No Seed treatment & spray of Mancozeb 75%WP @ 2.0-2.55 gm/ Lit of water T2-Seed treatment by Mancozeb 75% WP@3 gm/ Kg Seed & spray of Manzozeb 75% <u>WP@3.5gm/</u> Lit of water along with soap solution (2.5 ml) at 35-40 DAS repeatedly by 10 days interval (4 spray) T3- Seed treatment by Mancozeb 75%WP @ 3 g/ Kg of seed & spray propiconazol 25 EC @ 1 ml/ Lit of water at 35-40 DAS repeatedly 10 Days interval (4 spray)	Disease incidence (%) Yield (qtl/ha)	Results Awaited Results Awaited Results Awaited	Results Awaited Results Awaited Results Awaited	Results Awaited	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Results Awaited	Qtl/ha	Results Awaited	
Technology option 2	SDAU, S.K. Nagar	Results Awaited	Qtl/ha	Results Awaited	
Technology option 3		Results Awaited	Qtl/ha	Results Awaited	

Details of On Farm Trial

- 1 Title of Technology Assessed :- management of blight disease in cumin
- 2 Problem Definition Low yield of cumin due to incidence of blight disease
- 3 Details of technologies selected for assessment:-
 - T1- Farmers practice (No Seed treatment & spray of Mancozeb 75%WP @ 2.0-2.55 gm/ Lit of water
 - T2-Seed treatment by Mancozeb 75% WP@3 gm/ Kg Seed & spray of Manzozeb 75% WP@3.5gm/ Lit of water along with soap solution (2.5 ml) at 35-40 DAS repeatedly by 10 days interval (4 spray)
 - T3- Seed treatment by Mancozeb 75%WP @ 3 g/ Kg of seed & spray propiconazol 25 EC @ 1 ml/ Lit of water at 35-40 DAS repeatedly 10 Days (4 spray)
- 4 Source of technology :- SDAU,S.K.Nagar
- 5 Production system and thematic area :- IDM
- 6 Performance of the Technology with performance indicators:- Results Awaited.
- 7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- Results Awaited.
- 8 Final recommendation for micro level situation :- Results Awaited.
- 9 Constraints identified and feedback for research and developmental departments:- Results Awaited.
- 10 Process of farmers participation and their reaction :- Results Awaited..

OFT -7

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Livestock	Mehsani Buffalo	Low profit of lactating buffalo due to use of low productive fodder grass in monsoon season	Assessment of high yielding fodder grass variety	05	T1: Farmer's practices fodder grass local T2: CoFS- 31 fodder grass variety T3: CSV-33 MF fodder grass variety	Green fodder yield Milk production	Green fodder yield Milk production	Result awaited	Result awaited	Result awaited	Result awaited

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

- 1 Title of Technology Assessed :- Assessment of high yielding fodder grass variety
- 2 Problem Definition :- Low profit of lactating buffalo due to use of low productive fodder grass in monsoon season
- 3 Details of technologies selected for assessment:-
 - T1: Farmer's practices fodder grass local
 - T2: CoFS-31 fodder grass variety
 - T3: CSV-33 MF fodder grass variety
- 4 Source of technology :- TNAU, Tamilnadu
- 5 Production system and thematic area :- Feed and Fodder management
- 6 Performance of the Technology with performance indicators:- Green fodder yield Milk production
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- -
- 8 Final recommendation for micro level situation :- 1st Year trial, result awaited
- 9 Constraints identified and feedback for research and developmental departments:- -
- 10 Process of farmers participation and their reaction :- Group meeting and field visit

OFT 8

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Livestock	Kankrej cow	Tick infestation leading to reduced milk production	Assessment of ectoparasite to control tick infestation in Kankrej Cow	05	Application of deltamethrine (1.25%) solution @ 3 ml/lit of water, spray and repeat 21 days Application of amitraz 1%+cypermethrin 1% + piperonylbutoxide 5% solution @ 1ml/10 kg b wt topically along the midline and repeat after 21 days Use of soap permethrin 5% + cetrimide 1%+ alovera 1% apply and massage the leather on every part of body and wash after 1 hour	Ectoparasite infestation (%), milk production, BCR	Ectoparasite infestation (%), milk production, BCR	Result awaited	Result awaited	Result awaited	Result awaited

C1.Results of Technologies Assessed - Result awaited

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

- 1 Title of Technology Assessed :- Assessment of ectoparasiticides to control tick infestation in Mehsani buffaloes
- 2 Problem Definition :- Tick infestation leading to reduced milk production
- 3 Details of technologies selected for assessment:-
 - T1: Application of deltamethrin (1.25%) solution @3 ml/lit of water, spray and repeat after 21 days,
 - T2 : Application of amitraj 1% + cypermethrin 1% + piperonylbutoxide 5% solution @ 1 ml/10 kg body weight topically along the midline and repeat after 21 days
 - T3: Use of soap permethrin 5% + cetrimide 1% + Aloe vera (1%) apply and massage the leather on every part of body and wash after 1 hour
- 4 Source of technology :- IVRI, Izzatnagar and TANUVAS, Chennai
- 5 Production system and thematic area :- Disease Management
- 6 Performance of the Technology with performance indicators:- Ectoparasitic infestation (%), milk production, BCR
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- -
- 8 Final recommendation for micro level situation :- 2nd Year trial, result awaited
- 9 Constraints identified and feedback for research and developmental departments:- -
- 10 Process of farmers participation and their reaction :- Group meeting and field visit

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	Cotton	INM	Nitrogen 240 kg/ha + phosphorous 40 kg/ha + spray 3% potassium nitrate (13-0-45) at the time of flowering stage, ball formation stage, ball development	Training, Demo., Field visit, Field day, Group meeting etc	250	2800	1900
1	Castor	ICM & Variety	Hybrid Variety of castor -GCH-7	Training, Demo., Field visit, Field day, Group meeting etc	2250	22500	55000
3	Mustard	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Training, Demo., Field visit, Field day, Group meeting etc	125	2200	1900
4	Wheat-Variety	Varietal Demo	Improved variety of wheat - GW-451	Training, Demo., Field visit, Field day, Group meeting etc	250	1500	2000
5	Kitchen garden	Nutrition food security	Seasonal vegetable in backyard for supplementing additional vegetable in daily diet	Training, Demo., Field visit, Field day, Group meeting etc	100	1800	-
6	Castor	Drudgery reduction	Harvesting of castor spick (secaitier)	Traning ,Demo,Field visit,Field day,etc	25	550	-
7	Vermi compost	Production of vermi compost	Production technology of Vermicompost	Traning,Field day , Field visit, Demo,etc	10	80	
8	Cotton	IPM	IPM module – Pheromone trap @ 40/ha	Training, Demo., Field visit,	100	2000	1500

			+ One spray of neem oil 1500 ppm@ 1.25 Lit/ha + one spray of spinosed 45 SC 2 0.25 Lit/ha	Field day, Group meeting etc			
7	Black gram	ICM	Improved variety of black gram (GU-1), seed treatment by fungicide, Seed inoculation with bio fertilizer, RDF, timely application of IPM module	Training, Demo., Field visit, Field day, Group meeting etc	125	1800	850
8	Chickpea	ICM	Improved variety (GJG-3) +Soil inoculation of <i>Trichoderma viridae</i> @ 2.5 kg/ha + Pheroman trap @ 40/ha + RDF + Bio-fertilizer + Profenophos 50 EC	Training, Demo., Field visit, Field day, Group meeting etc	100	2500	2000
9	Chilli	INM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval	Training, Demo., Field visit, Field day, Group meeting etc	95	280	60
10	Fennel-Variety	Varietal Demo & IDM	Improved variety of fennel – Gujarat Fennel – 12	Training, Demo., Field visit, Field day, Group meeting etc	200	4300	2200
11	Cumin + Ajwain	Varietal demon	Intercropping of Cumin + Ajwain (4:1)	Training, Demo., Field visit, Field day, Group meeting etc	90	100	800
12	Milch animal	Feed management	Use of Chelated mineral mixtures @ 30 gm + trace minerals bolus + Deworming of crossbreed cow	Training, Demo., Field visit, Field day, Group meeting etc	50	1200	
13	Milch animal	Feed management	Probiotic @20 gm/day in Mehsani buffalo	Training, Demo., Field visit, Field day, Group meeting etc	40	800	-
14	Milch animal	Feed management	Deworming with Oxyclozanide and Levamisolecombination at the age of 21 days to upto marketable age (12 months) (Rs 5,000/-)	Training, Demo., Field visit, Field day, Group meeting etc	20	150	-
15	Milch animal	Feed management	Clomephene citrate bolus 300 mg bolus twice a day/crossbreed cow (repeat breeding) for 5 days	Training, Demo., Field visit, Field day, Group meeting etc	20	100	-

