ICAR-ATARI, Pune

ANNUAL ACTION PLAN OF KVK GANDHINAGAR

(1st January to 31st December, 2022)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone Office	E mail	Website address
Krishi Vigyan Kendra, Gujarat Vidyapith, Randheja, Gandhinagar (Guj.) -382620	079- 23975223	kvkgandhinagar@gmail.com	www.kvkgandhinagar.org

1.2. Name and address of host organization with phone, fax and e-mail (Not of KVK)

Address with PIN code	Telephone		E mail	Website address
	Office	FAX		
Gujarat Vidyapith, Near Income Tax Circle, Ashram Road, Ahmedabad-380 014	079-27546767	079-27542547	registrar@gujaratvidyapith.org	www.gujaratvidyapith.org

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. V. K. Garg	079 23975223	9924171871	gargvk123@gmail.com

1.4. Year of sanction& type of host organization: 1977 (Deemed University)

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

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Pay Band	Current Grade Pay	Date of Joining	
1.	Senior Scientist and Head	Dr. V. K. Garg	Soil Science	37400-67000	10000	06-03-10	
2.	Subject Matter Specialist	H. N. Patel	Horticulture	15600-39100	7600	21-02-94	
3.	Subject Matter Specialist	Vinay Gour	Agronomy	15600-39100	7600	23-01-06	
4.	Subject Matter Specialist	Dr. P. V. Jadav	Animal Sci.	15600-39100	7600	01-07-08	
5.	Subject Matter Specialist	B. B. Hadiya	Agri. Ext.	15600-39100	6600	02-06-14	
6.	Subject Matter Specialist	Radhaben Chaudhry	Soil Science	15600-39100	5400	26-11-20	
7.	Subject Matter Specialist	-	-	-	-	-	
8.	Farm Manager	Vijay Modhvadiya	-	9300-34800	4200	03-04-21	
9.	Programme Assistant	Chandresh Gohil	Home Sci.	9300-34800	4200	20-11-20	
10.	Programme Assistant (Computer)	-	-	-	-	-	
11.	Assistant (Acct./Admn.)	Vishal Pithiya	-	9300-34800	4200	04-12-20	
12.	Stenographer	-	-	-	-	-	
13.	Driver 1	A. J. Damor	-	5200-20200	2400	06-09-06	
14.	Driver 2	-	-	-	-	-	-
15.	Supporting staff 1	Madhabhai	-	-	-	-	Out sourcing
16.	Supporting staff 2	Rameshbhai	-	-	-	-	Out sourcing

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	0.50
2.	Under Demonstration Units	0.50
3.	Under Crops	9.00
4.	Horticulture	9.00
5.	Pond	1.00
		20.00

1.7. Infrastructural Development:

A. Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	1996 1978-79	750	14,59,844.00 53,377.69			
2.	Farmers Hostel	ICAR		335				
3.	Staff Quarters	ICAR	1979-80 1983-84	560	118542.94 160782.49			
4.	Demonstration Units	ICAR	1978-79	200	28,995.00			
5	Fencing	ICAR	2006-07	3000 m	5,91,766.50			
6	Threshing floor	ICAR	2005-06	130	1,37,245.00			
7	Farm godown	ICAR	1978-79	300	122401.08			
8	Garage and grass godown	ICAR	1986-87	48	2,00,211.00			
9	Implement shed	ICAR	2010-11		301711.00			

B. Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero Jeep	2009-10	580412.60	144742	Good condition
Motor cycle	2010-11	45029	19229	Good condition
Tractor	2019-20	619916	1140 hrs.	Good condition

C. Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Portable TV	1987-88	7050	Not Working
VCR	1988-89	15725	Not working
Colour TV	2002-03	25260	Not working
Fax Machine with stabilizer	2002-03	10350	Not working
Computer (NATP)	2002-03	111865	Not Working
Soil Testing Lab Equipment	2004-05	626947=34	Not Working
DVD Player	2006-07	3700	Not Working

LCD Projector	2006-07	75400	Not Working
Digital Camera	2006-07	15250	Not Working
Handy cam (SONY)	2008-09	25000	Working
Disc Harrow	1978-79	5651	Working
Rotovator	2006-07	47000	Working
Aeroblast sprayer	2008-09	99500	Not working
Generator	2008-09	37972	Not working
Laserjet Printer (HP 1020)	2010-11	6150	Working
Voltage stabilizer (for lab)	2010-11	21417	Working
Seed cum Fertilizer Drill	2010-11	30000	Working
Rotary Tiller (weeder)	2010-11	51450	Not working
Power Sprayer with stand	2010-11	24925	Working
Computer (HP)- Two	2015-16	86259	Working
LCD projector (k-yan)	2016-17	100000	Working
Photocopier machine	2016-17	89550	Working
Water cooler with RO system	2016-17	80485	Working
Digital camera with zoom kit	2016-17	36000	Working
Computer (HP)	2016-17	36000	Working
LCD projector	2016-17	58995	Working
Projector screen	2016-17	3170	Working
Plastic tables	2016-17	35710	Working
Furniture (Table, chairs)	2016-17	66890	Working
Solar pump with drip irrigation system	2016-17	563267	Working
Levellor (reversible)	2019-20	23500	Working
Tractor wheel ring for puddling	2020-21	21000	Working
UPS	2020-21	17341	Working

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

S.No.	Particulars	Proposed date of meeting
1	Scientific Advisory Committee	December

2. DETAILS OF JURISDICTION AREA UNDER KVK (No. of talukas - 4)

Sr No.	Name of Taluka
1	Gandhinagar
2	Mansa
3	Kalol
4	Dehgam

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

S. No	Farming system/enterprise	Names of talukas covered
1	Agricultural + Animal Husbandry	Gandhinagar,Mansa,Kalol,Dehgam
2	Agricultural + Horticulture + Animal Husbandry	Gandhinagar,Mansa,Kalol,Dehgam
3	Cotton - Wheat	Mansa,Gandhinagar
4	Bajara- wheat	Dehgam,Mansa
5	Paddy- wheat	Gandhinagar,Kalol
6	Groundnut- potato	Gandhinagar,Dehgam

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	Agro climatic zone IV attributed under semi - arid condition	Rainfall	: 600-700 mm
		Soil type	: Loamy to sandy loam
		Temperature	: Max. - 4**5**°c, Min. - **10**°c
		Water table	: 400 to 700 ft.

b. Topography

S. No.	Agro ecological situation	Characteristics	
1	Semi arid	Rainfall	: 600-700 mm
		Soil type	: Loamy to sandy loam
		Temperature	: Max. - 43°c, Min. - 10°c
		Water table	: 400 to 700 ft.

