ANNUAL PROGRESS REPORT

Year: 2022

[Period: January 2022 – December 2022]







Sanosara, *Ta:*Sihor, *Dist:* Bhavnagar (Gujarat) - 364 230 *E-mail:* kvkbhavnagar@gmail.com

ANNUAL PROGRESS REPORT

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ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT Krishi Vigyan Kendra - Bhavnagar

(January 2022 to December 2022)

1. GENERAL INFORMATION ABOUT THE KVK

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

	Telephone			Website address
Address with PIN code	Office	FAX	E mail	& No. of visitors (hits)
Krishi Vigyan Kendra, Lokbharati Gramvidyapith, At: Sanosara, Ta.:Sihor, Dist Bhavnagar (Guj.)- 364230	(02846) 283777	283999	kvkbhavnagar @gmail.com	https://lokbharti.or g//Krishi-Vigyan- Kendra

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

Address	Telep	hone	E mail	Website address
Auuress	Office	FAX	E man	website aduress
Lokbharati Gramvidyapith Trust, At:			Lokbharti	www.lokbharti.o
Sanosara, Ta.:Sihor, Dist. Bhavnagar	(02846) 283528	283528	@lokbharti	rg
(Guj.)-364230			.org	

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

Nama	Telephone / Contact			
Name	Office	Mobile	Email	
Dr. N. P. Shukla	(02846) 283777	09426895354	nigamshukla@gmail.com	

1.4. Year of sanction: 2009

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

SI.						nanent, ndicate	
No ·	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	Curren t Pay Band	Curren t Grade Pay	Date of joining
1.	Senior Scientist and Head	Dr. N.P. Shukla	9426895453	Plant Protection	166400	-	13/10/201 0
2.	Subject Matter Specialist	Mrs. S. N. Boricha	9978745959	Home Science	73200	-	07/08/201 2
3.	Subject Matter Specialist	Vacant	-	Horticultur e	-	-	-
4.	Subject Matter Specialist	Mr. P. M Kyada	9726396836	Agri. Engg.	69000	-	27/08/201 4
5.	Subject Matter Specialist	Dr. V. R. Desai	9427595990	Animal Husbandry	69000	-	02/09/201 4
6.	Subject Matter Specialist	Mr. J. K. Kantariya	7698369732	Agronomy	65000	-	28/02/201 7
7.	Subject Matter Specialist	Dr. Saroj Chaudhary	8469478385	Agriculture Extension	65000	-	05/03/201 7
8.	Programme Assistant	Mr. P. J. Rathod	9978945445	Soil Science	52000	-	10/05/201 1
9.	Computer Programmer	Mr. P. M. Mehta	9879407582	Computer	53600	-	1/10/2010
10.	Farm Manager	Mr. V. B. Savani	9979272288	Horticultur e	50500	-	15/08/201 2
11.	Accountant/Super intendent	Mr. V. B. Makavana	9426550258	Commerce	53600	-	1/10/2010
12.	Stenographer	Vacant	-	-	-	-	-
13.	Driver 1	Mr. P. M. Rathod	9408373919	-	30200	-	1/10/2010
14.	Driver 2	Mr. P. S. Gameti	9727455394	-	30200	-	1/10/2010
15.	Supporting staff 1	Mr. R. B. Naiya	9825768357	-	25600	-	1/10/2010
16.	Supporting staff 2	Mr. D. P. Vagela	9726379644	-	25600	-	1/10/2010

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	2.4
2.	Under Demonstration Units	-
3.	Under Crops	9.5
4.	Horticulture	-
5.	Pond	-

Infrastructural Development: Buildings 1.7.

A)

			Stage					
S.		Source of	Complete			Incomplete		
No.	Name of building	funding	Completion Year	Plinth area (Sq.m)	Expenditure (Lakh Rs.)	Starting year		Status of construction
1.	Administrative Building	ICAR	2012	546.32	54.00			
2.	Farmers Hostel	ICAR		303.56	30.00			
3.	Staff Quarters (6)	ICAR	2012	399.97	40.00			
4.	Plug Nursery	Dept. of Horticulture, Bhavnagar	2016	1 Ha	30.00			
5	Rain Water harvesting system	Host Institute	-	-	-	-	-	-
6	Threshing floor	ICAR	2017	83.54	0.69	-	-	-

B) Vehicles

<u>b)</u> venicies				
Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Bolero)	2009-10	6,03,650.00	225000 km	Working Condition
Tractor with Trolley	2009-10	6,02,923.00	4780 hrs	Working Condition

C) Equipment & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Computer with Accessories (6)	2010-11/2015-16	2,99,350.00	Under use
Photo copier Machine with duplex, stabilizer, Trolley & Accessories (2)	2010-11/2016-17	2,18,700.00	Under use
Fax Machine with Acrylic cover	2010-11	09,000.00	Under use
LCD Projector with laptop & other accessories (2)	2011-12/2015-16	1,60,450.00	Later one is under use
Digital Camera with accessories (2)	2011-12 / 2015-16	53300.00	Under use
LED television set	2015-16	32200.00	Under use
Office furniture	2016	654250.00	Under use