B. Details of FLDs implemented during 2023 (Kharif 2023, Rabi 2022-23, Summer 2023) (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Pearl millet	Varietal demo	Demonstration of biofortified variety of pearl millet	Kharif, 2023	10	10	01	24	25	
2	Cotton	INM	Nitrogen 240 kg/ha + phosphorous 40 kg/ha + spray 3% potassium nitrate (13-0-45) at the time of flowering stage, ball formation stage, ball development	Kharif, 2023	10	10	00	25	25	
3	Castor	ICM	Hybrid variety (GCH-8) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Kharif, 2023	20	20	01	49	50	
4	Mustard	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Rabi, 2023	05	05	00	20	20	
5	Wheat	Varietal Demo	Improved Variety –GW-451	Rabi, 2023	07	07	04	31	35	
6	Wheat	IPM	Seed treatment by fipronil 5 sc @ 6 ml/kg seed & soil application @ 2.5 lit./ha with irrigation water.	Rabi, 2023	05	05	02	18	20	

7	Chick Pea	ICM	Improved variety (GJG-5) +Soil inoculation of <i>Trichoderma viridae</i> @ 2.5 kg/ha + RDF + Bio-fertilizer + Pheroman trap @ 40/ha + Profenophos 50 EC	Rabi, 2023	05	05	00	10	10	
8	Cauliflower	ICM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval)	Rabi, 2023	05	05	00	20	20	
9	Ajwain	Varietal Demo	Improved & early maturing variety of ajawain- AA- 93	Rabi. 2023	05	05	00	20	20	
10	Cumin+Ajwain	ICM	intercropping Cumin+Ajwain (4:1)	Rabi. 2023	05	05	02	18	20	
11	Kitchen garden	H&VC	Cultivation of seasonal vegetable in backyard for supplementing additional vegetable in daily diet	Kharif, 2023	-	-	16	44	60	
12	Watermelon	ICM	Cropping system Chilli-Watermelon	Zaid, 2023	01	01	00	04	04	
13	Bajra biscuits	Health& nutrition	Millet flour is used to make biscuits	-	-	-	02	18	20	
14	Natural Farming	Organic input	Production of jeevamrut & Neemastra	Zaid, 2023			04	12	16	
15	Vermi COmpost	Organic input	Production technology of vermin compost	Zaid, 2023	-	-	00	10	10	
16	Drum stick	Health and Nutrition	Drumstick Leaves Powder as nutritional supplement in farm women	Kharif, 2023	-	-	01	09	10	

17	Mehsani Buffalo	Feed supplement	Probiotic @20 gm/day	-	-	-	00	10	10	
18	Goat	Disease Management	Deworming with Oxytocyanide and Levamisole combination at the age of 21 days to upto marketable age (12 months)	-	-	-	10	00	10	
19	Kankrej Cow	Disease Management	Clomephene citrate bolus 300 mg bolus twice a day/crossbreed cow (repeat breeding) for 3 days	-	-	-	00	10	10	
20	Crossbreed cow	Disease Management	Chelated mineral mixture 40 kg Trace mineral bolus 210 No. Fenbendazol bolus 10 No. (3 gm)	-	-	-	00	20	20	

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					
Pearl millet	Kharif, 2023	Irrigated	Sandy loam	L	L	M	Fallow	First Week of June	Last week to October		
Cotton	Kharif, 2023	Irrigated	Sandy loam	L	L	M	Fallow	First Week of June	Last week to February		
Castor	Kharif, 2023	Irrigated	Sandy loam to sandy soil	L	L	M	Fallow	II nd Fortnight of August	I st fortnight of April		
Mustard	Rabi, 2023	Irrigated	Sandy loam to sandy soil	L	L	M	Pulses	II nd Fortnight of October	Last week of February		

Wheat	Rabi, 2023	Irrigated	Sandy loam to sandy soil	L	L	M	Pearl millet	II nd Fortnight of November	Last week of March		
Wheat	Rabi, 2023	Semi-Irrigated	Sandy loam to sandy soil	L	L	M	Pearl millet	II nd Fortnight of November	Last week of March		
Chick Pea	Rabi, 2023	Semi-Irrigated	Medium black to black soil	L	L	M	Cumin, Guar, Desi Cotton	2 nd fortnight of October	1 st week of February		
Cauliflower	Rabi, 2023	Irrigated	sandy loam to sandy	M	M	M	fallow & fodder	1 st fortnight of Sept	up to November		
Ajwain	Rabi. 2023	Irrigated	saline & sandy loam soil	M	M	M	fallow, pulses, f odder	1 st fortnight of November	2 nd fortnight of April		
Cumin+Ajwain	Rabi. 2023	Irrigated	saline & sandy loam soil	M	M	M	fallow, pulses, f odder	1 st fortnight of November	2 nd fortnight of march for cumin & 2 nd fortnight of April		
Kitchen garden	Kharif, 2023	Irrigated	Sandy loam soil	M	M	M	Fallow	2 nd fortnight of June	1 st fortnight of May		
Watermelon	Zaid, 2023	Irrigated	Sandy loam soil	M	M	M	Fallow	2 nd fortnight of January	1 st week of May		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Need to develop improved/ hybrid variety of wheat, Funnel, Castor, Mustard & Chickpea
2	Need to develop climate resilient technologies/ varieties
3	Need to develop of crop based complex fertilizer
4	Need to develop INM module on cropping system
5	Need to develop water soluble complex fertilizer as per crop for foliar spray.
6	Need to develop drought tolerant/ resistant variety.
7	Need to develop IPM module for the management of major insect in vegetable crop.
8	Need to develop to resistant variety against disease & insect.
9	Need to develop early maturity variety of spices crop like Ajwain,Cumin

Farmers' reactions on specific technologies

S. No	Feed Back
A	Cereals
1.	Farmers observe good growth of plant, no lodging & more no of effective tillers are found in improved variety of wheat (GW-451)
B	Horticultural crops
1.	Cauliflower : Good growth during the season and good quality of fruits due to spraying of Micronutrient (Zn,Mn,Fe,Cu,B)
2.	Watermelon: Profitable cropping practices ,Good net profit and 200% cropping intensity as well as less incidence of pest and disease.
3.	Cumin (Var.) :GC-4 variety have less incidence of blight disease & also high yielding
4.	Ajwain (var) : AA-93 is early maturity variety and at par with GA-2 in production.
C	Oil seeds
1.	Use Sunhemp as a green manure to reduce the dose of fertilize & enhance FUE in Castor resulted enhance the profitability
2.	Castor : GCH-8 variety having excellent growth & more yield over their own practice
3.	Mustard : GDM-4 variety having excellent growth & more yield over their own practice
D	Pulses

1.	Chickpea : Use of improved & wilt resistant variety GG -5 and seed treatment by Biofungicide T .viridae as well as bio fertilizer enhance the germination and decrease the wilt disease incidence. Installation of pheromone trap with helilure monitored and decrease the infestation of helicoverpa during the crop season.
E	Cotton
1	Good growth of plant, more number of bolls per plant obtain under INM in cotton resulted enhance the productivity
F	Animal Science
1	Proper feed management- Use of Mineral mixture, By Pass Fat, By Pass Protein & Probiotic is not only enhance the milk production but also enhance the profitability.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Cotton				
A	Farmers Training	1	27/5/23	27	
B	Field visit	3	27/6/23,23/8/23,14/9/23	17	
C	Field Day	1	7/11/23	31	
D	Training for extension functionaries	1	15/7/23	25	
2	Castor				
A	Farmers Training	3	27/7/23,23/8/23,14/9/23	115	
B	Field visit	6	22/8/23,23/8/23,27/9/23, 09-10-2023,10-10-2023, 11-10-2023	136	
C	Field Day	2	9/2/23,17/2/23	82	
D	Training for extension functionaries	1	27/5/23	25	
3	Bajra				
A	Farmers Training	1	28/6/23	27	
B	Field visit	3	13/7/23,15/9/23,23/8/23	20	
C	Field Day	1	28/6/23	27	
D	Training for extension functionaries	1	27/5/23	25	

4	Mustard				
A	Farmers Training	1	26/10/23	20	
B	Field visit	3	10/1/23,26/11/23,20/12/23	20	
C	Field Day	1	7/2/23	50	
D	Training for extension functionaries	1	19/9/23	29	
5	Wheat- Varietal Demo				
A	Farmers Training	3	23/11/23,19/12/23,20/12/23	88	
B	Field visit	3	3/82/23,11/3/23,19/12/23	20	
C	Field Day	1	13/3/23	38	
D	Training for extension functionaries				
6	Wheat- Termite Management				
A	Farmers Training	01	10/11/23	20	
B	Field Day	01	25/02/23	25	
B	Field visit				
C	Training for extension functionaries	01	11/08/23	17	
7	Chick Pea				
A	Farmers Training	02	09/02/23,14/10/23	25	
B	Field visit				
C	Field Day	01	10/02/23	34	
D	Training for extension functionaries				
8	Cauliflower (INM)				
A	Farmers Training	1	6/9/23,25/9/23	24	
B	Field visit	3	6/9/23,25/9/23,12/12/23	23	
C	Field Day	1	14/12/23	26	
9	Cumin+Ajwain (ICM)				
A	Farmers Training	3	6/2/23,9/10/23,7/11/23	154	
B	Field Day	1	9/3/23	30	
C	Field visit	3	9/3/23,12/12/23	27	

