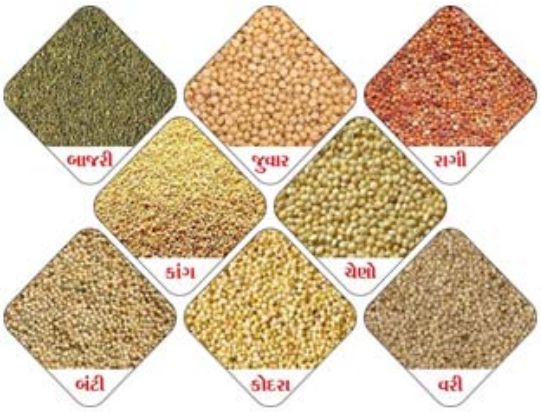
INTERNATIONAL YEAR OF MILLETS 2023



Annual Progress Report

Year - 2022

January to December

GANPAT UNIVERSITY

KRISHI VIGYAN KENDRA

GANPAT VIDYANAGAR-384012

TA & DIST - MEHSANA,GUJARAT

TELEFAX - (02762)289189 WEB: KVKMEHSANA.ORG

EMAIL - KVKMEHSANA@GANPATUNIVERSITY.AC.IN , KVKMEHSANA@GMAIL.COM,

Annual Progress Report - 2022

Krishi Vigyan Kendra,
Ganpat University
Ganpat Vidyanagar-384012
Ta & Dist - Mehsana,Gujarat

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ICAR-ATARI, Pune

DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2022

(1st Jan.2022 to 31st Dec. 2022)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
	Office	Fax		
Krishi Vigyan Kendra, Ganpat University, Mehsana District Education Foundation, Mehsana-Gozaria Highway, Ganpat Vidyanagar-384012, Gujarat.	(02762) 289189 Mo. 07778033471	(02762) 289189	kvkmehsana@gmail.com kvkmehsana@ganpatuniversity.ac.in	www.kvkmehsana.org 5094

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

Address	Telephone		E mail	Website address
	Office	Fax		
Mehsana District EducationFoundation, Mehsana-Gozaria Highway, Ganpat Vidyanagar -384012, Gujarat	(02762) 286080, 286924, 286895, 289207	(02762) 286924	info@ganpatuniversity.ac.in, director.mdef@ ganpatuniversity.ac.in	www.ganpatuniversity.ac.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R. A. Patel	7778033471	094276 92805	rapatel_2003@rediffmail.com

1.4. Year of sanction:2005

1.5. Staff Position (as on Dec, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Mobile No	Discipline	If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
					Current Pay Band	Level	Date of joining	
1.	Senior Scientist and Head	Dr.R.A.Patel	9427692805	Plant Protection	147900	13A	14-12-2018	-
2.	Subject Matter Specialist	Dr.S.M.Soni	9228332681	Animal Husbandry	91100	11	23-01-2006	-
3.	Subject Matter Specialist	Shri.B.K.Patel	9879820818	Crop production	96600	11	17-02-2006	-
4.	Subject Matter Specialist	Shri.M.R.Patel	8511221158	Extension Education	73200	10	09-04-2012	-
5.	Subject Matter Specialist	Mrs.Babita Ramniwas	9157695573	Home Science	69000	10	07-07-2015	-
6.	Subject Matter Specialist	Shri.R.A.Kachhadia	9428989555	Agricultural Engineering	69000	10	07-07-2015	-
7.	Subject Matter Specialist	-		-	-		-	-
8.	Programme Assistant	Ku.R.R.Patel	9427650382	Home Science	55200	6	29-08-2009	-
9.	Computer Programmer	Shri.A.D.Patel	9824479651	-	62200	7	29-05-2006	-
10.	Farm Manager	Shri.A.R.Patel	9904058149	-	62200	7	01-04-2006	-
11.	Accountant/Superintendent	Shri.J.M.Patel	9924418019	-	55200	6	01-09-2009	-
12.	Stenographer	Shri.G.C.Rathod	9904244617	-	42800	5	01-06-2006	-
13.	Driver 1	Shri.K.G.Patel	9909842861	-	35300	4	25-09-2006	-
14.	Driver 2	-		-	-		-	-
15.	Supporting staff 1	Shri.M.H.Patel	9426235880	-	31100	2	18-05-2006	-
16.	Supporting staff 2	Shri.S.M.Patel	9426235879	-	31100	2	18-05-2006	-

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	4.17
2.	Under Demonstration Units	1.00
3.	Under Crops	3.00
4.	Horticulture	11.00
5.	Pond	0.95
6.	Others if any	00.00
	Total	20.12

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	31/03/2008	550	4017138			
2	Farmers Hostel	ICAR	17/04/2008	305.00	5657018			
3.	Staff Quarters (6)	ICAR	17/04/2008	397.50	4719570			
4.	Demonstration Units Vermicompost Unit	ICAR	31/03/2008	80	319000			
5	Fencing	-	-	-	-			
6	Rain Water harvesting system	-	-	-	-			
7	Threshing floor	ICAR	01/03/2007	225	122270			
8	Farm godown	ICAR	31/03/2008	60	410000			
9	ICT Lab.	-	-	-	-			
10	Implement Shed	ICAR	31/01/2012	80	300000			
11	Technology Information Unit	ICAR	31/03/2017	-	496176			
12	Azolla Unit	Revolving fund	31/03/2016	30	30,000			
13	Implement Shed Extension	Revolving fund	27/12/2016	-	337068			
14	Automatic jivamrut unit (Biofertilizer unit)	Revolving fund	31/01/2018	50	1,50,000			
15	Micro Irrigation system	Revolving fund	31/01/2018	-	1,30,000			
16	Nadep compost	ICAR	31/03/2019	40	22500			
17	Hydroponics Unit	Revolving fund	31/03/2019	-	5000			
18	Green House unit	Revolving fund	31/03/2019	-	50000			
19	Kitchen Garden	Revolving fund	31/03/2019	-	13985			
20	Gobar/Bio-gas unit	-	01/12/2019	-	-			
21	Nadep Compost Unit (Extension)	Revolving fund	16/10/2019	-	31242			
22	Vermicompost Unit Extension	Revolving fund	03/09/2021	-	281942			
23	Multi purpose shed	Revolving fund	27/05/2022	-	287410			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Bolero	05/10/2005	5,00,000=00	282036	Very Poor
Massey tractor with trolley (Host institute)	23/06/2004	3,50,000=00	13379 hr	Very Poor
Motor cycle	13/10/2011	50,000=00	19141	Good

C) Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Lenova Laptop	04/02/2022	48281	-
Water Cooler	25/08/2022	41000	-
Revolving chair	10/11/2022	46754	-
Printer	24/11/2022	15500	-
Aonla Juicer	24/12/2022	15340	-
Chaff cutter	31/03/2023	33600	-
UPS-02 nos	28/03/2023	5000	-

1.8. Details SAC meeting conducted in the year

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1	07/01/2022 (Hybrid mode)	1. Shri Ganpatbhai I. Patel,Chairman and Managing Trustee, MDEF, Ganpat University 2. Shri Somabhai K. Rayka,Director, Krishi Vigyan Kendra 3. Dr.M.S. Sharma,Pro Chancellor and Director General, Ganpat University 4. Dr P.T. Patel,Director Extension Education, SDAU, S.K.Nagar 5. Shri Jayantilal S Patel,BOG Member , Ganpat University-KVK 6. Shri Pravin R. Patel,BOG Member , Ganpat University-KVK 7. Dr.Sourabh Dave,OSD, President Cum Managing Trustee, MDEF, Ganpat University 8. Dr.B.S. Deore,Director of Research, SDAU, S.K.Nagar 9. Member,Dy.Forest officer , Dept. of Forest Conservation, Mehsana 10. Dr.Upesh Kumar,Sr.Scientist & Head, KVK, Patan 11. Dr.P.R. Patel, Agriculture Advisor, Ganpat University 12. Shri Kanjibhai S Patel,BOG Member, Ganpat University-KVK 13. Dr Ashvin Patel,Research Scientist (Wheat), WRS, SDAU, Vijapur 14. Dr.N.R. Patel,Associate Research Scientist (Spices), SSRS, SDAU, Jagudan, 15. Member,Dy.Director of Horticulture, Dept. of Horticulture, Mehsana	To demonstrate MIS System in spice crops for its dissemination	MIS Technology installed in crop cafeteria.This unit was visited by farmers and farm women at KVK
			Prepare demonstration plot on natural farming and demonstrate it	One acre of natural farming is practiced on KVK farm. Summer bajra, kharif moong and rabi wheat crops have been grown in it. 3033 farmers and farm women have visited the demonstration plot of natural farming.
			To organize a demonstration of new wheat variety GW-513.	This year new wheat variety GW-513 has been sown on one acre land for seed production at KVK farm. FLD of wheat will be arranged in next year.
			Promoting organic farming in spice crops	The training conducted during the year has disseminated organic farming in spice crops has been promoted. We organized FLDs 10 on wheelhoe and 25 on IPM in fennel crops.
			Value addition on local horticultural crops	During the year, 143 women in 5 trainings on value addition and 20 demonstrations on Aonla candy as well as 10 OFTs on Bajra biscuits have been organised. This year, 2,300 bottles (1 litre) of Aonla juice and 55 packets (100 grams) of drumstick leaf powder have been sold.
			To promote effective use of renewable energy, water conservation and water harvesting structure.	3,033 farmers and farm women have visited gobar gas, solar dryer under renewable energy and roof top water harvesting structure under Jalshakti Abhiyan. During the year, under the Jal Shakti Abhiyan, 4506 farmers and farm women were informed about water conservation in 99 awareness programs and tree planting programme was conducted. 277 kitchen garden kits and 121 Seedlings have been distributed.
			Making videos of new technologies and promoting them through social media.	During the year, 18 videos on new technology have been sent to 20810 farmers on YouTube KVK, Mehsana channel and 19 messages on Kisan Sarathi portal and also sent through WhatsApp
			Dissemination of latest technologies in coordination	During the year, 29 programmes have been organised in coordination with 12 different organizations

		16. Member,District level coordinator , GSFC, Mehsana 17. Member,Dy. Director Agriculture (Training) & Project Director, ATMA, Mehsana 18. Shri Lalitkumar,Director, DENA gramin Swarojgar Talim Sansthan, Mehsana 19. Shri Ratansinh M Rajput,Progressive Farmer, Amarpura, Ta.Mehsana 20. Shri Vijaybhai A. Patel,Progressive Farmer, Khavad, Tal.Kadi 21. Smt. Jignaben Patel,Programme Officer, ICDS, Mehsana 22. Member,Manager, GSSCL, Mehsana 23. Member,Dy. Director of Animal Husbandry, Mehsana 24. Member,DAO, Mehsana 25. Shri Ashvin R. Patel,BOG Member, Ganpat University-KVK 26. Shri Rajendrabhai B Patel,DSC, Visanagar 27. Smt.Sarojben B. Patel,Progressive Farm woman, Motidau, Mehsana 28. Smt.Jamiben Chaudhary ,Progressive Farm woman, Malarpura, Tal.Kheralu 29. Member,Regional Business Head, GSFC, Mehsana 30. Dr.R.A. Patel,Sr.Scientist & Head, KVK, Mehsana	with various institutions.	
			To organize a demonstration on the new recommendation of SDAU, S.K.Nagar in cumin crop.	Total 7 OFTs / demonstration of GC-5 cumin variety were organized
			To send messages of weather information to farmers	Information about the weather being disseminated by the SDAU, S.K.Nagar is communicated to the farmers through WhatsApp medium.

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	Pulses – Mustard /Wheat/Potato
2	Groundnut/Cotton – Wheat/Cumin – Summer Pearl millet
3	Castor
4	Cotton / Pearl millet – Tobacco
5	Pulses – Wheat / Mustard – Sorghum /Summer Pearl millet
6	Fennel
7	Pulses - Fennel

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

a) Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1	IV (North Gujarat)	Semi arid and subtropical

b)Topography

S. No.	Agro ecological situation	Characteristics
1	Alluvial sandy soils with medium rain fall	Sandy and loamy sand
2	Alluvial sandy soils with low rain fall	Sandy loam
3	Alluvial sandy loam soils with medium rain fall	Sandy loam
4	Medium black ill-drained soils with medium rainfall	Sandy, Clay loam and clay

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Medium black	Medium water holding capacity, Medium permeability	64500
2	Sandy loam	Retain more water and nutrient than sandy soil and black soil	259700
3	Sandy	Low water holding capacity High permeability	28900
4	Saline / salt affected	Salt accumulate on soil surface, Water logging condition, Crack formation during summer season It contain excess neutral soluble salts chiefly chlorides and sulphate of Na, Mg and Ca	81900
	Total		435000

2.4. Area, Production and Productivity of major crops cultivated in the district(estimates)
(Area: "00" ha, Prod. : "00" MT, Yield : kg/ha)

SR. No.	Crops	2018-19			2019-20			2020-21			Average		
		AREA	PROD.	YIELD	AREA	PROD.	YIELD	AREA	PROD.	YIELD	AREA	PROD.	YIELD
1	Rice Irrigated	30.10	73.71	2448.68	40.30	78.53	1948.53	55.01	120.51	2190.67	41.80	90.91	2174.78
	Rice summer	0.80	2.08	2600.00	1.70	5.01	2949.67	1.73	5.19	2999.01	1.41	4.09	2903.72
2	BajaraKharif	22.90	33.99	1484.15	30.15	51.50	1708.25	35.16	41.16	1170.68	29.40	42.22	1435.80
	Bajara summer	95.80	307.46	3209.40	104.25	338.58	3247.79	103.16	273.29	2649.19	101.07	306.44	3032.00
3	Maize kharif	0.28	0.50	1770.09	1.97	2.95	1497.34	3.63	5.52	1520.85	1.96	2.99	1524.84
	Maize rabi	0.00	0.00	0.00	0.80	1.82	2276.00	0.65	1.48	2273.01	0.73	1.65	2274.66
	Maize summer	0.00	0.00	0.00	0.35	0.73	2078.00	0.00	0.00	0.00	0.35	0.73	2078.00
4	Moong kharif	22.89	8.13	355.00	19.76	7.66	387.60	21.41	8.82	412.04	21.35	8.20	384.12
	Moong Summer	3.35	3.96	1181.00	2.73	2.85	1044.95	2.05	2.35	1147.78	2.71	3.05	1126.94
5	Math kharif	3.42	0.28	82.00	3.35	1.55	461.82	6.18	3.22	521.46	4.32	1.68	389.97
6	Udadkharif	68.92	46.66	677.00	71.92	32.98	458.52	109.75	64.91	591.45	83.53	48.18	576.83
	Udad summer	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	900.00	0.02	0.02	900.00
7	Tur kharif	0.86	1.04	1208.87	0.20	0.20	990.54	0.92	1.09	1185.81	0.66	0.78	1176.10
8	Groundnut kharif	0.86	1.04	1208.87	0.20	0.20	990.54	0.92	1.09	1185.81	0.66	0.78	1176.10
	Groundnut summer	11.16	22.87	2049.00	20.49	50.12	2446.30	18.68	38.11	2040.00	16.78	37.03	2207.41
9	Castor	871.84	1929.37	2212.99	977.76	2336.69	2389.84	813.95	1960.38	2408.48	887.85	2075.48	2337.65
10	Sesamum kharif	15.18	6.36	418.95	16.58	7.21	434.77	17.60	4.00	227.00	16.45	5.85	355.82
	Sesamum Summer	3.14	1.51	480.00	5.36	2.95	550.00	3.50	1.75	500.00	4.00	2.07	517.10
11	Soyabean	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.34	1357.46	0.25	0.34	1357.46
12	Cotton irrigated	346.73	1450.35	711.10	382.06	1225.85	545.45	356.02	1372.85	655.54	361.60	1349.68	634.53
13	Tobacco kharif	0.70	1.29	1849.31	0.50	0.98	1965.67	0.08	0.16	2054.18	0.43	0.81	1907.57
	Tobacorabi	127.00	215.90	1700.00	162.00	562.25	3470.65	179.10	608.36	3396.78	156.03	462.17	2961.99
14	Guar	111.57	78.10	700.00	138.80	99.39	716.06	137.05	123.84	903.61	129.14	100.44	777.78
15	Wheat irrigated	588.43	1988.33	3379.05	686.29	2379.13	3466.65	717.51	2432.16	3389.73	664.08	2266.54	3413.07
16	Gram	0.00	0.00	0.00	0.80	1.82	2276.00	0.65	1.48	2273.01	0.73	1.65	2274.66
17	Mustard	139.45	239.65	1718.56	126.78	245.00	1932.47	153.34	299.77	1954.93	139.86	261.47	1869.58

Source :www.agri.gujarat.gov.in

Area, production and productivity of Horticultural crops (2021-22)

Crop	Area (ha)	Production (MT)	Productivity (kg/ha)
Mango	950	4893	5150.53
Chiku	1050	9345	8900.00
Citrus	13500	189000	14000.00
Ber	1800	18000	10000.00
Guava	930	9300	10000.00
Pomegranate	1050	12600	12000.00
Papaya	410	19680	48000.00
Aonla	1150	9200	8000.00
Potato	8569	248501	29000.00
Onion	239	4900	20502.09
Brinjal	3000	54000	18000.00
Cabbage	2450	52675	21500.00
Okra	3225	32418	10052.09
Tomato	5900	191750	32500.00
Cauliflower	2000	40000	20000.00
Clusterbean	3500	38150	10900.00
Cowpea	1100	11110	10100.00
Cumin	230	207	900.00
Fennel	7983	17563	2200.05
Dry Chilli	1200	2280	1900.00
Fenugreek	1124	2360	2099.64
Ajwain	6083	6691	1099.95
Dilseed	1087	1304	1199.63
Garlic	156	936	6000.00
Flowers	195	1772	9087.18

Source: Dept. of Horticulture, Mehsana, Gujarat

2.5. Weather data (2022)

Month	Rainfall (mm)	Temperature ^{0} C	
		Maximum	Minimum
January-2022	1.8	29	15
February-2022	0	33	18
March-2022	0	38	23
April-2022	0	41	27
May-2022	0	42	29
June-2022	5	39	30
July-2022	182.9	33	28
August-2022	55.9	32	26
September-2022	33.9	34	26
October-2022	0.6	37	26
November-2022	0	34	22
December-2022	0	30	17
Total	**280.1**		

Source :Worldweatheronline.com/mehsana

2.6. Production and productivity of livestock, Poultry, Fisheries etc in the district (2016-17)

Category	Population	Production	Productivity
Cattle			
Crossbred	3,24,000		9.51 kg
Indigenous			4.50 kg
Buffalo	4,88,000		5.27 kg
Sheep	11,000	12,740 kg (wool)	1.39 kg (wool)
Crossbred			
Indigenous			
Goats	1,12,000		0.50 kg
Pigs			
Crossbred			
Indigenous			
Horse	976		
Donkey	170		
Poultry	1,57,000		
Camel	3410		
Hens		1,20,00,000 no. of eggs	
Desi	17,000		117
Improved	1,41,000		288
Ducks			
Turkey and others			
Fish (Reservoir)			

** Bulletin of Animal Husbandry and Dairying Statistics, 2021-22*

2.7. Details of Operational area / Villages

Sr.No.	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Visnagar	Denap, Ralisana, Saduthala, Sunsi, Savala, Bokarvada, Amarpura, Kansa, Kuvasan, Ghaghret, Kharavada, Umta, Kansarakui, Gadha	Castor, Cotton, Tobacco, Wheat, Pearl millet , Sorghum, Mustard, Lucerne, Fennel, Cumin, Chilli, Potato, Pomegranate, Acid lime, Ber, Guava, Watermelon, Brinjal, Paddy, Sesamum, Clusterbean, Tomato, Sapota, Aonla, Green gram, mango, Drumstick, groundnut, ajwain, oil seed crops, horticulture crops, pulses crops, Mothbean, Fodder crops, Poultry , livestock, farm implements, home science, organic farming, women empowerment, soil health, capacity building, kitchen garden, cattle	Less land holding No use of high yielding and resistant varieties No use of micronutrients Acute shortage of irrigation water Unawareness about pest identification and disease diagnosis Shortage of organic manures Poor quality of manures Imbalance chemical fertilizers application Poor physical characteristic of soils Low availability of green fodder Crop damaged by wild animals Low market price of crop produced Unhealthy raising of vegetables seedling Low productivity of livestocks Not follow post	Integrated Crop Management Integrated Nutrient Management Integrated Pest Management Integrated Disease Management Micro Irrigation System Disease Management in dairy animal Feed Management in dairy animals Dairy Management Breeding management in dairy animals Soil fertility management Nursery Management Fodder Production Production of Organics Inputs Production and Management
2	Mehsana	Baliyasan, Bhakadiya, Bhesana, Bodla, Buttapaldi, Davada, Chitrodipura, Deloli, Dhandusan, Ghada, Jagudan, Kharasada, Maguna, Meu, Piludara, Rupal, Vadosan, Gokalgadh, Gorad, Haripura, Sangalpur, Gilosan,Devinapura, Khara, bhakadiya, Kantharavi, Mevad, Gozariya, kadavsana, Kukas, Vadu			
3	Kadi	Kaiyal, Khavad, Korda, Kundal, Mareda, Nagrasan, Visalpur, Untva,			
4	Vijapur	Dagavadiya, Gerita, Kot, Ransipur, Sankapura, Vajapur, Techava, Dhanpura, Ladol			
5	Satlasana	Kubada, Kuvasada, Gothada, Vasda, Mumanvas,			
6	Bechraji	Adiwada, Pratapnagar, Venpura, Ghambhu,			
7	Vadnagar	Malekpur, Sundhiya, Kamalpur, Sipor, Kahipur,			

8	Kheralu	Chansol, Dedasan, Fatehpura, Malarpura, Vithoda, Varetha, Panchha, Gorisana, Rangpurda,		harvestmanagement Found health weakness in Girls and women Improper Orchard management High cost of cultivation Labour scarcity High cost of animal feeds Unawareness about animal feed management Found storage loss in grain Poor socio economic conditions Lack of skill Unawareness about balance diet in BPL families Indiscriminate use of pesticides Less shelf life of fruits and vegetables Anaemia in adolescent girls and farm women Lack of knowledge about secondary agriculture Use of improved farm implements are not affordable Heavy infestation of nematodes in fruits and vegetable crops Low productivity of major crops Problematic soil Disease infestation due	technology of horticultural crops Value Addition Low Cost High Nutrient Diet Storage loss Minimization Technology Women and Child Care Household Food Security by kitchen garden Farm Mechanization Group Dynamics Entrepreneurship Development Local specific Drudgery Reduction Technology Organic farming Seed production Repair and maintain of farm machineries and implements Varietal evaluation Production of small tools and implements Production of feed and fodder Management of problematic soil Mobilization of social capital Leadership
9	Unjha	Bhunav, Kahoda,Kamli, Karli,			
10	Jotana	Martoli, santhal, Kasalpura, Modipur,			

				to heavy irrigation High mortality rate in calf Indiscriminate use of fungicides Unawareness about seed treatment deficiency of micro nutrients Low fodder yield Improper housing Unawareness about vaccination and deworming Low profitability High cost of fuel Less use of ICT tools Lack of knowledge about market price of product Unawareness about nutri-rich crops	development Vermicompost Use of bio fertilizer Post harvest technology Soil and water testing Soil and water conservation Minimization of nutrient loss in processing Designing and development of low / minimum cost diet WTO and IPR issue Use of plastics in farming practices Group dynamics

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Oilseed crop - Groundnut Cotton,Castor, Sesamum, Mustard	Integrated Crop Management Integrated Nutrient Management Integrated Disease Management Integrated Pest Management Productivity enhancement in field crops Weed management Micro-irrigation system Local specific drudgery reduction technology
Pulse crop - Greengram, Blackgram, chickpea	Integrated Crop Management Integrated Nutrient Management Integrated Disease Management Seed Production Integrated Pest Management Weed management
Fodder Bajra and Sorghum	Integrated Crop Management Integrated Nutrient Management
Potato, Chilli and Tomato	Integrated Disease Management Integrated Pest Management Integrated Crop Management Integrated Nutrient Management Value Addition Nursery Raising Production of low volume and high value crops Cultivation of fruits Micro-irrigation system
Wheat	Integrated Crop Management Integrated Nutrient Management Integrated Pest Management Seed production
Spice crops - Fennel, Fenugreek, Ajwain, Cumin	Integrated Nutrient Management Integrated Disease Management Integrated Pest Management

	Micro Irrigation System Processing and Value Addition Production and Management Technology Post Harvest Technology Local specific druggery reduction technology
Acid Lime, Drumstick, Watermelon and Guava, Aonla	Production and Management Technology Micro Nutrient Application Integrated Disease Management Integrated Pest Management Value Addition Micro Irrigation System Rejuvenation of old orchard Integrated farming system Soil and water conservation Use of plastic in farming practices Post Harvest Technology
Kitchen Garden	House hold Food Security by kitchen gardening and nutritional gardening
Farm Implements	Local Specific Drudgery Reduction Technology Farm Mechanization Production of small tools and implements Repair and maintenance of farm machinery and implements Installation and maintenance of MIS Post-harvest technology
Cattle	Dairy Management Feed Management Disease Management Animal nutrition management Production of livestock feed and fodder Dairying Management in farm animals
Soil Health	Production of Organic Inputs Soil Fertility Management Management of problematic soil Soil and water testing Soil and water conservation