Name and Designation of Participants	Salient Recommendations	Action taken
Dr. H. M. Gajipara, Director of Extension Education, JAU, Junagadh	Suggested to organize FLDs and OFTs regarding the Prakrutik Krishi. Suggested to contact Cattle Breeding Farm, Junagadh for AI doses and also increase the AI practice in the district. Suggested to contact Dept. of Agri. Extension for the reformation of the new technical programme of Agri. Extn. Suggested to promote Prakritik Krishi in the district.	The FLDs and OFTs incorporated in AAP accordingly. KVK planned to spread the AI practice in the district with the help of CBF, Junagadh. The new technical programme has reformed with the help of Dept. of Agri. Extn., JAU, Junagadh. KVK planned trainings, lectures and farmers meeting for the promotion of Prakritik Krishi.
Dr. D. S. Hirapara, I/C, Associate Director of Research & Research Scientist and Head, MDFRS, JAU, Targhadia	Suggested to verify the sample size of the New technical programme of Ag. Engg. with the help of Department of Statistic, JAU, Junagadh.	The new technical programme modified with the help of Statistic Department, JAU, Juanagdh.
Dr. H. C. Chhodvadiya, Associate Extension Educationist, DEE, JAU, Junagadh	Suggested to conduct FLDs on Organic Farming.	KVK has conducted FLDs on Organic Farming in upcoming year.
Mr. Dipakkumar B. Khalas, DDM, NABARD, Bhavnaar	Suggested to promote FPOs in the district.	KVK has conducted various activities for promotion of FPOs in the farming communities.
Mr. M. B. Vaghamsi, Dy. Director of Horticulture, Bhavnagar	Suggested to promote various schemes of Dept. of Horti. to the fruits and vegetables growers.	KVK has organized the various extension activities to promote schemes of Horticulture department.
Dr. N. P. Shukla, Sr. Scientist & Head, KVK – Bhavnagar	Suggested to incorporate the NPK nutrients in the new technical programme of Agri. Engg. For batter out comes. Suggested to change the PI and Co- PI of the new technical programme. Suggested to Plan FLDs in Integrated manner, incorporate best animal practices in a single FLD. Suggested to change the Title of New technical programme Agri. Extn.	Reformed the new technical programme accordingly. KVK has organized FLD based on the Suggestion. Title of New technical programme of Agri. Extn. revised
Mr. D. N. Zala, Program Officer, CSPC – Tata Trust, Talaja	Suggested to promote silage in the District.	KVK has created awareness programmes for promotion of Silage making in the district.

1.8. Details of SAC meeting conducted in the year 2022 (Conducted on 11/02/2022)

Name and Designation of ParticipantsSalient Recommendations		Action taken
	Suggested to increase horizontal spread	
	of Super Nappier Grass Pakchong and	
	Salinity tolerant Wheat variety KRL –	Various extension activities like
	210 in the district.	Trainings, Seminars and lectures have
	Suggested to conduct at least one	been planned and conducted to
	training of students of B.Voc. for	promote wheat variety KRL – 210 and
Mrs. P.K. Butani,	ARYA project awareness.	Super nappier grass pakchong in the
Assistant Extension	Suggested to include OFT on Super	district.
Educationist, DEE, JAU,	nappier grass Pakchong in the Action	The trainings for the students has been
Junagadh.	plan.	organized under ARYA Project.
	Suggested to prepare questionnaires	The OFT conducted accordingly.
	and study the horizontal spread of	KVK has conducted a survey to study
	Bhindi Plucker in the district, and	the horizontal spread of Bhindi
	based on the study the scale should be	Plucker.
	developed and it should be published	
	on the Websites.	
Dr. G.S. Dave, Dy.	Suggested to aware farmers regarding	Trainings on Integrated Nutrient
Director of Agriculture	Urea application in Groundnut and	Management in Groundnut and
(Extension), Bhavnagar	Chickpea.	Chickpea has been conducted.

2. DETAILS OF JURISDICTION AREA UNDER KVK (No. of talukas): Ten (10)

S. No	Farming system/enterprise
1	Agricultural + Animal Husbandry
2	Agricultural + Horticulture
3	Agricultural + Horticulture + Animal Husbandry
4	Animal Husbandry
5	Agriculture

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

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

Sl. No.	Agro- climatic Zone	Characteristics
1	South Saurashtra Agro Climatic Zone	This zone includes part of Sihor, Bhavnagar, Ghogha, Gariadhar, Palitana, Jesar, Talaja, &Mahuva Talukas of Bhavnagar district. The region receives 625-750 mm of rainfall. The soil type is Shallow medium black calcareous soils. Surface colour of the soil is Very dark grey to dark grayish and dark brown. Main crop of these region are Groundnut, Cotton, Wheat, Pearl millet, Sorghum & Sugarcane.
2	North Saurashtra Agro Climatic Zone	This zone includes part of Umrala, part of Sihor, Bhavnagar, Ghogha, Gariadhar, Palitana, Vallabhipur Talukas of Bhavnagar district. The region receives 400-700 mm of rainfall. Soil type is Shallow and medium black. Surface colour of the soil is Very dark brown to very greyish brown. Main crop of these regions is Groundnut, Cotton, Wheat, Pearl millet, Sorghum & Sugarcane.
3	Bhal & Costal region	This zone includes Parts of Vallabhipur, Umrala and Bhavnagar talukas of Bhavnagar district. The region receives 625-1000 mm of rainfall. Soil type is Medium black, poorly drained and saline soil. Surface colour of the soil is Dark brown, to dark, Grayish brown. Main crop of these regions is Groundnut, Cotton, Pearl millet, rainfed wheat and Pulse, & Sorghum.