D	Training for extension functionaries	1	30/12/23	17	
10	Watermelon				
A	Farmers Training	1	27/1/23	45	
B	Field visit	1	13/4/23	7	
C	Field Day	1	13/4/23	22	
11	Ajwain (Var.)				
A	Farmers Training	1	11/10/23	20	
B	Field visit	3	7/2/23,12/4/23,27/10/23	18	
C	Field Day	1	12/4/23	43	
D	Training for extension functionaries	1	30/12/23	17	
12	Kitchen garden				
A	Farmers Training	05	05/06/23,06/06/20,08/06/23,18/08/23,15/09/23	146	
B	Field visit	22	2023	123	
C	Field Day	02	12/12/23,23/12/23	77	
D	Training for extension functionaries	01	12/07/23	34	
13	Drumstick				
A	Farmers Training	01	10/02/23	23	
B	Group Meeting	01	17/4/23	17	
14	Bajra biscuits				
A	Farmers Training	02	12/04/23,03 to 07/07/23	51	
B	Training for extension functionaries	01	25/09/23		
15	Use of Chelated mineral mixtures @ 30 gm + trace minerals bolus + Deworming of crossbreed cow- Nutritional management				
A	Farmers Training	01	27/06/23	25	
B	Field visit	02	10/10/23, 24/08/23	8	
C	Field Day	01	19/12/23	35	
D	Training for extension	01	12-08-2023	28	

	functionaries				
16	Clomephene citrate bolus 300 mg bolus twice a day/crossbreed cow (repeat breeding) for 5 days - Disease management				
A	Farmers Training	01	17/07/23	18	
B	Field visit	01	01/11/23	7	
C	Field Day				
D	Training for extension functionaries	01	12-08-2023	28	
17	Deworming with Oxyclozanide and Levamisolecombination- Disease management				
A	Farmers Training	01	24/05/23		
B	Field visit				
C	Field Day				
D	Training for extension functionaries	01	12-08-2023	28	
18	Probiotics- Nutritional management				
A	Farmers Training	01	03/05/23	24	
B	Field visit	01	27/04/23	04	
C	Field Day	01	09/10/23	37	
D	Training for extension functionaries	01	12-08-2023	28	

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										
Mustard																		
Mustard (2022-23)	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	GDM-4	50	20	21.3	14.5	16.9	14.1	19.8	18703	92094	73391	4.9	17048	76987	59939	4.5
Mustard (2023-24)	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	GDM-4	20	5	Result Awaited												
Castor																		
Castor (2022-23)	ICM	Hybrid variety (GCH-8) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	GCH-8	50	20	40.6	31.2	35.2	29.8	18.3	35798	211274	175476	5.9	32197	178815	146618	5.6
Castor (2023-24)	ICM	Hybrid variety (GCH-8) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	GCH-8	50	20	Result Awaited												

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Chickpea-2022-23	ICM	Improved variety (GG-5) +Soil inoculation of <i>Trichoderma viridae</i> @ 2.5 kg/ha + RDF + Bio-fertilizer + Timely plant protection	GG-5	50	20	20.8	18.6	19.51	16.86	15.72	28632	103414	74782	3.61	26346	89379	63033	3.39
Chickpea-2023-24	ICM	Improved variety (GG-5) +Soil inoculation of <i>Trichoderma viridae</i> @ 2.5 kg/ha + RDF + Bio-fertilizer + Timely plant protection	GG-5	10	05	Result Awaited												

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)				
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BC R (R/C)	Gross Cost	Gross Return	Net Return	BC R (R/C)	
					High	Low	Average													
Cereals																				
Wheat Timely sown																				
Wheat (2022-2023)	Varietal Evaluation	Improved variety of wheat - GW-451	25	10	42.1	31.7	37.2	31.4	18.7	Effective tillers /plant- 4.36	Effective tillers /plant - 3.95	26400	93030	66630	3.5	25800	78450	52650	3.0	
Wheat (2023-2024)	Varietal Evaluation	Improved variety of wheat - GW-451	25	10	Result Awaited															
Wheat (2022-23)	IPM	Seed treatment by Fipronil 5 SC@6ml/Kg seed along with soil application @ 2.5 lit/ ha with irrigation water	20	5	40.6	32.9	36.4	31.5	15.6	Infestation of Termite 6.25 %	Infestation of Termite 12.8%	26650	91000	64350	3.41	25900	78750	52850	3.04	
Wheat (2023-24)	IPM	Seed treatment by Fipronil 5 SC@6ml/Kg seed along with soil application @ 2.5 lit/ ha with irrigation water	20	5	Result Awaited															

Oilseed																			
Sun hemp-Castor (2022-23)	Soil Health Management	Green manuring with sun hemp in castor crop	20	05	36.7	31.1	34.5	28.5	20.7			36200	206700	170500	5.7	32700	171210	138510	5.2
Fiber crops																			
Cotton, 2022-23	INM	Nitrogen 240 kg/ha + phosphorous 40 kg/ha + spray 3% pottasium nitrate (13-0-45) at the time of flowering stage, ball formation stage, ball development	25	10	28.2	22.0	24.8	20.0	24.0			42500	203360	160860	4.8	40200	164000	123800	4.1
Cotton, 2023-24	INM	Nitrogen 240 kg/ha + phosphorous 40 kg/ha + spray 3% pottasium nitrate (13-0-45) at the time of flowering stage, ball formation stage, ball development	25	10	Result Awaited														
Watermelon-2023	ICM	Cropping System Chilli-Watermelon	04	01	412	402	405.3	197.3	105.5			112450	395202.5	282752.5	3.5	72900	207112.5	134212.5	2.8
Cauliflower-2023	ICM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval)	20	5	206	191	197.7	182.5	8.3			63077.50	296475	233397.5	4.7	62283.8	273675	211391.3	4.2
Potato (2022-23)	IDM	Tuber treatment- Boric acid powder @ 30 g/1liter	10	2.5	218.3	169	185.5	166.7	11.3	Incidence of Scab Diseases 6.55	Incidence of Scab Disease	56700	162312	105612	2.86	56340	145862	89522	2.58

										%	ases 9.90 %									
Spices & condiments																				
Fennel-2022-23	IDM	Foliar spay of carbendazim 12% + Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS	25	10	25.4	16.1	20.3	15.9	27.6	Incidence of blight 6.3%	Incidence of blight 10.1%	32050	284200	252150	8.9	31750	222600	190850	7.01	
Ajwain-2022-23	ICM	Improved variety of fennel – Ajmer Ajwain– 93	20	5	13.2	11.10	11.9	10.9	9.6	No.of umbells/pl 183.50	No. of umbells/pl 167.2	30020	107122.5	77102.5	3.6	29010	97605	68595	3.4	
Ajwain-2023	ICM	Improved variety of fennel – Ajmer Ajwain– 93	20	5	Result awaited															
Fennel-2022-23	ICM	Improved variety of fennel – Gujarat Fennel – 12	20	5	26.9	18.4	21.8	16.9	29.3	No.of umbells/pl 40.3	No. of umbells/pl 35.7	31990.8	305193	273202	9.54	31837.1	236117	204279.9	7.4	
Cumin+Ajwain-2022-23	ICM	Intercropping cumin+ Ajwain (4:1)	20	5	7.7 Cu mi n+ 3.9 Aj wai n	5.2 Cum in+ 2.7 Ajw ain	6.0 Cum in+ 3.6 Ajw ain	6.1 9	55.3				36025	167854.5	131829.5	4.7	34425	139353.8	104928.8	4.1
Cumin+Ajwain-2023	ICM	Intercropping cumin+Ajwain (4:1)	20	5	Result awaited															

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Frontline Demonstration on Nutri cereals

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Pearlmillet	Varietal Evaluation	GHB-1129	GHB-1129	25	10	29.3	21.9	24.4	20.9	17.3	23400	61030	37630	2.6	22800	52200	29400	2.3

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters Milk Production		% change in major parameter	Other parameter Fat %		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
Crossbreed cow, 2022-23	Animal Nutrition management	Bypass fat	10	10	10.0	9.3	8.31	7.26	13698	26273	12575	1.9	12078	21055	8977	1.7	
Crossbreed cow, 2023-24	Disease management	Clomephene citrate 300 mg bolus	20	20	Results awaited												
Buffalo																	
Mehsani Buffalo, 2022-23	Animal Nutrition management	Bypass Protein	10	10	8.31	7.26	8.10	7.39	14139	38082	23943	2.70	12339	30331	17992	2.46	

FLD on production of organic input

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Vermi compost (2022-23)	Production of vermin compost	10	Production of vermin compost	1800 Kg Vermi compost produce in a year (1 cycle in a year) - Self used	Undecompose FYM production & its use
Natural Farming	Production of input of natural farming				