2.3. Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Sandy to sandy loam	Low organic matter Particle size : 0.02 - 0.20 mm	1, 64, 954
2	Loamy	Moderate organic matter, Medium Water holding capacity	9,457

2.4. Area, Production and Productivity of major crops cultivated in the district (Ref. Year 2019-20)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Paddy (Kharif)	12132	28576	2355
2	Bajra (Kharif)	8354	24368	2917
3	Green gram	1724	1173	680
4	Groundnut	6193	15332	2476
5	Cluterbean	6831	6328	926
6	Castor	25329	59427	2346
7	Cotton	23588	77593	559
8	Pigeon pea	62	73	1181
9	Black gram	202	131	646
10	Sesamum	166	85	514
11	Wheat	29021	102778	3542
12	Mustard	539	999	1853
13	Fennel	1241	2207	1779
14	Tobacco	3547	9604	2708
15	Potato	9662	301459	31201
16	Chick pea	421	553	1313

Authentic Source (Deptt. of Ag., Zila Panchayat Gandhinagar)

2.5. Weather data (2021)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January		27.7	8.5	85.5	34.4
February		29.5	9.2	83.0	24.0
March		36.4	13.0	73.5	29.5
April		42.6	23.6	62.7	17.6
May		44.5	25.5	80.4	18.5
June	72	41.5	26.5	82.5	30.4
July	287	37.2	25.3	92.8	50.8
August	191	32.5	23.5	93.5	61.5
September	168	33.8	24.4	93.0	51.5
October	14	36.5	20.5	72.5	21.5
November	-	30.0	12.5	80.5	22.0
December	-	28.0	8.5	90.0	25.5
Total	**732**				

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district (Ref. Year 2019-20)

Category	Population	Production	Productivity
Cattle			
Crossbred	89600	160540 (tones milk)	6.429 ltr/day
Indigenous	71488	56840 (tones milk)	3.013 ltr/day
Buffalo	331367	263200(tones milk)	3.171 ltr/day
Sheep	14214	14580 (kg wool)	1.21 kg/year
Goats	74124	4620(tones milk)	0.271
Pigs	-		-
Rabbits	204		-
Poultry			
Farm poultry	125165	11.16 lakh egg	258 egg/year
Backyard poultry	8264	4.01 lakh egg	148 egg/year
Fish (Reservoir)	-	-	-

Source: 36th survey report of MLT (doah.gujarat.gov.in)

2.7. Details of Operational area / Villages

Name of taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Gandhinagar	Chekhlarani	Cotton, Castor, Wheat, Potato, Paddy,Animal Husbandry, vegetables	Low productivity of Field crops	Enhancing the productivity of major crops by use of high yielding varieties
	Magodi		Degradation of soil fertility	Natural Resource Management
	Moti Adaraj		Lack of knowledge about balance feeding	INM and IPM
	Jalund		Scarcity of labour	Nutritional Management in cattle
	Rupal		Low ground water table	Mechanization in agriculture
	Jakhora		High cost of cultivation	Nutritional management in farmers families

	Vasan		Judicious uses of chemical fertilizers and pesticides	Organic farming
			High Pest and disease incidence	ICT tools uses
				Soil health management
				Nutritional Kitchen gardening
Mansa	Kharna	Castor, cotton, Wheat, Pearl millet,Chickpea, Tobacco, Animal Husbandry, Fruits and Vegetables	Low productivity of Field crops	Enhancing the productivity of major crops
	Parsa		Low soil fertility	INM and IPM
	Govindpura		Lack of nutritious animal feed	Nutritional feed Mgmt. in cattle
	Rampura		Scarcity of labour	Fodder Management
	Shobhasan		Low ground water table	Mechanization in agriculture
	Bilodra		Poor post harvest management	Post Harvest management
	Limbodra		High Pest and disease incidence	Organic farming
	Delvad		Judicious uses of chemical fertilizers and pesticides	Nutritional Kitchen gardening
	Jamla		High cost of cultivation	Soil health management
	Dhendhu		Low market price of commodity	ICT tools uses
				Entrepreneurship development
Kalol	Paliyad	Castor, cotton, Paddy,Mustard, Wheat, Animal Husbandry, fruits,flowers& vegetables	Reproductive problems	Fodder Management
	Golathra		Scarcity of labour	Nutritional feed Mgmt. in cattle
	Khoraj Dabhi		Low ground water table	Scientific Dairy Mgmt.
	Chandisana		Low productivity of Field crops	Nutritional kitchen garden
	Dhanaj		Low soil fertility	Mechanization in agriculture
	Molasana		Low market price of commodity	Soil health management
	Pansar		Judicious uses of chemical fertilizers and pesticides	Organic farming
	Pratappura		High cost of cultivation	ICT tools uses
	Nava		High Pest and disease incidence	INM and IPM
Dehgam	Devkaran na muvada	Castor, Cotton, Wheat,Potato, Pearl Millet, Animal Husbandry, Vegetables	Imbalance use of fertilizer	Enhancing the productivity of major crops
	Motipura		Low ground water table	Natural Resource Management
	Bhumasiya		Soil health degradation	INM and IPM
	Arjanjina muvada		Scarcity of labour	Scientific Dairy Mgmt.
	Galajini muvadi		Reproductive Problems	Mechanization in agriculture
	Umedpura		Low soil fertility	Nutritional kitchen garden
			Judicious uses of chemical fertilizers and pesticides	Soil health management
			High cost of cultivation	ICT tools uses
			High Pest and disease incidence	Value addition
			Low market price of commodity	Entrepreurship development

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Cotton, Castor, Wheat, green gram	ICM, INM, IPM, Natural Resource Management
	Enhancing the productivity of major crops
Vegetable/fruit crop	Value Addition & Processing, ICM, INM, IPM
	Enhancing productivity of vegetables crops
Agricultural extension	Entrepreneurship development
	ICT tools in agriculture & allied
Animal Husbandry	Fertility Management, Nutrition Management, Disease Management Feed & Fodder Management
Soil Science	INM, Soil fertility management,Soil and Water Testing
Home Science	Value addition, Women and child care, Storage loss minimization