Women Empowerment & Home Science	Income Generation Activities for empowerment of rural women Storage loss minimization techniques Women and child care Value Addition Design and development of low/minimum cost diet Location specific drudgery reduction technologies Design and development for high nutrient efficiency diet
Capacity Building	Group Dynamics Entrepreneurial development of farmers/youths Mobilization of social capital Leadership development Formation and management of SHGs WTO and IPR issue
Natural Farming	Vermi Compost production Production of bio-control agents and bio-pesticides Organic manure production Bio-fertilizer production Production of organic inputs Resource conservation technologies PrakrutikKheti

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 (ha)		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
6	8	60	71	75	95.5	417	545

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
105	116	2415	3806	286	2454	4541	15135

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
76	45.56	41500	451

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	-	2000	3461

3.1. B. Operational areas details during 2022

Sr.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Blackgram	False sowing method Injudicious use of fertilizers No use of bio-fertilizers as well as micronutrients Lack of knowledge about pests and diseases identification and management False method and inadequate dose of weedicides and pesticides use High cost of cultivation No use of high yielding and resistence variety Poor socio-economic condition Lack of skill	2000 ha	Mehsana district	OFT, FLD, Training and extension activity
2	Chickpea		450 ha	Mehsana district	FLD, Training and extension activity
3	Greengram		500 ha	Mehsana district	Training and extension activity
4	Castor	Don't use recommended agronomical practices No use of high yielding and resistence variety Injudicious use of fertilizers No use of bio-fertilizers and micronutrients as well as bio pesticides. Unawareness about plant protection measures High cost of cultivation Poor socio-economic condition Lack of skill Improper sowing method	72000 ha	Mehsana district	FLD, Training and extension activity
5	Mustard		17000 ha	Mehsana district	FLD, Training and extension activity
6	Groundnut		7000 ha	Mehsana district	FLD, Training and extension activity
7	Sesamum		500 ha	Mehsana district	Training and extension activity
8	Wheat	Use old variety Unawareness about termite managemen False method of seed treatment Injudicious use of fertilizer	60000 ha	Mehsana district	OFT, FLD, Extension activity, Training
9	Chilli	Low yield Unawareness about bio-pesticides Use local variety	1500 ha	Mehsana district	Extension activity, Training
10	Fennel	Low yield use old variety No use of bio-pesticides Unawareness about pest	4000 ha	Mehsana district	FLD, Extension activity, Training
11	Cumin	High incidence of blight False method and inadequate dose of pesticides	1500 ha	Mehsana district	OFT, FLD, Extension activity, Training
12	Cotton	Low yield Indiscriminate use of pesticides Unawareness about pest and disease management	45000 ha	Mehsana district	OFT, FLD, Extension activity, Training

		False sowing method High incidence of pink ball worm Use local variety			
13	Watermelon	Low yield, low market price, high evopration rate, deep ground water tabel, poor quality of water	250 ha	Mehsana district	OFT, Training and extension activities
14	Fruits crops	Low yield Unawareness about pest and disease management Improper orchard management Heavy infestation of nematode Not follow postharvest management Lack of skill High cost of cultivation Deficiency of micro-nutrient Low market price High evaporation rate of soil moisture Deep ground water level Poor quality of water	15000 ha	Mehsana district	Training, FLD
15	Spice crops	Low yield Unawareness about pest and disease management Heavy infestation of nematode Not follow postharvest management Lack of skill High cost of cultivation Deficiency of micro-nutrient Low market price Use local variety	10000 ha	Mehsana district	Training, extension activities
16	Vegetable Crops	Low yield Unawareness about pest and disease management Heavy infestation of nematode Not follow postharvest management Lack of skill High cost of cultivation Deficiency of micro-nutrient Low market price	15000 ha	Mehsana district	Training, extension activities
17	Fodder crops	Low fodder production High cost of animal feed High cost of cultivation Use of local variety	35000 ha	Mehsana district	FLD, Training and extension activity
18	Livestock (Bypass protein)	Low milk production in lactating buffalo	3 lakh no.	Mehsana district	FLD,Training and extension activity
19	Livestock (Fenbendazole)	High incidence of parasitic worm	1 lakh no.	Mehsana district	FLD, Training and extension activity
20	Livestock (Chelated Mineral Mixture)	Low milk production in lactacting buffalo	3 lakh no.	Mehsana district	OFT, FLD, Training and extension activity
21	Livestock (Probiotic)	Low milk production in lactacting buffalo	3 lakh no.	Mehsana district	FLD, Training and extension

					activity
22	Livestock	Low productivity of livestock Poor feed and fodder management Repeat breeding High cost of animal feed Unawareness about vaccination and deworming	4 lakh no.	Mehsana district	Training
23	Wheelhoe	Poor adoption of farm mechanization Labour scarcity	-	Mehsana district	FLD, Training and extension activity
24	Improved sickle	High drudgery More time require Heavy weight of sickle	-	Mehsana district	Training and extension activity
25	Secutter	High drudgery More time require	-	Mehsana district	FLD, Training and extension activity
26	Kitchen garden	Poor house hold food security	-	Mehsana district	FLD, Training and extension activity
27	Home Science	Low market price of crop produce Lack of skill Less self-life of fruits and vegetables Unawareness about balance diet Poor socio-economic condition Un awareness about Nutri rich crop	-	Mehsana district	Training, OFT, FLD and extension acitivities
28	Farm Mechanization	Poor adoption of farm mechanization Labour scarcity Poor Socio-economic condition Low land holding capacity Poor adoption of MIS	-	Mehsana district	Training, FLD, OFT, Method demonstration

* Support with problem-cause and interventions diagram

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

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetable	Fruits	Spice	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation	1		1				1			3
Integrated Pest Management										
Integrated Crop Management										0
Integrated Disease Management										
Small Scale Income Generation Enterprises										0
Weed Management										0
Resource Conservation Technology						1				1
Post harvest technology						1				1
Integrated Farming System										0
Seed / Plant production										0
Value addition						1				1
Drudgery Reduction										0
Storage Technique										0
Mushroom cultivation										0
Total	**1**	**0**	**1**	**0**	**0**	**3**	**1**	**0**	**0**	**6**

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						0
Nutrition Management	1					1
Disease of Management	1					1
Value Addition						0
Production and Management						0
Feed and Fodder						0
Small Scale income generating enterprises						0
TOTAL	**2**	**0**	**0**	**0**	**0**	**2**

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop/ Enterprise	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation	Blackgram	Assessment of new release GU-2 variety	10	10	3
	Wheat	Assessment of new release GW-499 variety	5	5	1.5
	Cumin	Assessment of new release GC-5 variety	10	10	3
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology	Watermelon	20 microns plastic mulch 5550 meter per hector	6	6	1.8
Post harvest technology	Lime	Lime harvester	10	10	-
Integrated Farming System					
Seed / Plant production					
Value addition	Home sciene	Green Mango 1 kg + Sugar 1.5 kg + Citric acid 8 gm + Potassium Metabisulphite 2 gm	10	10	-
Storage Technique					
Total			**51**	**51**	**9.3**

B.2. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management	Buffalo	Use of green fodder, dry fodder, concentrate + mineral mixtures @ 30 gms + copper and cobalt bolus + Deworming of animals	10	10
Disease management	Buffalo	Use of soap permethrin 5% + cetrimide 1% + Aloevera (1%) apply and massage the leather on every part of body and wash after 1 hour	10	10
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total			**20**	**20**

OFT - 1

C1.Results of Technologies Assessed
Results of On Farm Trial (1st year trial)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Blackgram	Rainfed	Low yield of Blackgram	Assessment of new release GU-2 variety	10	Recommendation-GU-2	Yield, BCR	Yield, BCR	36.96 % and 24.37 % more yield over T1 and T3 respectively	High yielding variety	-	-

Contd..

Technology Assessed	Source of Technology	No. of pod per plant	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	19
Local cultivar-GU-1	SDAU, S.K. Nagar	31.0	870	kg/ha	42801	3.16
Recommendation -GU-2	JAU, Junagadh	38.00	1082	kg/ha	58065	3.93
Recommendation-GU-3	NAU, Navsari	30.00	790	kg/ha	37041	2.87

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 new release GU-2 variety
2.	Problem Definition	:	Low yield of Blackgram
3.	Details of technologies selected for assessment	:	T1 :Recommendation -GU-1, T2 :Recommendation-GU-2, T3 : Recommendation -GU-3
4.	Source of technology	:	SDAU, S.K. Nagar, JAU, Junagadh and NAU Navsari
5.	Production system and thematic area	:	Rainfed, Varietal evaluation
6.	Performance of the Technology with performance indicators	:	Yield, BCR, No. of pod per plant
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Increase production
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

OFT - 2

C1.Results of Technologies Assessed

Results of On Farm Trial (1st year trial)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Wheat	Irrigated	Low yield of late sown wheat	Assessment of late sown new release GW-499 variety	5	Recommendation-GW-499	Yield, Test weight, BCR	Yield, Test weight, BCR	12.47 % and 9.38 % more yield over T1 and T2 respectively	High yielding variety	-	-

Contd..

Technology Assessed	Source of Technology	Test weight (gm)	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	19
GW-496	Farmer practices	41.20	4250	kg/ha	100360	3.65
Recommendation -GW-173	SDAU, S.K. Nagar	41.80	4370	kg/ha	104375	3.77
Recommendation-GW-499	SDAU, S.K. Nagar	46.70	4780	kg/ha	118160	4.14

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 new release GW-499 variety
2.	Problem Definition	:	Low yield of late sown wheat
3.	Details of technologies selected for assessment	:	T1 : Local cultivar-GW-496, T2 : Recommendation - GW-173, T3: Recommendation-GW-499
4.	Source of technology	:	Wheat Research Station, Vijapur, SDAU, S.K. Nagar
5.	Production system and thematic area	:	Irrigated, Varietal evaluation
6.	Performance of the Technology with performance indicators	:	Yield, Test weight, 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 trial
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction		Group meeting and field visit

OFT - 3

C1.Results of Technologies Assessed

Results of On Farm Trial (1st year trial)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cumin	Irrigated	Low yield of cumin	Assessment of new release GC-5 variety	10	Recommendation-GC-5	Yield, BCR	Yield, BCR	13.56 % and 9.84 % more yield over T1 and T2 respectively	High yielding variety	-	-

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
Local cultivar	Farmer practices	590	kg/ha	88159	3.95
Recommendation-GC-4	SDAU, S.K. Nagar	610	kg/ha	92159	4.09
Recommendation-GC-5	SDAU, S.K. Nagar	670	kg/ha	104159	4.49

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 new release GC-5 variety
2.	Problem Definition	:	Low yield of cumin
3.	Details of technologies selected for assessment	:	T1 : Local cultivar, T2 : Recommendation-GC-4, T3: Recommendation-GC-5
4.	Source of technology	:	Seed Spices Research Station, Jagudan, SDAU, S.K. Nagar
5.	Production system and thematic area	:	Irrigated, Varietal evaluation
6.	Performance of the Technology with performance indicators	:	Yield, 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 trial
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction		Group meeting and field visit

OFT -4

C1.Results of Technologies Assessed

Results of On Farm Trial (3rd year)

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	-	Anestrus in lactactingbuffallos	Assessment of mineral and deworming effect on anestrus condition in lactacting buffallos	10	Use of green fodder, dry fodder, concentrate + Chelated mineral mixtures @ 30 gms + copper and cobalt 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	50 and 10 percent increase conception rate over T1 and T2 respectively			

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	2	4
T1 +Chelated mineral mixtures @ 30 gms + copper and cobalt bolus	SDAU, S K nagar	60	7	8
T2 + Deworming of animals	IVRI, Izzatnagar	70	8	8

Three year Pooled

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	16.67	3	4.33
T1 +Chelated mineral mixtures @ 30 gms + copper and cobalt bolus	SDAU, S K nagar	53.33	6.67	7.33
T2 + Deworming of animals	IVRI, Izzatnagar	73.33	8.67	8.67

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 lactacting buffallos
2.	Problem Definition	:	Anestrus in lactactingbuffalloes
3.	Details of technologies selected for assessment	:	Use of green fodder, dry fodder, concentrate + Chelated mineral mixtures @ 30 gms + copper and cobalt bolus + Deworming of animals
4.	Source of technology	:	IVRI, Izzatnagar
5.	Production system and thematic area	:	Animal Nutrition 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	:	Third year result, three years pooled result
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction		Group meeting and field visit

OFT -5

C1.Results of Technologies Assessed

Results of On Farm Trial (1st year)

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	-	Tick infestation leading to reduced milk production	Assessment of ectoparasiticides to control tick infestation in Mehsani buffaloes	10	Use of soap permethrin 5% + cetrimide 1% + Aloevera (1%) apply and massage the leather on every part of body and wash after 1 hour	Milk production, Ectoparasitic Infestation Decrease (%), BCR	Milk production, Ectoparasitic Infestation Decrease (%), BCR	45 and 25 percent decreaseEctoparasitic Infestation rate over T1 and T2 respectively	-	-	-

Contd..

Technology Assessed	Source of Technology	Milk production (Lit/Animal/Day)	Ectoparasitic Infestation Decrease (%)	BCR
13	14	15	16	17
T1: Application of deltamethrin (1.25%) solution @3 ml/lit of water, spray and repeat after 21 days,	Farmer practices	7.90	50.00	1.62
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	IVRI, Izzatnagar	8.30	70.00	1.68
T3: Use of soap permethrin 5% + cetrimide 1% + Aloevera (1%) apply and massage the leather on every part of body and wash after 1 hour	TANUVAS, Chennai	8.90	95.00	1.80

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% + Aloevera (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, 1st year result
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

Results of On Farm Trial (3rd year)

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
Home Science	-	Spoilage of Squash during storage	Assessment of Mango Squash preparation method	10	Green Mango 1 kg + Sugar 1.5 kg + Citric acid 8 gm + Potassium Metabisulphite 2 gm	Durability, Taste, colour	Durability, Taste, colour	As per taste parameter T3 is best but as per durability T2 is best	-	-	-

Contd..

Technology Assessed	Source of Technology	Durability	Taste	colour	BC Ratio
13	14	15	16	17	18
No use of preservative	Farmer practices	14 days	Bitter	Changed	
Green Mango 1 kg + Sugar 450 gm + Sodium Benzoate 1 gm	CISH, Lucknow	280 days	Good	Not changed	
Green Mango 1 kg + Sugar 1.5 kg + Citric acid 8 gm + Potassium Metabisulphiet 2 gm	Deputy Director Horticulture (Canning) Mehsana	252 days	Very good	Not changed	

Three years pooled result

Technology Assessed	Source of Technology	Durability	Taste	colour	BC Ratio
13	14	15	16	17	18
No use of preservative	Farmer practices	14.67 days	Bitter	Changed	
Green Mango 1 kg + Sugar 450 gm + Sodium Benzoate 1 gm	CISH, Lucknow	274.33 days	Good	Not changed	
Green Mango 1 kg + Sugar 1.5 kg + Citric acid 8 gm + Potassium Metabisulphiet 2 gm	Deputy Director Horticulture (Canning) Mehsana	245 days	Very good	Not changed	

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 Mango Squash preparation method
2.	Problem Definition	:	Spoilage of Squash during storage
3.	Details of technologies selected for assessment	:	Green Mango 1 kg + Sugar 1.5 kg + Citric acid 8 gm + Potassium Metabisulphiet 2 gm
4.	Source of technology	:	Deputy Director Horticulture (Canning), Mehsana
5.	Production system and thematic area	:	Value addition
6.	Performance of the Technology with performance indicators	:	Durability, Taste, colour
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Durability increased and very good
8.	Final recommendation for micro level situation	:	Third year trial and pooled result
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction		Group meeting and field visit

OFT -07

C1.Results of Technologies Assessed

Results of On Farm Trial (3rd year)

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
Agricultural engineering	-	low yield of watermelon and high evaporation rate of soil moisture	Assessment of mulching technique in watermelon	6	20 microns plastic mulch 5550 meter/ha	Yield, Irrigation hour, BCR	Yield, Irrigation hour	25.53 and 6.91 % water saving over T1 and T2 respectively 29.31 and 9.29% increase yield over T_1 and T_2 respectively	- Size, Shaping, Sining of the fruits is very good. - Getting higher qualitative yield - Water saving as compared to T_1 and T_2	-	-

Contd..

Technology Assessed	Source of Technology	Drip Irrigation (Hour) (Flow rate 2 lit/hour)	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	19
Without mulch	Farmer practices	235	38200	kg/ha	101201.00	1.60
Organic mulch @ 2.5 ton/ha	SDAU (2009)	188	45200	kg/ha	288246.00	2.76

20 microns plastic mulch 5550 meter/ha	JAU (2015)	175	49400	kg/ha	419405.00	3.41

C1.Results of Technologies Assessed

Results of On Farm Trial (Pooled result)

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
Agricultural Engineering	-	low yield of watermelon and high evaporation rate of soil moisture	Assessment of mulching technique in watermelon	6	20 microns plastic mulch 5550 meter per hector	Yield, Irrigation hour, BCR	Yield, Irrigation hour	23.42 and 6.45 % water saving over T1 and T2 respectively, 28.16 and 8.99% increase yield over T1 and T2 respectively	- Size, Shaping, Sining of the fruits is very good. - Getting higher qualitative yield - Water saving as compared to T_1 and T_2	-	-

Contd..

Technology Assessed	Source of Technology	Drip Irrigation (Hour) (Flow rate 2 lit/hour)	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	19
Without mulch	Farmer practices	233.33	37866.67	kg/ha	86302.50	1.57
Organic mulch @ 2.5 ton/ha	SDAU (2009)	191	44528.33	kg/ha	212195.67	2.30

20 microns plastic mulch 5550 meter/ha	JAU (2015)	178.67	48533.33	kg/ha	317396.17	2.82

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 mulching technique in water melon
2.	Problem Definition	:	Low yield of water melon and high evaporation rate of soil moisture
3.	Details of technologies selected for assessment	:	T1: Without mulch , T2 : Organic mulch , T3: Plastic mulch@20 microns
4.	Source of technology	:	Farmer practices, SDAU(2009), JAU(2015)
5.	Production system and thematic area	:	Resource Conservation Technology
6.	Performance of the Technology with performance indicators	:	Yield (kg/ha), Irrigation hour, BCR
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Increased water saving Size, shape, shining and sugar percentage of fruits is very good Getting higher qualitative fruit yield
8.	Final recommendation for micro level situation	:	3rd year trial and pooled result 23.42 and 6.45 % water saving over T1 and T2 respectively,28.16 and 8.99% increase yield over T1 and T2 respectively
9.	Constraints identified and feedback for research	:	
10.	Process of farmers participation and their reaction		Group meeting, field visit andfield day

OFT -8

C1.Results of Technologies Assessed

Results of On Farm Trial (1st year)

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
Agricultural Engineering	-	Deteriorate quality and low market price of lime fruit	Harvesting of lime fruit through improved lime harvester	10	Lime harvester developed by College of horticulture, Jagudan, SDAU and RTTC, JAU	Dropping percent and harvesting capacity kg/hour	Dropping percent and harvesting capacity kg/hour	Dropping percent reduce 80.06 and 69.55 in T2 and T3 over T1 technology	-	-	-

Contd..

Technology Assessed	Source of Technology	Dropping percent	harvesting capacity kg/hour
13	14	15	16
Bamboo stickwithhook	Farmer practices	100	8.83
Lime harvester developed by RTTC, JAU	JAU, Junagadh	19.94	6.78
Lime harvester developed by College of horticulture,Jagudan, SDAU	SDAU, Jagudan	30.44	6.10

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	:	Harvesting of lime fruit through improved lime harvester
2.	Problem Definition	:	Deteriorate quality and low market price of lime fruit
3.	Details of technologies selected for assessment	:	T1: Bamboo stickwithhook, , T2 : Lime harvester developed by RTTC, JAU, T3: Lime harvester developed by College of horticulture,Jagudan, SDAU
4.	Source of technology	:	Farmer practices, SDAU(2020), JAU(2010)
5.	Production system and thematic area	:	Post harvest technology
6.	Performance of the Technology with performance indicators	:	Dropping percent and harvesting capacity kg/hour
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Reduction in fruit dropping percentage
8.	Final recommendation for micro level situation	:	First year result
9.	Constraints identified and feedback for research	:	-
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	Mustard	Integrated Crop Management	Full package	CFLD	25	700	300
2	Cotton	Integrated Pest Management	Beauveria bassiana, neem oil	FLD	20	400	210
3	Drumstick	Production of low volume and high value	PKM-1	FLD	05	50	-
4	Groundnut	Integrated Crop Management	Full package	CFLD	25	1000	400
5	Blackgram	Integrated Crop Management	Full package	CFLD	25	400	200
6	Chickpea	Integrated Crop Management	Full package	CFLD	20	150	100
7	Organic farming	Organic farming	-	FLD	10	100	50
8	Livestock	Disease management	Fenbendazole	FLD	35	600	-
9	Livestock	Animal nutrition management	By pass protein	FLD	15	350	-
10	Livestock	Animal nutrition management	Probiotic	FLD	15	100	-
11	Livestock	Animal nutrition management	Chelated mineral mixture	FLD	30	650	-
12	Wheat	Varietal evaluation	GW-451	FLD	50	1000	500
13	Fennel	Integrated Pest Management	Beauveria bassiana, neem oil	FLD	20	250	180
14	Castor	Integrated Crop Management	Full package	CFLD	45	900	400
15	Kitchen garden	Household food security by kitchen gardening and nutritional gardening	Seeds and seedling of vegetables	FLD	25	300	-
16	Wheel hoe	Drudgery reduction	Wheel hoe	FLD	25	250	-
17	Secutter	Farm Mechanisation	Secutter	FLD	30	150	-
18	Dibbler	Production of small tools and implements	Dibbler	FLD	10	30	-

B. Details of FLDs implemented during 2022**(Kharif 2022, Rabi 2021-22, Summer 2022)** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Wheat	Varietal evaluation	GW-451	Rabi, 2021-22	10	10	0	40	40	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Wheat	Rabi	Irrigated	Sandy loam	L	M	H	-	-	-	-	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	-

Farmers' reactions on specific technologies

S. No	Feed Back
1	Wheat GW-451
	High yielding variety, Good for chapatti Lodging resistant variety Test weight increased

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks / Place
1	Field days	2	05/03/2022	95	Sankapura, Thalota
2	Farmers Training	1	30/10/2021	40	KVK
3	FLD Field Visit	5	-	65	Sankapura, Thalota

Horticultural 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	Fennel	Integrated Pest Management	Beauveria bassiana, Neem Oil	Rabi 2021-22	10	10	0	25	25	-

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					
Fennel	Rabi	Irrigated	Sandy loam	L	M	H	-	-	-	-	-

Farmers' reactions on specific technologies

S. No	Feed Back
	Fennel -IPM
	Bio-pesticides effectively managed sucking pest Qualitative production

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks / Place
	Fennel - IPM				
1	Field days	1	25-Jan-2022	74	Ralisana
2	Farmers Training	1	26-Oct-2021	28	Ralisana
3	FLD Field Visit	1	17-Dec-2021	12	Sunsi
		1	17-Dec-2021	13	Ralisana
		1	25-Jan-2022	21	Ralisana

Oilseeds

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	Castor	ICM	Full package	Kharif 2021-22	10	10	0	25	25	-
2	Groundnut	ICM	Full package	Kharif 2022	20	20	0	50	50	
3	Mustard	ICM	Full package	Rabi 2021-22	10	10	0	25	25	

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					
Castor	Kharif	Irrigated	Sandy loam	L	M	H	-	-	-		
Groundnut	Kharif	Rainfed	Sandy loam	L	M	H	-	-	-		
Mustard	Rabi	Irrigated	Sandy loam	L	M	H	-	-	-		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	-

Farmers' reactions on specific technologies

S. No	Feed Back
1	**Groundnut - NFSM**
	Application of sulphur increased yield Beauveria bassiana, neem oil, HNPV and SNPVmanage heliothis, spodoptera and sucking pests effectively Soil application of Trichoderma very good managed collar rot disease (80 % reduction)
2.	**Castor**
	Application of sulphur increased yield Beauveria bassiana, neem oil manage spodoptera and sucking pests effectively
3.	**Mustard**
	High yielding variety

	Application of sulphur increased yield Beauveria bassiana, neem oil and sticky trap manage aphid effectively