b) Topography

<u> </u>	Topograj	лу					
S.	Agro-				Charac	teristics	
S. No	climatic	Name of AES	Block covered	Rainfall	General Fertility		
INU	Zone			(mm)	Ν	Р	K
1	South	Medium black soils with	30 % Mahuva				
	Saurashtra	medium rain fall	25 % Talaja				
	Agro		10 % Ghogha				
	Climatic	Costal alluvial soils with	40 % Mahuva		Madina		High
	Zone	medium rainfall	60 % Talaja	625-750	Medium to high		
			20 % Ghogha				
		Shallow black soil with	30 % Mahuva				
		medium rainfall	15 % Talaja				
			70 % Ghogha				
2	North	Medium black soil with 400-	100 % Umarala				
	Saurashtra	500 mm rainfall					
	Agro	Medium black soil with 500-	30 % Gariyadhar	400-700	Medium	Low	Low to Medium
	Climatic	600 mm rainfall		400-700	to high	LOW	
	Zone	Hilly soil with 500-600 mm	30 % Palitana				
		rainfall	20 % Sihor				
3	Bhal&	Black clay soil with medium	24.3 %	625-			
	Costal	rainfall	Vallabhipur	1000	Poor	Medium	Medium
	region			1000			

2.3 Soil Types

S. No	Soil type	Characteristics	Area (Lakh ha)
1	medium black	Soil texture is clay loam to clay, soil depth is moderate to deep (25 to 75 cm) and availability of nitrogen content medium to high, phosphorus content low and potash content is high	3.08
2	Shallow medium black	Soil texture is clay loam to clay, soil depth is moderate deep to deep (30 to 80 cm) and availability of nitrogen content medium to high, phosphorus content low and potash content is low to medium	1.54
3		Soil texture is silty clay loam to silty clay and clay, soil depth is deep to very deep (>90 cm) and availability of nitrogen content low, phosphorus and potash content medium	0.87

2.4. Area, Production and Productivity of major crops cultivated in the district (2020-21)

S. No	Crop	Area (ha)	Production (MT)	Productivity (Qt./ha)
A). Se	asonal field Crops	· · ·		
1	Cotton	224301	732921	672.15
2	Kharif Groundnut	117204	220202	1879.79
3	Wheat	23644	76902	3252.48
4	Chickpea	21704	51851	2389
5	Kharif Pearl millet	17745	34281	1931.8
6	Summer Groundnut	8008	17035	2127.19
7	Summer Pearl millet	5584	15149	2713
8	Kharif Sesame	3624	1027	283.43
9	Green Gram	1354	479	354
10	Pigeon Pea	1042	1236	1185
11	Black Gram	373	132	353
		Source: Dept. of	f Agriculture, District Panch	ayat, Bhavnagar (2020-21)
B). Ho	orticulture crop			
I) Fru	its crops			
1	Citrus	6536	80720	12.35
2	Mango	4854	37764	7.78
3	Coconut	3612	35723	9.89
4	Guava	3536	37340	10.56
5	Sapota	1831	19134	10.45
6	Banana	1167	53845	46.14
7	Custard Apple	1017	13536	13.31
8	Ber	871	9476	10.88
9	Pomegranate	508	6360	12.52
10	Papaya	216	8113	37.56
II) Ve	getable crops			
1	Onion	46000	1191400	25.90
2	Brinjal	2050	41656	26.32
3	Tomato	1342	31134	23.20
4	Okra	619	8171	13.20
5	Chilly	355	596	1.68
6	Cucurbits	1508	21532	14.28
III) Fl	lower crops			
1	Rose	746	634	8.57
2	Merigold	89	779	8.75
			Source: District Horticul	ture Department (2020-21)

2.5. Weather data (2022)

		Tempe	Average	
Month	Rainfall (mm)	Maximum	Minimum	Relative Humidity (%)
January - 22	0	26.5	13.3	45
February - 22	0	28.2	16.4	48
March - 22	0	35.4	25.4	50
April - 22	0	37.6	23.8	44
May – 22	0	39.4	25.9	53
June - 22	53	34.5	27.1	64
July-22	230	33	26	75
August-22	151	32.2	24.8	80
Sep-22	124	33	24.1	75
Oct-22	21	34.2	22.4	56
Nov-22	0	31.7	17.9	49
Dec-22	0	28.6	14.1	50
Total	579	-	-	-

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

11492	12.74 x 10^3 Ton / yr	9 419 ha mills (desu/animal
	12.74×10^3 Ton / vr	9,419 les mille /deex/enimel
220551	120, 011 10 1011/ 31	8.418 kg milk /day/animal
328571	130.04 x 10^3 Ton /yr	4.131 kg milk /day/animal
334140	$212.64 \text{ x } 10^3 \text{ Ton /yr}$	4.551 kg milk /day/animal
258267	436060 kg /yr	1446 gm wool/sheep/yr
199173	$16.32 \text{ x } 10^3 \text{ Ton /yr}$	0.487 kg milk /day/animal
16637	10.45 lakh / yr	119 eggs/layer/yr
1042000	1805.78 lakh / yr	295 eggs/layer/yr
	334140 258267 199173 16637 1042000	334140 212.64 x 10 ³ Ton /yr 258267 436060 kg /yr 199173 16.32 x 10 ³ Ton /yr 16637 10.45 lakh / yr

*(Source: 18th livestock census, Dept. of Animal Husbandry, Gujarat).