3. TECHNICAL PROGRAMME

3.1. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
9	90	134.5	608

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
105	2534	97	2500

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (No's)	Soil Samples
(5)	(6)	(7)	(8)
20			

3.1. B. Operational areas details proposed during 2022

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Cotton	Low productivity of crop Infestation of Diseases & Pests Degradation of soil fertility Scarcity of labour High cost of cultivation Use of locally available seeds No use of micronutrients and biofertilizers	Magodi, Kharna, chekhlarani, paliyad, motipura, jalund,parsa,pato	FLD, Training, Extension activities
2	Castor	Low productivity of crop High cost of cultivation	Chekhlarani, Parsa, Devkaran na muvada,	FLD, Training, Extension activities

		Infestation of Diseases & Pests Scarcity of labour Low ground water table	golathara, paliyad, kharna, motipura, khoraj dabhi, Bhavpura	
3	Wheat	Low productivity of crop High cost of cultivation Scarcity of irrigation water No use of micronutrients and biofertilizers	Chekhlarani, motipura, jakhora, khoraj dabhi, Moti adaraj	OFT, FLD, Training, Extension activities
4	Pulses	Low productivity of crop Infestation of Diseases & Pests No use of micronutrients and biofertilizers	Magodi, Jakhora, Golathra, Khoraj dabhi, Chekhlarani, motipura	OFT, FLD, Training, Extension activities
5	Fruits & Vegetable	Low productivity of crop High cost of cultivation Infestation of Diseases & Pests Arbitrary use of fertilizers	Motipura, Parsa, Kharna, paliyad, devkaran na muvada, chandisana, pato	OFT, FLD, Training, Extension activities
6	Animal Husbandry	Reproductive Problems, Lack of knowledge about balance feeding, Lack of nutritious feed	Chekhlarani, Kharna, Magodi, Govindpura, Paliyad, Moti adaraj, Bhavpura	OFT, FLD, Training, Extension activities

* Support with problem-cause and interventions diagram

3.2. Technologies to be assessed

A.1. Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	01				01					**02**
Integrated Nutrient Management	03		01			01				**05**
TOTAL	**04**		**01**		**01**	**01**				**07**

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Vermi culture	Fisheries	TOTAL
Disease of Management	01							
Value Addition								**01**
Feed and Fodder	01							**01**
TOTAL	**02**							**02**

B. Details of On Farm Trial / Technology Assessment during 2020

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention(Rs.)	Parameters to be studied	Team members
1	Wheat	Low Yield of late sown wheat due to high temperature	Assessment of Wheat variety GW-499	1.Farmers Practice: Lok-1 2.GW-173 3.GW-499	S.D.A.U	Seeds	750kg	2400	10	30000	Test weight, Seed Yield	Vinay Gaur
2	Chickpea	Low yield of Chickpea due to imbalance fertilization.	Integrated Nutrient management in Chickpea	1.Farmers Practice (N:P:S::30:50:0) 2. N:P:S::10:30:20) 3. Zinc Sulphate 25kg/ha + Spray of 2% urea at flowering and grain forming stage	S.D.A.U	Zinc Sulphate	65Kg	600	10	6000	Number of branches, Seed Yield	Vinay Gaur
3	Mango	Low yield due to Imbalance Potasic fertilizers	To maintain the health and yield of Mango tree by Foliar spray of KNO3.	T1-Farmers practices (Arbitrary use of Fertilizers) T2- SAU Recomondaed Dose of Fertilizers I.e. 750 + 160+750 grams per tree per year T3- Foliar spray of KNO3 @50 gm/10 ltr of water in july(2 spray), November (2 spray) and One spray in February	NAU, Navsari	KNO3 13:00:45 NPK	2 kg.	400	10	4000	Yield	H.N. Patel
4	Okra	Low yield due to viral YMV	Assessment of VIMUKTA cultivar	T1- Farmers variety (Use of pvt. Sector seeds) T2- Vimukta	MPKV Rahuri	Seeds of variety	2 Kg	900	10	9000	yield	H.N. Patel
5	Animal Husbandry	High incidence of Mastitis after calving in crossbred cows	Assessment of effect of supplementation of Vitamin E and Selenium supplementa	1 Farmer practice. Concentrate Feeds without Vitamin E & Selenium 2 Concentrate Feeds + Vitamin E 1000 IU & Selenium 4 mg during last 2 weeks of drying.	KVAFSU 2014	Vitamin E & Selenium (MnM) powder	900 gm	1000	10	10000	After calving Mastitis Incidence	Dr P V Jadav

			tion on prevention of Mastitis									
6	Sorghum	Low yield of fodder sorghum	Assessment of high fodder yielding variety	1 Farmer Practice Use of local variety 2 Recommended variety CSV 21F 3 Improved variety GFS-6	AICSIP 2006 NAU 2018	Seeds	20 kg	1300	10	13000	Green fodder yield	Dr P V Jadav
7	Wheat	Low yield	P & Zn management with bio-fertilizer	1. farmer practice (80:140:0) 2 RDF (120:60:00) 3. 30 kg P2O5 + PSB 30 g/kg seed + Inoculation of 20 kg VAM culture + 20 kg ZnSO4 /ha + RDN	SDAU-2019	PSB, VAM, $ZnSO_4$	PSB- 1 kg, VAM-5 kg, $ZnSO_4$-5 kg	1250	10	12500	Yield, Plant height, soil fertility	R. V. Chaudhary
8	Paddy	No proper use of N	Need based nitrogen management through Leaf Colour Chart	1. Farmer practices (140:0:0) 2. RDF (100:30:0) 3. 40N as basal + Nitrogen application as per LCC	NAU, 2017	LCC	1 LCC	200	20	2000	Cost of Nitrogen fertilizer, Yield	R. V. Chaudhary
9	Paddy	Low yield of Paddy due to pest infestation	Management of Paddy Leaf Folder	T1 : Farmer Practices- Farmers using Cartap4G, Fatera, Profenophose etc., insecticides @ 2.5gm/lit. water T2 : Spray Flubendiamide 20 WG	ARS, .AAU, Sansoli, 2020	Flubendiamide 20 WG	25gm/ 10 lit. water	Rs. 500	10	Rs. 5000	No. of plant per sq. meter % Pest infestation	Arvind Parmar