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks / Place
	Castor-NFSM				
1	Field Day	1	19-Jan-2022	55	Khavad
		1	28-Jan-2022	72	Venpura
2	Training	1	05-Aug-2021	25	KVK
		2	19-Oct-2021	25	Venpura, Khavad
3	Field visit	1	28-Aug-2021	9	Khavad
		1	11-Oct-2021	16	Venpura
		1	19-Oct-2021	16	Venpura
		1	19-Oct-2021	9	Khavad
		1	19-Jan-2022	9	Khavad
		1	28-Jan-2022	16	Venpura
	Groundnut- NFSM				
1	Field Day	1	29-Sep-22	64	Sankapura
		1	21-Oct-22	58	Vasda
2	Training	2	11 & 17-June-2022	54	KVK
		2	12 & 18-Aug-2022	57	Kubada, Sankapura
3	Field visit	9	-	150	Kubada, Vasda, Sankapura
	Mustard- NFSM				
1	Field Day	2	21-Jan-2022	144	Saduthala, Chhathiyarda
2	Training	1	12-Oct-2021	29	KVK
		2	6-Dec-2021	27	Saduthala, Chhathiyarda
3	Field visit	1	16-Nov-2021	13	Saduthla
		1	24-Nov-2021	12	Chhathiyarda
		1	06-Dec-2021	13	Saduthla
		1	06-Dec-2021	12	Chhathiyarda
		1	29-Dec-2021	12	Saduthla
		2	21-Jan-2022	25	Saduthala, Chhathiyarda

Pulses

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	Blackgram	ICM	Full package	Kharif 2022	10	10	0	25	25	-
2	Chickpea	ICM	Full package	Rabi 2021-22	10	10	0	25	25	-

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					
Blackgram	Kharif 2022	Rainfed	Sandy loam	L	M	H	-	-	-	337.12	111
Chickpea	Rabi 2021-22	Irrigated	Sandy loam	L	M	H	-	-	-	-	-

Technical Feedback on the demonstrated technologies
Farmers' reactions on specific technologies

S. No	Feed Back
1	Blackgram
	Variety, GU-1 is good and bold seeded Application of sulphur increased yield Beauveria bassiana and neem oil manage pests effectively
2	Chickpea
	Variety, GJG-5 is good and bold seeded Beauveria bassiana, HNPV, SNPV, Pheromone traps and neem oil manage pod borer effectively

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks / Place
	Blackgram				
1	Field days	1	23-Sep-2022	65	Butapaladi
2	Farmers Training	1	14-Jun-2022	26	KVK
		1	17-Aug-2022	18	Butapaladi
3	FLD Field Visit	5	-	57	Butapaladi, Davada
	Chickpea				
1	Field days	2	11 & 12-Feb-2022	109	Kamalpur, Laxmipura
2	Farmers Training	1	25-Oct-2021	26	KVK
		1	17-Dec-2021	29	Laxmipura and Kamalpur
3	FLD Field Visit	1	27-Nov-2021	10	Kamalpur
		1	27-Nov-2021	15	Laxmipura
		1	17-Dec-2021	10	Kamalpur
		1	17-Dec-2021	15	Laxmipura

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	Cotton	Integrated Pest Management	Beauveria bassiana, Neem Oil, Pheromone trap	Kharif 2022	10	10	0	25	25	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Cotton (IPM)	Kharif 2022	Irrigated	Sandy loam	L	M	H	-	-	-	337.12	111

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	-

Farmers' reactions on specific technologies

S. No	Feed Back
1	Cotton -IPM
	Bio-pesticides effectively manage sucking pest and pink bollwarm (19.68 % reduction in boll damage) Environmentally safety approach

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
	Cotton-IPM				
1	Field days	1	28/09/2022	33	Kahoda
2	Farmers Training	1	01/08/2022	25	KVK
3	FLD Field Visit	1	-	22	Kahoda

Other Crop

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	Fodder Sorghum	Varietal evaluation	CoFS-31	Kharif - 2022	3.5	3.5	0	35	35	-
2	Fodder Sorghum	Varietal evaluation	CSV-33 MF	Kharif -2022	2.0	2.0	0	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					
Fodder Sorghum (CoFS-31)	Kharif- 2022	Irrigated	Sandy loam	L	M	H	-	-	-	337.12	111
Fodder Sorghum (CSV-33 MF)	Kharif- 2022	Irrigated	Sandy loam	L	M	H	-	-	-	337.12	111

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	-

Farmers' reactions on specific technologies

S. No	Feed Back
1	**Fodder Sorghum – CoFS-31**
	Good for green fodder production
2	**Fodder Sorghum – CSV-33 MF**
	Good for green fodder production

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
	Fodder Sorghum , CoFS-31				
1	Field Day	1	16/11/2022	27	Deloli
2	Training	1	17/06/2022	30	Saduthala
3	Field Visit	1	-	2	-
	Fodder Sorghum , CSV-33 MF				
1	Field Day	-	-	-	-
2	Training	1	04/07/2022	26	Gadha
3	Field Visit	1	30/07/2022	3	Gadha

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										
Castor																		
Castor 2021-22	Integrated Crop Management	Castor Seeds GCH-8 : 4 kg,Sulphur- 20 kg, NPK consortia - 1.2 lit, PSB culture-1.25 lit, Azotobactor culture - 1.25 lit, Beauveria bassiana -2.4 kg,Profenophos - 1 lit.	GCH-8	25	10	41.60	28.90	34.50	27.90	23.66	48039	241500	193461	5.03	50046	195300	145254	3.90
Mustard																		
Mustard 2021-22	Integrated Crop Management	Seed GDM-4 - 3.5 kg, Sulphur-40 kg, PSB Culture-1.25 lit, Azotobactor-1.25 lit,Beauveria bassiana-2.5 kg, Neem Oil(10000 PPM)-1.8 lit,Sticky trap-10 nos, Pendimethalin-2.5 lit	GDM-4	25	10	23.60	18.30	20.90	17.20	21.51	27267	133760	106493	4.91	25219	110080	84861	4.36
Groundnut																		
Groundnut 2022	Integrated Crop Management	Sulphur- 20 kg, Trichoderma- 2.5 kg.,HNPV 250 LE,Chlorpyriphos 1 ltr, NPK consortia 1.25 lit, Quinalphos - 2.5 Lit, Beauveria bassiana -2.4 kg, Neem Oil (10000 ppm)-1.8 ltr.	GJG-22	50	20	27.45	18.30	20.80	16.70	24.55	45090	146040	100950	3.24	45634	117810	72176	2.58

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										
Blackgram																		
Blackgram 2022	ICM	Seed GU 1 - 20 kg, Sulphur - 20 kg, Pendimethalin -2.5 lit, NPK consortia - 1.25, Beauveria bassiana - 2.4 k.g, Neem oil (10000 PPM)- 1.8 ltr	GU-1	25	10	11.32	7.49	8.65	7.10	21.83	19653	62280	42627	3.17	19619	49700	30081	2.53
Chickpea																		
Chickpea 2021-22	ICM	Seed GJG 5 - 60 kg, Sulphur-20 kg, NPK Consortia 1.2 lit, HNPV-450 LE, Beauveria bassiana - 2.4 kg, Pheromone trap and Lure	GJG 5	25	10	33.20	20.90	25.1	20.60	21.84	28564	117575	89011	4.12	28844	96450	67606	3.34

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											
					High	Low	Average			Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals																			
Wheat										Test weight (gram)									
Wheat 2021-22	Varietal Evaluation	Seeds of Variety GW-451 : 125 kg.	40	10	49.80	38.90	43.30	36.80	17.66	45.3	43.5	38554	142500	103946	3.7	37781	121200	83419	3.21
Vegetables																			
Spices & condiments																			
Fennel																			
Fennel 2021-22	IPM	Beauveria bassiana - 2.4 kg, Neem Oil -10000 ppm-1.8 lit	25	10	29.0	21.4	24.45	20.95	16.71	-	-	60354	268950	208596	4.46	60720	219975	159255	3.62
Commercial Crops																			
Cotton										Damage boll(%)									
Cotton 2022	Integrated Pest Management	Beauveria bassiana - 2.4 kg, Neem Oil - Neem Oil -10000 ppm-1.8 lit, Pheromone trap - 8	25	10	24.96	18.90	21.63	18.65	15.98	15.10	18.80	52569	173040	120471	3.29	55175	149200	94029	2.70
Fodder Crops																			
Sorghum (F)																			
Fodder Sorghum 2022	Varietal Evaluation	Variety, COFS-31 - 6 kg	35	35	567	468	548	465	17.85	-	-	23585	87680	64095	3.72	23460	74400	50940	3.17
Fodder Sorghum 2022	Varietal Evaluation	Variety, CSV-33 MF - 6 kg	20	20	560	465	539	463	16.41	-	-	23585	86240	62655	3.66	23460	74080	50620	3.16

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										

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		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
Buffalo								Fat (%)									
Livestock 2022	Disease Management	Fenbendazole @ 3 gm/animal/6 months	40	40	9.20	8.30	10.84	-	-	72460	127232	54772	1.76	75634	115568	39934	1.53
Livestock 2022	Animal Nutrition Management	Chelated Mineral mixture - 3 kg	50	50	9.50	8.70	9.20	-	-	75890	127620	51730	1.68	78820	116352	37532	1.48
Livestock 2022	Feed Management	Probiotic - 600 gm	20	20	8.90	8.30	7.23	-	-	77882	112935	35053	1.45	79368	105645	26277	1.33
Livestock 2022	Feed Management	Bypass protein-500 gm	20	20	10.90	9.80	11.22	-	-	77522	149264	71742	1.93	79509	135008	55499	1.70

FLD on Fisheries

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

FLD on Women Empowerment

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

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total
Wheel hoe 2021-22	Fennel	Drudgery Reduction	10	-	Labour saving	6.66	16.25	(-) 59.02	-	-	9.59	9.59	-	2877	-	2877
Dibbler 2022-23	Castor	Farm mechanization	15	-	Labour saving	3.2	5.7	(-)43.86	-	2.5	-	2.5	-	750	-	750
					Germination	95.43	94.40	1.09								
Dibbler 2022-23	Cotton	Farm mechanization	15	-	Labour saving	3.72	6.90	(-) 46.09	-	3.18	-	3.18	-	954	-	954
					Germination	79.72	77.78	2.49								
Secutter 2021-22	Castor	Farm mechanization	30	-	Labour saving	19.37	25.29	(-) 23.41		5.92 harvesting		5.92		1776	-	1776
					Drop capsule	0.8	2.03	59.11	-	-						

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)
Seed and seedlings of vegetables and drumstick plants	Household food security by kitchen gardening	70	50	50	195	-	-	-	-	860	8660	7800	10.07	-	-	-	-

FLD on Demonstration details on crop hybrids

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

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

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

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	1	6	39	45	0	0	0	6	39	45
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	10	248	23	271	5	0	5	253	23	276
Soil & water conservation										
Integrated nutrient management	2	36	29	65	0	0	0	36	29	65
Production of organic inputs	1	43	0	43	6	0	6	49	0	49
Others (pl. specify)										
Total	**14**	**333**	**91**	**424**	**11**	**0**	**11**	**344**	**91**	**435**
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										

Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)										
III Soil Health and Fertility Management										
Soil fertility management	1	14	0	14	1	0	1	15	0	15
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	1	17	0	17	0	0	0	17	0	17
Others (pl specify)										
Total	**2**	**31**	**0**	**31**	**1**	**0**	**1**	**32**	**0**	**32**
IV Livestock Production and										

Management										
Dairy Management	1	3	41	44	0	0	0	3	41	44
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	1	3	30	33	2	2	4	5	32	37
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total	**2**	**6**	**71**	**77**	**2**	**2**	**4**	**8**	**73**	**81**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1	0	61	61	0	0	0	0	61	61
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	4	63	67	0	0	0	4	63	67
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**3**	**4**	**124**	**128**	**0**	**0**	**0**	**4**	**124**	**128**
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems	1	24	0	24	3	0	3	27	0	27
Use of Plastics in farming practices										
Production of small tools and implements	2	43	0	43	0	0	0	43	0	43
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others										
Total	**3**	**67**	**0**	**67**	**3**	**0**	**3**	**70**	**0**	**70**
VII Plant Protection										
Integrated Pest Management										
Integrated Disease Management	1	22	0	22	0	0	0	22	0	22

Bio-control of pests and diseases	1	24	0	24	1	0	1	25	0	25
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**2**	**46**	**0**	**46**	**1**	**0**	**1**	**47**	**0**	**47**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital	2	37	0	37	9	15	24	46	15	61
Entrepreneurial development of										

farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	2	37	0	37	9	15	24	46	15	61
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**28**	**524**	**286**	**810**	**27**	**17**	**44**	**551**	**303**	**854**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	2	80	12	92	0	0	0	80	12	92
Crop Diversification	1	14	0	14	0	0	0	14	0	14
Integrated Farming	1	42	0	42	0	0	0	42	0	42
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	2	64	26	90	0	0	0	64	26	90
Soil & water conservation										
Integrated nutrient management	1	70	0	70	0	0	0	70	0	70
Production of organic inputs										
Others (pl specify)										
Total	**7**	**270**	**38**	**308**	**0**	**0**	**0**	**270**	**38**	**308**
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										

Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	1	7	0	7	0	0	0	7	0	7
Processing and value addition										
Others (pl specify)										
Total (f)	1	7	0	7	0	0	0	7	0	7
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	**1**	**7**	**0**	**7**	**0**	**0**	**0**	**7**	**0**	**7**
III Soil Health and Fertility Management										
Soil fertility management	1	13	1	14	1	0	1	14	1	15
Integrated water management										

Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops	1	35	0	35	0	0	0	35	0	35
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**2**	**48**	**1**	**49**	**1**	**0**	**1**	**49**	**1**	**50**
IV Livestock Production and Management										
Dairy Management	4	45	114	159	0	6	6	45	120	165
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	4	14	76	90	0	0	0	14	76	90
Disease Management	6	33	119	152	0	2	2	33	121	154
Feed & fodder technology Production of quality animal products	5	59	83	142	0	0	0	59	83	142
Others (pl specify)										
Total	**19**	**151**	**392**	**543**	**0**	**8**	**8**	**151**	**400**	**551**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	5	77	82	0	0	0	5	77	82
Design and development of low/minimum cost diet	2	0	39	39	0	7	7	0	46	46
Designing and development for high nutrient efficiency diet	2	0	47	47	0	0	0	0	47	47
Minimization of nutrient loss in processing	1	0	40	40	0	0	0	0	40	40
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	3	0	76	76	0	0	0	0	76	76
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	3	0	88	88	0	0	0	0	88	88
Others (pl specify)										
Total	**13**	**5**	**367**	**372**	**0**	**7**	**7**	**5**	**374**	**379**
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices	1	17	15	32	0	0	0	17	15	32

Production of small tools and implements	2	65	5	70	1	0	1	66	5	71
Repair and maintenance of farm machinery and implements	2	22	52	74	6	4	10	28	56	84
Small scale processing and value addition										
Post Harvest Technology	2	32	18	50	39	0	39	71	18	89
Others (Soil & water conservation)	5	68	55	123	22	5	27	90	60	150
Total	**12**	**204**	**145**	**349**	**68**	**9**	**77**	**272**	**154**	**426**
VII Plant Protection										
Integrated Pest Management	4	129	23	152	3	3	6	132	26	158
Integrated Disease Management	2	48	0	48	0	0	0	48	0	48
Bio-control of pests and diseases	2	56	2	58	0	0	0	56	2	58
Production of bio control agents and bio pesticides	1	25	0	25	0	0	0	25	0	25
Others (pl specify)										
Total	**9**	**258**	**25**	**283**	**3**	**3**	**6**	**261**	**28**	**289**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										

Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development	1	2	18	20	0	0	0	2	18	20
Group dynamics	2	20	0	20	16	25	41	36	25	61
Formation and Management of SHGs	1	102	0	102	0	0	0	102	0	102
Mobilization of social capital										
Entrepreneurial development of farmers/youths	4	119	4	123	0	0	0	119	4	123
WTO and IPR issues										
Others (pl specify)										
Total	**8**	**243**	**22**	**265**	**16**	**25**	**41**	**259**	**47**	**306**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**71**	**1186**	**990**	**2176**	**88**	**52**	**140**	**1274**	**1042**	**2316**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	2	80	12	92	0	0	0	80	12	92
Crop Diversification	1	14	0	14	0	0	0	14	0	14
Integrated Farming	2	48	39	87	0	0	0	48	39	87
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	12	312	49	361	5	0	5	317	49	366
Soil & water conservation										
Integrated nutrient management	3	106	29	135	0	0	0	106	29	135
Production of organic inputs	1	43	0	43	6	0	6	49	0	49
Others (pl specify)										
Total	**21**	**603**	**129**	**732**	**11**	**0**	**11**	**614**	**129**	**743**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										

Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	1	7	0	7	0	0	0	7	0	7
Processing and value addition										
Others (pl specify)										
Total (f)	1	7	0	7	0	0	0	7	0	7
g) Medicinal and Aromatic Plants										

Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	1	7	0	7	0	0	0	7	0	7
III Soil Health and Fertility Management										
Soil fertility management	2	27	1	28	2	0	2	29	1	30
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops	1	35	0	35	0	0	0	35	0	35
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing	1	17	0	17	0	0	0	17	0	17
Others (pl specify)										
Total	**4**	**79**	**1**	**80**	**2**	**0**	**2**	**81**	**1**	**82**
IV Livestock Production and Management										
Dairy Management	5	48	155	203	0	6	6	48	161	209
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	4	14	76	90	0	0	0	14	76	90
Disease Management	7	36	149	185	2	4	6	38	153	191
Feed & fodder technology	5	59	83	142	0	0	0	59	83	142
Production of quality animal products										
Others (pl specify)										
Total	**21**	**157**	**463**	**620**	**2**	**10**	**12**	**159**	**473**	**632**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	5	77	82	0	0	0	5	77	82
Design and development of low/minimum cost diet	2	0	39	39	0	7	7	0	46	46
Designing and development for high nutrient efficiency diet	3	0	108	108	0	0	0	0	108	108
Minimization of nutrient loss in processing	1	0	40	40	0	0	0	0	40	40
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	5	4	139	143	0	0	0	4	139	143
Women empowerment										

Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	3	0	88	88	0	0	0	0	88	88
Others (pl specify)										
Total	**16**	**9**	**491**	**500**	**0**	**7**	**7**	**9**	**498**	**507**
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems	1	24	0	24	3	0	3	27	0	27
Use of Plastics in farming practices	1	17	15	32	0	0	0	17	15	32
Production of small tools and implements	4	108	5	113	1	0	1	109	5	114
Repair and maintenance of farm machinery and implements	2	22	52	74	6	4	10	28	56	84
Small scale processing and value addition										
Post Harvest Technology	2	32	18	50	39	0	39	71	18	89
Others (Soil & water conservation)	5	68	55	123	22	5	27	90	60	150
Total	**15**	**271**	**145**	**416**	**71**	**9**	**80**	**342**	**154**	**496**
VII Plant Protection										
Integrated Pest Management	4	129	23	152	3	3	6	132	26	158
Integrated Disease Management	3	70	0	70	0	0	0	70	0	70
Bio-control of pests and diseases	3	80	2	82	1	0	1	81	2	83
Production of bio control agents and bio pesticides	1	25	0	25	0	0	0	25	0	25
Others (pl specify)										
Total	**11**	**304**	**25**	**329**	**4**	**3**	**7**	**308**	**28**	**336**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										

Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development	1	2	18	20	0	0	0	2	18	20
Group dynamics	2	20	0	20	16	25	41	36	25	61
Formation and Management of SHGs	1	102	0	102	0	0	0	102	0	102
Mobilization of social capital	2	37	0	37	9	15	24	46	15	61
Entrepreneurial development of farmers/youths	4	119	4	123	0	0	0	119	4	123
WTO and IPR issues										
Others (pl specify)										
Total	**10**	**280**	**22**	**302**	**25**	**40**	**65**	**305**	**62**	**367**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**99**	**1710**	**1276**	**2986**	**115**	**69**	**184**	**1825**	**1345**	**3170**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	1	0	20	20	0	0	0	0	20	20
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										

Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	1	0	20	20	0	0	0	0	20	20

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	1	0	20	20	0	0	0	0	20	20
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**1**	**0**	**20**	**20**	**0**	**0**	**0**	**0**	**20**	**20**

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		
		M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	7	251	24	275	23	8	31	274	32	306
Integrated Pest Management	1	17	6	23	2	2	4	19	8	27
Integrated Nutrient management	1	17	6	23	2	2	4	19	8	27
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	1	14	0	14	5	0	5	19	0	19
Women and Child care	2	0	101	101	0	8	8	0	109	109
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	1	30	0	30	0	0	0	30	0	30
Livestock feed and fodder production	2	59	0	59	0	0	0	59	0	59
Household food security										
Any other (Leadership development)	1	39	0	39	0	0	0	39	0	39
TOTAL	**16**	**427**	**137**	**564**	**32**	**20**	**52**	**459**	**157**	**616**

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

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

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		
		M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	**7**	**251**	**24**	**275**	**23**	**8**	**31**	**274**	**32**	**306**
Integrated Pest Management	**1**	**17**	**6**	**23**	**2**	**2**	**4**	**19**	**8**	**27**
Integrated Nutrient management	**1**	**17**	**6**	**23**	**2**	**2**	**4**	**19**	**8**	**27**
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	**1**	**14**	**0**	**14**	**5**	**0**	**5**	**19**	**0**	**19**
Women and Child care	**2**	**0**	**101**	**101**	**0**	**8**	**8**	**0**	**109**	**109**
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	**1**	**30**	**0**	**30**	**0**	**0**	**0**	**30**	**0**	**30**
Livestock feed and fodder production	**2**	**59**	**0**	**59**	**0**	**0**	**0**	**59**	**0**	**59**
Household food security										
Any other (Leadership development)	**1**	**39**	**0**	**39**	**0**	**0**	**0**	**39**	**0**	**39**
TOTAL	**16**	**427**	**137**	**564**	**32**	**20**	**52**	**459**	**157**	**616**

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (CP)	5	160	28	188	20	10	30	180	38	218
Total	**5**	**160**	**28**	**188**	**20**	**10**	**30**	**180**	**38**	**218**
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (all)	8	137	155	292	0	6	6	137	161	298
Total	**8**	**137**	**155**	**292**	**0**	**6**	**6**	**137**	**161**	**298**
Home Science										
Household nutritional security										

Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)	2	0	68	68	0	0	0	68	0	68
Total	**2**	**0**	**68**	**68**	**0**	**0**	**0**	**68**	**0**	**68**
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)	1	14	0	14	5	0	5	19	0	19
Total	**1**	**14**	**0**	**14**	**5**	**0**	**5**	**19**	**0**	**19**
GRAND TOTAL	**16**	**311**	**251**	**562**	**25**	**16**	**41**	**336**	**267**	**603**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition	**1**	**0**	**20**	**20**	**0**	**0**	**0**	**0**	**20**	**20**
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total										

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)	1245	1245	0	1245
Diagnostic visits	23	80	0	80
Field Day	36	1658	1	1659
Group discussions	8	45	5	50
KisanGhosthi	8	619	0	619
Film Show	9	424	1	425
KisanMela	1	279	73	352
Exhibition	1	279	73	352
Scientists' visit to farmers field	23	80	0	80
Plant/animal health camps	2	94	0	94
Ex-trainees Sammelan	2	100	-	100
Farmers' seminar/workshop	13	1219	70	1289
Method Demonstrations	10	241	82	323
Celebration of important days	10	571	0	571
Exposure visits	1	39	0	39
FLD field visit	73	919	4	923
OFT field visit	27	155	0	155
Lecture delivered	89	3168	80	3248
Farmer visit to KVK and farm	82	2887	165	3052
Soil sample analysis	559	401	0	401
Watersample analysis	55	49	0	49
Plantsample analysis	29	29	0	29
Others (pl.specify)				
Total	**2306**	**14581**	**554**	**15135**

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

Details of other extension programmes:

Particulars	Number
Electronic Media (CD./DVD)	5
Extension Literature	5
Newspaper coverage	17
Popular articles	3
Radio Talks	0
TV Talks	0
Animal health camps (Number of animals treated)	94
Social Media (No. of platforms Used) Whats App, Facebook, Youtube, Twitter	4
Others (pl. specify) Youtube video KVK Mehsana	20
Total	**148**

3.6 Online activities during year 2022

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webexetc)	Title of Program	No. of Programmes	No. of Participants/ Views
-	-	-	-	-	-

3. 7. PRODUCTION OF SEED/PLANTING MATERIALS AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the Variety	Name of the hybrid	Quantity of the seed Production(q)	Value (Rs)	Number Farmer
Cereal			-			
	Wheat	GW-451	-	17.52	53334.00	67
	Wheat	GW-496	-	15.33	46116.00	22
	Wheat	GW-499	-	2.50	7650.00	9
Oilseed			-			
	Mustard	GDM-4	-	8.18	70357.92	157
Pulse	Greengram	GM-6	-	1.04	11305.00	30
	Blackgram	GU-1	-	0.99	12495.00	8
Commercial Crop						
Vegetables						
Flower crops						
Spices						
Fodder crop seed						
Fiber crops						
Forest species						
Other		-	-			
Total				**45.56**	**201257.92**	**293**

Production of planting materials by the KVK

Crop	Name of the crop	Name of the Variety	Name of the hybrid	Number	Value (Rs)	Number Farmer
Commercial Crop						
Vegetable seedlings						
Fruits						
Ornamental plants	Ornamental plants	-	-	181	2810	4
Medicinal and Aromatic	Drumstick	PKM-1	-	270	4050	170
Plantation	-	-	-	-	-	-
Spices						
Tuber						
Fodder crop saplling						
Forest species						
Total				451	6860	174