FLD on Other Enterprise: Kitchen Gardening

Nutrition garden components	Thematic area	Area (sq mt)	No. of Farmer	No. of Units	Yield (Kg)- supply of vegetables, fruits, etc from KG in the year		% change in yield	Household size (number)		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check*		Demo	Check	Gross Cost	Gross Return /Savings*	Net Return	BCR (R/C)	Gross Cost	Gross Return / Savings*	Net Return	BCR (R/C)
Kitchen garden, 2022	house food security	cultivation of seasonal vegetable in backyard for supplementing additional vegetable in daily diet	80	80	1237Kg /year. Availability-11 month	750 kg /year .Availability-7 month	64.93 85.71	8	8	-	9480/unit	-	-	18240 /unit	-	-	-

Kitchen garden, 2023	house food security	cultivation of seasonal vegetable in backyard for supplementing additional vegetable in daily diet	60	60	Result awaited
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*check maybe family adopting different Nutrition garden model/ no adoption of Nutrition garden model
Savings from produce of Nutrition garden used for home consumption

FLD on Demonstration details on crop hybrids

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Oilseed crop													
Castor (2021-22)	ICM	Hybrid variety (GCH-7) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	25	10	22.8	17.9	20.1	16.4	23.2	21843	120888	99045	5.5
Castor (2022-23)	ICM	Hybrid variety (GCH-7) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	50	20	Result Awaited								

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

Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management	01	03	00	03	12	00	12	15		15
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total	01	03	00	03	12	00	12	15	00	15

feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)NF										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	18	400	101	501	34	09	43	434	110	544

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	02	46	11	57	00	00	00	46	11	57
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation	01	24	00	24	00	00	00	24	00	24
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Organic farming in crop production										
Other (Natural Farming)	06	319	39	358	02	00	02	321	39	360
Total	09	389	50	439	02	00	02	391	50	441
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	01	30	00	30	00	00	00	30	00	30
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (Natural farming & mulching)	03	82	00	82	04	00	04	86	00	86
Total (a)	04	112	00	112	04	00	04	116	00	116

b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	01	27	00	27	00	00	00	27	00	27
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	01	32	00	32	00	00	00	32	00	32
Plant propagation techniques										
Others (pl specify)										
Total (b)	02	59	00	59	00	00	00	59	00	59
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	01	27	00	27	03	00	03	30	00	30
Processing and value addition										
Others (pl specify)										
Total (e)	01	27	00	27	03	00	03	30	00	30

f) Spices										
Production and Management technology	01	19	39	58	01	02	03	20	41	61
Processing and value addition										
Others (pl specify)										
Total (f)	01	19	39	58	01	02	03	20	41	61
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)	08	217	39	256	08	02	10	225	41	266
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	02	34	16	50	00	04	04	34	20	54
Production and use of organic inputs	01	06	26	32	00	00	00	06	26	32
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing	01	26	00	26	00	00	00	26	00	26
Others (pl specify)										
Total	04	66	42	108	00	04	04	64	46	112
IV Livestock Production and Management										
Dairy Management	03	21	48	69	04	06	10	25	54	79

Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	02	26	20	46	01	00	01	27	20	47
Disease Management	07	63	112	175	00	16	16	63	128	191
Feed & fodder technology	02	39	18	57	05	08	13	44	26	70
Production of quality animal products										
Others (pl specify)										
Total	14	149	198	347	10	30	40	159	228	387
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	03	20	61	81	00	16	16	20	77	97
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	01	00	21	21	00	00	00	00	21	21
Value addition	01	00	13	13	00	14	14	00	27	27
Women empowerment										
Location specific drudgery reduction technologies	02	00	57	57	00	04	04	00	61	61
Rural Crafts										
Women and child care	01	00	26	26	00	00	00	00	26	26

Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics SPNF										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	49	915	567	1482	21	97	118	936	664	1600

Layout and Management of Orchards										
Cultivation of Fruit	01	27	00	27	00	00	00	27	00	27
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	01	32	00	32	00	00	00	32	00	32
Plant propagation techniques										
Others (pl specify)										
Total (b)	02	59	00	59	00	00	00	59	00	59
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	01	27	00	27	03	00	03	30	00	30
Processing and value addition										
Others (pl specify)										
Total (e)	01	27	00	27	03	00	03	30	00	30
f) Spices										
Production and	03	59	40	99	03	02	05	62	42	104

Rabbit Management										
Animal Nutrition Management	02	26	20	46	01	00	01	27	20	47
Disease Management	07	63	112	175	00	16	16	63	128	191
Feed & fodder technology	02	39	18	57	05	08	13	44	26	70
Production of quality animal products										
Others (pl specify)										
Total	15	152	198	350	22	30	52	174	228	402
V Home Science/Women empowerment	01	03	00	03	12	00	12	15		15
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	01	00	21	21	00	00	00	00	21	21
Value addition	02	00	31	31	00	16	16	00	47	47
Women empowerment										
Location specific drudgery reduction technologies	02	00	57	57	00	04	04	00	61	61
Rural Crafts										
Women and child care	01	00	26	26	00	00	00	00	26	26
Others (pl specify)	03	02	59	61	00	27	27	02	86	88
Total	13	22	282	304	00	65	65	22	347	369

and Group Dynamics										
Leadership development										
Group dynamics - SPNF										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	67	1315	668	1983	55	111	166	1370	779	2149

Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)Health and nutrition	02	00	48	48	00	09	09	00	57	57
TOTAL	3	8	59	67	0	16	16	8	75	83

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
Productivity enhancement in field crops	02	37	5	42	11	1	12	48	6	54
Integrated Pest Management	01	14	03	17	00	00	00	14	03	17
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production technology of spices crops	01	12	04	16	00	00	00	12	04	16
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	01	00	43	43	00	22	22	00	65	65
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	01	24	00	24	04	00	04	28	00	28
Livestock feed and fodder production										
Household food security	01	00	18	18	00	16	16	00	34	34
Any other (pl.specify)(spice crop) 1	01	13	02	15	01	00	01	14	02	16
Any other –										
TOTAL	08	100	75	176	16	39	55	116	114	230

**Training programmes for Extension Personnel including sponsored training –
CONSOLIDATED (On + Off 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
Productivity enhancement in field crops										
Integrated Pest Management	01	14	03	17	00	00	00	14	03	17
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	01	00	43	43	00	22	22	00	65	65
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	01	24	00	24	04	00	04	28	00	28
Livestock feed and fodder production										
Household food security	01	00	18	18	00	16	16	00	34	34
Any other (pl.specify)(spice crop) 1	01	13	02	15	01	00	01	14	02	16
Any other –	01	12	04	16	00	00	00	12	04	16
TOTAL	08	100	75	176	16	39	55	116	114	230

Sheep and goat rearing										
Piggery										
Poultry farming										
Others (Value addition)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
Repair and maintenance of farm machinery and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.	01	00	18	18	00	02	02	00	20	20
Tailoring, stitching, embroidery, dyeing etc.	01	00	01	01	00	09	09	00	10	10
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total	02	00	19	19	00	11	11	00	30	30
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	03	00	38	38	00	12	12	00	50	50

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)	35	371508	150	371658
Diagnostic visits	05	68	06	74
Field Day	21	749	04	753
Group discussions	10	163	0	163
KisanGhoshi	08	1015	20	1035
Film Show	15	611	00	611
KisanMela	6	2413	55	2468
Exhibition	03	1451	55	1506
Method Demonstrations	3	81	0	81
Exposure visits	2	38	0	38
Scientists' visit to farmers field	125	814	-	814
Farmers visit to KVK	-	2214	-	2214
TV talks	04			Mass
Soil health campaign	04	141		141
Farmers' seminar/workshop				
animal health camps c (Number of animals treated)	02	-	-	381
Celebration of important days Special day celebration	06	581	22	603
Lectured Delivered	25	2565	107	2672
Others PM Live telecast programme	07	966	52	1018
Total	281	385378	471	386230

Note- Advisory services includes social media, website, telephonic calls etc.