3.3. Frontline Demonstrations

A. Details of FLDs to be organized –

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer / demo.	Parameters identified
1	Wheat	GW-451	INM	GW-451 Jivamrut	Seed	Rabi 22-23	5	20	Seed Yield
2	Cumin	GG-4	Varietal Evaluation	GG-4	Seed	Rabi 22-23	2.5	10	Seed Yield
3	Fennel	GF-12	Varietal Evaluation	GF-12	Seed	Rabi 22-23	5	20	Seed Yield
4	Green Gram	GM-6/ GAM-5	Varietal Evaluation	GM-6, GAM-5 /Biofertilizers	Seed	Kharif 22-23	5	20	Seed Yield
5	Brinjal	Pvt.Sector	IPM	Foliar spray of NSKE 1% at 50 ml per 15 ltr. Of water during June,July and August.	NSKE 1% 20 Ltr.	Kharif 22-23	5	20	Fruit and shoot borer infestation per plant
6	Chilli	Local	INM	Foliar spray of Banana sap (psuedostem sap) spray in cowpea@ 150 ml per 15 ltr of water at every 15 days interval till last picking	Banana sap (psuedostem sap)	Kharif 22-23	10	40	yield
7	Cucumber	Hybrid	INM	Banana sap spray	Banana sap	Kharif 22-23	10	40	No. of Picking yield
8	Oat	JHO 99-2	Feed Mgmt	Introduction of improved variety	JHO 99-2 seed	Rabi 22-23	2	20	Fodder production
9	Gram	GG-5	INM	2% KNO_3 Spray @ flowering & pod development stage	KNO_3 Rs. 10000	Rabi-21	5.0	20	Yield
10	Wheat	GW-496	INM	Spray 1% solution of Grade-IV micro-nutrient mixture at 30, 40 & 50 DAS	Micro-nutrient mixture	Rabi-22	5	20	Yield
11	Cotton	Bt(BG-II)	INM	1% spray of 19-19-19 at flowering, ball formation and boll	19-19-19 NPK fertilizer	Kharif-22	10	40	Yield

				development stage					
12	Kitchen Gardening	Vegetable	Nutritional security	Vegetable seeds, Vermicompost, pheromone trap	Vegetable seeds+Vermicompost+Pheromone trap	Kharif/ Rabi 22-23	0.5	40	Yield (Kg.) Monthly Savings (Rs.)
13	Paddy	-	Pest Management (Stem borer & leaf folder)	Spray of Cartap hydrochloride 4G @ 25 kg/ha (1 kg a.i./ha)	Cartap hydrochloride 4G (1875g/ha) Rs 25000	Kharif-22	5	25	- % pest infestation - Yield - BCR
14	Wheat	-	Pest management (Termite)	Seed treated with Fripronil 5 EC 5ml in 50 ml water/kg seed (0.025 a.i. gm/ha)	Fripronil 5 EC (1250 Rs/lit.) Rs 5000	Rabi-22	10	25	- % pest infestation - Yield - BCR
15	Cabbage	-	Pest Management (Sucking pest & DBM)	Sprays of *Verticillium lecani* (2 X 106 cfu/g) 1.5 kg/ha at 40 and 60 DAT or spray of *Beauveria bassiana* (2 X 106 cfu/g) 1.5 kg/ha	Verticillium lecani or Beauveria bassiana	Rabi-22	5	25	- % pest infestation - Yield - BCR
Total							**85**	**385**	

Sponsored Demonstrations (CFLDs on O & P/Others)

S. No.	Crop	Variety	Season and Year	Area (ha)	No. of farmers
1	Castor (NFSM-Oilseeds)	GCH-8	Kharif 2022-23	20	40
2	Groundnut (NFSM-Oilseeds)	GJG-22	Kharif 2022	10	20
3	Sorghum (RFS-Dhamrod)	-	Kharif 2022	2	20
4	Mustard (NFSM-Oilseeds)	GDM-6	Rabi-2022	10	20

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	21	March, May, June, September, October, December, January,	1050
2	Farmers Training	25	May, June, July, August, October, Novembe, January, March	625

C. Details of FLD on Enterprises

a. Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Dibbler	Cotton	Kharif 2022	10	2.5	Dibbler	Labour saving, Germination %
Dibbler	Castor	Kharif 2022	10	2.5	Dibbler	Labour saving, Germination %

b. Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Buffalo	Mehsani	40	40	By pass Fat	Average daily Milk Production
Cattle	Cattle	05	05	Azolla	Milk Production
Cattle	HF Cross	20	20	Chelated Mineral mixture	Milk production, Service period.

c. Other Enterprises (Mushroom, Apiculture, Sericulture, Vermicompst, Value Addition, Women empowerment, etc)

Enterprise	Technology demonstrated	No. of farmers	No. of units	Critical inputs	Performance parameters / indicators
Vermicompost	Vermicompost preparation	8	8	Vermibed	Days of composting, quantity of compost/bed
Drumstick leaves powder	Drumstick leaves powder	10	10	Drumstick leaves powder	-BMI -Body weight (kg)
Revolving Stool and Milking Stand	Drudgery Reduction	10	10	Revolving Stool and Milking	Milking time Body Comfortability

3.4.Training (Including the sponsored and FLD training programmes):

A. ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies	02	28	10	38	03	01	04	42
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	06	116	9	125	5		5	130
Fodder production								
Production of organic inputs	03	40	30	70	-	2	2	72
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	05	100	-	100	25	-	25	125
Off-season vegetables								
Nursery raising	01	20	-	20	05	-	05	25
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards	01	20	-	20	05	-	05	25
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								

Production and Management technology	01	20	-	20	05	-	05	25
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	1	23	-	23	02	-	02	25
Soil and Water Conservation								
Integrated Nutrient Management	03	57	9	66	3	3	6	72
Production and use of organic inputs	1	22	-	22	03	-	03	25
Management of Problematic soils	1	22	-	22	03	-	03	25
Micro nutrient deficiency in crops	1	20	-	20	05	-	05	25
Nutrient Use Efficiency								
Soil and Water Testing	2	42	04	46	04	-	04	50
IV Livestock Production and Management								
Dairy Management	04	49	47	96	16	18	34	130
Poultry Management	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-
Rabbit Management/goat	-	-	-	-	-	-	-	-
Disease Management	02	14	14	28	06	16	22	50
Feed management	02	13	34	47	02	16	18	65
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	02	-	36	-	-	04	-	40
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	02	-	28	-	-	02	-	30
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	01	-	18	-	-	2	-	20
Rural Crafts								
Women and child care	01	-	18	-	-	02	-	20
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								