Production of Bio-Products

Bio Product	Name of the Bio Product	Quantity Kg	Value (Rs.)	No. of Farmer
Bio Fertilizers	Jeevamrut	815 ltr	1630	13
Bio Pesticide	-	-	-	-
Bio Fungicide	-	-	-	-
Bio Agent	-	-	-	-
Other	Vermicompost	3461	34810	52
	Vermi worm	372.5	93125	35
	Azolla	36	1800	25
Total		**4684.5**	**131365**	**125**

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

Sr.No	Date of start	Periodicity	Number of copies distributed
1	January, 2010	Yearly (January 2022 – December 2022), 18th volume	1000 copies

B. Literature developed/published

Item	Title	Authors name	Number
Literature			
1	Apna Jillanu Krushi Dham	Shri M .R .Patel, Dr. R A Patel	5000
2	Prakrutik Kheti	Shri B K Patel,Dr. R A Patel	5000
3	Azolla Ek Kudarati Pashu Aahar	Dr.S.M. Soni, Dr.R.A. Patel	2000
4	Nafakarak Pashu Palan Mate Atalu Karo	Dr.S.M. Soni, Dr.R.A. Patel	3000
5	Millet - Nana Danavara Dhanya Pako	Shri B K Patel,Dr. R A Patel	3000
Research Article			
Popular Article			
1	Saragavo ek Laabh anek	Miss. Babita. R.,Dr.R.A. Patel	Krishi Vigyan
2	Sor urjana khetima upyogo	Miss. Babita. R.,Ku Rina R Patel	Khetima Punhprapya urjano strot
3	Karmadani Mulyvardhit banavato	Miss. Babita. R.,Dr. R A Patel	Krishi Vigyan
News paper Coverage/Press Release			
07-Feb-2022	Kherva Krishi Vigyan Kendrana Krushi ijnere Khedutoe tractor kharidi kevi rite karvi netu sanshodhan karyu	Team	Divya Bhaskar
11-Aug-2022	ganpat university ma prakrutik kheti angeni talim yojayi	Team	Nav Samay
22-Sep-2022	Sahi poshan desh roshan antargat mehsana gatak-2 Anganvadiyoma karyakaram yojao	Team	Sandesh
20-Dec-2022	News Paper Coverage- Mehsana news online_ krushi vigyan kendra ganpat universityma dronena upayog vishe jagruti karykram yojayo_20.12.22	Team	Mehsana Online
20-Dec-2022	News paper coverage- divya bhaskar_krishi vigyan kendra ganpat university ma dava chantkav karayo-_20.12.22	Team	Divya Bhaskar
20-Dec-2022	News paper coverage- sandesh_kheduto technology taraf valya, have davano chhantkav dronethi kari shakashe-_20.12.22	Team	Sandesh
20-Dec-2022	Ganpat University ma dronena upayog vishejagruti karyakram yojao_ 20.12.2022_ gujarat news	Team	Gujarati News
13-Jan-2022	Kovidni Vikat Paristhitima Khedutone gher betha KVKna vaigyanikoe kheti ane pasupalanma marg darshan puru padava mobile conferencenu ayojan karyu	Team	Mehsana News Online
12-Feb-2022	Kansarakuima Kathod pakonu vavetar karva charcha karai	Team	Sandesh
26-Apr-2022	Krushi Vigyan Kendra, Ganpat University Khervama Krushi Mela V Prakrutik Krushi Pradarshannu ayojan karayu	Team	Mehsana News Online

26-Apr-2022	Krushi melanu tatha Prakrutik Krushina 20 pradarshan	Team	Jan Shakshi Disha
26-Apr-2022	Ganpat Universityma yojayo anokho krushi melo, judi judi yojnaoni mahiti apai	Team	Sandesh
27-Apr-2022	Ganpat University sthit krushi vigyan kendrama prakrutik krushi pradarshan yojayu	Team	Nav Bharat Samay
28-Apr-2022	krishi bigyan kendra, ganpat university khervama krushi mela v prakrutik krushi pradarshannu ayojan karayu	Team	Jan Stuti
29-Apr-2022	Khervama Krushi Melo Temaj Prakrutik Pradarshan Yojayu	Team	Sandesh
01-Jun-2022	Krishi Vigyan Kendra Ganpat University khervama garib kalyan samelan nu ajojan karayu	Team	E-Paper Online
01-Jun-2022	Mehsana kherva krishi vigyan kendra khate aje khedutone prakrutik kheti ange mahiti apai	Team	E-Paper Online
News Channel			
11-Feb-2022	Khedutoe Kai Khetima kya tractorno upyog karvo joie	Mr. R A Kachhadia	ETV Bharat
10-Feb-2022	Tractor ni Kharidima Mapdandone Dhayane leta khedutone thai sake che labh	Mr. R A Kachhadia	DD News
TOTAL	Publication : 27		

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	YouTube video	Weather Forecasting Media coverage	1
2	YouTube video	Gayoma Lumpi Skin thay to Pasunu Dudh Pivu Joie ke Nahi	1
3	YouTube video	Scientific Cultivation of Castor Part-1	1
4	YouTube video	Lumpi Virus Vise Sampurna Jankari	1
5	YouTube video	Kitchen Garden	1
6	YouTube video	Cotton Pink Ball Worm	1
7	YouTube video	Azolla	1
8	YouTube video	Chomasani Rutuma Pashuoni Sarsambhan	1
9	YouTube video	Information about Lumpy Virus	1
10	YouTube video	Sucking Pesting Cotton	1
11	YouTube video	Castor Army Worm	1
12	YouTube video	Scientific Cultivation of Mustard	1
13	YouTube video	Scientific Cultivation of Wheat	1
14	YouTube video	Fertilizer and Irrigation in Mustard	1
15	YouTube video	Control of Sucking Pest in Mustard	1
16	YouTube video	Foot and Mouth Disease in animal	1

17	YouTube video	Drumstick benefits	1
18	YouTube video	Achievement of KVK Mehsana	1
19	YouTube video	Sowing of Millets at KVK crop cafeteria	1
20	YouTube video	Scientific Cultivation of Bajara	1

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	KVKMehsana	975
2	Facebook page/ Account	KVKMehsana	1587
3	Mobile Apps	-	-
4	WhatsApp groups	Group -26	665
5	Twitter Account	@KVKMEHSANA1	178
6	Any other (Pl. Specify)		

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

Success Stories / Case Studies

Success Story -1	**CFLD -Oilseed Castor - 2021-22**
	Patel Vijaykumar Ajitbhai
Success Story -2	**CFLD -Oilseed Mustard - 2021-22**
	Bahelim Munasabkhan Ibrahimkhan
Success Story -3	**CFLD Pulses - Chickpea - 2021-22**
	Patel Shaileshbhai Bhikhabhai
Success Story -4	**CFLD Pulses - Blackgram – 2022-23**
	Patel Babubhai Ramdas
Success Story -5	**CFLD -Oilseed Groundnut - 2022-23**
	Patel Dineshkumar Amrutlal
Success Story -6	**Scientific dairy farming- A Profitable business**
	Patel Jagrutiben Manojbhai
Success Story -7	**Women empowerment through value addition**
	Patel Vaibhishaben Anilkumar
Success Story -8	**Mulching technology in Watermelon Production**
	Shree Hindrabhai Joitaram patel
	Success stories on Natural Farming
Success Story -9	Patel Atulbhai Parshottambhai
Success Story -10	Chaudhary Geetaben Savjibhai
Success Story -11	Patel Karshanbhai Prahaladbhai
Success Story -12	Behelim Munsabkhan Ibrahimkhan
Success Story -13	**Case study on**
	Impact of *pm mann ki baat* -
	On farmers producer organisations (FPO)

Success story - 1 : CFLD -Oilseed Castor - 2021-22

Name of KVK	Mehsana
Crop and Variety	**Castor , GCH-8, Season :Kharif**
Name of farmer & Address	**Patel Vijaykumar Ajitbhai** Village - Khavad, Ta - Kadi, Dist-Mehsana M.No. : 6353670439
Details of technology demonstrated	Castor Seeds GCH-8 : 4 kg,Sulphur- 20 kg, NPK consortia - 1.2 lit, PSB culture- 1.25 lit, Azotobactor culture - 1.25 lit, Beauveria bassiana -2.4 kg, Profenophos - 1 lit.
Institutional Involvement	Two times farmers meeting were conducted to analyze the technological gap and to get information on soil, water and other conditions. Farmers training were conducted before conducting demonstration. Various follow-ups programme like Field visit, diagnosis service, world soil day telephonic guidance were provided to farmers Field day was conducted on farmer's field just before harvesting and got feedback from farmers.
Success Point	GCH-8 variety of Castor is bold seeded, recommended by SDAU, Dantiwada for Gujarat. Market value of this variety also found high Use of sulphur improved quality of seeds & increase yield Effective management of pest and disease with eco-friendly approach
Farmer Feedback	Variety GCH-8 is high yielding Beauveria bassiana and neem oil manage pests

Yield (q/ha)

Demonstration	: 41.60
Potential yield of variety/technology	: 36.80
District average	: 24.56
State average	: 25.41

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

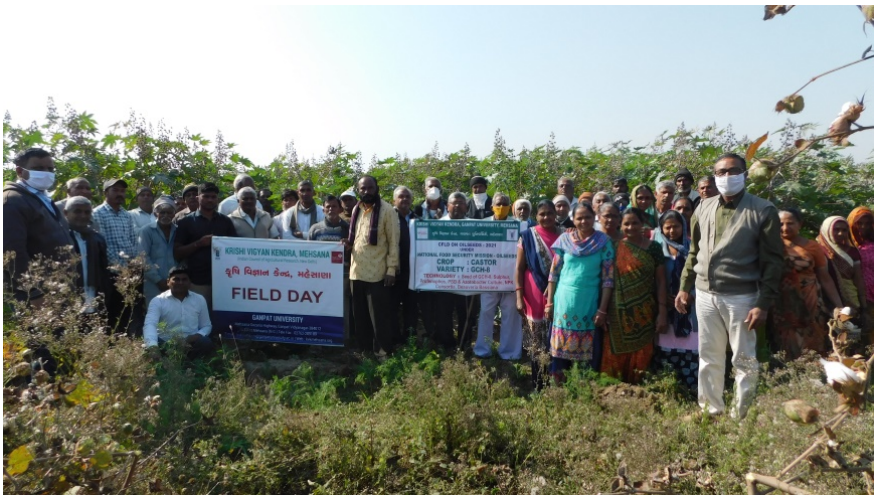
Practice used	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	27.90	50046	195300	145254	3.90
Demonstration	41.60	48039	291200	243161	6.06
% Increase	49.10	(-)4.01	49.10	67.40	-

Description of the results: As per performance of improved technology found that 49.10 % increase in yield and got net returns 243161 Rs./ha. Farmer got 67.40 % more Net profit over local. Fertilizer applied as per Soil Health Card (SHC) so, reduction in cost of chemical fertilizer. Farmer used bio-fertilizer and sulphur so, they got good germination, more yield and improved luster of grains. Farmer also used bio-pesticides so he got good management of pests and disease as well as eco-friendly approach.

Photographs

Field visit

Off campus training program



Field day

Success story - 2 : CFLD -Oilseed Mustard - 2021-22

Name of KVK	Mehsana
Crop and Variety	**Mustard , GDM - 4, Season : Rabi**
Name of farmer & Address	**Bahelim Munasabkhan Ibrahimkhan** Village - Chhathiyara, Ta- Mehsana, Dist- Mehsana, Mobile No. 6355165862
Details of technology demonstrated	GDM – 4 variety @ 3.5 kg seed / ha was demonstrated Correction of deficiency of Sulphur by application of Sulphur 40 kg / ha at sowing time Weed control measures by pre – emergence application of Pendimethalin 2.5 lit / ha Monitoring and control of sucking pest by the use of Yellow Sticky trap 10 nos and spray of Beauveria bassiana 40gm, Neem oil 30 ml /10 liter water
Institutional Involvement	o Two times farmers meeting were conducted to analyze the technological gap and to get information on soil, water and other conditions. o Farmers training were conducted before conducting demonstration. o Various follow-ups programme like Field visit, diagnosis service, world soil day telephonic guidance were provided to farmers o Field day was conducted on farmer's field just before harvesting of Mustard and got feedback from farmers.
Success Point	o GDM-4 variety of Mustard is bold seeded, recommended by SDAU, Dantiwada for Gujarat. o Market value of this variety also found high. o Use of pendimethalin 2.5 lit / ha reduce weed infestation upto 40 days o Installation of yellow sticky trap at the time of flowering and spray of Beauveria bassiana 40gm/10 litre water helps to control of aphids o Variety GDM-4 is high yielding
Farmer Feedback	o Grains is bold and dark black in colour o Yellow sticky trap and Beauveria bassiana manage aphids effectively

Yield (q/ha)

Demonstration	23.60
Potential yield of variety/technology	30.00
District average	16.98
State average	18.08

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

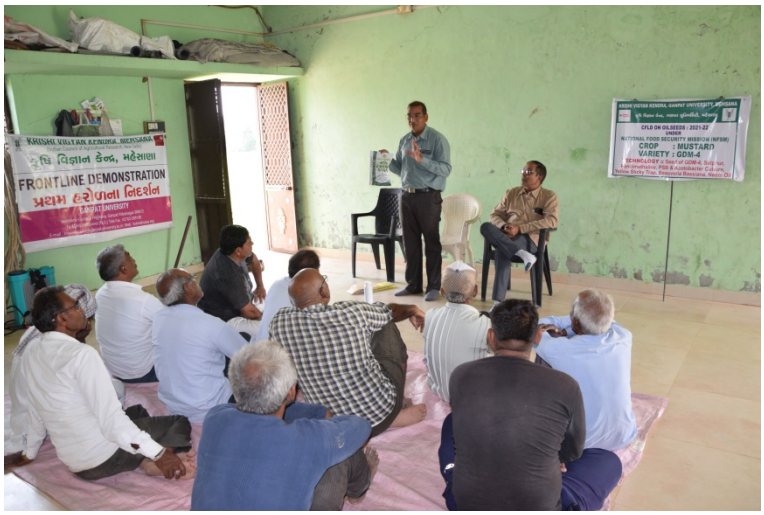
Practice used	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	17.20	25219	110080	84862	4.37
Demonstration	23.60	27267	151040	123773	5.54
% Increase	37.21	8.12	37.21	46.54	-

Description of the results: As per performance of improved technology found that 37.21 % increase in yield and got net returns 123773 Rs./ha. Farmer got 46.54 % more Net profit over local. Fertilizer applied as per Soil Health Card (SHC) so, reduction in cost of chemical fertilizer. Farmer used biofertilizer and

sulphur so, they got good germination, more yield and improved luster of grains. Farmer also used biopesticides so he got good management of pests and disease as well as eco-friendly approach

Photographs

Field Visit



Off campus training and technology dissemination

Field day on Mustard

Success story -3 : CFLD Pulses - Chickpea - 2021-22

Name of KVK Mehsana

Crop and Variety Chickpea, GJG-5 **Season : Rabi**

Name of farmer & Address **Patel Shaileshbhai Bhikhabhai**

Village - Laxmipura, Ta- Visnagar,
Dist- Mehsana,
Mobile No. 8141948215

Details of technology demonstrated Seed GJG 5 - 60 kg, Sulphur-20 kg, NPK Consortia 1.2 lit, HNPV-450 LE, Beauveria bassiana - 2.4 kg, Pheromone trap and Lure

Institutional Involvement

- Two times farmers meeting were conducted to analyze the technological gap and to get information on soil, water and other conditions.
- Farmers training were conducted before conducting demonstration.
- Various follow-ups programme like Field visit, diagnosis service, telephonic guidance were provided to farmers
- Field day was conducted on farmer's field just before harvesting of chickpea and got feedback from farmers.

Success Point

- GJG-5 variety of chickpea is bold seeded, recommended by JAU, Junagadh for Gujarat.
- Market value of this variety also found high.
- Use of HNPV 450 LE, Pheromone trap, Beauveria bassiana, Neem oil (10000ppm) for management of pod borer- heliothis

Farmer Feedback

- Variety GJG-5 is high yielding
- Grains lustre is good
- HNPV, Pheromone trap, Beauveria bassiana, Neem oil (10000ppm) manage pod borer effectively

Yield (q/ha)

Demonstration	: 33.20
Potential yield of variety/technology	: 33.92
District average	: 12.85
State average	: 12.85

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	20.60	28844	96450	67606	3.34
Demonstration	33.20	28564	153950	125386	5.39
% Increase	61.17	(-)0.97	59.62	85.47	-

Description of the results: As per performance of improved technology found that 61.17 % increase in yield and got net returns 125386 Rs./ha. Farmer got 85.47 % more Net profit over local. Fertilizer applied as per Soil Health Card (SHC) so, reduction in cost of chemical fertilizer. Farmer used bio-fertilizer and sulphur so, they got good germination, more yield and improved luster of grains. Farmer also used bio-pesticides so he got good management of pests and disease as well as eco-friendly approach

Photographs

FLD Field visit

Field day

Off campus Meeting

Success story -4 : CFLD Pulses - Blackgram – 2022-23

Name of KVK Mehsana

Crop and Variety **Blackgram, GU-1 Season : Kharif**

Name of farmer & Address **Patel Babubhai Ramdas**
Village - Buttapaldi, Ta- Mehsana,
Dist- Mehsana, Mobile No. 9428757058

Details of technology demonstrated Seed GU 1 - 20 kg, Sulphur - 20 kg, Pendimethalin -2.5 lit, NPK consortia - 1.25 lit., Beauveria bassiana - 2.4 k.g, Neem oil (10000 PPM)- 1.8 ltr

Institutional Involvement

- Two times farmers meeting were conducted to analyze the technological gap and to get information on soil, water and other conditions.
- Farmers training were conducted before conducting demonstration.
- Various follow-ups programme like Field visit, diagnosis service, telephonic guidance were provided to farmers
- Field day was conducted on farmer's field just before harvesting of chickpea and got feedback from farmers.

Success Point

- GU-1 variety of Blackgram is bold seeded, recommended by SDAU, Dantiwada for Gujarat.
- Market value of this variety also found high.
- Use of Beauveria bassiana for management of pests

Farmer Feedback

- Variety GU-1 is high yielding
- Grains lustre is good
- Beauveria bassiana, manage pests effectively

Yield (q/ha)

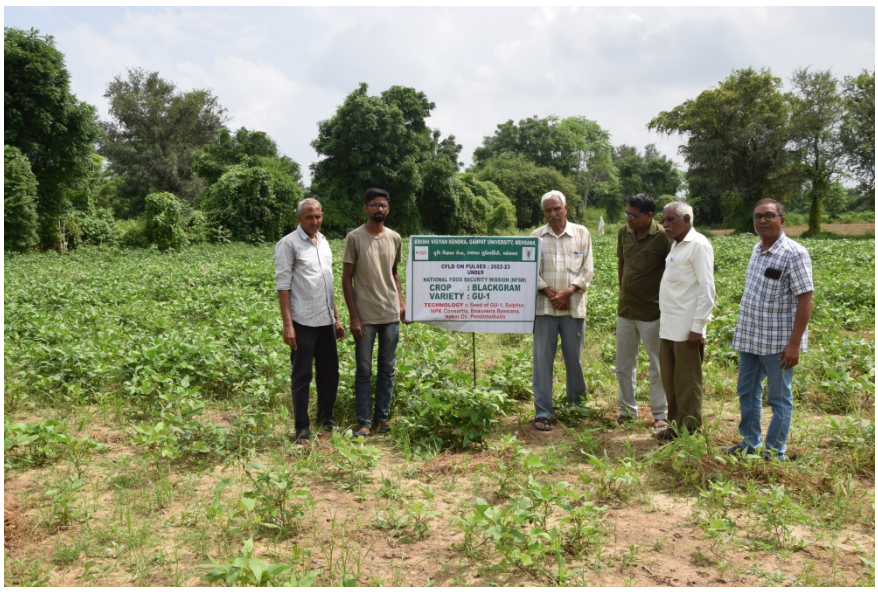
Demonstration	: 11.32
Potential yield of variety/technology	: 20.0
District average	: 7.0
State average	: 6.53

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

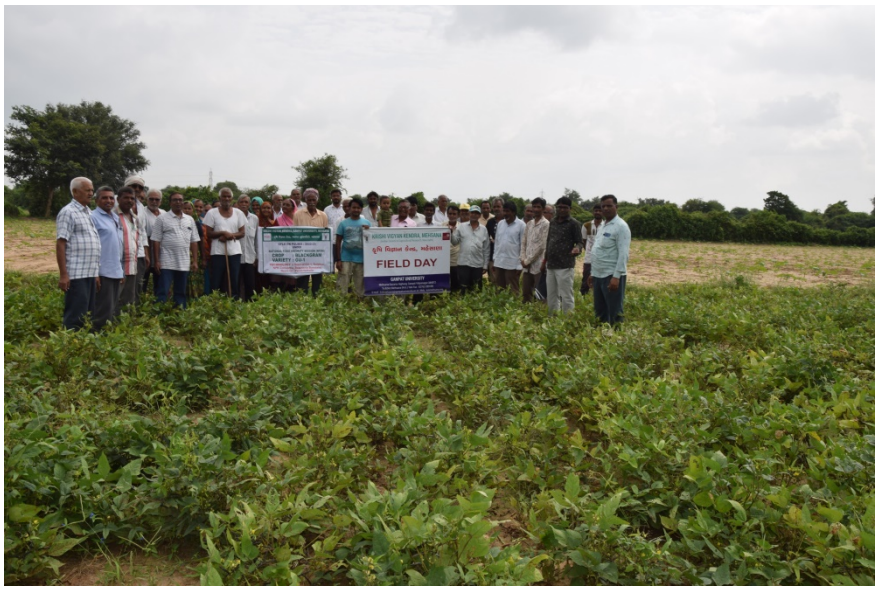
Practice used	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	7.1	19619	49700	30081	2.53
Demonstration	11.32	19653	81504	61851	4.15
% Increase	59.44	0.17	63.99	105.61	

Description of the results: As per performance of improved technology found that 59.44 % increase in yield and got net returns 61851 Rs./ha. Farmer got 105.61 % more Net profit over local. Fertilizer applied as per Soil Health Card (SHC) so, reduction in cost of chemical fertilizer. Farmer used bio-fertilizer and sulphur so, they got good germination, more yield and improved luster of grains. Farmer also used bio-pesticides so he got good management of pests as well as eco-friendly approach

Photographs



FLD Field visit



Field day

Off campus Meeting

Success story - 5 :CFLD -Oilseed Groundnut - 2022-23

Name of KVK	Mehsana
Crop and Variety	**Groundnut, GJG-22, Season : Kharif**
Name of farmer & Address	**Patel Dineshkumar Amrutlal** Village - Sankapura, Ta -Vijapur, Dist-Mehsana M.No. : 9727096209
Details of technology demonstrated	Sulphur- 20 kg, Trichoderma-5kg., NPK consortia 1.25 lit, Chlorpyriphos - 2.5 Lit, Beauveria bassiana -4.8 kg.
Institutional Involvement	o Training o Dissemination of technology o Method demonstration o Continuous field visit o Organize field days
Success Point	o Higher yield o Improved quality of grains o Effectively manage of pests as well as diseases with eco-friendly approach
Farmer Feedback	o Suitability to their farming system : Yes (Good) o Likings (Preference) : Good o Affordability : Good o Is Technology Acceptable to all in the group/Village : Yes o Yield performance : Very Good

Yield (q/ha)

Demonstration	: 27.45
Potential yield of variety/technology	: 27.26
District average	: 21.26
State average	: 24.40

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	16.70	45634	117810	72176	2.58
Demonstration	27.45	45090	187935	142845	4.17
% Increase	64.37	(-)1.19	59.52	97.91	

Description of the results: As per performance of improved technology found that 64.37 % increase in yield and got net returns 142845 Rs./ha. Farmer got 97.91 % more Net profit over local. Fertilizer applied as per Soil Health Card (SHC) so, reduction in cost of chemical fertilizer. Farmer used bio-fertilizer and sulphur so, they got good germination, more yield and improved luster of grains. Farmer also used bio-pesticides so he got good management of pests and disease as well as eco-friendly approach.

Photographs

Field visit

Off campus training program

Field day

Success story - 6 : Scientific dairy farming- AProfitable business

Name	:	**Patel Jagrutiben Manojbhai**
Address	:	At and Post: Ghaghret, Ta. Visnagar, Dist: Mehsana
Pincode	:	384315
Mobile no.	:	9624384678
Age	:	42 year
Education	:	10 pass
Size of land holding	:	0.36 ha

Situation analysis / Problem statement : Jagrutiben Manojbhai Patel residing at village Ghaghret which is 27 km away from KVK Mehsana. She is 42 years old and studied upto 10th standard. She is in business of animal husbandry since 15 years started with two buffaloes. Her family members depend on agriculture and animal husbandry. She has not proper knowledge about feeding, breeding and vaccination so she was not fully satisfied with earning from her business.