Details of other extension programmes:2023

Particulars	Number
Electronic Media (CD./DVD)	1
Extension Literature	08
Newspaper coverage	10
Popular articles	13
Telephonic help line	1791
Social Media (No. of platforms Used) kisan mobile sandes	371508
Others (pl. specify)	
Total	373331

3.6 Online activities during year 2023

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing /	Title of Program	No. of Programmes	No. of Participants/ Views
A Farmers training					
1		You Tube	Disease in livestock and their management	01	1100
2		Audio conference	Digital farm school –Post Harvest Mnagement of Cumin	01	70
3		Facebook live	Production Technology of Spices Crops	01	1500
Total				03	1670

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	GW-451	-	995	34125	45
	Wheat	GW-513	-	100	3500	10
Oilseeds	Mustard	GDM-4	-	20	1600	20
Total				1095	39225	75

Production of planting materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial	Tobacco	GDM-4	-			
Vegetable crops	Tomato	Abhinav	Hybrid	2000	-	60
	Brinjal	Neelesh	Hybrid	2000	-	60
	Chilli	VNR-108	Hybrid	2000	-	60
	Watermelon	Mahabali	Hybrid	6000	16500	4
Fruits	Drumstick	PKM-1	-	253	1995	61
	Lime	Kagzi lime	-	838	12570	87
	Papaya	Madhubindu	-	300	3000	60
Ornamental plants	Rose	Desi	-	58	580	4
	Pendula	Local	-	20	200	1
Total				13469	34845	397

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg/Lit		
Bio Fertilisers	Vermi Compost	5200 Kg	1100	3 (220 Kgsale to farmers & rest used at KVK Farm)
Bio-pesticide	Neemastra & Brahmastra	100 lit	-	Used at KVK
Bio Agents	Jivamrut	1000 lit	-	Used at KVK
Azolla	Azolla	250 Kg	-	Used in Gaushala
Earth worm (I foetida)	worm	20 Kg	5000	10
Total		5470 Kg & 1100 Lit	6100	

Production of livestock materials

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

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

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

B. Literature developed/published

Item	Title	Authors name	Number
Research papers	Integrated Management of Wilt disease for enhancing the productivity of cumin	Kumar Upesh, Patel G A, Singh T & Darji S S & Raghav R S(2023). Scientist ISSN: 08903670 NAAS: 6.85	Mass
	Enhancing productivity of mustard through adoption of improved technology in District- Patan (Gujarat)	Kumar Upesh, Singh T, Chaudhari R P & Darji S S & Raghav R S(2023). Scientist ISSN: 08903670 NAAS: 6.85	Mass
Technical reports	Enhancement of productivity in Castor Crop in District- Patan	Dr Upesh Kumar & Mr R P Chaudhari	05
	Enhancement of productivity in Mustard Crop in District- Patan	Dr Upesh Kumar & Mr R P Chaudhari	05
	Enhancement of productivity in Chickpea Crop in District- Patan	Dr Upesh Kumar & Mr G A Patel	05
Popular articles	Millet is a Superfood	Smt H M Patel	Krishi Govidhya
	Different method of grain storage	Smt H M Patel Smt J S Patel	Krishi Prabhat
	Nutrional and health importance of cereal crops including ragi kang.	Smt H M Patel	Krishi Prabhat
	Production Technology of Kharif Fennel	S.S.Darji	Krishi Prabhat
	Weed management,IPM and IDM in Kharif Fennel	S.S.Darji	Krishi Prabhat
	Plant protection measures of Pink ball worm in Cotton	Dr Upesh kumar Patel	Krishi Prabhat
	Making of compost from partheniyum grass	R.P. Chaudhari	Krishi Prabhat
	Trochoderma is an important fungus for the control of various fungal diseases	Dr Upesh kumar Patel R.P. Chaudhari	Krishi Prabhat
	Use of Custard apple plant as a Bio-pesticide in organic farming	Dr Upesh kumar Patel R.P. Chaudhari	Krishi Prabhat
	What steps should be taken before and after calving in Cow & Baffalo.	Dr Sanketbhai Patel	Krishi Prabhat
	Metabolic disease in Cattle	Dr Sanketbhai Patel	Krishi Prabhat
	Afimeral fever and dangue disease of cattle occurring Aug-Sept.	Dr Sanketbhai Patel	Gaodhuli,2023
Extension literature	Method of Grain storage and pest control	Smt H M Patel	

	Value addition Of Millet	Smt H M Patel	
	Natural Farming	R.P. Chaudhari	
	Production technology of pearl millet	R.P. Chaudhari	
	Production technology of Fennel	S.S.Darji	
	Production technology of Ajwain	S.S.Darji	
	Production technology of Cumin	S.S.Darji	
	Basic Principles for obtaining high return at low cost in livestock business	Dr S.J.Patel	

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	CD	Kitchen gardening	05
2	CD	Use of secaiter for harvesting of castor spike	05


D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel	KVK Patan	
2	Facebook page/ Account	KVK Patan	
3	Digital farm school	KVK Patan	
4	WhatsApp groups	KVK, Patan; Crop production, Animal Science, Horticulture, Plant Protection & Home Science	
5	Twitter Account	@kvkpatan	
6	Any other (Pl. Specify)- Google meet	KVK Patan	

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

Success story-01

Year- 2023

Name of KVK	Krishi Vigyan Kendra, District – Patan (Gujarat)	
Title of intervention	Enhancing castor productivity through adoption of improved technology	
Crop and Variety	Castor & GCH-8	
Name of farmer & Address	Patel Natvarbhai Bhagvandas, Village:- Norta, Ta. Patan, Di. Patan	
Details of technology demonstrated	<ul style="list-style-type: none"> • Improved variety : GCH-8 • Seed & soil inoculation by Trichoderma viridae • Soil inoculation of N.P. & K. liquid bio-fertilizer • RDF as per STV • Timely application of IWM & IPM 	
Institutional Involvement	<ul style="list-style-type: none"> • Krishi Vigyan Kendra, Patan • ATMA, Patan • Agriculture Department, Patan • Reliance Foundation, Patan 	
Success Point	<ul style="list-style-type: none"> • GCH-8 – Medium height, triple bloom, Mahogany stem, semi semi-spiny, resistant to wilt-nematode complex and tolerant to root rot diseases • Seed & Soil inoculation by Trichoderma to reduce the fungal incidence at early stage • Soil inoculation by liquid bio fertilizer (N, P & K) for better growth of plants resulted enhance the productivity. • Interculture operation to manage the weed & polarise the soil resulted save the soil moisture & better growth of root as well as plant. • Use of IPM module for proper management of insect- pest. 	
Farmer Feedback	<ul style="list-style-type: none"> ➤ Excellent growth of hybrid variety of Castor- GCH-8 ➤ Very less incidence of fungal diseases due to seed treatment of fungicide. ➤ Excellent growth of plant due to use of liquid bio fertilizer (N,P,K) as well as RDF as per STV ➤ Low infestation of pest due to timely use of IPM module ➤ Ultimately 26.2 per cent enhance the productivity due to adoption of improved technology. 	

Yield (q/ha)	
Demonstration	35.2 q/ha
Potential yield of variety/technology	35.8 q/ha
District average	19.12 q/ha
State average	20.96 q/ha


Performance of technology vis-à-vis Local check (Increase in productivity and returns)

Practice used	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	32.2	32580	193056	160476	5.9
Demonstration	40.6	36610	243600	206990	6.7
% Increase	26.2	12.4	26.2	29.0	13.5



Success story-02

Year :2023

Name of KVK	Krishi Vigyan Kendra, District – Patan (Gujarat)	
Title of intervention	Enhancing Mustard productivity through adoption of improved technology	
Crop and Variety	Mustard & GDM-4	
Name of farmer & Address	Patel Chaturbhai Shankarbhai Village:- Junamoka, Ta. Harij, Di. Patan	
Details of technology demonstrated	<ul style="list-style-type: none"> ➤ Improved Variety- GDM-4 ➤ Seed treatment & soil inoculation of Bio-fertilizer viz. NPK liquid consortia and Bio-fungicide viz. Trichoderma viridae ➤ Timely application of INM, IWM & IPM 	
Institutional Involvement	<ul style="list-style-type: none"> • Krishi Vigyan Kendra, Patan • ATMA, Patan • Agriculture Department, Patan • Reliance Foundation, Patan 	
Success Point	<ul style="list-style-type: none"> ➤ GDM-4- High Yield, Bold seeded, ➤ Seed treatment and soil inoculation by liquid bio-fertilizer enhance the germination as well as growth and Bio-fungicide viz. Trichoderma viridae reduce the Fungal disease incidence. ➤ Soil inoculation by Trichoderma viridae reduce the disease incidence. ➤ Application of RDF and IWM technology ➤ Use of IPM modal- Sticky trap & need based application of pesticide management of insect pest infestation during the crop season. 	
Farmer Feedback	<ul style="list-style-type: none"> ➤ Excellent growth of crop (variety GDM-4 in Mustard) ➤ Seed treatment and soil inoculation by Bio-fertilizer enhance the germination and growth during the season. ➤ Very low infestation of insect pest specially Aphid and blight disease incidence due to adoption of IPDM modals. ➤ Ultimately 21.7% enhance the productivity due to adoption of improved technologies. 	