Integrated Pest Management	3	69	00	69	06	00	06	75
Integrated Disease Management								
Bio-control of pests and diseases	1	22	00	22	03	00	03	25
Production of bio control agents and bio pesticides								
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								
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								
X Capacity Building and Group Dynamics								
Entrepreneurship development in agriculture and allied	02	20	20	40	5	5	10	50
Use of ICT tools in agriculture & allied	01	25	-	25	-	-	-	25
Farmer producer organization (FPO)	02	50	-	50	-	-	-	50
Natural Farming	01	30	-	30	10	-	10	40
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL								
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								

Production of organic inputs	1	20	04	24	02	04	06	30
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	1	20	-	20	05	-	05	25
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Para vets								
Para extension workers								
Composite fish culture								
Small scale processing								
Post Harvest Technology	1	10	-	10	-	-	-	10
Tailoring and Stitching								
Rural Crafts								
TOTAL	**03**	**50**	**04**	**54**	**07**	**4**	**11**	**65**
(C) Extension Personnel								
Productivity enhancement in field crops	02	45	09	54	10	02	12	66
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify)								
TOTAL								
G. Total	**57**	**917**	**290**	**1107**	**133**	**77**	**200**	**1417**

B. OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	01	25	-	25	-	-	-	25
Resource Conservation Technologies	02	22	20	42	3	1	4	46
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	02	41		41	3		3	44
Fodder production								
Production of organic inputs	01	20	-	20	05	-	05	25
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	06	90	-	90	30	-	30	120
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
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								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants	01	15	-	15	05	-	05	20
d) Plantation crops								
Production and Management technology								
Processing and value addition								

e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology	01	15	-	-	05	-	05	20
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology	01	15	-	15	05	-	05	20
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	1	15	05	20	05	-	05	25
Soil and Water Conservation	1	20	-	20	05	-	05	25
Integrated Nutrient Management	3	59		59	13		13	72
Production and use of organic inputs	1	20	-	20	05	-	05	25
Management of Problematic soils								
Micro nutrient deficiency in crops	1	20	-	20	05	-	05	25
Nutrient Use Efficiency	1	20	-	20	05	-	05	25
Soil and Water Testing	2	35	05	40	10	-	10	50
IV Livestock Production and Management								
Dairy Management	03	17	38	55	4	16	20	75
Poultry Management	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-
Rabbit Management /goat	-	-	-	-	-	-	-	-
Disease Management	02	12	25	37	-	13	13	50
Feed management	01	06	09	15	05	05	10	25
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	02		36			06		42
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques	01		18			04		22
Value addition	02		40			04		44
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	01		18			02		20
Rural Crafts								

Women and child care	01		18			04		22
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	4	91	00	91	09	00	09	100
Integrated Disease Management								
Bio-control of pests and diseases	1	22	00	22	03	00	03	25
Production of bio control agents and bio pesticides								
VIII Fisheries								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
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								
X Capacity Building and Group Dynamics								
Marketing strategies in natural farming	02	30	10	40	5	5	10	50
Use of ICT tools in agriculture & allied	01	-	20	20	-	5	5	25
Farmer producer organization (FPO)	02	30	10	40	5	5	10	50
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	**48**	**640**	**272**	**782**	**135**	**70**	**185**	**1117**

C. Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	25	-	25	-	-	-	25
Resource Conservation Technologies	4	50	30	80	6	2	8	88
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	8	157	9	166	8	-	8	174
Fodder production								
Production of organic inputs	4	60	30	90	5	2	7	97
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	11	190	-	190	55	-	55	245
Off-season vegetables								
Nursery raising	01	20	-	20	05	-	05	25
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards	01	20	-	20	05	-	05	25
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants	01	15	-	15	05	-	05	20
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology	02	35	-	35	10	-	10	45

Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology	01	15	-	15	05	-	05	20
Post harvest technology and value addition	01	15	-	15	05	-	05	20
III Soil Health and Fertility Management								
Soil fertility management	2	38	05	43	07	-	07	50
Soil and Water Conservation	1	20	-	20	05	-	05	25
Integrated Nutrient Management	6	116	9	125	16	3	19	144
Production and use of organic inputs	2	42	-	42	08	-	08	50
Management of Problematic soils	1	22	-	22	03	-	03	25
Micro nutrient deficiency in crops	2	40	-	40	10	-	10	50
Nutrient Use Efficiency	1	20	-	20	05	-	05	25
Soil and Water Testing	4	77	09	86	14	-	14	100
IV Livestock Production and Management								
Dairy Management	07	66	85	151	20	34	54	205
Poultry Management	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-
Rabbit Management/goat	-	-	-	-	-	-	-	-
Disease Management	04	26	39	65	6	29	35	100
Feed management	03	19	43	62	7	21	28	90
Production of quality animal products	-	-	-	-	-	-	-	-
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	04	-	72	-	-	10	-	82
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques	1		18			04		22
Value addition	04		68			06		74
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	2		36			04		40
Rural Crafts								
Women and child care	2		36			06		42
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								

Integrated Pest Management	7	160	00	160	15	00	15	175
Integrated Disease Management								
Bio-control of pests and diseases	2	44	00	44	6	00	6	50
Production of bio control agents and bio pesticides								
VIII Fisheries								
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								
X Capacity Building and Group Dynamics								
Entrepreneurship development in agriculture and allied	02	20	20	40	5	5	10	50
Use of ICT tools in agriculture & allied	02	25	20	45	-	5	5	50
Marketing strategies in natural farming	02	30	10	40	5	5	10	50
Farmer producer organization (FPO)	04	80	10	90	5	5	10	100
Natural Farming	01	30	-	30	10	-	10	40
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
TOTAL								
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs	1	20	04	24	02	04	06	30
Integrated Farming								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	01	20	-	20	05	-	05	25

Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology	01	10	-	10	-	-	-	10
Tailoring and Stitching								
Rural Crafts								
TOTAL								
(C) Extension Personnel								
Productivity enhancement in field crops	02	45	09	54	10	02	12	66
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify)								
Total								
G. TOTAL	**105**	**1557**	**562**	**1889**	**268**	**147**	**385**	**2534**

Details of training programmes attached in Annexure -I

3.5. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	21									1050
Kisan Mela	-									
Kisan Ghosthi	03									150
Exhibition	-									
Film Show	04									150
Farmers Seminar	04									200
Workshop	-									
Group meetings	10									180
Lectures delivered as resource persons	Need base									-
Newspaper coverage	10									-
Popular articles	05									-
Extension Literature	06									-
Advisory Services	Need base									-
Scientific visit to farmers field	20									50
Farmers visit to KVK	Need base									-
Diagnostic visits	Need base									-
Ex-trainees Sammelan	01									50
Animal Health Camp	02									60
Celebration of important days (specify)	06									240
Pre Kharif workshop	-									-
Pre Rabi workshop	-									-
Swachhta Pakhwada	02									250
Night Goshthi	03									120
Total	**97**									**2500**

3.6. Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	GW-451, GW-499, GW-173	20
OILSEEDS			
PULSES			
VEGETABLES			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES				
	Neem oil	10000 ppm	-	3000
BIO FERTILIZERS				
	Vermicompost	Eisenia Foetida	-	20 tones

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
1	Cattle	HF	2	-

4. Literature to be Developed/Published

A. KVK News Letter

Date of start : July 2014

Number of copies to be published : 500

B. Literature developed/published

Sr.No.	Topic	Number
1	Research paper each scientist	01
2	Technical reports	02
3	News letters	02
4	Training manual all discipline	04
5	Popular article	02
6	Extension literature	05
	Total	**16**

C. Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette) and video clippings	Title of the programme	Number
1			

D.Success stories/Case studies identified for development as a case. -

a. Brief introduction
b. Interventions
c. Output
d. Outcomes
e. Impact
    i) Social economic
    ii) Bio-Physical
f. Good Action Photographs

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

A. Practicing Farmers

a) Base line survey by qauestionarrie method
b) Group discussion
c) Formation of SHGs
d) Seasonal crop basis

B. Rural Youth

a) Personal contact
b) Group discussion

To generate self-employment through small enterprises & skill based training programmes; various vocational training programmes in different disciplines are identified.

C. In-service personnel

a) Discussion/Interaction

Discussion with different line departments in the area during SAC meetings, need for in-service training is identified, planned and organized accordingly to satisfy desired needs.

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) PRA
ii) Field level observations
iii) Farmer group discussions

For FLD:

i) New variety/technology
ii) Poor yield at farmers level
iii) Existing cropping system

5.3. Field activities

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

Sr.No.	Village	Block	Year
1	Chekhlarani	Gandhinagar	2017
2	Magodi	Gandhinagar	2015
3	Jalund	Gandhinagar	2014
4	Rupal	Gandhinagar	2014
5	Moti Adaraj	Gandhinagar	2018
6	Paliyad	Kalol	2012
7	Golthara	Kalol	2010
8	Bhaupura	Kalol	2014
9	Chandisana	Kalol	2012
10	Khoraj dabhi	Kalol	2018
11	Kharna	Mansa	2014
12	Rampura	Mansa	2016
13	Parsa	Mansa	2016
14	Govindpura	Mansa	2011
15	Devkaran na muvada	Dehgam	2016
16	ArjanjinaMuvada	Dehgam	2016
17	Motipura	Dehgam	2016
18	Pato	Dehgam	2018
19	Sonarada	Gandhinagar	2019
20	Vankanerda	Gandhinagar	2019
21	Galudan	Gandhinagar	2019
22	Vira talavadi	Gandhnagar	2019
23	Babra	Dehgam	2019

ii. No. of farm families selected per village :35

iii. No. of survey/PRA conducted :12

iv. No. of technologies taken to the adopted villages: 13

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

Sr.No.	Name of crop/enterprise	Name of Variety /technology
1	Greengram	GAM-5
2	Castor	GCH-7
3	Fennel	GF-12
4	Wheat	GW-451
5	Cattle	Mineral mixture
6	Cattle	Bypass fat
7	Fodder Oat	JHO 99-2
8	Brinjal	paecelomysis lilasenus
9	Potato	PGPR

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

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	Wheat	Variety	GW-451	Training G.D. meeting Field Demonstration Method demonstration	20	350	150
2	Cotton	Variety	GTHH-49		12	225	120
2	Castor	ICM	GCH-7, Micronutrients, Bio fertilizer		38	1850	1050
3	Oat	Fodder Prod.	JHO 99-2		6	175	80
4	AH	Nutrition Mgmt.	Mineral Mixture		32	950	-
5	AH	Nutrition Mgmt.	Bypass Fat		8	150	-
6	Brinjal	IPM	Soil application of paecelomysis lilasenus 1% WP @ 4-5 kg. /ha at the time of sowing		12	600	150
7	Fennel	Variety	GF-12		08	250	50
8	Green Gram	ICM	GAM-5 variety, Sulphur, Micronutrients, liquid bio fertilizer		08	180	55
9	Potato	ICM	Seed treatment with PGPR @ 1 L/ha		06	150	40

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

6. LINKAGES

6.1. Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	SDAU, Dantiwada Kamdhenu university, Gandhinagar	- For arranging the FLDs - For conducting OFT - Technical support - Participation in meeting
2.	District Agriculture, Horticulture, Animal husbandry Departments	- Joint implementation of different extension activities - For conducting different demonstration - Participation in meeting
3.	Seed Corporation, Gandhinagar	- Timely availability of seed - Organizing seed multiplication programmes
4.	Co-operative dairy, Gandhinagar	- Participation in training programme
5.	GSFC/IFFCO/GUJCOMASOL/GGRC	- Timely availability of basic inputs - Capacity Building
6.	Co-operative institutes at District, Taluka & Village level	-Joint survey for arranging need base training Programmes - Participation in organizing extension activities
7.	State Horticulture Department	- Joint implementation of extension activities - Participation in demonstration
8.	District NGOs	- Joint participation in arranging training programmes for farm women & rural youth
9.	B. R .S colleges of the state	Participation in field work experience for students
10.	ATMA Scheme	Jointly organizing extension programmes, participation in meeting

6.2. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage
1	Farmer trg.	Technical support
2	Extension activities	Technical support

6.3. E-linkage during 2022

S. No	Nature of activities	Likely period of completion	Remarks if any
1	Title of the technology module to be prepared	-	
2	Creation and maintenance of relevant database system for KVK	-	

6.4. Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	-	
2	-	

6.5. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1	**-**	
2	**-**	

6.6. Additional Activities Planned including sponsored projects (ProCRA / Pro SOIL/NARI/DAESI/DAMU/ DFI, etc.) / schemes during 2022, if involved.