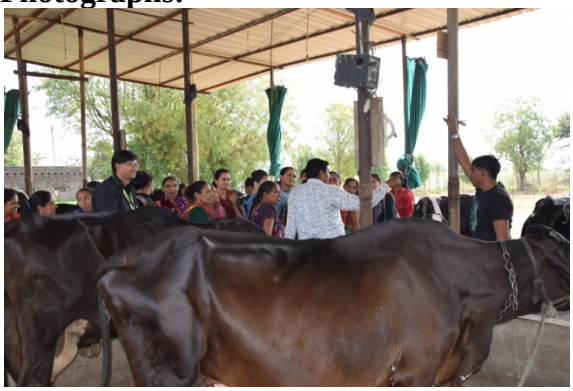
Plan, Implement and Support : She comes in contact with KVK Mehsana before three years. She attended various training programmes at KVK. KVK expert gave him detailed information regarding scientific dairy farming in the training at KVK. She requested the KVK scientist to visit her farm.

Output: After attending various training programme on scientific dairy farming at KVK she decided to introduce HF cows in his farm and till date she has 20 HF cows and one buffalo. We had frequently visited her farm and gave her valuable suggestion to improve dairy farming and motivate for purchasing chaff cutter and milking machine. She purchased chaff cutter and started routine use of chaffing of green and dry fodder. She also purchased milking machine and started milking of animals with milking machine regularly. She also renovates her cattle farm with scientific design. She also used chelated mineral mixture and deworming agent in cows to improve health.

Outcome: After attending varous training programme at KVK she got good profit in her dairy business by overcoming the problems. In current year- 2022, total 63428 liter milk production from HF Cows. She got total Rs. 9, 20,000 profits from dairy business.

Impact : Seeing their success many farmers and farmwomen of nearby villages visit her cattle farm and are now coming forward to start dairy farming. She has created awareness among the farming community about scientific dairy farming.

Photographs:



Cattle farm visit

Demostration of milking machine

Success story - 7 : Women empowerment through value addition

Name	:	Patel Vaibhishaben Anilkumar (Group leader)
Address	:	Village: Jagudan, Tal. & Dist. : Mehsana
Pincode	:	382710
Mobile no.	:	9737853606
Age	:	38
Education	:	11th pass
Size of land holding	:	1.2 ha

Situation analysis / Problem statement: Shakti Mahila Gruh Udhyog group located Jagudan village in 5 kms away fromKrishi Vigyan Kendra, Mehsana.All farm women dependent on agriculture and animal husbandry.

Plan, Implement and Support: The women approached KVK Mehsana and explained about the economic condition. KVK scientist analysed their problem and available resources with them. KVK Mehsana played an imperative role in motivation and capacity building of the rural women. KVK organized vocational training programme on "Khakhara preparation" May, 2022. Total 20 farm women were participated in vocational training programme.

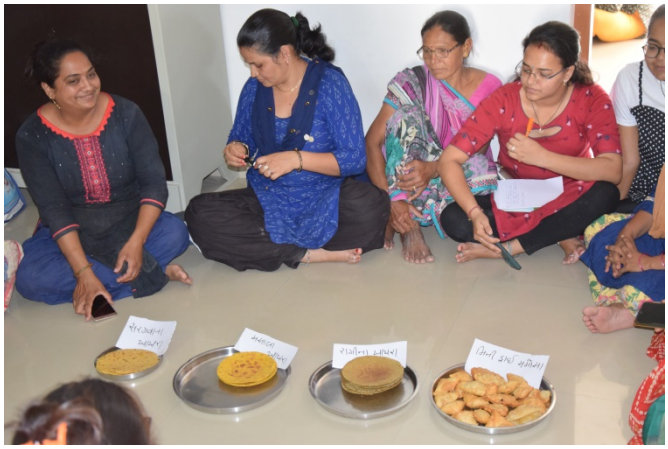
Output: After completion of training total 5 women of SHG started Khakhara making with the strenuous efforts of women, they formed SHG named "Shakti Mahila Gruh Udhyog". After initial succeed, they expanded it with more products i.e. farsan, aonla laddu, candy, papad, gathiya, sev and seasonal pickles as per demand of nearby villages. From this business SHG earned Rs.64,000/- in the year 2022.

Outcome: After vocational training they displayed their products in agriculture fare and other programme of KVK Mehsana. During making products all women take full care of cleanliness and make all products healthy and nutritious.

Impact: Other women of the village are also aware and looking for way to increase their income. These women are happy with this group based income generating activity and become an ideal example for other women of nearby areas.

Photographs:

Training on value addition



Training on value addition

Success story - 8 :Mulching technology for Watermelon Production

Name	:	**Patel Hindrabhai Joitaram**
Address	:	Village: Ranshipur, Tal. : Vijapur Dist. : Mehsana
Pincode	:	382870
Mobile no.	:	9727804440
Age	:	45
Education	:	Diploma Electrical Engineer
Size of land holding	:	5 ha

He participated in training programme on "Use of plastic mulch film practices on watermelon crop" at Ranshipur in the year 2022. He was fully convinced to start cultivation of watermelon with adoption of drip irrigation and plastic mulch film. First year, he produced 49.7 tonnes watermelon and his production getting higher price due to better size, shape, shining and also sugar percentage of watermelon. He also sell fruit in retail rate on his own farm through social media and direct selling to consumer near by city and society area.

Details of technology	:	Silver-black 20 micron plastic mulch film
Institutional involvement	:	Due to hot and dry climatic condition, high temperature and evaporation occur during summer season and also farmers face a problem of deep Ground water table and poor quality of water for irrigation purpose. On View of that farmers training were conducted before conducting on Farm Trial. Two meeting were conducted to analyse the technology gap and to get information on soil, water and other conditions. Information provided to farmers through various follow-ups extension activity programme like field visit, diagnosis service, whatts app group, telephonic guidance were provided to farmers.
Success point	:	No issue of weed control also save herbicides cost as well spraying labour cost. Reduce irrigation hour also save irrigation water cost. Effective pest management also save pesticides cost as well spraying labour cost. Getting higher price of fruits through proper Marketing on social media.
Farmer Feedback	:	Size, shape, shining and sugar persentage of fruits is very good Getting higher qualitative fruit yield Silver-black plastic mulch film, yellow sticky trap, neem oil, pheromone trap manage pest control effectively.

Performance of technology vis-a-vis Local check (increase in productivity and returns) :

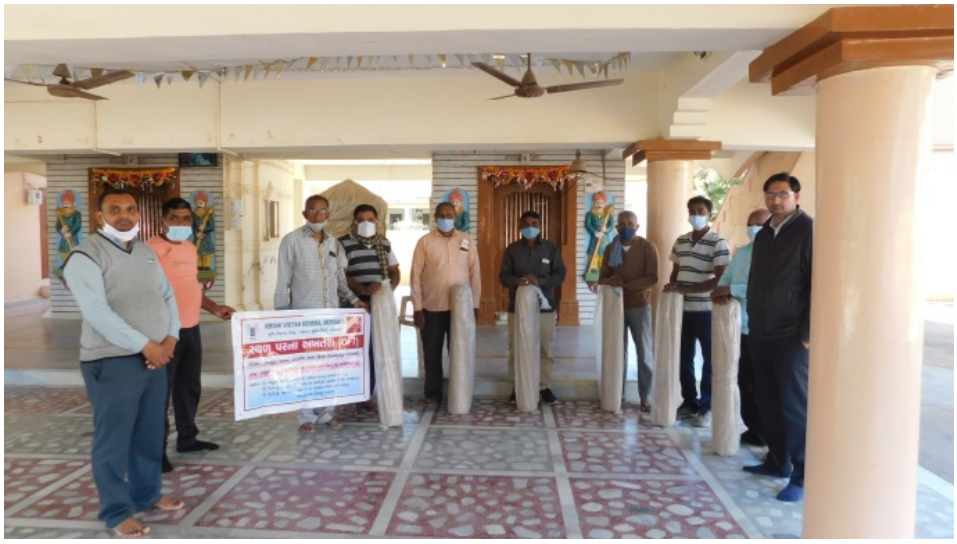
Practice used	Yield (kg/ha)	COC (Rs/ha)	Gross Income (Rs/ha)	Net return (Rs/ha)	B:C ratio
Mulch Plot	49722	170215	559372	389157	3.28
Local Plot	37450	145409	262150	116741	1.80
% increase	32.76	17.05	113.37	233.35	-

Outcome:

As per performance of improved technology found that 32.76% increase in yield and got net returns 389157 Rs/ha. Farmer got 233.35% more net profit over local. Due to intervention of silver-black plastic mulch, yellow sticky trap, pheromone trap, light trap effectively manage weed and pest management also save irrigation hour, herbicides, pesticides cost as well spraying labour cost and getting higher qualitative fruit yield with better selling price.

Impact of the intervention:

Farmers who have grown watermelon with adoption of drip irrigation and silver-black plastic mulch film getting higher yield with qualitative size, shape, shining and high in sugar percentage of watermelon than other farmers. The farmers of neighboring village were encouraged automatically by “seeing is Believing”.



Technolgy Dissemination

Field visit

Success story - 9 :

Name of the farmer : Patel Atulbhai Parshottambhai

Village : Ladol Taluka : Vijapur

District : Mehsana

Mobile no. : 9925399898

Education : B.Com.

Practices adopted :

- Adopted natural farming from many year
- Cultivated cereal, pulses, oilseed and vegetable crops by organic farming
- Prepared and used beejamrut for seed treatment
- Prepared and used of Jeevamrut, ghanjivamrut, panchgavya and vermicompost for nutrition management
- Used bio-fertilizer like azotobactor, PSB, NPK consortia and vermiwash for plant growth regulator
- Prepared and used dashparniark, neemastra, bhramastra and agniastra for controlling pests and disease
- Reared 11 Gir cow
- Saved water by performing drip irrigation and live and dead mulch
- Cultivated mixed crop and used border crops for managing insects
- Participated in Exhibition / workshops
- Provided regular training to other farmers
- Used ICT mechanism (Whatsup and Yutube)
- Executed direct marketing shop "Triveni Prakrutik" for value added organic produce

Comparison of natural farming and conventional farming

Total Land : 3 ha.

Land under natural farming : 1 ha.

Crop : Groundnut Variety : GG20

Details	Natural farming	Conventional farming
Cost of Cultivation (Rs.)	20000	42000
Gross Income (Rs.)	168000	161000
Net Income (Rs.)	148000	119000

Benefits and achievements:

- ✓ Improved soil health
- ✓ Resulted in higher yield and good qualities of produce
- ✓ Generated higher income through value addition of produce
- ✓ Reduced inputs cost
- ✓ High earthworm count in soil

Photographs

Field

Training

Success story - 10 :

Name of the farmer : Chaudhary Geetaben Savjibhai

Village : Balad Taluka : Kheralu

District : Mehsana

Mobile no. : 8758806271

Education : 5th pass

Practices adopted :

- Adopted natural farming from last three year
- Cultivated bajara, castor, cotton, wheat, mustard etc. by organic farming
- Used cow urine for seed treatment
- Prepared and used of Jeevamrut and vermicompost for nutrition management
- Prepared and used dashparniark, neemastra, bhramastra and agniastra for controlling pests
- Used decayed butter milk and sunthastra for disease management
- Reared 10 Kankrej cow
- Saved moisture in soil by adopting mulching
- Adopting mixed cropping system
- Participated in district and state level Exhibition for promoting natural farming produce
- Assisted other women in establishing kitchen garden
- Used ICT mechanism (Whatsup and Yutube)

Comparison of natural farming and conventional farming

Total Land : 5 acre

Land under natural farming : 2 acre

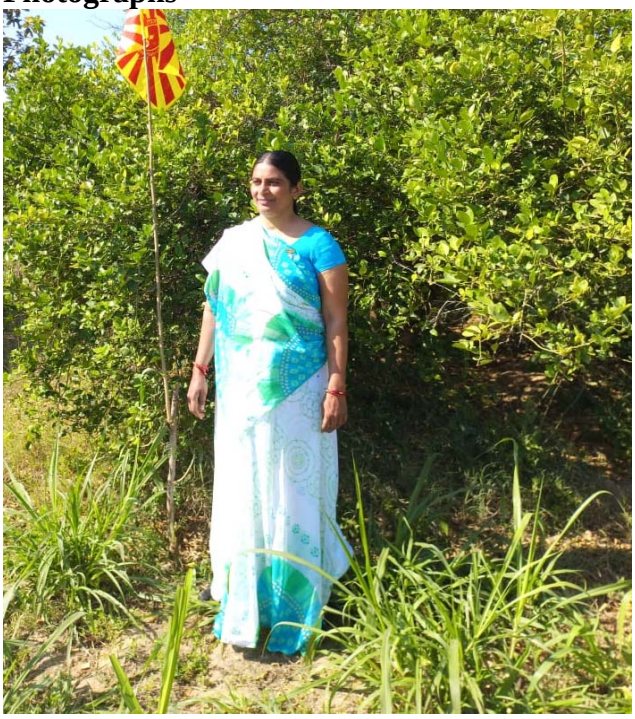
Crop : Mustard Variety : GDM-4

Details	Natural farming	Conventional farming
Cost of Cultivation (Rs.)	20000	35000
Gross Income (Rs.)	165000	134000
Net Income (Rs.)	145000	99000

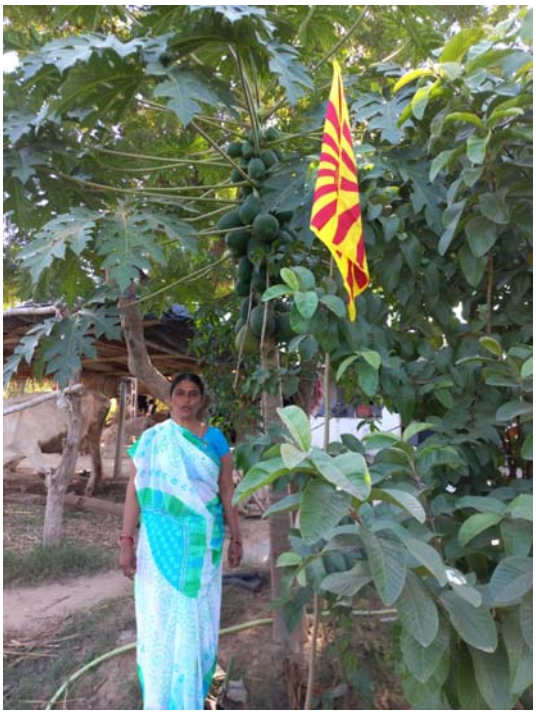
Benefits and achievements:

- ✓ Increased microbial activities in soil
- ✓ Reduced cost of cultivation
- ✓ Increased net income with the use of natural fertilizer and insecticide
- ✓ Consumed and sold chemical free food to the community
- ✓ Increased productivity of different crops

Photographs

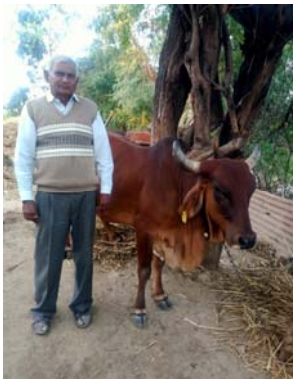


Field



Field

Success story - 11 :



Name of the farmer : Patel Karshanbhai Prahaladbhai
Village : Chadasana Taluka : Becharaji

District : Mehsana

Mobile no. : 6354340976

Education : 7th pass

Practices adopted :

- Adopted natural farming since 2015
- He cultivated watermelon, mango, wheat, drumstick, Musk melon through organic farming
- Prepared and used of Jeevamrut and ghanjivamrut for nutrition management
- Used bio-fertilizer like azotobactor, PSB and NPK consortia and oil cakes
- Prepared and used of various types natural pesticides like neemastra, bhramastra and agniastra etc.
- Reared 2 Gir cow
- Practiced green manuring of dhaincha and sun hemp
- Practiced water conservation technologies including mulching, bed sowing and ridge sowing
- Carried out weed management through wheel hoe
- Cultivated mixed crop and used border crops for managing insects
- He is master trainer of natural farming in ATMA Mehsana provided regular training to other farmers
- Used digital media tools like whatsup and yutube for dissemination of information
- Created awareness by participating in Kishan Mela organized by KVK and agriculture department
- Adopting value addition techniques for more profits

Comparison of natural farming and conventional farming

Total Land : 3.5 acre

Land under natural farming : 3.5 acre

Crop : Wheat, Water melon and bear

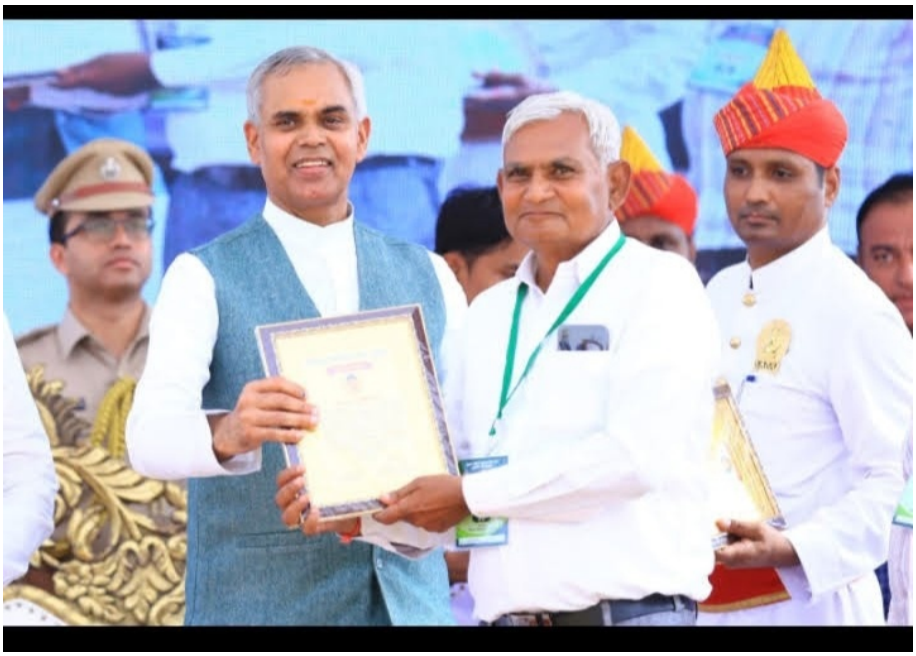
Details	Natural farming	Conventional farming
Cost of Cultivation (Rs.)	34200	60500
Gross Income (Rs.)	310000	290000
Net Income (Rs.)	275800	229500

Benefits and achievements:

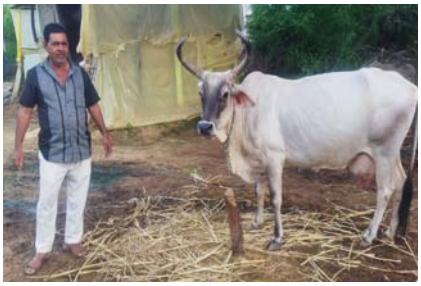
- ✓ Improved soil health
- ✓ Resulted in good qualities of produce

- ✓ Generated higher income through value addition of produce
- ✓ Reduced dependence on inputs
- ✓ Obtained higher yield compared to conventional farming
- ✓ Awarded by ATMA, Mehsana for excellent master trainer of natural farming
- ✓ Earned higher profit
- ✓ Enhanced sustainability
- ✓ Formed FPO of natural farming farmers

Photographs



Success story - 12 :



Name of the farmer : Behelim Munsabkhan Ibrahimkhan

Village : Chhathiyarda Taluka : Mehsana

District : Mehsana

Mobile no. : 8735098075

Education: 12th pass

Practices adopted:

- Adopted natural farming since 2019
- Cultivated cereal, pulses and oilseed crops, by organic farming
- Prepared and used beejamrut for seed treatment
- Prepared and used of Jeevamrut, panchgavya and vermicompost for nutrition management
- Used bio-fertilizer like azotobactor, PSB and NPK consortia
- Prepared and used dashparniark, neemastra and bhramastra for managing pests
- Reared 4 Kankrej cow
- Saved water by performing drip irrigation and mulching
- Cultivated mixed crop and border crops
- Adopted crop diversification in which along with cereals and pulses using latest varieties
- Participated in Exhibition / workshops arranged by KVK and department of agriculture
- Used ICT mechanism (Whatsup and Yutube)

Comparison of natural farming and conventional farming

Total Land: 7 acre

Land under natural farming: 2 acre

Crop : Sorghum and wheat

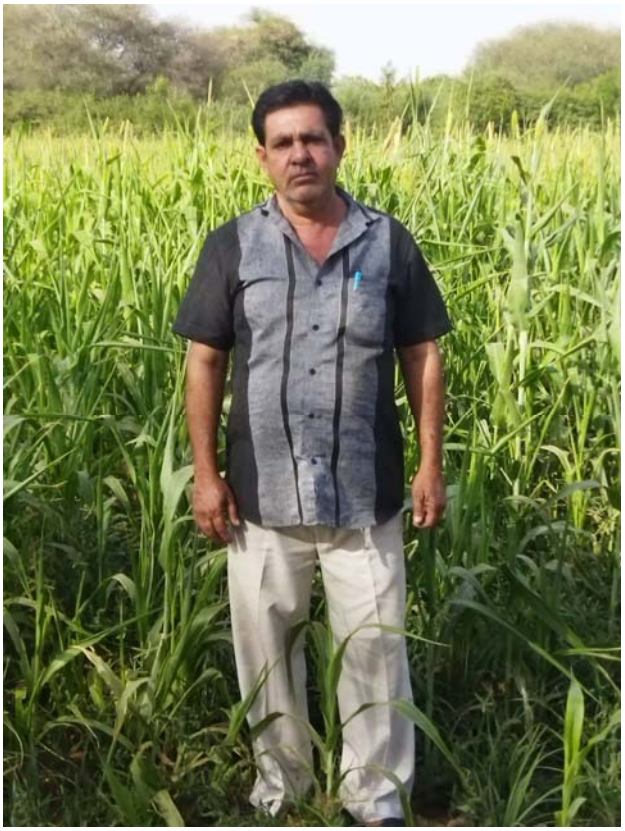
Details	Natural farming	Conventional farming
Cost of Cultivation (Rs.)	15000	44000
Gross Income (Rs.)	60000	84000
Net Income (Rs.)	45000	40000

Benefits and achievements:

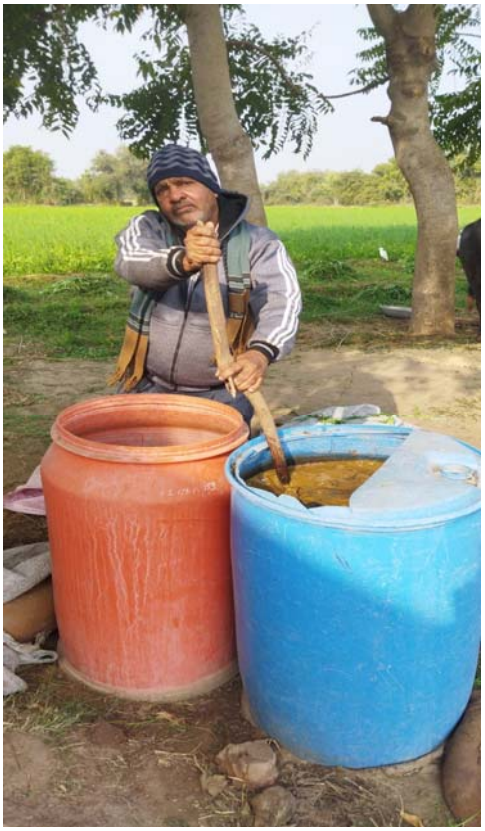
- ✓ Utilized crop residue for mulching
- ✓ Inputs cost and cost of cultivation was reduced
- ✓ Chemical free food was produced
- ✓ Improved soil health
- ✓ Found good qualities of produce

- ✓ Generated higher income through value addition

Photographs



Field



Jivamrut preparation

A Case Study -12
Impact of PM Mann Ki Baat - onFarmers Producer Organisations (FPO)

PART-A: Case study

1. Initiation and motivation :

Indian Agriculture is facing many challenges like increasing input costs, changing pattern of monsoon, poor economies of scale, etc.

Possible solutions to these challenges include increasing the price the farmer receives, improved practices to reduce inputs, value addition at farm gate, insurance, and credit models that are farmer-friendly.

Since 2012-13, Development Support Centre Ahmedabad and RBS Foundation Mumbai, have been supporting KPCL to achieve sustainability through its capacity building, providing necessary exposure and training and financial support for running it's office and operations on a day to day basis. Continuous Technical backstopping by KVK Mehsana through Training , workshop, seminars etc. Therefore, they motivate and start.

2. Formation and start up

Krushidhan Producer Company Limited (KPCL) is a company with is owned, managed and operated by the farmers of Gujarat. The main objective of the company is to provide support to small and marginalized farmers of the area. For this currently we aim at having five thousand shareholders and share capital of Rs.25 lakhs. Company's head office is in Ahmedabad and regional offices are in Visnagar, Himmatnagar, Modasa, Meghraj& Dhari.