2.7. Details of Operational area / Villages

S. No.	Major crops & enterprises in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem	Names of Cluster Villages	Intervention
1	Cotton	Infestation of Pink Boll Worm	50 per cent	Hadmatiya, Ratanvav,	OFT, FLD, Field day, Trainings, Scientist's
		Intensive mono cropping	45 per cent	Chamardi,	visit to farmers field,
		Stagnant / decreasing productivity	72 per cent	Thasa, Mandavi,	Group meetings, Distribution of
		Para wilt	45 per cent	Thonda,	literature, Soil Health
		Labour scarcity	75 per cent	Ramanka	card
		Poor nutrition management Practices	68 per cent		
2	Groundnut	Infestation of whitegrub	38 per cent	Thadach,	OFT, FLD, Field day,
		Low productivity in summer groundnut due to heat wave	50 per cent	Devadiya, Thadiya Maliya,	Training, Field Visits, Telephonic helpline, Distribution of
		Sporadic incidence of	15 per cent	Timana,	literature, soil Health
		wire worm		Medha	Card
		Lack of awareness about INM	65 per cent		

3	Sesame	Lack of awareness regarding nutrition	65 per cent	Thonda, Mandavi,	FLD, Field day, Training, Field Visits,	
		management practices Water scarcity for summer cultivation	80 per cent	Ratanvav, Timana	Soil Health Card	
4	Chickpea	Poor Nutrient Management Practices,	45 per cent	Ratanpar, Monpar, Chamardi	OFT, FLD, Filed day, Training, Field Visits, Telephonic helpline,	
		Lack of awareness regarding moisture conservation practices	50 per cent		Distribution of literature, soil Health Card	
		Poor Integrated pest management practices	65 per cent			
5	Green gram / Black gram	Poor adoption due to wild animals, fluctuating market prices	75 per cent	Thadiya, Chamardi, Monpar,	Training, Field Visits, Telephonic helpline	
		Lack of knowledge regarding latest recommended varieties	65 per cent	Virpur, Chok		
6	Wheat	Lack of irrigation management	55 per cent	Maliya, Kumbhan,	OFT on Soil Moisture Indicator for Irrigation	
		Poor nutrition management practices	60 per cent	Shobhavad	Management, FLD, Field day, Training, Field Visits, Soil Health Card, Printed literature	
7	Fodder crops	Cultivation of old variety Poor nutrition	65 per cent 65 per cent	Ratanpar, Virpur,	Training, FLD on chaff cutter and	
		management No use of chaff cutter for fodder	75 per cent	Ishora,	Variety CoFS – 29, Field visits, Filed Day, Literature distribution,	
		Poor Knowledge of newly recommended variety / fodder crops	70 per cent		Soil Health Card distribution	
8	Onion	Infestation of thrips	68 per cent	Trapaj,	Training, Field Visits,	
		Lack of adoption of newly recommended varieties	70 per cent	Dakana, Maliya, Medha,	Soil Health Card, Printed literature	
		Labour scarcity for transplanting	70 per cent	Kumbhan, Shevadivadar		
		Injudicious use of chemicals	65 per cent	Chok		
-		Nematode infestation	50 per cent			
9	Brinjal	Poor Nutrition management	60 per cent	Kodiyak, Lakhanka,	FLD, Field day, Training, Soil Health	
		Infestation of fruit and shoot borer	70 per cent	Khadsaliya, Bhakhal	card, Visits	
10	Chilli	Scarcity of healthy seedlings of desirable variety	65 per cent	Avaniya, Morchand, Lakhanka,	FLD, Field day, Training, Soil Health card, Visits, Supply of	
		Poor nutrition management	65 per cent	Koliyak	seedlings	
		Infestation of sucking pest	55 per cent			
11	Kagzilime	Scarcity of reliable planting material	60 per cent	Sanosara, Ambala,	Field visits, literature, Group meetings,	

		Poor nutrition management Infection of diseases like citrus canker / gummosis Lack of canopy management Lack of Knowledge about "Bahar" Treatment.	60 per cent50 per cent70 per cent40 Percent.	Surka, Ramdhari	supply of planting material	
12	Guava	Scarcity of reliable planting material Poor Nutrition management Lack of canopy management	60 per cent60 per cent70 per cent	Aambla, Sanosara, Bajud, Ishwariya	Field visits, Group meetings, Telephonic help line	
13	Vegetables	Nematode infestation. Fruit fly Infestation. Unavailability of health	40 per cent 50 Percent	Avaniya,	FLD in Kitchen	
15	vegetables	and pesticide free vegetables for landless labour	75 percent	Avaniya, Morchand, Khadsaliya, Chok	Garden, Field Visit, Training, Telephonic Helpline	
14	Dairy farming (Cattle)	Indiscreet breed of cattle Lack of reliable and timely AI facilities Low productivity of milk Poor nutrition and animal health management Lack of maintenance of hygienic condition Poor management of subclinical mastitis in cattle	70 per cent 65 per cent 70 per cent 65 per cent 70 per cent 65 per cent	Ratanvav, Mandavi	Diagnostic visits, FLD on probiotics and bypass fat supplementation, OFTs on management of subclinical mastitis and Prophylactic treatment regime, literature, Training, Field Day	