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
	-	-	-	-	-

7.0 Convergence with other agencies and departments: Arvind foundation

8. Innovator Farmer's Meet 2020

Sl.No.	Particulars	Details
	Are you planning for conducing Farm Innovators meet in your district?	No
	If Yes likely month of the meet	
	Brief action plan in this regard	

9. Farmers Field School (FFS) planned 2020

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.
	-	-	-

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

Feedback will be given in Annual Progress Report after implementation

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

11. Utilization of hostel facilities

S. No.	Programme	No. of days
1	On campus	52
2	Exposure tours & Sponsored programme	05
3	Other guests & RAWE students	25
	Total	**82**

Annexure - I

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
01/01/22	PF	Production technology of Organic wheat	01	20	-	20	01	-	01	21
07/02/22	PF	Principles and steps of adoption of organic farming	01	18	-	18	02	-	02	20
09/05/22		ICM in green gram	01	19	1	20	-	-	-	20
20/06/22	PF	Production technology of Kharif Groundnut and sesame	01	17	03	20	01	-	01	21
26/07/22	PF	Production technology of Castor	01	25	-	25	-	-	-	25
04/08/22	PF	INM in Castor	01	20	4	24	2	-	2	26
14/09/22	PF	Preparation of compost and Vermicompost	01	-	20	20	-	2	2	22
03/10/22	PF	Scientific cultivation of cumin	01	20	-	20	2	-	2	22
10/11/22	PF	ICM in Wheat	01	15	5	20	1	-	1	21
12/12/22	PF	Organic Farming	01	10	10	20	1	1	2	22
Horticulture										
16/6/22	PF	Nursary mngt & Production technology of vegetable crops	01	20	-	20	05	-	05	25
5/6/22	PF	INM technology of old orchards of Mango	01	20	-	20	05	-	05	25
1/7/22	PF	INM in cucumber	01	20	-	20	05	-	05	25
12/7/22	PF	Production technology of chilli	01	20	-	20	05	-	05	25
21/7/22	PF	Production technology of Vine crops	01	20	-	20	05	-	05	25
28/7/22	PF	Production technology of cowpea	01	20	-	20	05	-	05	25
2/1/23	PF	Production technology of Okra	01	20	-	20	05	-	05	25
30/5/22	PF	Production technology of Brinjal	01	20	-	20	05	-	05	25
Livestock prod.										
27-29/01/22	PF/FW	Scientific Dairy Management	03	15	20	35	02	03	05	40
10-12/02/22	PF/FW	System of calf feeding and calf management	03	10	22	32	03	05	08	40
08-10/03/22	PF/FW	Feed and fodder management of livestock	03	08	24	32	02	06	08	40
06/04/22	PF/FW	Production technology of fodder crops	1	05	10	15	0	10	10	25
16/06/22	PF/FW	Nutritional management of dairy animals	1	14	0	14	6	05	11	25
17/08/22	PF/FW	Integrated management for control of mastitis in crossbred cows	1	10	05	15	05	05	10	25
29/10/22	PF/FW	Importance of ITK in dairy management	1	8	7	15	2	8	10	25
09/11/22	PF/FW	Importance of preventive measures to control diseases in dairy management	1	6	7	13	4	8	12	25
Soil Science										
21/01/22	PF/FW	Method of soil & water sampling	01	21	02	23	02	-	02	25
15/02/22	PF/FW	Nutrient management in Groundnut	01	15	05	20	02	03	05	25
16/03/22	PF/FW	Soil & water sampling methods	01	21	02	23	02	-	02	25

14/04/22	PF	Soil health card	01	23	-	23	02	-	02	25
10/06/22	PF/FW	Role of bio-fertilizer in soil productivity	01	21	02	23	02	-	02	25
13/09/22	PF/FW	Organic sources of nutrients	01	20	04	24	02	04	06	30
28/10/22	PF/FW	INM in wheat	01	20	03	23	02	-	02	25
29/11/22	PF	Micronutrients management in soil	01	20	-	20	05	-	05	25
Agri.Extension										
16/02/22	PF	Use of ICT tools in agriculture & allied	01	25	-	25	-	-	-	25
12/04/22	FW	Entrepreneurship development in agriculture and allied	01	-	20	20	-	5	5	25
16/06/22	PF	Farmer producer organization (FPO)	01	20	-	20	5	-	5	25
24/08/22	PF	Entrepreneurship development in agriculture and allied	01	25	-	25	-	-	-	25
20/10/22	PF	Farmer producer organization (FPO)	01	25	-	25	-	-	-	25
Home Science										
25/01/22	FW	Women and child care	1		18			2		20
12/04/22	FW	Location specific drudgery reduction technologies	1		18			2		20
15/06/22	FW	House hold food security by Kitchen Gardening & Nutritional Gardening	1		18			2		20
10/08/22	FW	Value addition of vegetable /fruits	1		18			2		20
10/10/22	FW	House hold food security by Kitchen Gardening & Nutritional Gardening	1		18			2		20
25/12/22	FW	Value addition of vegetable /fruits	1		18			2		20
Plant Protection										
18-01-2022	PF	Cabbage pest and disease and its biological management	1	22	0	22	3	0	3	25
21-06-2022	PF	Major Pest and Diseases of Ground nut and its Management	1	23	0	22	3	0	3	25
16-07-2022	PF	Identification of major Pest & Disease of Paddy and its Management Paady	1	20	0	20	5	0	5	25
25-11-2022	PF	Important of Seed treatment in Pest and Diseases management in Wheat	1	23	0	23	2	0	2	25
14-12-2022	PF	Honey bee cultivation	1	22	00	22	03	00	03	25