Yield (q/ha)	
Demonstration	16.9 q/ha
Potential yield of variety/technology	24.1 q/ha
District average	14.95 q/ha
State average	18.36 q/ha

Performance of technology vis-à-vis Local check (Increase in productivity and returns)

Practice used	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	17.5	16360	72485	56125	5.7
Demonstration	21.3	19730	92105	72375	6.1
% Increase	21.7%	20.6	27.1	29.0	7.0



Success story-03

Year -2023

Name of KVK	Krishi Vigyan Kendra, District – Patan (Gujarat)	
Title of intervention	Enhancing Net Profitability through Muskmelon Cultivation	
Crop and Variety	Muskmelon Var. Golden Glory	
Name of farmer & Address	Nadoda Babubhai Rupabhai, Village:- Gujarwada, Ta.Sami, Di. Patan Mo.No.:-9825048239	
Details of technology demonstrated	<ul style="list-style-type: none"> • Hybrid variety (pvt) : Golden Glory • Seed & soil inoculation by Bijamrut • Soil inoculation of N.P. & K. liquid bio-fertilizer • Plastic Mulching & Micro irrigation System (Drip) • Water soluble fertilizers • Crop Cover • Timely application of IWM,IPM & IDM • Use no-mate fruit fly trap 	
Institutional Involvement	<ul style="list-style-type: none"> • Krishi Vigyan Kendra, Patan • ATMA, Patan • Horticulture Department, Patan • Reliance Foundation, Patan 	
Success Point	<ul style="list-style-type: none"> • Golden Glory – Maturity days are 55-65 days after sowing. Dense netting round to oval shape. Orange flesh 1.25-1.5 kg weight. 12-14 % sugar content, excellent variety for long distance. • Seed & Soil inoculation by Trichoderma to reduce the fungal incidence at early stage • Soil inoculation by liquid bio fertilizer (N, P & K) for better growth of plants resulted enhance the productivity. • Mulching & Drip irrigation system technology to manage the weed & polarise the soil resulted save the soil moisture & better growth of root as well as plant. • Use of IPM module for proper management of insect- pest. 	
Farmer Feedback	<ul style="list-style-type: none"> ➤ Excellent growth of hybrid variety of Muskmelon-Golden Glory ➤ Very less incidence of fungal diseases due to seed treatment of fungicide. ➤ Very less infestation of fruit fly due to use of No-Mate fruit fly trap ➤ Excellent growth of plant due to use of liquid bio fertilizer (N,P,K) as well as water soluble fertilizers. ➤ Low infestation of pest due to timely use of IPM module including no mate fruit fly trap ➤ Less incidence of weed due to use of drip irrigation as well as mulching ➤ Ultimately % enhance the productivity due to adoption of improved technology. 	

Performance of Crop	
Crop	Muskmelon
Sowing Date	15/01/2023
Harvesting Date	01/04/2023
Technology Adoption	Hybrid Variety, Mulching, Crop cover, INM, MIS, IPM module
Area	1.44 ha
Total Production	73333 Kg
Selling Price	15 Rs./Kg
Total Expenditure	3.5 lakh
Gross Income	11 lakh
Net Return	7.5 lakh
B:C Ration	1:3.14



SUCCESS STORY- 04

Year – 2023

Title : Enhancing milk productivity through adoption of latest technology

Name of farmer & address: Chudhary Rekhaben Mansinhbhai
Village : Nana, Ta.: Harij, Dist.:Patan
Mobile No.: 9925071431



No of Animal : HF Cow- 03 No, Calf- 04 No, Land – 10 vigha
Buffalo- 05,

Background information :
about farmer field

Details of technology demonstrated :

- Improved breed
- Balance feeding
- Use of feed supplements like chelated mineral mixture, bypass fat, etc.
- Deworming
- Timely vaccination
- Round the year green fodder production



Institutional involvement :

- Krishi Vigyan Kendra
- Department of Animal Husbandry, Patan
- Dudhsagar Dairy
- ATMA, Patan

Success point :

- Use of Sexed semen dose for producing female calf
- Use of Azolla as a animal feed and drinking water facility with calcium
- Always adopt the latest technology of animal sector & also motivate to other farmers

for adopting them.

- Average milk production is 20000 lit/ year
- 1 HF cow lactation yield- 7500 lit.

Farmer feedback :

- Use of super bullet Napier grass under round the year green fodder production
- Use of latest technology like- by pass fat, probiotics, chelated mineral mixture etc

Performance of technology:-

Total milk production in a year	20000 Liter
Average milk selling price	Rs 35/ Liter
Total expenditure in a year	Rs 4,00,000/-
Grass income	Rs 7,00,000/-
Net Income	Rs 3,00,000/-
B:C Ratio	

Success Story-05

Year : 2023

Title : **Kitchen garden**
Name and address : Smt Sumitraben Rameshbhai Patel
Address: Village: Thakrasan, Ta. Sidhpur
Dist. Patan, Gujarat
Age: 42 years
Education: - 8th

Background :

Smt Sumitraben R Patel lives in village Thakrasan. She mentioned that prior to joining the programme, her family diet lacked diversity and consisted mostly of the crops they grow on their farmland or what they could purchase from market. She is further noted that relying on market for food can be costly, thus their family could not expand their diets through the market. She is educated & works as a housewife.

Training and Motivational support:

Krishi Vigyan Kendra, District Patan conducted training & demonstration under NARI programme on household nutritional security through kitchen garden. Home scientists of Krishi Vigyan Kendra regularly visit & motivate farm women for proper execution of demonstration.

Impact in the area :

- Round the year availability of fresh vegetables
- Clean & decorate the back yard space of house
- Use surplus time for creativity in kitchen garden
- Use wastage material like water & other waste in the form of compost
- Save money

Output : Regular availability of fresh & quality seasonal vegetables

Outcome : Enhance income Rs 11,800/Year, Improve fitness level



Success Stories -06

Year – 2023

Title : Vermicompost
Name : Prajapati Nitaben Pareshbhai
Address : Nagvasan, Ta. Sidhpur
Dist. Patan, Gujarat
Mo.-9687326772
Age : 35 years
Education : 10th

Theme	Production Technology of Vermicompost
Introduction	The intensive agricultural practices boosted the production to feed the growing population in the underdeveloped countries. Farmers could harvest three crops in a year, but there is no thought about its adverse effect in the long run on the soil condition in general and on the environment by intensive use of different chemical fertilizers.
KVK intervention	Looking to the bright scope for vermicompost, KVK has organized the training programmes of preparation of vermicompost. KVK technical personnel have imparted training about preparation of the vermicompost with the objective to prepare best quality manure from rotting organic waste & FYM by the vermicompost method.
Output	One of the enthusiastic participants has started a vermicomposting unit on his farm.
Outcome	She, Nitaben Prajapati, inspired her farmers for the preparation & use of vermicompost with a view to improve the fertility and prevent the crop against the infestation of termites.
Impact	Prepared Compost- 1800Kg (1 Cycle 1 Year 9000Kg Compost) Price of finished Compost- 63000Rs. (7Rs./kg Compost) Earthworms- 250Rs./Kg



Success Stories – 07 Year – 2023

Title : **Tailoring and Stitching
(women empowerment through
Tailoring& Stitching in Women &
children garments)**



Name : Makvana Niruben Manubhai
Address : Village: Sandesari,Ta.Sidhpur
Dist.Patan,Gujarat
Mo.-9978011153
Age : 23 years
Education : BA

Introduction :

Now a day human need is increased very intensively.so there is a acute need to earn more income from other occupation by rural youth. with a view to empower& generate income vocational training programme has been organized by KVK for rural youth.

KVK intervention :

Looking to the requirements& interest of the 20 rural youth (girls) of the Sandesri village ,Taluka- sidhpur, District- Patan. KVK Home scientist arraned a long term vocational course from 18/04/2022 to 18/05/2022 on “Tailoring & stitching .in this vocational traning programme 20 rural youth had been trained about Drawing of the Diagram, method of measurement,cutting& sewing of Different garments as introduction & function of the different parts of the machine

Output :

After completion of the long term vocational training programme Makvana Niruben Manubhai

Outcome :

Has started the tailoring at their home. they are preparing the different garments and earn averageR15000 to 20000 per month regularly



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

Digital Farm School:- Krishi Vigyan Kendra & Reliance Foundation, Patan were jointly conducted digital farm school for dissemination of production technology of cumin, which is selected under One District One Product. In this programme, we selected three group- One control group, second Kisan mobile sandesh group & third group is digital farm school group. In each group have 60 No of farmers.Under this programme, first we are conducted base line survey & plan the technology according to crop stage. After completion of prgramme, we are find out the impact of the programme.