2.8. Priority thrust areas:

Agronomy
To promote improved package of practices
Integrated Nutrient Management
Integrated Pest and Disease Management
Crop diversification and rotation
Soil Health and Fertility Management
Introduction of newly recommended variety
Horticulture
Integrated Pest and Disease Management
Integrated Nutrient Management
Post-Harvest Management of horticultural crops
Nursery Management for fruits and vegetables
To promote protected cultivation
To promote improved cultivation practices in fruits and vegetables
Animal husbandry
To improve milk productivity
To improve feed and fodder management practices
To promote scientific dairy farming and cooperatives
To improve health management practices
To improve breed quality
Ag. Engineering
To increase water use efficiency
To Increase farm mechanization
To promote Soil and Water Conservation Practices
Extending Post Harvest technology of cereals, pluses and horticulture crops
To promote farm innovations
Home Science
Drudgery Reduction of farm women
To develop entrepreneurial skill of farm woman
To promote nutritional security of land less labours
Woman and child care through counseling
Gender mainstreaming through SHGs
Ag. Extn.
Formation and management of FIGs
Entrepreneurship development in Rural Youth
To create awareness for PPVFR
To promote farm innovations
To create awareness for conservation of natural resources and other agriculture related issues

3. TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
4	4	19	19	15	15	415	516

Training				Extension Programmes			
3					2	ł	
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
85	78	2550	2849	1100	1152	15050	26320

Seed Produ	iction (Qtl.)	Planting materials (Nos.)			
	5	6			
Target	Achievement	Target	Achievement		
25	0	60000	89230		

Livestock, poultry strai	ns and fingerlings (No.)	Bio-products (Kg)			
	7	8			
Target	Achievement	Target Achievement			
5	0	3000	6500		

3.1. B. Operational areas details during the year 2022

S. No	Major crops & enterprise s	Prioritized problems	Extent of area (Ha/No.) affected by the problem	Names of Cluster Villages identified for interventi on	Intervention
1	Cotton	Infestation of Pink Boll Worm Intensive mono cropping Stagnant / decreasing productivity Para wilt Labour scarcity Poor nutrition management	60 per cent 40 per cent 70 per cent 50 per cent 70 per cent 70 per cent	Naughanva dar, Babriyat, Sanosara	FLD, Field Day, Trainings, Scientist's visit to farmers field, Group meetings, Distribution of literature, Soil Health card, Lecture Delivered as a resource person
2	Groundnut	Infestation of white grub Low productivity in summer groundnut due to heat wave Sporadic incidence of wire worm Lack of awareness about INM	35 per cent 50 per cent 15 per cent 60 per cent	Lakhavad, Sanosara, Manar, Sosiya, Royal, bhakhal, Moti Jagdhar,	FLD, Field Day, Training, Field Visits, Telephonic helpline, Distribution of literature, soil Health Card, Telephonic Helpline, Lecture Delivered as a resource person, Method Demonstrations, Wheel hoe demonstration, ARYA project
3	Sesame	Crop was damaged due to Heavy rainfall in <i>Kharif</i> season Poor nutrition management Water scarcity for summer cultivation	80 per cent 70 per cent 65 per cent	Pipardi,	Training, Field Visits, Printed literature
4	Castor	Cultivation of old variety Poor nutrition management	76 per cent 65 per cent	Timana,	FLD, Field day, Training, Field Visits, Soil Health Card, Printed literature
5	Wheat	Lack of irrigation management Poor nutrition management practices	60 per cent 50 per cent	Gundarna, Sanosara, Manar	FLD on new variety, Field day, Training, Field Visits, Soil Health Card, Printed literature, Lecture Delivered as a resource person
6	Fodder sorghum	Cultivation of old variety Poor nutrition management No use of chaff cutter for fodder	70 per cent 60 per cent 80 per cent	Aambla, Sanosara, Zariya, Vavdi	FLD on chaff cutter, Field visits, Training, Field Visits, Telephonic Helpline, Lecture delivered as a resource person.
7	Chickpea	Poor Yield due to improper fertilizer management Unavailability of newly recommended variety	75 percent 60 percent	Thansa, Pithalpur	FLD, Field day, Training, Field Visits, Soil Health Card, Printed literature
8	Onion	Infestation of thrips Labour scarcity for transplanting Injudicious use of chemicals	70 per cent 70 per cent 60 per cent	Rajapara -	OFT, Training, Field Visits, Telephonic Helpline, SMS Advisory Services, Lecture Delivered as a resource person.
9	Brinjal	Scarcity of healthy seedlings of	70 per cent	Sanosara,	Lecture Delivered,