3. Funding and policy support

The company in the year 2013-14, started agro centers for the benefit of it's shareholders and farmers of the region at Himmatnagar, Vadnagar, Modasa, Meghraj areas. A total of two thousand and thirty five male and female farmers are it's shareholders. Recently authorized share capital of Rs.10,17,000/- was created. Working capital of Rs.34,39,000/- was arranged from authorized share capital and sale proceedings. With this working capital, farm inputs like quality seeds, pesticides, insecticides organic inputs, scientific farm implements are sold to the shareholders and the villagers. During the working of last three years i.e. 2013-14, 2014-15 and 2015-16 more than fourteen thousand farmers of the region was provided timely inputs, as per their requirement and quality. Sales of inputs worth more than two crores were undertaken during the period. According to a rough estimate the company by providing inputs, locally to the farmers have provided a savings worth Rs.3 crores to it's beneficiaries at the prevailing market price, while earing minimal benefit.

4. Institutional/organizational set-up

Fourteen thousand farmers of 190 villages of 11 blocks of 5 districts of Gujarat are benefited by this company. The Development Support Centre(DSC), Ahmedabad and RBS Foundation, Mumbai, GIZ, APPI

have provided necessary guidance and support for administrative expenses, capacity building and exposure visit for gradual development and establishment of Krushidhan Producer Company Ltd.

5. Business driven progress (Outcome and impact)

Krushidhan Producer Co. Ltd generated RS.44.08 lakh through Equity share and have a Rs. 90.00 lakhs working capital is generated including share capital, borrowings and business income corpus. Various agricultural inputs are provided to the shareholders and farmers by selling of pesticides, seeds, organic inputs and agricultural equipment at a reasonable price, timely and a good quality and according to their need. About 14000 farmers have purchased agricultural inputs of Rs. 1567.67 lakhs during last (Nine) years (namely 2013-14, 2014-15, 2015-16, 2016- 17,2017-18, 2018-19,2019-20,2020-21,2021-22) resulting farmers are benefited to the tune of Rs.15.31 crore compare to local agricultural inputs as per estimation of company. It shows that farmers are getting benefited and company gets negligible benefits.

Since the last three years, company has started promotion of organic farming with an intention of selling organic fertilizers and bio pesticide in their own brand. Therefore, farmers are inspired to cultivate organic agriculture in 2000 hectors. The farmers of Krushidhan Producers Company have produce and sale seeds of wheat, juvar, lucerne, groundnuts in their local area. This was Result in better production around 60 to 80 kgs per 0.25 Ha. and they get benefit of Rs.95 Lakhs.

Krushidhan Producers Company, Ahmedabad has started retail outlet with the support of DSC, Ahmedabad,in Bopal. The shareholders, women groups and farmers club are selling pulses, grains and spices at this outlet in Ahmedabad by cleaning, grading and packaging the primary products to 150 customers with turnover of Rs.7.15 During the year of reporting KPCL has facilitated 143 Farmers for Contract Farming agreement and due to this Farmers have gained about 6000/- and total is Rs. 37.00 lakh in total and company is getting 12 lakhs additional amount of facilitating charges.

6. Motivation after exposure to PM Mann Ki Baat

To increase the linkage with KVK , SAUs and Line departments for technical backstopping.

7. Pre and post PM Mann Ki Baat process and achievement-

8. Feedback/data from members of FPO

Krushidhan Producer Company is involved in promoting sustainable agriculture practices within its members. The major activities promoted are selling of seed, pesticide, Vermicompost, Madhyam Culture, Bio pesticides etc. All the above products are sold to member and non members of Company through its 8 agro outlets from different blocks of North Gujarat. The Vermi-compost and Bio-pesticides are prepared by

the members of Krushidhan Producer Company and sold with the brand name of Krushidhan Producer Company.

9. Recognitions/awards : Best Agripreneur Award , 7th national Conference and Game changer award, Think Agro, Date - 21/01/2017

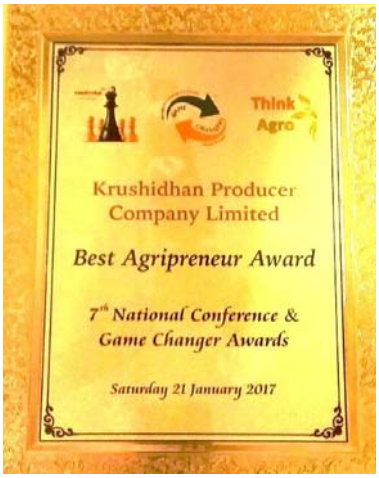
10. Lessons learned :

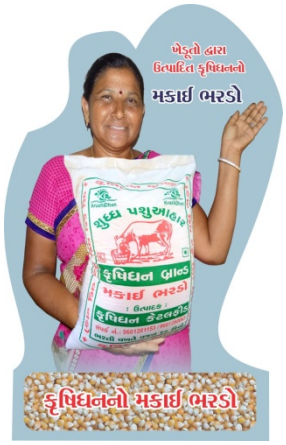
It is the collectivization of small and marginal farmers to form their organisation is called Farmer Producer Organisations (FPOs). This has been recognised as the most effective and appropriate institutional mechanism to reduce the cost of production, increase per unit productivity, and facilitate better market linkages to enhance their income.

11. Way forward :

Marketing of produce at remunerative prices is the most critical requirement for the success of FPOs.The linkage with Industry/other market players, large retailers, etc. is necessary for long term sustainability of FPOs.

12. Good quality photographs in JPEG format





PART-B : Preliminary information/data

Sl. No.	Particulars to be furnished	Information/data/details
1	Name of the FPO and year of establishment	Krushidhan Producer Company Limited. 23rd June 2015.
2	Correspondence address of FPO	C/o Development Support Centre, Marutinandan Villa, Near Govt. Tube Well, Behind Shreeji Dairy, Bopal, Ahmedabad 380 058
3	Contact details of FPO	Phone: 02717-235994/5 Mob- 09601280050 Email: dkvpcl@gmail.com
4	Registration Number	UO1110GJ2005PTC046316
5	Date of registration/incorporation of FPO	23rd June 2005
6	Broad business objective/commodity of FPO	Main objectives of the FPO as given in the AoA & MoA, by- laws, trust deed etc By-laws, AoA & MoA permits the FPO to undertake Production, aggregation and marketing of inputs andoutputs By-laws, AoA & MoA permits the FPO to raise loans from financial institutions
7	Specific objectives of FPO	Support farmer's specially small and marginalized towards their socioeconomic self- reliance. Manage and provide to the farmers,quality agro-inputs on time and at fair price. Provide technical support and guidance with trouble shooting as per the individual needs of the farmers. Support the farmers towards value addition of their produce and ensure a mechanism whereby the farmers receive fair value for their produce. For sustainability of agriculture, work for the promotion of low cost scientific practices on farming. Help and train farmers in assessing the needs and requirements of the market and move ahead accordingly. Undertake any other activity which benefits the farms and the farming community at large.
8	Bank name in which account is maintained, Branch name & IFSC code	SBI, Vadnagar
9	Bank Account number (Current/saving)	Current account

10	Number of Directors in Board/Members/ Governing Body	1	Shri. Vasantkumar R. Patel	Chairman	Vadnagar	30.06.2013
		2	Shri. Chndrakantbhai P. Sedali	Vice Chairman	Dhari	23.08.2015
		3	Shri. Babubhai J. Patel	Director	Visnagar	08.07.2015
		4	Shri. Kavjibhai T. Dama	Director	Meghraj	30.08.2013
		5	Shri. Lalitbhai V. Patel	Director	Himmatnagar	30.08.2013
		6	Smt. Laksmiben M Khakhariya	Director	Meghraj	15.05.2018
		7	Shri Rameshbhai D Patel	Director	Himmatnagar	31.08.2020
		8	Shti Amratbhai Patel	Director	Modasa	Year-2022
11	Mode of Board formation (election/ nomination)	Nomination				
12	Date(s) of Board/Governing Body Meetings held in the last year	14/02/2023				
13	Roles & Responsibility of Boards/ Governing Body	To ensure better income for the producers through an organisation of their own. Small producers do not have the volume individually (both inputs and produce) to get the benefit of economies of scale.				
14	Number of functional committees of the FPO	-				
15	Number of total Shareholder Members	4409				
16	Paid up capital (in Rs.) (FPO has received from shareholders in exchange for shares of stock)	Rs.44,08,500/- (Rupees Forty-Four Lakh eight thousand five hundred only) Shareholders – 4409, No. of shares - 8817				
17	Amount of Equity Grant sought (in INR) i.e matching equity grants received/provided (Rs.)	Annexure-I				
18	Maximum shareholding of an Individual Shareholder Member (Rs.)	1000				
19	Progress since inception	Krushidhan Producer Co. Ltd generated RS.44.08 lakh				

	to till date	through Equity share and have a Rs. 90.00 lakhs working capital is generated including share capital, borrowings and business income corpus. Various agricultural inputs are provided to the shareholders and farmers by selling of pesticides, seeds, organic inputs and agricultural equipment at a reasonable price, timely and a good quality and according to their need. About 14000 farmers have purchased agricultural inputs of Rs. 1567.67 lakhs during last (Nine) years (namely 2013-14, 2014-15, 2015-16, 2016- 17,2017-18, 2018-19,2019-20,2020-21,2021-22) resulting farmers are benefited to the tune of Rs.15.31 crore compare to local agricultural inputs as per estimation of company. It shows that farmers are getting benefited and company gets negligible benefits.
	Activities	Salient achievements
	produce and sale seeds of wheat, juvar, rajka, groundnuts	This was Result in better production around 60 to 80 kgs per 0.25 Ha. and they get benefit of Rs.95 Lakhs
	started retail outlet	selling pulses, grains and spices at this outlet in Ahmedabad by cleaning, grading and packaging the primary products to 150 customers with turnover of Rs.7.15.
	for Contract Farming	Farmers have gained about 6000/- and total is Rs. 37.00 lakh in total and company is getting 12 lakhs additional amount of facilitating charges
20	Any other information not covered	-

Krushidhan Producer Company Limited.

STATEMENT OF PROFIT AND LOSS FOR THE PERIOD ENDED 31st MARCH 2022

Amount (Rs.)

	Particulars	Note No.	Year ended 31st March 2022	Year ended 31st March 2021
I	Revenue from Operations	13	60,946,494	80,984,643
II	Other Income	14	2,057,405	1,983,684
III	TOTAL INCOME (I + II)		63,003,899	82,968,327
IV	EXPENSES			
	Cost of Materials sold	15	59,442,251	79,450,637
	Depreciation and Amortization Expenses	7	98,207	111,485
	Other Expenses	16	3,449,237	3,388,628
	TOTAL EXPENSES		62,989,695	82,950,750
V	Profit Before Tax		14,204	17,577
X	Tax Expense			
	Current Tax		2,216	4,120
	Deferred Tax		-	-
XI	Profit(Loss) for the Period(XI+XIV)		11,988	13,457
XVI	Earnings per Equity Share			
	-Basic		1.36	1.53
	-Diluted		-	-
	Additional Information		-	-

The Notes referred to above form an integral part of the Balance Sheet.

As per our report of even date
For Amal Datt & Associates LLP
Chartered Accountants

CA Amal Dhru
Partner
Membership No. : 030257
Firm Reg. No : 100294W/W100202
Place: Ahmedabad
Date: 03.09.2022
UDIN: 22030257AVIJMM3883

For and On behalf of the Board

Director
KRUSHIDHAN PRODUCER COMPANY LIMITED

Krushidhan Producer Company Limited.
(Previously known as Dhari Krushak Vikas Producers Co. Ltd.)
Balance Sheet as at 31-Mar-2022

Amount (Rs.)

	Particulars	Note No.	As at 31st March 2022	As at 31st March 2021
I.	EQUITY AND LIABILITIES			
1	Shareholders' Funds			
	(a) Share Capital	2	4,408,500	4,408,500
	(b) Reserves and Surplus	3	424,000	412,012
2	Non-Current Liabilities			
	(a) Long-Term Borrowings		-	-
	(b) Deferred Tax Liabilities (Net)		-	-
	(c) Relvoling Fund		1,420,000	1,420,000
3	Current Liabilities			
	(a) Short-Term Borrowings	4	2,720,417	2,057,332
	(b) Trade Payables	5	26,326,284	15,682,141
	(C) Short-Term Provisions	6	348,540	447,181
	Total		35,647,741	24,427,166
II.	ASSETS			
1	Non-Current Assets			
	(a) Property, Plant and Equipment			
	(i) Tangible Assets	7	673,014	728,285
	(b) Non Current Investments	8	403,600	403,600
	(c) Long-Term Loans and Advances	9	1,377,779	1,495,203
2	Current Assets			
	(b) Inventories	10	2,342,057	2,259,160
	(c) Trade receivables	11	23,805,695	16,188,481
	(d) Cash and Cash Equivalents	12	7,045,596	3,352,437
	(e) Short-Term Loans and Advances		-	-
	(f) Other Current Assets Retail Oulet		-	-
	Total		35,647,741	24,427,166
	Significant Accounting Policies	1		

As per our report of even date
For Amal Datt & Associates LLP
Chartered Accountants

CA Amal Dhru
Partner
Membership No. : 030257
Firm Reg. No : 100294W/W100202
Place: Ahmedabad
Date: 03.09.2022
UDIN: 22030257AVIJMM3883

For and On behalf of the Board

Director
KRUSHIDHAN PRODUCER COMPANY LIMITED

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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Livestock	✓ Use of Sesame oil, turmeric and garlic	for edema of udder
2	Crop	✓ Use slurry of cow dung and urine	To reduce the damage by neel cow in crop
		✓ Use of Panchparni Arc, Nimastra, Bhramastra	To manage pests
		✓ Use of Jaggery + Deshi Cow Milk	For growth and enhancement of flowering and fruiting
		✓ Rotten Buttermilk	Disease management

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

A. Practicing Farmers

a) PRA
b) Group discussion
c) Benchmark survey

B. Rural Youth

a) PRA

C. In-service personnel

a) Department contact

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

a) PRA
b) Problem identified from Matrix
c) Field level observations
d) Farmer group discussions

For FLD:

a) New variety/technology/Intervention
b) Poor yield at farmers level
c) Existing cropping system

5.3. Field activities

a) Name of villages identified/adopted with block name (from which year) -Kahoda (Unjha)
b) No. of farm families selected per village : 25
c) No. of survey/PRA conducted : 2
d) No. of technologies taken to the adopted villages: 7
e) Name of the technologies found suitable by the farmers of the adopted villages : 5
f) Impact (production, income, employment, area/technological– horizontal/vertical):
g) Constraints if any in the continued application of these improved technologies:

6. LINKAGES

A. Functional linkage with different organizations

Sr.No	Name of Organization	Nature of Linkage
1	DSC, Visnagar	Joint implement
2	Sardarkrushinagar Dantiwada Agricultural University , Sardarkrushinagar	Technical backstopping
3	Anand Agricultural University , Anand	Technical support
4	District Agriculture Officer, Mehsana	Joint implementation
5	Deputy Director (Horticulture), Mehsana	Joint implementation
6	NABARD, Mehsana	Joint implementation for farmers clubs and Strengthening of SHGs
7	ATMA, Mehsana	Joint implementation
8	Dena Bank, Mehsana	Member of SAC, For S.H.G. formation
9	G.S.F.C., G.N.F.C. and IFFCO	Joint implementation, FLD Inputs
10	Main Seed Spices Research Station, SDAU, Jagudan	Technical support
11	DRDA	Participating in meeting, Member of SAC
12	Farmer Training Centre, Mehsana	Joint Implementation
13	Deputy Director (A.H),Mehsana	Member of SAC, Various Govt. Scheme
14	Wheat Research Station, SDAU, Vijapur	FLD
15	Gujarat State Seed Corporation Ltd, Mehsana	Seed production, Input FLD
16	Self Employed Women Association (SEWA), Mehsana	Joint Implementation
17	RSETI, Mehsana	Joint Implementation , Vocational trainings, Member of SAC
18	National Centre for Integrated Pest Management, New Delhi	Joint implementation
19	Junagadh Agricultural University, Junagadh	Technical backstopping
20	National Institute of Plant Health Management, Hyderabad	Technical support
21	Navsari Agricultural University, Navsari	Technical backstopping
22	District forest officer, Mehsana	Technical support
23	Regional fodder station, Dhamrod, Surat	Joint implementation
24	ICDS, Mehsana	Joint implementation
25	Cohesion foundation, Jagudan	Technical support
26	Dudhsagar Dairy, Mehsana	Joint implementation

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

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

C. Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

If yes, role of KVK in preparation of SREP of the district : -

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks
01	Meetings	AMC and AGB Meeting	3		
		SAC Meeting		1	
02	Research projects				
03	Training programmes	Collaborative training programme	1		
04	Demonstrations				
05	Extension Programmes				
	KisanMela		1		
	Pak Parisanvad	Pak Parisanvad	3		
	Exposure visit		1		
	Exhibition				
	Soil health camps				
	E Krishipath	E magazine			
	Animal Health Campaigns				
	Kisan Gosthi	Kisan gosthi organized by ATMA	7		
	Lecture delivered	Training and FFS	40	5	
06	Publications		1	1	
	Video Films				
	Books				
	Extension Literature	Technical guidance	1	1	
	Pamphlets				
	Others (Pl. specify)				
07	Farmer Selection committee	Award	1		
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

D. Give details of programmes implemented under National Horticultural Mission

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

E. Nature of linkage with National Fisheries Development Board

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

F. Details of linkage with RKVY

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

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

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

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	CFLD oilseeds and pulses	Financial	607500	531690	

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

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

7. Convergence with other agencies and departments: -

8. Innovator Farmer's Meet

Sl.No.	Particulars	Details
1	Have you conducted Farm Innovators meet in your district?	No
2	Brief report in this regard	

9. Farmers Field School (FFS)

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:

Sr.No	Technology assessed/demonstrated	Technical feedback of farmer
1	Cumin variety GC-5	13.56 % yield increased
2	20 microns plastic mulch 5550 meter per hector	23.42 % water saving,28.16% yield increased
3	Lime: Lime harvester (JAU Recomonded)	80.06 % Reduction in dropping fruit
4	Wheat late sown variety GW-499	13.35 % test weight increased 12.47 % production increased
5	Blackgram - New Variety GU-2	High yielding variety (24.37% higher yield) 7.14 % test weight increased
6	Wheat GW-451 - 125 kg/ha	High yielding variety (17.66 % higher yield) Good for chapatti lodging resistant variety 4.14 % test weight increased
7	Fennel : Beauveria bassiana-2.4 kg, Neem Oil - 10000 ppm-1.8 lit	Bio-pesticides effectively managed sucking pest Qualitative production
8	Groundnut Sulphur- 20 kg, Trichoderma- 2.5 kg.,HNPV 250 LE,Chlorpyriphos 1 ltr, NPK consortia 1.25 lit, Quinalphos - 2.5 Lit, Beauveria bassiana -2.4 kg, Neem Oil (10000 ppm)-1.8 ltr.	Application of sulphur increased yield Beauveria bassiana, neem oil, HNPV and SNPVmanage heliothis, spodoptera and sucking pests effectively Soil application of Trichoderma very good managed collar rot disease
9	Castor Castor Seeds GCH-8 : 4 kg,Sulphur- 20 kg, NPK consortia - 1.2 lit, PSB culture-1.25 lit, Azotobactor culture - 1.25 lit, Beauveria bassiana - 2.4 kg,Profenophos - 1 lit.	Variety GCH-8 is high yielding(23.66%Higher yield) and wilt resistance, Sulphur- increase yield, Trichoderma- Effectively manage of rootrot, Beauveria bassiana Manage sucking pest, manage castor hairrycatter pillar
10	Mustard Seed GDM-4 - 3.5 kg, Sulphur-40 kg, PSB Culture-1.25 lit, Azotobactor-1.25 lit,Beauveria bassiana-2.5 kg, Neem Oil(10000 PPM)-1.8 lit,Sticky trap-10 nos, Pendimethalin-2.5 lit	Variety GDM-4 is high yielding(21.51 % higher yield), Sulphur- increase yield, Yellow sticky trap, Beauveria bassiana and Neem oil manage aphids effectively and increased bio agent population
11	Blackgram Seed GU 1 - 20 kg, Sulphur - 20 kg, Pendimethalin -2.5 lit, NPK consortia - 1.25, Beauveria bassiana - 2.4 k.g, Neem oil (10000 PPM)- 1.8 ltr	Variety, GU-1 is good and bold seeded(21.83% Higher Yield) Application of sulphur increased yield Beauveria bassiana and neem oil- manage pests
12	Chickpea Seed GJG 5 - 60 kg, Sulphur-20 kg, NPK Consortia 1.2 lit, HNPV-450 LE, Beauveria bassiana - 2.4 kg, Pheromone trap and Lure	Variety GJG-5 is high yielding (21.84 % Higher Yield) Grains luster is good Pheromone trap, Neem oil, Beauveriabassiana, HNPV manage pod borer effectively
13	Cotton (IPM) Beauveria bassiana 2.4 kg/ha, Neem Oil 30 ml/10 ltr. water, Pheromone trap 8 to 10/ha.	Bio-pesticides effectively manage sucking pest and pink bollwarm (24.50 % reduction in boll damage) Environmentally safety approach
14	Use of green fodder, dry fodder and concentrate + Mineral mixture@30 gms + copper and cobalt bolus + Deworming of animals	50 percent increase conception rate
15	Use of soap permethrin 5% + cetrimide 1% + Aloevera (1%) apply and massage the leather on every part of body and wash after 1 hour	45% decrease Ectoparasite
16	Fodder Sorghum - Variety, COFS-31- 1 kg	17.85% more green fodder yield
17	Fodder Sorghum - Variety, CSV-33 MF	16.41% more green fodder yield
18	Fenbendazole @ 3 gm/animal/6 month	Effectively manage worm infestation No adverse effect in pregnancy
19	Bypass protein	Increase 14.44 % milk production

		Increase 6.10 % fat
20	Chelated Mineral mixture - 3 kg	Increase 10.59 % milk production Increase 3.2 fat percent
21	Probiotic 1 kg	Increase 9.52 % milk production
22	Wheelhoe	Labour and time saving Low cost of weeding Doing interculturing without bending movement and hard work of labour Easy to operate while near row to row and plant to plant distance
23	Secutter	Labour and time saving at the time of harvesting of castor spike Less shoulder pain Droping of capsules are very lessduring harvesting spike
24	Kitchen garden	Continuously supply of fresh and organic vegetable at low cost Utilization of maximum backyard space and waste water Time and money saving
25	Dibbler (Cotton and Castor)	Easy for sowing without bending movement of body Excellent germination Saving of seeds cost Time saving
26	Mango squash	Farm women are aware about preservative Durability of squash is increase Value addition gives higher value of products

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

Subjest	Technology assessed/demonstrated	Technical feedback of Scientist
Animal Science	Assessment of chelated mineral mixture and deworming effect on anestrus condition in lactacting buffaloes Use of green fodder, dry fodder and concentrate + Mineral mixture@30 gms + copper and cobalt bolus + Deworming of animals	• Recomondate to SAUs for research experiment on assessed treatment
Agriculture Engineering	Assessment of mulching technique in water melon 20 micron plastic mulch 5550 metre per hector	
Home Science	Assessment of Mango Squash preparation method Green Mango 1 kg + Sugar 1.5 kg + Citric acid 8 gm + Potassium Metabisulphiet 2 gm	

11. Technology Week celebrationduring 2022, Yes/No, If Yes : No

Period of observing Technology Week: From : to

Total number of farmers visited :

Total number of agencies involved :

Number of demonstrations visited by the farmers within KVK campus :

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	-	-	-
Lectures organized	-	-	-
Exhibition	-	-	-
Film show	-	-	-
Fair	-	-	-
Farm Visit	-	-	-
Diagnostic Practicals	-	-	-
Supply of Literature (No.)	-	-	-
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week	-	-	-

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

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

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

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No. of participants
Total			

D. Animal health camps organized

State	Number of camps	No.of animals	No. of farmers
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./year)	After (Rs./year)
Seed production	45	33.33	-	15000
Vermicompost production	20	65	-	12000
Agriculture extension service provider	20	40	-	50000
Value addition	41	61	-	3000
Organic farming	50	76	-	12000
Micro Irrigation Technician	20	25	-	18000
Bio-pesticide preparation	30	66.66	-	4000

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)

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	**Oil seed**						
1.1	Castor	ICM	Castor Seeds GCH-8 : 4 kg,Sulphur- 20 kg, Trichoderma- 2.5 kg., PSB culture-1.25 lit, Azotobactor culture - 1.25 lit, Beauveria bassiana -2.4 kg,	Training, CFLD, SMS, Field day, Krushi Mela, Diagnosis visit, Group meeting, Telephonic guidance, Mobile conference	250	2000	500
1.2	Mustard	ICM	Seed GDM-4 - 3.5 kg, Sulphur-40 kg, PSB Culture-1.25 lit, Azotobactor-1.25 lit,Beauveria bassiana-2.4 kg, Neem Oil(10000 PPM)-1.8 lit,Sticky trap-10 nos, Pendimethalin-2.5 lit	Training, CFLD, SMS, Field day, Krushi Mela, Diagnosis visit, Group meeting, Telephonic guidance, Method demonstration	300	4500	2000
1.3	Groundnut	ICM	Sulphur- 20 kg, Metarizium-5 kg , Trichoderma- 2.5 kg.,PSB culture-1.25 lit, Rhizobium culture - 1.25 lit, Beauveria bassiana -2.4 kg, HNPV-	Training, CFLD, SMS, Field day, Krushi Mela, Diagnosis visit, Group meeting, Telephonic	100	2000	1000