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
21/03/22	PF	INM in summer pulses	01	22	-	22	03	-	03	25
20/04/22	PF	Preparation of various types of compost	01	20	-	20	05	-	05	25
16/05/22	PF	HDP technology of Bt. Cotton cultivation	01	19	-	19	03	-	03	22
14/06/22	PF	Importance and uses of Biofertilizers in pulses	01	22	-	22	-	-	-	22
16/08/22	PF	INM in castor	01	17	-	17	05	-	05	22
24/10/22	PF	Organic farming	01	22	-	22	03	-	03	25
25/11/22	PF	Weed management in wheat	01	25	-	25	-	-	-	25
20/12/22	PF	Uses of Waste Decomposer	01	-	20	20	-	01	01	21
Horticulture										
16/01/22	PF	Production technology of cole crops	01	15	-	15	05	-	05	20
25/3/22	PF	INM in Brinjal	01	15	-	15	05	-	05	20
20/6/22	PF	Production technology of cowpea	01	15	-	15	05	-	05	20
5/10/22	PF	Production technology of potato	01	15	-	15	05	-	05	20
11/10/22	PF	Production technology of Vine crops	01	15	-	15	05	-	05	20
20/10/22	PF	Production technology of medicinal crops	01	15	-	15	05	-	05	20
20/11/22	PF	Production technology of Okra	01	15	-	15	05	-	05	20
22/02/23	PF	Production technology of Gaillardia	01	15	-	15	05	-	05	20
Animal Husbandry										
17/01/22	PF/FW	Scientific dairy management	1	04	15	19	01	05	06	25
10/02/22	PF/FW	Care and Mgmt of dairy animals in summer	1	05	15	20	0	05	05	25
18/06/22	PF/FW	Diseases of dairy animals and their preventive measures	1	02	20	22	0	03	03	25
16/08/22	PF/FW	Reproductive diseases and their remedial measures	1	6	9	15	5	5	10	25
05/10/22	PF/FW	Production technology of fodder crops	1	8	8	16	3	6	9	25
20/11/22	PF/FW	Care and Mgmt of dairy animals in winter	1	10	5	15	0	10	10	25
Soil Science										
28/01/22	PF/FW	Method of Soil & water sampling	1	20	02	22	03	-	03	25
16/02/22	PF/FW	In-situ residue management	1	15	05	20	05	-	05	25
12/04/22	PF/FW	Method of Soil & water sampling	1	15	03	18	07	-	07	25
11/05/22	PF	Production of organic inputs	1	20	-	20	05	-	05	25
10/06/22	PF	Soil & water conservation	1	20	-	20	05	-	05	25
05/10/22	PF	Integrated nutrient management in wheat	1	20	-	20	05	-	05	25
01/11/22	PF	Methods for increasing nutrient use efficiency	1	20	-	20	05	-	05	25
08/12/22	PF	Nutrients deficiency symptom	1	20	-	20	05	-	05	25
Agri.Extension										
22/03/22	PF/FW	Marketing strategies in natural farming	01	15	5	20	3	2	5	25
18/05/22	PF/FW	Farmer producer organization (FPO)	01	15	5	20	3	2	5	25
15/07/22	PF/FW	Marketing strategies in natural farming	01	15	5	20	3	2	5	25
21/09/22	FW	Use of ICT tools in agriculture & allied	01	-	20	20	-	5	5	25

18/11/22	PF/FW	Farmer producer organization (FPO)	01	15	5	20	2	3	5	25
Home Science										
20/02/22	FW	Women and child care	1		18			4		22
15/03/22	FW	Storage loss minimization techniques	1		18			2		20
20/05/22	FW	Value addition of vegetable /fruits	1		20			2		22
10/07/22	FW	House hold food security by Kitchen Gardening & Nutritional Gardening	1		20			2		22
8/09/22	FW	Location specific drudgery reduction technologies	1		18			4		22
10/11/22	FW	House hold food security by Kitchen Gardening & Nutritional Gardening	1		20			2		22
12/12/22	FW	Value addition of vegetable /fruits	1		20			2		22
Plant Protection										
9-01-2022	PF	Pest and Diseases management of Mustard	1	23	0	23	2	0	2	25
10-02-2022	PF	Termite and Rust management in Wheat	1	23	0	23	2	0	2	25
25-02-2022	PF	Biological management of Cabbage pest	1	22	0	22	3	0	3	25
05-06-2022	PF	Integrated Pest and diseases management in Groundnut	1	23	0	23	2	0	2	25
08-08-2022	PF	Pest and diseases management of Paddy	1	23	0	23	2	0	2	25

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
MAP crops	ICM	Value addition of aromatic crops	01	20	-	20	5	-	5	25	25
Value addition	Processing technology	Entrepreneurship development	01	10	-	10	-	-	-	10	10

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
06/06/22	Agril. supervisors	Production technology of Kharif crops	01	30	04	34	05	02	07	41
10/08/22	VLWs	Production of Low cost Botanical extract	01	15	5	20	5	-	5	25
Total				**45**	**09**	**54**	**10**	**2**	**12**	**66**

iv) Sponsored programmes

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
Sponsored training programme											
Agronomy	D.A.O	PF	INM in Oilseeds	01	22	-	22	-	-	-	22
Agronomy	ATMA	PF	Prakrutik Kheti	02	40	10	50				50
Ag.Extension	KRUBHCO	PF	Natural farming	01	30	-	30	10	-	10	40
			Total								

Annexure - II

Details of Budget Estimate (2022-23) based on proposed action plan

S. No.	Particulars	BE 2022-23 proposed (Rs. In lakh)
1	**Recurring Contingencies**	
1.1	**Pay & Allowances**	190
1.2	**Traveling allowances**	2.0
1.3	**Contingencies**	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	8
B	POL, repair of vehicles, tractor and equipments	
C	Meals/refreshment for trainees	10
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	
G	Training of extension functionaries	
H	Maintenance of buildings	
I	Establishment of Soil, Plant & Water Testing Laboratory	
J	Library	
	TOTAL Recurring Contingencies	210
2	**Non-Recurring Contingencies**	
2.1	**Works**	45
2.2	**Equipments including SWTL & Furniture**	6
2.3	**Vehicle** (Four wheeler/Two wheeler, please specify)	12
2.4	**Library** (Purchase of assets like books & journals)	
	TOTAL Non-Recurring Contingencies	
3	**REVOLVING FUND**	
	GRAND TOTAL	