		desirable variety	70 per cent	Zariya,	Healthy Seedlings
		Infestation of fruit and shoot borer		Sarkadiya, Pipardi, Gorkhi	provided to the nearby areas, Telephonic Helpline
10	Okra	Poor fruit harvesting practices Lack of availability of recently developed harvesting tools	85 per cent 95 per cent	Hathab, Khadsaliya	Trainings, Lectures, Visits, Literatures
11	Chilli	Scarcity of healthy seedlings of desirable variety Poor nutrition management Infestation of sucking pest	70 per cent 60 per cent 60 per cent	Kariyani, Sanosara	FLD, Field Day, Training, Scientist visit to farmers fields, Supply of seedlings, FLDs, Seedlings supply, Field day
12	Kagzilime	Scarcity of reliable planting material Poor nutrition management Infection of diseases like citrus canker / gummosis Lack of canopy management	60 per cent 60 per cent 50 per cent 70 per cent	Sanosara, aambla, Karkolia, Mandvi, Mota surka, Sandhida, Zariya	field visits, literature, Group meetings, supply of planting material
13	Guava	Scarcity of reliable planting material Poor Nutrition management Lack of canopy management	60 per cent 60 per cent 70 per cent	Ranghola, Aambla, Sanosara, Krushnapu ra, Surka, Ishwariya, Shedhavad ar	Field visits, Group meetings, Telephonic helpline, Trainings, Lecture delivered, Planting materials suppy
14	Mango	Lack of knowledge regarding organic cultivation	65 per cent	Manar, Sosiya	FLDs under PKVY project, Trainings, Literatures, Booklets,
15	Spice crops (Turmeric, Coriander, Chilli)	Lack of knowledge regarding processing and value addition	75 per cent	Juna Padar, Jesar, Zariya, Moti Jagdhar	Group Formed under ARYA project, Established Spice pulverizing units in the district for Income generation
16	Dairy farming (Cattle)	Indiscreet breed of cattle Lack of reliable and timely AI facilities Low productivity of milk Poor nutrition and animal health management Lack of maintenance of hygienic condition	70 per cent 70 per cent 70 per cent 60 per cent 70 per cent	Zariya, Gadhula, Sanosara, aambla, Naughanva dar, Bhutiya, Bhumbhli	OFT, Diagnostic visits, FLD on probiotics and silage making, OFTs on Prophylactic treatment regime, Mineral mixture, literature, OFT on Azolla
17	Kitchen Garden	Poor Nutrition Management in children Unavailability of chemical free vegetables	65 per cent 90 per cent	Sanosara, Ratanvaav, Manvilas,	FLD, Training, FLD visits, SHG Meeting, Field Day
18	Mushroom Cultivation	Lack of Knowledge regarding Mushroom cultivation Poor knowledge regarding growing practices	95 per cent 85 percent	Bhavnagar ,	FLDs, Vocational Trainings, Diagnostic visits, Lectures, Field Day

3.2. Technology Assessment

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

Thematic areas	Oilseeds	Pulses	Medicinal plants	TOTAL
Varietal Evaluation	-	1	-	1
Value addition	1		1	2
Total	1	1	1	3

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Nutrition Management	1	-	-	-	-	1
TOTAL	1	-	-	-	-	1

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Varietal Evaluation		Assessment of high yielding variety of Chickpea in rainfed area of Bhavnagar District	5	5	0.5
Value addition		Evaluation and standardization of drying process for Moringa oleifera leaves (Drumstick)	1	1	-
Value addition		Development of Peanut paneer from admixture of peanut milk to cow milk	3	3	-
		Total	9	9	0.5

B.2. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Nutrition management	Cattle	Management of Post-Partum Anestrous in dairy cattle	10	10
		Total	10	10

C1.Results of Technologies Assessed Results of On Farm Trial – 1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trial s	Technology Assessed	Parame ters of assessm ent	Data on the paramete r	Results of assessment	Feedbac k from the farmer	Any refinem ent needed	Justifica tion for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
			Assessment of high yielding		Farmers Practice (T1) :GJG-3		37.4	TheresultrevealedthatthetheTreatment3			
Chickpea	Irrigated	Low productivity of crop	variety of Chickpea in rainfed area of	5	Assessed Practice (T2) :GJG-6	No. of Pod per Plant	55	(variety Phule Vikram) give higher yield as	-	-	-
			Bhavnagar District		Assessed Practice (T3) : Phule Vikram		60.2	compared to other variety GJG-3 and GJG-6.			

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
Farmers Practice (T1) :GJG-3	-	22.25	Q/ha	67323.64	3.05
Assessed Practice (T2) :GJG-6	JAU, Junagadh	29.25	Q/ha	98823.64	4.01
Assessed Practice (T3) : Phule Vikram	MPKV, Rahuri	31.75	Q/ha	110073.64	4.35

Results of On Farm Trial – 2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trial s	Technolo gy Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedba ck from the farmer	Any refine ment neede d	Justificati on for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
		Poor quality				Drying time (Hr)	8 hrs				
		of Moringa leaves and	Evaluation		Drying	Temperature °C)	50	The results	-		
			and			Cost of Drying (Rs.)	350.0				
		powder due to loss of	standardizatio	tio	through	Moisture content (%)	5	shows that			
Moringa	Irrigated	nutrients	n of drying		Heat	Beta carotene (mg/100	24.56	Treatment 2			
Moringa	Inigated	and colour	process for	1	Pump	g)	24.30	give batter		-	-
		in traditional sun drying of leaves	Moringa oleifera leaves (Drumstick)		dehydrat or	Vitamin C (mg/100 g)	167.50	quality then treatment 1			

Technology Assessed	Source of Technology	Vitamin C (mg/100 g)	Cost of Drying	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Traditional method of drying (open sun drying)	-	96.40	600.0	-	-
Drying through Heat Pump dehydrator	-	167.50	350.0	-	-

Results of On Farm Trial – 3

Enterprise /Crop	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	Justification
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	-	Lack of awareness about value added products from peanut and milk. Malnutrition in rural children and farm women.	Development of Peanut paneer from admixture of peanut milk to cow milk	3	T2- Peanut milk + Whole cow milk (fat 4.5%) Ratio (50:50)	-	The experiment was failed	-	-	-	The experiment was failed because the results of mentioned treatment was unsatisfactory