			450 LE, SNPV 250 LE, Neem Oil (10000 ppm)-1.8 ltr.,Imazethapyr -750 gm	guidance, Method demonstration			
2	**Pulses**						
2.1	Blackgram	ICM	Seed GU 1 - 20 kg, Sulphur - 20 kg, Rhizobium culture - 1.25 lit, PSB culture - 1.25 Lit, Beauveria bassiana - 2.4 k.g, Neem oil (10000 PPM)- 1.8 ltr	Training, CFLD, SMS, Field day, Krushi Mela, Diagnosis visit, Group meeting, Telephonic guidance	70	1500	500
2.2	Chickpea	ICM	Seed GJG 5 - 60 kg, Sulphur-20 kg, PSB culture 1.25 lit, Rhizobium culture 1.25 lit,Neem oil-1.8 lit,HNPV-450 LE, Beauveria bassiana - 2.4 kg, Trichoderma - 2.5 kg	Training, CFLD, SMS, Field day, Krushi Mela, Diagnosis visit, Group meeting, Telephonic guidance, Mobile conference, Method demonstration	30	400	200
3	**Other**						
3.1	Fennel	Varietal Evaluation	High yielding variety GF-12	Training, Krushi Mela, Telephonic guidance, Diagnosis visit, SMS , FLD	260	4000	1500
3.2	Wheat	IPM	Seed treatment of Fipronil/ Chorpyriphos @ 5 ml /kg seed	Training, Krushi Mela, Telephonic guidance, Diagnosis visit, SMS, FLD	400	1000	5000
3.3	Wheat	Varietal Evaluation	GW-451 @ 125 kg/ha and timely sowing	Training, Field day, Krushi Mela, Telephonic guidance, Diagnosis visit, FLD,SMS	250	5000	2000
3.4	Cumin	IDM	Propineb 70 % WP - 30 gms / 10 lit. water, Seed treatment of Mencozeb 5 gm/ kg seed	Training, Field day, Krushi Mela, Telephonic guidance,	20	600	200

				Diagnosis visit, FLD,SMS			
3.5	Micro Irrigation system	Micro Irrigation system	Drip Irrigation	Training, Method demonstration, Group meeting	200	800	600
3.6	Tomato	IPM	Trichogramma - 1.5 lakh (6 times), Beauveria bassiana - 2.4 kg, Neem Oil -10000 ppm-1.8 lit,HNPV 450 LE	Training, Field day, Krushi Mela, Telephonic guidance, Diagnosis visit, FLD,SMS	45	1500	1000
3.7	Sucking pest	Bio control	Beauveria bassiana - 2.4 kg, Neem Oil -10000 ppm-1.8 lit, Sticky trap-10 no.	Training, Field day, Krushi Mela, Telephonic guidance, Diagnosis visit, FLD,SMS	350	4500	3500
3.8	Wheat	Weed management	Post emergence weedicides Metsulfuron Methyl	Training	400	5500	6000
3.9	Farm Implements	Small tools and implements	Wheelhoe	Training, FLD , Method demonstration, Field day	150	2500	-
3.10	Farm Implements	Farm machinery and its maintenance	Seed cum fertilizer drill	Training, Method demonstration, Field day	150	5500	-
3.11	Farm Implements	Farm machinery and its maintenance	Rotavator	Training, Method demonstration	275	12000	-
3.12	Livestock	Feed management	Chelaetd Mineral mixture	Training, FLD, Field day	250	8000	-
3.13	Livestock	Feed management	Probiotic	Training, FLD, Field day	80	1500	-
3.14	Livestock	Disease management	Fenbendazole	Training, FLD	250	5000	-
3.15	Home Science	Value addition	Aonla product	Method demonstration & training	90	1100	-
3.16	Home Science	Household food security	Kitchen garden	Training, FLD, Field day, Field	160	1200	-

				visit			
4 Cash Crops							
4.1	Cotton	IPM	Pheromone trap-8 no/ ha , Beauveria bassiana - 2.4 kg, Neem Oil -10000 ppm-1.8 lit	Training, Field day, Krushi Mela, Telephonic guidance, Diagnosis visit, FLD,SMS	225	3000	1200

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

Table : 1 Adoption of the latest technologies by the farmers (n =50)

Sr. No.	Technology	Frequency	Adoption (%)
1	Scientific cultivation of major crops	34	68
2	Fodder production	28	56
3	Soil fertility management	26	52
4	Seed production technologies	17	34
5	Micro Irrigation System	19	38
6	Weed management	36	72
7	Soil and water conservation	24	48
8	Integrated Nutrients Management	34	68
9	Commercial fruit production	31	62
10	Improved technology in vegetables crops	32	64
11	Improved technology in spice crops	36	72
12	Production technology of Tuber crops	25	50
13	Enterprenureship development of farmers	17	34
14	Integrated Pest Management	38	76
15	Integrated Disease Management	33	66
16	Bio control of pests and disease	30	60
17	Post harvest technology	20	40
18	Dairy management	33	56
19	Disease management in animal	34	68
20	Feed management in animal	36	72
21	Small tools and implements	27	54
22	Production of organic inputs	33	66
23	Natural farming	10	20
	Overall adoption	**56.34%**	

Table 2: Adoption of the latest technologies by the farmwomen (n = 50)

Sr. No.	Technology	Frequency	Adoption (%)
1	Income generating activities	21	42
2	Value addition	29	58
3	Women and child care	35	70
4	Adoption of low cost high nutrient diet	27	54
5	Kitchen gardening	36	72

6	Self help group and its sustainability	24	48
7	Storage loss minimization technology	35	70
8	Dairy management	36	72
9	Feed management in animals	38	76
10	Weed management	25	50
11	Drudgery reduction	27	57
12	Small tools and implements	24	48
13	Post harvest technology	22	44
14	Disease management	32	64
	Overall adoption	**58.92%**	

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
January 2022	0	0	0
February 2022	2	38120	0
March 2022	0	0	0
April 2022	1	12900	0
May 2022	2	25800	0
June 2022	3	38746	0
July 2022	2	26092	46
August 2022	1	13044	59
September 2022	3	54692	144
October 2022	0	0	138
November 2022	3	62430	162
December 2022	2	41620	188
Total	**19**	**313444**	**737**

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Mehsana	Text only	12	3			4		19
	Voice only							
	Voice & Text both							
	Total Messages	12	3			4		19
	Total farmers benefitted	**208594**	**38844**			**66006**		**313444**

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area Sq M	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Azolla	2016	40	Azolla piñata	Seed	36		1800	
2	Jeevamrut	2019	125	-	-	815		163	
3	Aonla juice	-	-	-	Commercial	3087		246960	

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (Kg)	Cost of Inputs	Gross Income	
Cereals									
Pearl millet	15/03/2022	25/06/2022	0.75	GHB-538	Commercial	3196	4725	67455	
Wheat	10/11/2021	22/03/2022	0.60	GW-451	Seed	1752		53334	
Wheat	08/12/2021	30/03/2022	0.60	GW-496	Seed	1533		46116	
Wheat	08/12/2021	08/04/2022	0.15	GW-499	Seed	250		7650	
Pulses									
Blackgram	15/07/2022	09/10/2022	0.50	GU-1,2,3	Seed	99		12495	
Greengram	13/07/2022	05/10/2022	0.30	GM-6	Seed	104.50		11305	
Oilseeds									
Mustard	10/10/2022	15/02/2023	0.30	GDM-4	Seed	580		-	
Castor	27/08/2021	08/03/2022	0.60	GCH-7	Commercial	1692		118863	
Spices									
Fibers									
Cotton	14/06/2021	30/11/2021	0.40	GTHH-49	Commercial	258		22074.48	
Floriculture									
Fruits									
Aonla	2004		3.2	NA-7	Contract	-	-	105000	
Chiku	2008		0.60	Kali Patti					
Lime	2002		1.20	Kagzi Lime					
Drum stick	2016		1.6	PKM-1					
Mango	2020	-	0.35	Kesar	-	-	-	-	
Lime	2019	-	0.25	Kagzi Lime	-	-	-	-	
Vegetables									
Palak,Radish, Tomato	18/08/2021	-	0.10	-	Commercial				
Brinjal					Commercial	-		1665	

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	Vermicompost	3461	-	34810	-
2	Bio-Fungicides					
3	Bio-pesticides					
4	Bio-Agents	Earth worm (Perionyx sillensis)	372.5	-	93125	-

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. (Lit.)	Cost of inputs	Gross income	
1	Cow	Kankrej	Milk	25	-	750	-

E. Utilization of hostel facilities

Accommodation available (No. of beds):56

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January – December 2021	142	418	-
Total			

F. Database management

S. No	Database target	Database created
1	-	20810

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

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
-	-	-	5	-	-	2875	-	-	-

H. Performance of Nutritional Garden at KVK farm

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

If yes,
Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
0.06	Vegetable crops	Kharif -9, Rabi-15	3052
	Fruit crops	7 (No of plant - 11)	
	Others if any	5	

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
4	Vegetable crops	15	55
4	Others - Drumstick	1	55

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	T	M	F	T
-	-	-	-	-	-	-	-	-	-

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	Mehsana	0000427	Krishi Vigyan Kendra	10354356755	384002001	SBIN0000427

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

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	203.50	203.50	199.70
	TOTAL(1)	**203.50**	**203.50**	**199.70**
2	**Contingencies**			
A	TA(DOMESTIC)	1.27	1.27	1.27
B	Res & Operational Exp	3.02	3.02	3.02
C	Admin Expenses	2.32	2.32	2.32
D	GIA-General(Contingencies)	0.75	0.75	0.75
	TOTAL(2)	**7.36**	**7.36**	**7.36**
	TOTAL(A) =TOTAL(1)+ TOTAL(2))	**210.86**	**210.86**	**207.06**
B. Non-Recurring Contingencies				
1	**Works**	0.00	0.00	0.00
2	**Equipments including SWTL & Furniture**	0.00	0.00	0.00
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	0.00	0.00	0.00
4	**Library** (Purchase of assets like books & journals)	0.00	0.00	0.00
TOTAL (B)		0.00	0.00	0.00
C. REVOLVING FUND		0.00	0.00	0.00
GRAND TOTAL (A+B+C)		**210.86**	**210.86**	**207.06**

Financial status of other Programme Financial year 2022-23

Sr.No	Items/Head	Sanctioned Grant	Opening Balance	Release	Expenditure	Closing Balance
1	Out Scaling Through Natural Farming	2.66	0.00	2.66	2.66	0.00
2	Swachhta Action Plan	0.24	0.00	0.24	0.24	0.00
3	CFLD-OILSEED	4.60	-0.35	1.87	2.84	-1.32
4	CFLD-Pulses	1.80	-0.53	0.34	1.42	-1.61
5	Skill Dev. Programm-Small Dairy Farmer	2.87	0.06	2.81	2.87	0.00
6	Kisan Bhagidari Prathamikata Hamari	0.98	0.00	0.98	0.98	0.00

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2018 to March 2019	21.66	8.36	6.37	23.65
April 2019 to March 2020	23.65	8.35	5.84	26.16
April 2020 to March 2021	26.16	12.12	6.77	31.51
April 2021 to March-2022	31.51	10.42	3.00	38.93
April-2022 to March-2023	38.93	12.56	7.42	44.07

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/Offline)	Dates
Mrs. Babita. R. &Mr.RAKachhadia	S.M.S (HS) SMS (AE)	Online training programme on Post Harvest Management and Storage Techniques	Plant Health Engineering Division,NIPHM, Hyderabad	Online	7-11 March 2022
Shri B K Patel	S.M.S (CP)	PrakrutikKrushi Ma Pak Sarankshan	AAU, Anand	Online	5 April 2022
Mr. R A Kachhadia	S.M.S (AE)	State level Parisawand/Webinar PakrutrikKrushima Pak Saraksan	NAHEP-CAAST, AAU	Online	5April2022
Shri B K Patel	S.M.S (CP)	EMERGING AGRICULTURAL MARKETING TRENS AND CHALLENGES	AAU, Anand	Online	29-30 April 2022
Shri B K Patel	S.M.S (CP)	Satelight farming	AAU, Anand	Online	9-10 May 2022
Miss. Babita. R.	S.M.S (HS)	Stored Grain Pest Detection,Identification and management	NIPHM , Hydrabad	Online	9-13 May 2022
Shri M R Patel	S.M.S (EE)	Workshp for entry of DFI Stories in to Excel	ATARI , Pune	Offline	21-22 May 2022
Mr. R A Kachhadia	S.M.S (AE)	Workshop of PMFME	Gujarat Agro - Mehsana	Offline	24June 2022
Dr. R A Patel	Sr.Sci.&Head	Management Development programme for Senior Scientist and Head of KVKs	NAARM,Hydrabad	Offline	15-18 June 2022
Mr. A D Patel	Computer operator	Video Editing and Conferencing skill in social media for extension services	KVK Khedbrahma	Offline	22-24 Aug 2022
Shri M R Patel & Mr R A Kachhadia	S.M.S (EE) & S.M.S (AE)	Communication Skill For Effective Extension Services	KVK Khebrahama	Offline	25-27 Aug 2022
Dr. R A Patel & Shri B K Patel Mr.R A Kachhadia	Sr.Sci.&Head & SMS(CP) S.M.S (AE)	Use of Drone Technology in Agriculture	KVK Randheja	Offline	3 Oct 2022
Shri M R Patel & Shri B K Patel	S.M.S (EE)& S.M.S (CP)	Pre - Rabi seasonal workshop	S D A U, S K Nagar	Offline	18 oct 2022
Shri M R Patel	S.M.S (EE)	National Workshop on Natural Farming	RVSKVV ,Gwalior	Offline	3 Dec 2022
Shri B K Patel	S.M.S (CP)	PrakrutikKheti	Gurukul, Kurukshetra	Offline	8-9 Dec
Dr. R A Patel & Shri B K Patel	Sr.Sci.&Head & SMS(CP)	Crop management through natural farming,Proccesing and value addition in horticulture crop and Protected cultivation in vegetables and fruit crops	KVK, Patan	Offline	30 Dec 2022

Dr. R A Patel & Shri B K Patel , Shri M R Patel , Mr. R A Kachhadia Mrs.Babita R.	S.M.S	Workshop on Natural farming	KVK Mehsana	Offline	2 Sep 2022

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

Name of the village	Total No. of families surveyed	Key interventions implemented	No. of farmers covered in each intervention	Change in income (Rs/unit)	
				2016-17	2021-22
Venpura	11	Training, FLD, OFT and other extension activities	10	42821	92000
Amarpura	10		10	98110	195000

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

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered
1	**NARI**	**1**	**Training, FLD, OFT, Field day, Field Visit**	**11**	**79**

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	
-	-	-	-	-	-	-	-	-

21. Details of SAP

Date	Activities	No.ofActivites	Participant
2nd October to 31 October, 2022	Awareness programme about swachhta	10	455
	cleaning of office and campus and disposal of scraps ,space freed etc	10	70
	Cleaning of village programme with farmers	1	27
	Crop Residue Management	3	245
	Demonstration of Technologies on waste and wealth	10	448
	Microbial Based Agriculture weste management	2	38
	Orientation programme	1	4
	Timely disposal of references	2	8
		39	1295

Details of SAP activity and expenditure

Quarter	**No. of adopted villages (For Microbial based Agricultural Waste Management using Vermicomposting)**	**Types of major Activity conducted (**Excluding Vermicompost activity**) Swachhta Pakhwada, Cleaning, Awareness Workshop etc.**	**Expenditure (Rs)**
I II III IV	Denap,Kansa(2 Villages)	Cleaning and beautification of surrounding area. Awareness regarding plastic use and stop single use plastic material. Used water for agriculture and horticulture application. Farm sanitation and SWM.. School campus cleaning. Swachhata awareness at local level. Display and banner.	**24390**

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

Celebration of special day

International Women's Day

International Women's Day was celebrated by Krishi Vigyan Kendra on March 8, 2022. The day included On campus and Off campus training programme as well as lecture delivered. The topic of Role of women in agriculture was discussed on the occasion of International Women's day and practical demonstrations on healthcare and low cost nutritional diet were given to the farm women under the training programme. 106 farm women were participated.

Krishi Mela and Natural Farming Exhibition

On the occasion of 75thAzadi ka Amrit Mahotsav 2022, Krishi Vigyan Kendra, Ganpat University and ATMA project, Mehsana jointly organised Krishi Mela cum Prakrutik Krushi exibitation under the theme of "***Kisan Bhagidari prathmikta hamari abhiyan***" held on 26th April,2022.
In exhibitions, 20 Stall of natural farming farmers in which various organic fruits and vegetables, pulses, cereals, spices etc were exhibited as well as 12 stall of agricultural mechanization and value addition, departmental, agricultural university etc were arranged.
Under this event, Dept. of Animal Husbandry, Mehsana conducted 2 animal health camp in Denap and Punasan village. In which 94 beneficiaries participated and 370 animals treated. In Mehsana district, 9672 Animals vaccinated through FMD vaccine and distributed 210 Kisan Credit Card form to farmers.
Padmshri Dr.Ganpatbhai Patel, Patron in Chief, Ganpat University; Chief Guest Shri.Haribhai Patel, Chairman, Executive Committee, District Panchayat, Mehsana; Mr.Jayesh B. Upadhyay, Joint Director of Agriculture, Mehsana; Shri Sombhai Rayaka, Director, KVK, Dr.Ramesh Patel, Senior Scientist and Head, KVK; Shri B.N.Patel, Deputy Director of Agriculture (Training); Shri Shailesh Patel, Deputy director of Agriculture (Extension); Shri Bhavesh Joshi, DAO, Mehsana; Shri J.B.Suthar, Deputy director of Horticulture, Mehsana; Shri Bharatbhai Desai, Deputy Director of Animal Husbandry; Shri Nilesh M. Patel, Nodal Officer, Gandhinagar and leading officers of department and KVK were gress this function.
During this event, Padm shri Dr.Ganpatbhai Patel underlined the great potential of the Natural farming practices in agriculture for raising the economy of farmers community as well human health of the nation. Mr. Haribhai Patel also stressed on adopt of gir and kankrej cow based farming system for farmers community. Mr. Jayesh B. Upadhyay also aware about various state government scheme for natural farming. 3 prakrutik kheti farmers were honoured with shawl for cultivating crop through natural resources and also share the view of their natural farming agriculture practices among the farmers. Total 352 farmers, farm women, stack holders and officers were participated in this Krishi Mela cum Prakrutik krushi exibitation.

Garib Kalyan Sammelan

Krish Vigyan Kendra, Ganpat University and ATMA Project, Mehsana jointly organized Garib Kalyan Sammelan on 31.05.2022, From Shimla a live telecast of Hon'ble Prime Minister direct interaction with the farmers was organized.Shri Rambhai Patel, Chairman, APMC Mehsana and other dignitaries and government officials were present. A total of 254 farmers, farm women and officials were present.

Certificate course on Pesticides management for Existing Insecticides Licenses
National Institute of Plant Health Management (NIPHM),Hyderabadand Krishi Vigyan Kendra,Mehsana, jointly conducted 72 hours certificate course for insecticide dealers/distributors from 09/09/2021 to 27/12/2022. Total 246 dealers / distributors in six batches of "Certificate course on **Certificate course on Pesticides management for Existing InsecticidesLicenses**"has been completed.Certificate were distributed of this training programme by Padmashri Dr.Ganpat Dada, Patron in chief and chairman of Ganpat

University; Joint Director of Agriculture, Mehsana; Dy. Director of Agriculture (Extension), Mehsana; Shri Somabhai Rayka, Director, KVK, Mehsana.

Celebration of Poshan Maah

Poshan Maah celebrated during the period of 01 to 30 September, 2022 by KVK Mehsana. It's main objective is to make women and children in our country free from malnutrition. KVK conducted many programme during Poshan Maah like awareness programme, lecture delivered and farmer visit to KVK. Nutrition awareness programme for Anganwadi workers was conducted on 15-16 September, 2022 at KVK. In this programme lecture was delivered on layout and planning of nutrition garden, preparation of poshan rangoli and Aonla recipes prepares from aonla because aonla is a good source of nutrition. Nutri Kit and Moringa seed distributed to Anganwadi workers. Total 108 Anganwadi workers participated in training programme. Poshan Abhiyan and vruksharopan programme also conducted on date 17-09-2022 at KVK on the occasion of Prime Minister Shri Narendrabhai Modi's birthday. Total 1594 Farmers and farm women of Vishalpur, Chansol, Fatehpura, Korda, Khavad, Santhal, Kasalpur, Jagudan and Venpura villages were participated.

World Food Day

World Food Day was celebrated on 16 October, 2022 at KVK. In this 43 insecticide dealers and distributors attended the training. Dr. R.A. Patel briefed all about the World Food Day and shared the role of Food and Agriculture Organization of the United Nation. Solution and mitigate the hunger issues and also said about side effect of chemical in our food.

Jal Shakti Abhiyan

KVK Mehsana organised Jal Shakti Abhiyan Awareness Programme throughout the district during the period of 29 March to 30 November,2022. Due to deep water table of the Mehsana district, KVK Mehsana create aware regarding Water Conservation, Ground water recharge as well Efficient use of water through MIS in Agriculture Crop and use of organic mulching in farming practice among the farmers of various block of Mehsana District. in which KVK Mehsana carried out various activity like 277 seed packets distribution,121 sapling distribution, 1702 tree plantation and Total 99 Training and Awareness programme with 4506 farmers Participants.

Summary table of JAL SHAKTI ABHIYAN

Sr.N	Duration	Training Programs (Water Use Efficiency and Appropriate Crops)		No.Seed Packets distributed	No. Saplings distributed	Tree Plantation	Awareness Programs	
		Number	Total Participants				Number	Participants
1	01/03/2022 to 31/03/2022	0	0	0	0	0	1	40
2	01/04/2022 to 30/04/2022	2	68	0	0	0	7	567
3	01/05/2022 to 31/05/2022	2	51	0	0	0	10	609
4	01/06/2022 to 30/06/2022	1	31	0	0	0	16	570
5	01/07/2022 to 31/07/2022	7	249	82	0	0	10	437
6	01/08/2022 to 31/08/2022	1	28	0	60	1500	13	642
7	01/09/2022 to 30/09/2022	1	48	170	61	202	9	448
8	01/10/2022 to 31/10/2022	0	0	25	0	0	12	586
9	01/11/2022 to 30/11/2022	1	12	0	0	0	6	120

Total	**15**	**487**	**277**	**121**	**1702**	**84**	**4019**

Direct selling concept for organic growers

KVK Mehsana encourage the farmers of water melon, musk melon and date palm grower at GUNI Staff quarter residency and hostel through direct selling to consumer for getting better price of their produce.

Sr. No.	Particular	Quantity (Kgs)	Rate (Rs.)	Total Amount (Rs.)
1	Water Melon	1600	20	32000
2	Musk Melon	1200	25	30000
3	Date Palm	340	80	27200
Total				**89200**

PARTHENIUM AWARENESS WEEK 16-22 AUGUST, 2022

KVK, Mehsana celebrated the Parthenium Awareness Week during 16th to 22nd August, 2022 to motivate the public for management and eradication of the obnoxious weed. As you know the health of animals, people, plant and the environment are interconnected and "One Health" is an integrated approach that recognizes this fundamental relations. Therefore, Parthenium eradication is a step in this direction to maintain better ecological standard. Parthenium has become one of the rampant weeds throughout the globe causing enormous damage to agricultural productivity, human and animal health and biodiversity. In India, it has assumed serious proportions in the cropped and non-cropped lands, city dwellings, rail, canal and road sides, and in the institutional campuses. In this programme total **88** participants of Shankapura and Motidau villages of Mehsana district. We have awared them regarding parthenium weed, habitat and control measure of it.

Parthenium histerophours is an alien invasive weed of national significance. It is popularly known as congress grass, carrot weed, white cap or top, gajar ghas, chatak chandni, asadi, gajari, phandriphuli, nakshatra gida, vayyari bhama and safed topi in different parts of India. Since its introduction into country in 1950s, it has invaded 35 million hectare land in cropped and non-cropped areas including forests. It is a fast maturing annual, which can grow to a height of 1.5 to 2.0 m having brances and leaves covered with fine hairs.

It produces large number of small white flowers and seeds of light weight that are easily dispersed to distant places. A single plant can produce 5,000 to 25,000 seeds.

It causes health hazards like skin allergy (dermatitis), hay fever and asthma in human beings, and is also toxic to livestock. It threats native biodiversity besides loss to crop productivity. It is a nuisance in public amenity areas like parks, residential colonies and orchards. The weed squeezes grasslands and pastures, hence reducing the fodder supply for animals.

Moreover, it is becoming more important as a major activity of **"Sachh Bharat Abhiyan"** and therefore KVKs to participate in this activity as a component of "Swachhh Bharat Abhiyan" and to ensure **Parthenium-free campus**.