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

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

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

A. Practicing Farmers

- a) Bench mark survey
- b) PRA
- c) Field visit
- d) Group Discussion etc

B. Rural Youth

- a) Field visit
- b) PRA
- c) Training
- d) Group discussion

C. In-service personnel

- a) Field visit/ Diagnostic visit
- b) SAC meeting

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

For FLD:

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system
- iv) Others if any

5.3. Field activities

- i. Name of villages identified/adopted with block name (from which year) -
- ii. No. of farm families selected per village :
- iii. No. of survey/PRA conducted :
- iv. No. of technologies taken to the adopted villages
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologie

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
Sardarkrushinagar Dantiwada Agril. University, S.K.Nagar	-Technical Back stopping
Agril. Department Gujarat State, Patan	-Linkage for exchange of information regarding farming. -Linkage for training programme of seasonal crops for practicing farmers. -Linkage for training of extension functionaries.
Gujarat State Fertilizer & Chemical Ltd. Sidhpur	-linkage for demonstration about efficient and proper use of chemical fertilizer and importance of bio-fertilizer. -Linkage for soil and water analysis and training programme to farmers
G.N.F.C. Sidhpur	-Linkage for soil and water analysis. -Linkage for farmer training programme
Department of Animal Husbandry, Gujarat State, Patan	-Linkage for training of management of milking animal & steps to solve the burning problem of cattle owner. -Linkage for training to Ext. functionaries.
Dept. of Horticulture Gujarat State, Patan	To create awareness regarding different schemes of Horticulture development. -To increase the awareness about protective cultivation in shade net
Farmers Training Centre, Patan	-linkage for imparting training to farmers & farm women & rural youth
ICDS Patan	In-service training programme and sponsored training programme
ATMA Patan	-Seasonal training programme -Demonstration of Agril. technology
IWMP, Patan	Imparting training to the extension functionaries, farmers & farm women about soil reclamation & other enterprises
NABARD, Patan	Training to members of farm science club
Forest Department, Patan	Training & Gosthi regarding awareness about agro forestry as well as medical plant cultivation
SSNL	Demonstration & Training for dissemination of latest technology
Reliance Foundation	Quick delivery of message in large scale through Kisan Mobile sandesh Technical backup through training & demonstration for dissemination of latest technology
Dudhsagar Dairy, Mehsana	Training regarding awareness among the farming community about feed management in dairy animals

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.)
Millet awareness programme	14-03-2023	NABARD, Patan	0.00
Certificate course on Input Dealers	Oct. to Dec., 2023	Input dealers	144400

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

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

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organize by KVK	Other remarks (if any)
01	Meetings	ATMA Management Committee Meeting	02		
		AGB Meeting	02		
		Meeting for ATMA Award	02		
		Meeting Selection of best farmers	02		
		SAC Meeting		01	
		Meeting for Kisan Mela	04	02	
02	Training programmes	Awareness programme like- Low cost technology for higher production in major filed crops, Fruit & vegetable preservation, Crop production, Animal Science & Horticulture etc	05		
03	Extension Programmes				

	Technology			01	
	KisanMela	KisanMela	05	01	
	Kisan Gosthi	Kisan Gosthi	06	02	

D. Give details of programmes implemented under National Horticultural Mission - NA

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

E. Nature of linkage with National Fisheries Development Board - NA

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

F. Details of linkage with RKVY - NA

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Meeting & Training	Finalization of technology & provide Expert support to line department	-	-	

G. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana) - NA

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Meeting & Training	Finalization of technology & provide Expert support to line department	-	-	-

H. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Training & Gosthi	Finalization of technology & provide Expert support to line department	-	-	

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Training & Gosthi	Provide Expert support to line department	-	-	-

7. Convergence with other agencies and departments:

Date	Venue	Participants			Convergence with	Remark
		SC/ST	Others	Total		
02/01/2023 6/01/2023	Bndhwad Jasomav	05	107	112	Reliance Foundation	Suitable technologies of Spices & vegetable crop under climate change
01/02/2023 02/02/2023	Melaj Mudana	06	79	85	Agriculture Dept Patan	Production & Protection technology of pearl millet
17/02/2023 23/02/2023	Chnasma Patan	21	100	121	Vasundhara Foundation	Climate change technology in agriculture
03/03/2023 11/03/2023	Samoda Kimbuva	11	72	83	BAIF, Patan	Natural Farming
18 to 19/07/2023	KVK	05	35	40	BAIF, Patan	Production & Protection technology of Cotton
Round the year	Entire District	12	220	232	ATMA, Patan	Natural Farming
25-09-2023	Sami	15	50	65	ICDS, Patan	Value addition of Millet
27-09-2023	Vernoseri	150	1150	1300	Banas FPC, Santalpur	Self seed production & organic farming
14-03-2023	KVK	00	35	35	NABARD, Patan	Production & Value addition

						of millet & meeting
Round the year	Entire District	54	266	320	Horticulture Dept., Patan	Value addition of fruits & Vegetable

8. Innovative Farmers Meet

Sl.No.	Particulars	Details
1	Have you conducted Farm Innovators meet in your district?	Yes/ No
1	FPO AGB meeting regarding self seed production & adoption of organic farming – 27-09-2023	1300 FPO Member

9. Farmers Field School (FFS) - NA

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:

- Need to develop yellow mosaic resistant variety of black gram.
- Need to develop high yielding, wilt resistant & drought tolerance variety of chickpea.
- Need to develop wilt resistant variety in castor
- Need to develop wilt & pink boll worm resistant/ tolerance variety in cotton
- Need to develop cropping system module of vegetable crops.
- Need to develop INM module as per cropping system.
- Need to develop to resistant variety of chilli against viral diseases.
- Need to develop IPM module in major insect of vegetable crop.
- Need to develop complex fertilizer as per crops.

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

Name of scientist	Feed back
Mr R.P.Chaudhri, SMS- Crop Production	Need to develop high yielding & drought tolerant variety of chickpea Need to develop INM module in field crop as per cropping system Need to develop complex fertilizer as per crops
Mr S S Darji, SMS- Horticulture	Need to develop cropping system module of vegetable crops Need to develop INM module in vegetable crop as per cropping system

Mr G A Patel, SMS- Plant Protection	Need to develop yellow mosaic resistant variety of black gram. Need to develop wilt resistant variety of chickpea Need to develop wilt resistant variety in castor Need to develop wilt & pink boll worm resistant/ tolerance variety in cotton
Dr S J Patel, SMS- Animal Science	Need to develop high yielding & high protein contain variety of fodder crop

11. Technology Week celebration during 2023 Yes/No, If Yes

Period of observing Technology Week	:	18 to 23/12/2023
Total number of farmers visited	:	525
Total number of agencies involved	:	-
Number of demonstrations visited by the farmers within KVK campus	:	04 No

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies(Kisan Divas)	01	55	Natural Farming
Training	06	191	Natural Farming, Value addition of aonla, Water & nutrient management in wheat & mustard
Field Day	02	66	Anoestrus management in cross breed cow & Kitchen garden
Field Visit	05	36	During Crop period

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

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

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

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organized

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

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

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

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

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

13. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Varietal adoption				
Castor-GCH-8	50	81	-	-
Fennel-GF-12	25	56	-	-
Wheat-GW-451	50	64	-	-
Cumin-GC-4	25	72	-	-
Ajwain- AA-93	25	52	-	-
Wilt disease management in Cumin through use of Bio-fungicide (Trichoderma spp.)	25	28	-	-
Management of pink boll worm through IPM	25	38	-	-
Application of sulphur in mustard	25	82	-	-
Management of wilt in fennel	25	88	-	-

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

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

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

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2023	4	35354	
Feb 2023	3	35350	
March 2023	3	35350	
April 2023	3	35350	
May 2023	3	35350	
Jun 2023	3	35350	
Jul 2023	4	35354	
Aug 2023	3	31035	
Sept 2023	3	31005	
Oct 2023	3	31005	
Nov.2023	3	31005	
Dec.2023	3	35354	

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
Patan	Text only	28	07	-	01	02	-	38
	Voice only							
	Voice & Text both							
	Total Messages	28	07	-	01	02	-	38
	Total farmers Benefitted	35352	35352	-	35352	35352	-	35352

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sr. No.	Demonstration	Year of establishment	Area (ha)	Details of production			Amount (Rs.)			
				Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks	
1.	Nursery		0.4	Lime-Kagzi	Seedling	5000No.	48000	53490	provide under FLD 380 2300	Sale to farmers & seedling of vegetable grow & provide to farming community under FLD
				Vegetable seedling	Seedling	12000No.				
				Rose-Desi	Sapling	800No.				
				Tobacco Seedling	Seedling	20000				
2.	Vermi compost			Iceniatoetida	Compost	10000kg.	24000	46000	9200kg sale to farmers & rest used at KVK farm	

B. Performance of instructional farm (Crops) including seed production -2023

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereal									
Wheat	28to 29/11/2022	03to 6/04/2023	0.50	G.W-451	seed	1673kg	13725	54530	
Wheat	28/11/2022	6/04/2023	0.10	G.W - 513	Seed	267kg	3915	9345	
Wheat	23/11/2023	-	0.75	G.W-451	Seed	Crop is standing position			
Wheat	30/11/2023	-	0.25	G.W-513	Seed	Crop is standing position			
S.Bajra	14 to 16/2/2023	22 to 26/5/2023	1.00	Hybrid Nandi-52	Commercial	3641kg	7874	78300	
Pulses									
Sunhemp	29 to 01/08/2022	17 to 20 /9/2022	1.50	Local	Green Manuring	-	4256	Green Manuring Purpose	