Technology Assessed	Source of Technology	Self – life of Turmeric Powder (Days)	Cost of Drying (RS.)	BC Ratio	
13	14	15	17	18	
Control- Whole cow milk paneer (4.5% fat)	-	-	-	-	
T1- Peanut milk + skimmed cow milk (fat% below 1%) ratio (50:50)	-	-	-	-	
T2- Peanut milk + Whole cow milk (fat 4.5%) Ratio (50:50)	David, J. (2014). Development of peanut paneer from the admixture of peanut milk and skimmed milk. Res. J. Animal Hus. & Dairy Sci., 5(2) : 113-115.	-	-	-	

Results of On Farm Trial - 4

enterpris e	Farmin g situatio n	Problem definition	Title of OFT	No. of trial s	Technolog y Assessed	Parameters of assessment	Data on the paramet er	Results of assessment	Feedback from the farmer	Any refine ment	Justifi cation
1	2	3	4	5	6 7 Milk production (1/day/cow) 11		8	9	10	11	12
Cattle	-	Post- Partum anestrous increases inter- calving period and decreases milk productio n	Managemen t of Post- Partum Anestrous in dairy cattle	10	Treatment 3 – T2 + Phosphorus inj. 15ml I/M for 2 days (61 to 66 days after parturition)	Milk production (l/day/cow) Commencement of estrous after calving (days) Conception % Cost, Rs./cow/60 days Gross Income, Rs./cow/60 days Net Income, Rs./cow/60 days Benefit cost ratio	11.98 80 to 90 75 14230.0 30261.5 16031.5 2.13	Treatment given two months post partum resulted in improved conception rate and minimize inter calving period.	Supplement ation of nutrients post calving resulted in early commence ment of heat and increased milk production.	-	-

Technology Assessed	Source of Technology	Milk Production (l/day/cow)	Net Income, Rs./cow/60 days	BC Ratio
13	14	15	17	18
Farmer practice (No additional Supplement after two month of calving	-	9.57	9203.07	1.72
Ecbolic and uterine stimulant- 100 ml for 4 days (61 to 64 days after parturition) + Heat inducer and conception promoter 4 capsules for 4 days (65 to 68 days after parturition) + Trace mineral supplement for 20 days (61 to 80 days after parturition)	-	10.23	12277.45	1.91
T2 + Phosphorus inj. 15ml I/M for 2 days (61 to 66 days after parturition)	Post Graduate Institute of Veterinary and Animal Sciences (PGIVAS), Akola, Maharashtra	11.98	16031.5	2.13

C2. Details of each On Farm Trial for assessment

OFT – 1

OF1 - 1	Assessment of high	n vielding variety	of Chickpea in rai	infed area of
Title	Bhavnagar Distric	• • •	x	
Problem diagnose	Low productivity of	f crop		
Treatments				
Farmer practice T ₁	Farmers Practice (T	1) :GJG-3		
Technology to be assessed T ₂	Assessed Practice (T2) :GJG-6		
Technology to be assessed T ₃	Assessed Practice (Г3) : Phule Vikran	1	
Number of trials	5			
Season	Rabi			
Source of technology	JAU, Junagadh and	MPKV, Rahuri		
Thematic area	Varietal Trial			
Performance of the		Farmers	Assessed	Assessed
Technology with	Parameters	Practice (T1)	Practice (T2)	Practice (T3) :
performance indicators		:GJG-3	:GJG-6	Phule Vikram
	No. of Pod par plant	37.4	55	60.2
	Yield (Q/ha)	22.25	29.25	31.75
	Cost (Rs./ha)	32801.36	32801.36	32801.36
	Gross Return (Rs./ha)	100125	131625	142875
	Net Return (Rs. /ha)	67323.64	98823.64	110073.64
	BC Ratio	3.05	4.01	4.35
Feedback/Farmers' perceptions	The result revealed yield as compared t		× 2	ïkram) give higher
Final recommendation for micro level situation			-	

OFT – 2									
Title	Evaluation and standardizat	ion of drying proces	s for <i>Moringa oleifera</i>						
	leaves (Drumstick)								
Problem diagnose	Poor quality of Moringa leave	s powder due to loss	of nutrients and colour in						
	traditional sun drying of leaves	5							
Treatments									
Farmer practice T ₁	Traditional method of drying	(open sun drying)							
Technology to be assessed T ₂	Drying through Heat Pump de	ehydrator							
Number of trials	1								
Season	Rabi-2022								
Source of technology	-								
Thematic area	Value Addition								
Performance of the	Parameters	Treatment 1	Treatment 2						
Technology with	Drying time (Hr)	15 hrs	8 hrs						
	Temperature (°C)	30 to 40	50						
performance indicators	Cost of Drying (RS.)	600.0	350.0						
	Moisture content (%)	8	5						
	Beta carotene (mg/100 g)	15.60	24.56						
	Vitamin C (mg/100 g)	96.40	167.50						
Feedback/Farmers'									
perceptions		-							
Final recommendation for									
micro level situation		-							