CELEBRATION OF SWACHHATA ABHIYAN

Swachhata related awareness programme celebrated from 02-31, October, 2022 and 16-31, December, 2022 by KVK Mehsana. Under this programme clean up the office premises and public places. KVK scientist aware the farmer and general public about the hygiene through banners, posters and various method of organic farming, agriculture waste management such a NADEP, vermi compost, promotes of kitchen garden, water harvest technology and farmers take

pledge on minimal use of plastics in their day to day life. During swachhata abhiyan 1295 farmers and farm women were participated.

Summary of Events

Sr No	Date	Event name	Participants	Remarks
1	11/02/2022	World pulses day	58	
2	08/03/2022	International women day	106	
3	22/03/2022	World Water day	67	
4	26/04/2022	Krishi Mela and Natural Farming Exhibition	352	Padmshri Dr.Ganpatbhai Patel, Patron in Chief, Ganpat University; Chief Guest Shri.Haribhai Patel, Chairman, Executive Committee, District Panchayat, Mehsana; Mr.Jayesh B. Upadhyay, Joint Director of Agriculture, Mehsana; Shri Sombhai Rayaka, Director, KVK, Dr.Ramesh Patel, Senior Scientist and Head, KVK; Shri B.N.Patel, Deputy Director of Agriculture (Training); Shri Shailesh Patel, Deputy director of Agriculture (Extension); Shri Bhavesh Joshi, DAO, Mehsana; Shri J.B.Suthar, Deputy director of Horticulture, Mehsana; Shri Bharatbhai Desai, Deputy Director of Animal Husbandry; Shri Nilesh M. Patel, Nodal Officer, Gandhinagar
5	31/05/2022	Garib Kalyan Sammelan	254	Shri Rambhai Patel, Chairman, APMC Mehsana
6	21/06/2022	Yoga day	42	
7	16/07/2022	ICAR Foundation day	62	
8	16-22/08/2022	Parthenium Awareness Day	88	
9	09/06/2021 - 27/12/2022	Certificate course on Pesticides management for Existing Insecticides Licenses	246	
10	1-30/09/2022	Poshan Maah	108	
11	17/10/2022	PM Kisan Samman-live	141	Smt.Sharadaben Patel, Member of Parliament, Mehsana
12	05/04/2022 to 30/11/2022	Jal shakti abhiyan	4415	
13	23/12/2022	Kisan Divas	107	
14	October 02-31, 2022 and December 16-31, 2022	Swachhata Abhiyan	1295	

Student trained by KVK during the year

Sr.No	Date/Duration	Days	Number of students	Degree	Name of college
1	07/02/2022 to 03/03/2022	21	5	BRS	Loknikitan Mahavidhyalay, Ratanpur, Palanpur, B.K.
2	28/02/2022 to 05/03/2022	6	51	B.Sc (Horti)	Collage of Horticulture, Jagudan, S. K. Nagar
3	03/09/2022 to 06/09/2022	4	3	B.Sc. (Agri)	College of Agriculture, Tharad, S.K. Nagar
4	14/09/2022 to 30/09/2022	15	2	B.Sc. (Agri)	College of Agriculture, Bharuch, NAU

Technical backstoping - DEE, SDAU, S K Nagar

Activities	Date	Place	Participants
DEE, SDAU attended KVK activities and Visit			
Visits of KVK Mehsana - 4times		KVK	4
Rabi Summer ZAREAC Meet	20/10/2022	SDAU, S.K. Nagar	1
Pre Rabi Seasonal workshop	18/10/2022	SDAU, S.K. Nagar	3
SAC	07/01/2022	KVK	1
Pre - APR workshop	28/06/2022	SDAU, S.K. Nagar	3
Review Meeting -2	29/06/2022 02/09/2022	SDAU, S.K. Nagar	6
Workshop-2	02/09/2022 30/12/2022	SDAU, S.K. Nagar	4
Training-3	22/08/2022 25/08/2022 03/10/2022	SDAU, S.K. Nagar	6

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	99	1825	1345	3170
Rural youths	1	0	20	20
Extension functionaries	16	459	157	616
Total	**116**	**2284**	**1522**	**3806**
Sponsored Training	16	336	267	603
Vocational Training	1	0	20	20

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	100	40	
Pulses	50	20	
Cereals	95	15.5	
Vegetables	-	-	
Other crops	25	10	
Hybrid crops	25	10	
Total	**295**	**95.5**	
Livestock & Fisheries	130		130
Other enterprises	120		120
Total	**250**		**250**
Grand Total	**545**	**95.5**	**250**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	3	25	25
Livestock	2	20	20
Various enterprises	3	26	26
Total	**8**	**71**	**71**
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	**8**	**71**	**71**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	2306	15135
Other extension activities	148	--
Total	**2454**	**15135**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Mehsana	Text only	12	3	0	0	4	0	19
	Voice only	0	0	0	0	0	0	0
	Voice & Text both	0	0	0	0	0	0	0
	Total Messages	12	3	0	0	4	0	19
	Total farmers benefitted	**208594**	**38844**	**0**	**0**	**66006**	**0**	**313444**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	45.56	201257.92
Planting material (No.)	451	6860
Bio-Products (kg)	3461	34810
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

	Samples	No. of Beneficiaries	Value Rs.
Soil	559	401	52120
Water	55	49	380
Plant	29	29	0
Total	**643**	**479**	**52480**

8. HRD and Publications

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

Date	Cliental	Discipline	Training Title	Thrust Area	Training Place	Days	M	F	T	M	F	T	M	F	T
1-Jan-2022	PF	Extension Education	Training for FPO Promotion	Entrepreneurial development of farmers/youths	Saduthla	1	25	0	25	0	0	0	25	0	25
8-Jan-2022	PF	Agricultural Engineering	Mulching Technology in Watermelon Crop	Use of Plastics in farming practices	Ranshipur	1	17	15	32	0	0	0	17	15	32
24-Jan-2022	FW	Animal Science	Capacity building training on Scientific Dairy Farming	Dairy Management	Ralisana	3	7	33	40	0	0	0	7	33	40
27-Jan-2022	PF	Crop Production	INM in Oilseed crops	Integrated Nutrient Management	Nagarasan	1	70	0	70	0	0	0	70	0	70
31-Jan-2022	FW	Animal Science	Capacity building training on Scientific Dairy Farming	Dairy Management	Sunsi	3	0	34	34	0	6	6	0	40	40
7-Feb-2022	PF	Animal Science	Capacity building training on scientific dairy farming	Dairy Management	Santhal	3	25	20	45	0	0	0	25	20	45
14-Feb-2022	PF	Plant Protection	Scientific cultivation of honeybee/apiculture	Production of bio control agents and bio pesticides	Jagudan	1	25	0	25	0	0	0	25	0	25
14-Feb-2022	FW	Animal Science	Capacity building training on scientific dairy farming	Dairy Management	Kot	3	13	27	40	0	0	0	13	27	40
21-Feb-2022	PF	Crop Production	Scientific cultivation of summer Sesamum	Integrated Farming	Davada	1	42	0	42	0	0	0	42	0	42
24-Feb-2022	EF	Crop Production	INM and IWM in cotton	Integrated Nutrient management	KVK	1	17	6	23	2	2	4	19	8	27
25-Feb-2022	EF	Plant Protection	IPM in Cotton	Integrated Pest Management	KVK	1	17	6	23	2	2	4	19	8	27
28-Feb-2022	FW	Home Science	Conservation of nutrients while handling and cooking of food	Minimization of nutrient loss in processing	Visnagar	1	0	40	40	0	0	0	0	40	40
2-Mar-2022	PF	Agricultural Engineering	Post-Harvest Technology of Spice Seed	Post-Harvest Technology	Savala	1	21	12	33	25	0	25	46	12	58
8-Mar-2022	FW	Home Science	Health care and balance diet for farm women	Women and child care	Malarpura	1	0	31	31	0	0	0	0	31	31
8-Mar-2022	FW	Animal	Capacity building	Dairy Management	KVK	3	3	41	44	0	0	0	3	41	44

		Science	training on scientific dairy farming												
10-Mar-2022	PF	Crop Production	Prakrutik Kheti	Production of organic inputs	KVK	3	43	0	43	6	0	6	49	0	49
22-Mar-2022	PF	Agricultural Engineering	Efficient use of water through MIS in Agriculture	Installation and maintenance of micro irrigation systems	KVK	1	24	0	24	3	0	3	27	0	27
24-Mar-2022	PF	Agricultural Engineering	Use of organic Mulching in farming practices	Soil fertility management	KVK	1	14	0	14	1	0	1	15	0	15
24-Mar-2022	PF	Extension Education	Extension Methods and Tools for improving efficacy of FPO	Entrepreneurial development of farmers/youths	Mehsana	1	18	0	18	4	0	4	17	0	22
5-Apr-2022	RY	Home Science	Preparation method of different types of khakhra	Value addition	Jagudan	5	0	20	20	0	0	0	0	20	20
7-Apr-2022	PF	Extension Education	capacity building of FPO	Mobilization of social capital	KVK	1	37	0	37	0	0	0	37	0	37
11-Apr-2022	EF	Plant Protection	Pesticides management for existing insecticides licensees	Productivity enhancement in field crops	KVK	12	40	0	40	0	0	0	40	0	40
12-Apr-2022	FW	Home Science	Preparation and preservation of Mango products	Value addition	KVK	2	0	43	43	0	0	0	0	43	43
28-Apr-2022	PF	Agricultural Engineering	Use of Improved small farm-implements in agriculture	Production of small tools and implements	Buttapaldi	1	25	5	30	0	0	0	25	5	30
30-Apr-2022	EF	Extension Education	Leadership Skills for Agricultural extension service providers	Leadership development	KVK	1	39	0	39	0	0	0	39	0	39
5-May-2022	FW	Animal Science	Use and importance of chelated mineral mixture in animal feed	Animal Nutrition Management	Saduthla	1	4	24	28	0	0	0	4	24	28
5-May-2022	PF	Plant Protection	Non chemical methods of diseases management in cotton and groundnut crops	Integrated Disease Management	KVK	2	22	0	22	0	0	0	22	0	22
14-May-2022	FW	Home Science	Preparation method of Mango squash,jam and pickle	Value addition	KVK	1	4	20	24	0	0	0	4	20	24
18-May-2022	PF	Extension Education	Need and Importance of Agriculture	Entrepreneurial development of	Vithoda	1	36	0	36	0	0	0	36	0	36

			Entrepreneurship	farmers/youths											
20-May-2022	PF	Agricultural Engineering	Soil and Water conservation practices	Soil fertility management	Dhandhusan	1	13	1	14	1	0	1	14	1	15
23-May-2022	PF	Crop Production	Soil health card	Soil and Water Testing	KVK	1	17	0	17	0	0	0	17	0	17
25-May-2022	FW	Home Science	Importance of seasonable fruits and vegetables in our health	Design and development of low/minimum cost diet	Vadosan	1	0	14	14	0	7	7	0	21	21
26-May-2022	FW	Agricultural Engineering	Farm implements used in cotton cultivation	Repair and maintenance of farm machinery and implements	Kot	1	8	28	36	0	0	0	8	28	36
27-May-2022	FW	Animal Science	Use and importance of chealated mineral mixture in animal diet	Animal Nutrition Management	Dagavadiya	1	3	24	27	0	0	0	3	24	27
2-Jun-2022	PF	Crop Production	Bt cotton cultivation practices	Cropping Systems	Pratapnagar	1	38	0	38	0	0	0	38	0	38
7-Jun-2022	PF	Crop Production	Scientific cultivation of Bt cotton	Integrated Crop Management	Davada	1	30	10	40	0	0	0	30	10	40
7-Jun-2022	PF	Crop Production	Kharif pulse crop cultivation practices	Crop Diversification	kharasada	1	14	0	14	0	0	0	14	0	14
8-Jun-2022	PF	Crop Production	Scientific cultivation of Bt cotton	Integrated Crop Management	Rupal	1	34	16	50	0	0	0	34	16	50
9-Jun-2022	PF	Agricultural Engineering	Harvesting technique of lime fruits through lime harvester	Post Harvest Technology	Kundal (Part)	1	11	6	17	14	0	14	25	6	31
9-Jun-2022	EF	Crop Production	Scientific cultivation of Bt cotton	Productivity enhancement in field crops	KVK	2	29	11	40	6	4	10	35	15	50
11-Jun-2022	PF	Crop Production	Scientific cultivation of Groundnut	Integrated Crop Management	KVK	1	25	0	25	1	0	1	26	0	26
11-Jun-2022	EF	Plant Protection	Pesticides management for existing insecticides licensees	Productivity enhancement in field crops	KVK	12	37	1	38	2	0	2	39	1	40
14-Jun-2022	PF	Crop Production	Scientific cultivation of blackgram	Integrated Crop Management	KVK	1	26	0	26	0	0	0	26	0	26
16-Jun-2022	PF	Crop Production	Scientific cultivation of Bt cotton	Cropping Systems	Santhal	1	42	12	54	0	0	0	42	12	54
17-Jun-2022	FW	Animal Science	Scientific cultivation technology of fodder	Feed & fodder technology	Saduthla	1	2	28	30	0	0	0	2	28	30

			sorghum												
17-Jun-2022	PF	Crop Production	Scientific cultivation of groundnut	Integrated Crop Management	KVK	1	28	0	28	0	0	0	28	0	28
20-Jun-2022	FW	Animal Science	Health and Hygienemanagement in dairy animals	Disease Management	Sankapura	1	4	26	30	0	0	0	4	26	30
20-Jun-2022	FW	Animal Science	Importance of deworming and vaccination in dairy animals	Disease Management	Vajapur	1	11	20	31	0	0	0	11	20	31
25-Jun-2022	PF	Crop Production	Scientific cultivation of Blackgram	Integrated Crop Management	KVK	1	10	0	10	0	0	0	10	0	10
25-Jun-2022	FW	Home Science	Preparation of different types of products from mango	Value addition	Saduthla	1	0	32	32	0	0	0	0	32	32
4-Jul-2022	PF	Animal Science	Production technology of fodder sorghum CSV-33 MF	Feed & fodder technology	gadha	1	26	0	26	0	0	0	26	0	26
5-Jul-2022	PF	Extension Education	Empowerment of Farmers through ICT	Mobilization of social capital	KVK	1	0	0	0	9	15	24	9	15	24
5-Jul-2022	FW	Home Science	Importance of Kitchen gardening	Household food security by kitchen gardening and nutrition gardening	Vajapur	1	5	39	44	0	0	0	5	39	44
6-Jul-2022	PF	Extension Education	Enhancing income through using various technologies in agriculture	Group dynamics	Kaiyal	1	0	0	0	10	17	27	10	17	27
7-Jul-2022	FW	Home Science	Importance of Kitchen gardening	Household food security by kitchen gardening and nutrition gardening	Deloli	1	0	38	38	0	0	0	0	38	38
11-Jul-2022	PF	Extension Education	Strengthening of farmers producer organization	Formation and Management of SHGs	Kahoda	1	102	0	102	0	0	0	102	0	102
12-Jul-2022	EF	Crop Production	Post sowing agronomic aspects in cotton cultivation	Productivity enhancement in field crops	KVK	2	29	11	40	6	4	10	35	15	50
13-Jul-2022	FW	Animal Science	Importance of deworming and vaccination in dairy	Disease Management	Chitrodipura (Mehsana)	1	6	19	25	0	0	0	6	19	25

			animals												
15-Jul-2022	FW	Agricultural Engineering	Roof top rain water harvesting technology	Soil and Water conservation	Mareda	1	11	17	28	0	0	0	11	17	28
18-Jul-2022	FW	Animal Science	Balance feeding technology for dairy animals	Feed & fodder technology	Baliyasan	1	18	23	41	0	0	0	18	23	41
19-Jul-2022	PF	Crop Production	INM in cotton	Micro nutrient deficiency in crops	Piludara	1	35	0	35	0	0	0	35	0	35
19-Jul-2022	FW	Agricultural Engineering	Harvesting of Runoff Water through Pond	Soil and Water conservation	Meu	1	14	26	40	0	0	0	14	26	40
21-Jul-2022	PF	Agricultural Engineering	Ground water recharge technology	Soil and Water conservation	Kharsada	1	24	0	24	0	0	0	24	0	24
22-Jul-2022	PF	Agricultural Engineering	Ground Water Recharge Through well	Soil and Water conservation	Dedasan	1	3	0	3	22	5	27	25	5	30
30-Jul-2022	PF	Agricultural Engineering	Use of hand operated farm implement for kharif crops	Production of small tools and implements	Gadha	1	40	0	40	1	0	1	41	0	41
1-Aug-2022	PF	Plant Protection	Biocontrol of cotton pests	Bio-control of pests and diseases	KVK	1	24	0	24	1	0	1	25	0	25
2-Aug-2022	PF	Crop Production	Scientific cultivation of castor	Integrated Crop Management	KVK	1	33	18	51	4	0	4	37	18	55
3-Aug-2022	EF	Animal Science	Feed and fodder management for dairy animals	Livestock feed and fodder production	KVK	1	33	0	33	0	0	0	33	0	33
4-Aug-2022	PF	Agricultural Engineering	Rain water harvesting technology	Soil and Water conservation	Jagudan	1	16	12	28	0	0	0	16	12	28
4-Aug-2022	EF	Animal Science	Management of farm animals	Management in farm animals	KVK	1	30	0	30	0	0	0	30	0	30
5-Aug-2022	EF	Animal Science	Feed and fodder management technology for dairy animals	Livestock feed and fodder production	KVK	1	26	0	26	0	0	0	26	0	26
8-Aug-2022	FW	Animal Science	Importance of deworming and vaccination in dairy animals	Disease Management	Bhesana	1	8	20	28	0	2	2	8	22	30
10-Aug-2022	FW	Home Science	Value addition in apple and banana	Value addition	Jagudan	1	0	20	20	0	0	0	0	20	20
12-Aug-2022	PF	Plant Protection	Role of biopesticides for pests and diseases management in groundnut	Bio-control of pests and diseases	Kubada	1	27	0	27	0	0	0	27	0	27

17-Aug-2022	PF	Plant Protection	IPM and IDM in blackgram	Integrated Disease Management	Buttapaldi	1	18	0	18	0	0	0	18	0	18
18-Aug-2022	PF	Plant Protection	IPM and IDM in groundnut	Integrated Disease Management	Sankapura	1	30	0	30	0	0	0	30	0	30
19-Aug-2022	EF	Plant Protection	Pesticides management for existing insecticides licensees	Productivity enhancement in field crops	KVK	12	40	0	40	0	0	0	40	0	40
24-Aug-2022	FW	Home Science	Nutritional deficiency in Human being	Women and child care	Kot	1	0	29	29	0	0	0	0	29	29
27-Aug-2022	FW	Home Science	Nutritional deficiency in human being	Women and child care	Venpura	1	0	28	28	0	0	0	0	28	28
7-Sep-2022	FW	Agricultural Engineering	Use of various improved farm implements for castor cultivation	Repair and maintenance of farm machinery and implements	Visalpur	1	14	24	38	6	4	10	20	28	48
8-Sep-2022	FW	Animal Science	Use and Importance of Probiotic for dairy animals	Feed & fodder technology	Chansol	1	12	12	24	0	0	0	12	12	24
9-Sep-2022	FW	Animal Science	Balance feeding technology for dairy animals	Feed & fodder technology	fatehpura	1	1	20	21	0	0	0	1	20	21
15-Sep-2022	EF	Home Science	Nutrition awareness programmme for Anganwadi workers	Women and Child care	KVK	1	0	51	51	0	3	3	0	54	54
16-Sep-2022	EF	Home Science	Nutrition awareness programme for Anganwadi workers	Women and Child care	KVK	1	0	50	50	0	5	5	0	55	55
17-Sep-2022	FW	Home Science	Importance of nutri rich crops in our health	Designing and development for high nutrient efficiency diet	KVK	1	0	61	61	0	0	0	0	61	61
24-Sep-2022	FW	Animal Science	Management of ectoparasites in dairy animals	Disease Management	Korda	1	3	19	22	0	0	0	3	19	22
26-Sep-2022	FW	Animal Science	Ectoparasite management in dairy animals	Disease Management	Khavad	1	1	15	16	0	0	0	1	15	16
27-Sep-2022	PF	Plant Protection	IPM and IDM in Castor	Integrated Pest Management	Santhal, Kasalpura	1	45	14	59	3	3	6	48	17	65
30-Sep-2022	PF	Crop Production	Scientific cultivation of Mustard	Integrated Crop Management	KVK	1	30	0	30	0	0	0	30	0	30
6-Oct-2022	FW	Animal Science	Use and Importance of bypass protein in	Animal Nutrition Management	Jagudan	1	3	11	14	0	0	0	3	11	14

			animal diet												
7-Oct-2022	FW	Home Science	Importance of green leafy vegetables in diet	Design and development of low/minimum cost diet	Gareta	1	0	25	25	0	0	0	0	25	25
11-Oct-2022	PF	Crop Production	scientific cultivation of Mustard	Integrated Crop Management	KVK	1	20	0	20	0	0	0	20	0	20
14-Oct-2022	FW	Animal Science	Use and Importance of bypass protein in high yielding animals	Animal Nutrition Management	deloli	1	4	17	21	0	0	0	4	17	21
17-Oct-2022	PF	Crop Production	Scientific cultivation of Chickpea	Integrated Crop Management	KVK	1	26	2	28	0	0	0	26	2	28
19-Oct-2022	PF	Crop Production	Scientific cultivation of Wheat	Integrated Crop Management	KVK	1	42	3	45	0	0	0	42	3	45
19-Oct-2022	FW	Home Science	Preparation method of bajra biscuits through different technologies	Designing and development for high nutrient efficiency diet	Jagudan	1	0	20	20	0	0	0	0	20	20
22-Oct-2022	PF	Plant Protection	IPM in fennel	Integrated Pest Management	Bhunav	1	27	4	31	0	0	0	27	4	31
8-Nov-2022	PF	Horticulture	Scientific cultivation of Cumin	Production and Management technology	Bodla	1	7	0	7	0	0	0	7	0	7
8-Nov-2022	FW	Home Science	Preparation and preservation of aonla candy	Value addition	Saduthla	1	0	24	24	0	0	0	0	24	24
18-Nov-2022	PF	Agricultural Engineering	Use of hand operated farm implement for interculturing operation in spice crop	Production of small tools and implements	KVK	1	12	0	12	0	0	0	12	0	12
21-Nov-2022	FW	Extension Education	Women Empowerment	Leadership development	Rupal	1	2	18	20	0	0	0	2	18	20
22-Nov-2022	FW	Home Science	Preparation method of bajara biscuit through different technologies	Designing and development for high nutrient efficiency diet	Venpura	1	0	27	27	0	0	0	0	27	27
25-Nov-2022	PF	Crop Production	Scientific cultivation of late sown wheat	Integrated Crop Management	KVK	1	8	0	8	0	0	0	8	0	8
26-Nov-2022	PF	Extension Education	Value Chain Managementof Agricultural Commodities for income Enhancement	Group dynamics	Savala	1	20	0	20	6	8	14	26	8	34
28-Nov-2022	FW	Crop	INM in rabi crops	Integrated Nutrient	KVK	1	4	29	33	0	0	0	4	29	33

		Production		Management											
2-Dec-2022	FW	Animal Science	Disease management in dairy animals	Disease Management	KVK	1	3	30	33	2	2	4	5	32	37
9-Dec-2022	EF	Plant Protection	Pesticides management for existing insecticides licensees	Productivity enhancement in field crops	KVK	12	34	1	35	7	0	7	41	1	42
12-Dec-2022	EF	Plant Protection	Pesticides management for existing insecticides licensees	Productivity enhancement in field crops	KVK	12	42	0	42	2	0	2	44	0	44
13-Dec-2022	PF	Plant Protection	IPM for aphid management in mustard	Integrated Pest Management	Martoli	1	31	0	31	0	0	0	31	0	31
14-Dec-2022	PF	Plant Protection	IPM for pod borer in chickpea	Integrated Pest Management	Maguna	1	26	5	31	0	0	0	24	3	31
15-Dec-2022	PF	Plant Protection	Aphid management in mustard	Bio-control of pests and diseases	Adivada	1	29	2	31	0	0	0	29	2	31
24-Dec-2022	PF	Extension Education	Role of FPOs in Doubling farmers income	Entrepreneurial development of farmers/youths	Kahoda	1	40	0	40	0	0	0	40	0	40
26-Dec-2022	PF	Crop Production	Nutrient Management in Natural farming	Integrated Farming	KVK	1	6	39	45	0	0	0	6	39	45
28-Dec-2022	PF	Crop Production	Nutrient management in Natural Farming	Integrated Nutrient Management	KVK	1	32	0	32	0	0	0	31	0	32
29-Dec-2022	PF	Agricultural Engineering	harvesting technique of castor spike through improved small farm tools	Production of small tools and implements	KVK	1	31	0	31	0	0	0	31	0	31
30-Dec-2022	EF	Extension Education	Technical backstopping on Business plan for FPOs	Formation and Management of SHGs	KVK	2	14	0	14	5	0	5	0	0	19
					TOTAL		**2137**	**1429**	**3566**	**151**	**89**	**240**	**2261**	**1516**	**3806**