Sunhemp	13/07/2023	11/9/2023	0.50	Local	Green Manuring	-	5000	Green Manuring Purpose
Oilseed								
Castor irrigate	27/08/2022 to 02/09/2022	15/02/2023 to 10/04/2023	3.50	GCH7,	Commercial	8086kg	25420	492490
Castor irrigated	26/07/2023 to 04/08/2023	-	3.50	GCH7, & GCH8	Commercial			
Mustard	10 to 17/10/2022	12 to 17/02/2023	0.40	Hybrid	Commercial	565kg	4190	26240
Mustard	12/10/2022	12/02/2023	0.10	GDM-4	Seed	180kg	800	9800
Mustard	18/10/2023	-	0.50	Hybrid - Pioneer	Commercial	Crop is standing position		
Mustard	19/10/2023	-	0.25	GDM-4	Seed	Crop is standing position		
Fibers								
Cotton	22 to 27/06/2022	19/11/2022 to 21/12/2022	1.0	Bt BGII , Ankur Jay, Kedar	Commercial	2319 kg	12382	198470
Cotton	26 to 27/06/2023	20/10/2023 to 30/11/2023	0.50	Bt BGII , Ankur Jay, RCH, Don5	Commercial	897kg	8922	63372
Floriculture								
Fruits								
Mango	June1994	May,2023	0.5	Kesar	Commercial	-	-	45000
Sapota	June1994	March, 2023	0.5	Kali patti	Commercial	-	-	
Mango	June1994	May,2024	0.5	Kesar	Commercial	-	-	46000
Sapota	June1994	March, 2024	0.5	Kali patti	Commercial	-	-	
Vegetables								
Tobacco	10 to 21/11/2022	05/04/2023 to 15/04/2023	1.5	GCT-3 & DCT-4	Commercial	4550kg	21214	174565
Tobacco	01 to 07/12/2023	--	0.75	GCT-3 & DCT-4	Commercial	Crop is standing position	Crop is standing position	

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

Sl. No.	Bio Products	Name of the Product	Qty (kg/lit)	Amount (Rs.)		Remarks
				Cost of inputs	Gross income	
1	Bio-Fertilizers	Vermi compost Earthworms	220kg 20kg		1100	Sale to farmers
2	Bio-Agents			-	-	Used at KVK
		Azolla	150lit	-	-	Used in Gaushala
3	Bio-pesticide	Neemastra	100lit	-		Used at KVK

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

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

E. Utilization of hostel facilities

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January 2023	23	14	
February 2023	21	14	
March 2023	25	14	
April 2023	20	14	
May 2023	11	-	
June 2023	-	-	
July 2023	-	-	
August 2023	-	-	
September 2023	10	03	
October 2023	-	-	
November 2023	-	-	
December 2023	29	14	

F. Database management - NA

S. No	Database target	Database created

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

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

H. Performance of Nutritional Garden at KVK farm

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

If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
600sq feet	Vegetable crops	Brinjal, Tomato, chilli, cabbage, cauliflower, capsicum, lady finger, bitter gourd, potato, spinach, fenugreek, coriander, radish, onion, Garlic	1050

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
04	Vegetable crops	brinjal, chilli, tomato. lady finger, cowpea, cluster bean, sponge gourd bottle gourd, Bitter gourd, cucumber, radish, fenugreek, coriander, spinach, Guwar, cauliflower, cabbage	60
	Fruit crops	Papaya-10,lemon-2,Drumstick-2	

H. Details of Skill Development Trainings organized

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

16. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute							
With KVK	State Bank of India	Kahoda, Mahesana	15232	KVKSGVS Ganwada, Saraswati Gram Vidyapeeth, Ganwada, Siddhpur	10265325092	384002509	SBIN0015232

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

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	191.3	187.7	141.0
2	Traveling allowances			0.90
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			0.92
B	POL, repair of vehicles, tractor and Equipments			1.0
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			1.40
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			0.21
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			2.05
F	On farm testing (on need based, location specific and newly generated information in	11.75	1175	0.52

	the major production systems of the area)			
G	Training of extension functionaries			0.00
H	Maintenance of buildings			0.00
I	Establishment of Soil, Plant & Water Testing Laboratory			0.00
J	Library			0.00
TOTAL (A)		203.05	19.95	14.80
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)	9.0	0.0	
4	Library (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		212.05	19.95	14.80

C. Status of revolving fund (Rs. in lakh) for the Four years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2020 to March 2021	1150654	833659	470791	1513516
April 2021 to March, 2022	1513516	839033	533398	1882438
April 2022 to March 2023	1882438	2627781	1628195	2882024
April 2023 to Dec., 2023	2882024	1133907	1016062	2999869

17. Details of HRD activities attended by KVK staff during year 2023

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/Offline)	Dates
Mr G.A.Patel R.P.Chaudhari	Sci. Pl.Protection Sci. Agronomy	Workshop on Millet- Production & value addition	SDAU, S.K.Nagar	Offline	10/03/2023
Mr S.S.Darji R.P.Chaudhari Dr.S.J.Patel	Sci. Horticulture Sci. Agronomy Sci. Ani. Sci	Workshop on Millet- Production & value addition	SDAU, S.K.Nagar	Offline	20/03/2023

Mr S.S.Darji R.P.Chaudhari Dr.S.J.Patel Smt H.M.Patel	Sci. Horticulture Sci. Agronomy Sci. Sci.Ani. Science Sci.Home science	Natural Farming	ATMA Gandhinagar	Offline	01- 02/06/2023
Smt H.M.Patel	Sci.Home science	Post Harvest Management& Storage	NIPHM Hyderabad	Online	20- 24/03/2023
Smt H.M.Patel	Sci.Home science	Millet based Recipe Contest	ICAR NEW DEIHI	Online	25/05/2023
Mr S.S.Darji R.P.Chaudhari Smt H.M.Patel	Sci. Horticulture Sci. Agronomy Sci.Home science	Kharif pre seasonal workshoop	SDAU, S.K.Nagar	Offline	20- 21/06/2023
Dr.S.J.Patel	Sci.Ani. Science	Animal Health& Production	IVRI& ICAR	Online	28/07/2023
Mr S.S.Darji Smt H.M.Patel	Sci. Horticulture Sci.Home science	APR &Bi-monthly review meeting	EEl,Anand & KVK Khedbrahma	Offline	22- 24/08/2023
Dr. Upesh Kumar Mr S.S.Darji	Senior Scientist and Head Sci. Horticulture	Bi-monthly review meeting	SDAU S.K.Nagar	Offline	04/07/2023
Dr. Upesh Kumar Mr S.S.Darji	Senior Scientist and Head Sci. Horticulture	Bi-monthly review meeting	SDAU S.K.Nagar	Offline	13/09/2023
Dr.Upesh Kumar Mr S.S.Darji	Senior Scientist and Head Sci. Horticulture	ZERAC Meeting	SDAU S.K.Nagar	Offline	04/10/2023
.P.Chaudhari	Sci. Agronomy	Workshop on rabi Pre seasonal	SDAU S.K.Nagar	Offline	17/10/2023

18. Details of activities planned under NARI /PKVY / TSP / KKA, etc. 2023

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered
01	NARI	02	Training	11	253
			Demonstration	3	40
			Field visit	13	63
			Exhibition	-	-
			Vocational Training	1	20
			Group meeting	4	47
			Field day	1	31

19. Details of Progress of ARYA Project

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

20. Details of SAP 2023

S. No.	Types of major Activity conducted- SwachhtaPakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
1	Training progarmme	19	663
2	Kisan Seminar		
3	Kisan Gosthi under Natural Farming	05	417
4	Kisan Mela	04	1220
5	Vermi compost	02	20
6	Clening Awareness	03	94
7	Field Day	02	77
8	Lecture Deliver	09	1858
9	Clebration of Special day (Kisan diwas,Mahila Diwas,World Food Day)	01	55
10	Workshop Exhibitions	01	48
11	Group Meeting	02	20
12	Mahila diwas	01	44
13	World Food Day	01	73
14	Organization of Press Conference		
15	PM live telecast Kisan Samman nidhi		
16	Kisan Mela Exhibition	04	1220

17	Garib kalayan Sammelan Cum PM live telecast		
18	Clening of Offices and camps disposal of refrences		
	TOTAL	54	5809

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

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	67	1370	779	2149
Rural youths	03	08	75	83
Extension functionaries	08	116	114	230
Sponsored Training	14	262	520	782
Vocational Training	03	00	50	50
Total	95	1756	1538	3294

2. Frontline demonstrations

Crops/Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	70	25	-
Pulses	10	05	-
Cereals	80	22	
Vegetables	24	06	
Spices	40	10	
Commercial crop- Cotton	25	10	
Value addition in Millet & Drum stick	30	-	
Natural Farming	16		
Kitchen Garden	60	-	
Total	355	78	
Livestock & Fisheries	50	-	

Other enterprises- Vermi Compost	10	-	-
Total	60	-	
Grand Total	415	78	

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	06	48	48
Livestock	02	10	10
Various enterprises			
Total	08	58	58
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	08	58	58

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	242	14572
Other extension activities	75	373299
Total	317	387871

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	
Patan	Text only	28	07	-	01	02	-	38
	Voice only							
	Voice & Text both							
	Total Messages	28	07	-	01	02	-	38
	Total farmers Benefitted	35352	35352	-	35352	35352	-	35352

6. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)	1095	39225
Planting Material (No)	13469	34845

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
288	288	-