OFT – 3	
Title	Development of Peanut paneer from admixture of peanut milk to
	cow milk
Problem diagnose	Lack of awareness about value added products from peanut and milk.
	Malnutrition in rural children and farm women
Treatments	
Farmer practice T1	Control- Whole cow milk paneer (4.5% fat)
Technology to be assessed T2	T1- Peanut milk + skimmed cow milk (fat% below 1%) ratio (50:50)
Technology to be assessed T3	T2- Peanut milk + Whole cow milk (fat 4.5%) Ratio (50:50)
Number of trials	3
Season	
Source of technology	David, J. (2014). Development of peanut paneer from the admixture
	of peanut milk and skimmed milk. Res. J. Animal
	Hus. & Dairy Sci., 5(2) : 113-115.
Thematic area	Value addition
Performance of the Technology	
with performance indicators	
Feedback/Farmers' perceptions	-
Final recommendation for micro	
level situation	- -
Constraints identified and	The experiment was failed because the results of mentioned
feedback for research and	treatment were unsatisfactory.
developmental departments	treatment were unsatisfactory.
Constraints identified and	
feedback for research and	-
developmental departments	

OFT -4										
Title	Management of Post-Part	um Anestrous	in dairy cattle							
Problem diagnose	Post-Partum anestrous incl	eases inter-cal	ving period and	decreases milk						
	production									
Treatments										
Farmer practice T ₁	Farmer practice (No additio	nal Supplement	t after two month	of calving						
Technology to be assessed T ₂	Ecbolic and uterine stimular		•	•						
	parturition) + Heat inducer									
	(65 to 68 days after parturit	ion) + Trace mi	neral supplemen	t for 20 days (61						
	to 80 days after parturition)			· ·· ·						
Technology to be assessed T ₃	T2 + Phosphorus inj. 15ml	/M for 2 days (61 to 66 days aft	er parturition)						
Number of trials	10									
Season	-									
Source of technology		Post Graduate Institute of Veterinary and Animal Sciences (PGIVAS), Akola, Maharashtra								
Thematic area	Animal Nutrition	Akola, Maharashtra Animal Nutrition								
Performance of the										
Technology with	Parameter		T2	15						
performance indicators	Milk production		10.00	11.00						
-	(l/day/cow)	9.57	10.23	11.98						
	Commencement of									
	estrous after calving	120 to 140	100 to 120	80 to 90						
	(days)									
	Conception %	41.66	58.33	75						
	Cost, Rs./cow/60 days	12840.0	13490.0	14230.0						
	Gross Income,	22042.07	25767 45	20261.5						
	Rs./cow/60 days Net Income, Rs./cow/60	22043.07	25767.45	30261.5						
	days	9203.07	12277.45	16031.5						
	Benefit cost ratio	1.72	1.91	2.13						
Feedback/Farmers'	Supplementation of nutrient									
perceptions	of heat and increased milk p									
Final recommendation for	Treatment given two month		esulted in improv	ved conception						
micro level situation	rate and minimize inter calv		1	1						
Constraints identified and										
feedback for research and		-								
developmental departments										
Constraints identified and										
feedback for research and		-								
developmental departments										

3.3. FRONTLINE DEMONSTRATION

A. Follow-up for results of FLDs implemented during previous years

Sr.	Crop/	Thematic	Technology	Details of		ontal sprea echnology	d of
No.	Enterprise	Area	demonstrated	popularization methods	No. of villages	No. of farmers	Area (ha)
1	Wheat	Varietal Evaluation	Salinity tolerant variety KRL-19, New variety GW - 463	Training, feedback and follow up, Distribution of seed	12	245	120
2	Groundnut (<i>Kharif</i>)	Integrated Crop Management	Soil application of <i>Trichoderma</i> and castor cake, Bio-fertilizers, SNPV, Bio – pesticides	Demonstration, Field Day, Training, feedback and follow up, lecture, visits	40	420	190
3	Groundnut (<i>Kharif</i>)	Farm Mechanization	Wheel Hoe	Trainings, Demonstrations, Field Day, Lecture Delivered	10	70	75
4	Sesame (Summer)	Integrated Crop Management	Sesame Variety Guj. Til – 3, Bio- fertilizers, Azadirrectin, Soil application of Sulphur 90 %	Demonstration, Field Day, Training, feedback and follow up, lecture, visits	15	235	110
5	Chick pea	Varietal	Variety Guj. Junagadh Chickpea – 5, use of HaNPV for management of <i>helicoverpa</i> Bio-fertilizers	Trainings, Demonstration, Field Day, Training, feedback and follow up	55	650	300
6	Onion	Integrated pest management	Bio-fertilizer (NPK consortium), Beauveria, Micro nutrient grade – 4	Demonstration, Field Day, Training, feedback and follow up, distribution	15	120	40
7		Nutrition	Prophylactic Treatment Regime in lactating cattle	Demonstration, Trainings, Meeting, Diagnostic Visits	50	700	-
8	Cattles	management	Deworming followed by Mineral mixture supplementation to dairy cattle	Demonstration, Field Day, Training, feedback and follow up, lecture, visits	32	260	-
9		Health Management	0.1 % potassium permanganate solution for post milking teat dipping, Prophylactic treatment regime during post	Demonstration, Field Day, Training, feedback and follow up, lecture, visits	17	250	-

List of technologies demonstrated during previous year and popularized during 2022 and recommended for large scale adoption in the district

			calving period				
10	Cotton	Integrated Pest Management	Bio-fertilizer (NPK consortium), Beauveria, Micro nutrient grade – 4, Pheromone Traps	Demonstration, Field Day, Training, feedback and follow up	17	325	300
11	Natural farming	INM, IPM	Jivamrit, Ghan Jivamrit,	Training, Meetings, Method Demonstration	10	145	120

B. Details of FLDs implemented during 2022

SI. No	Сгор	Thematic	Technology	Season and	Area ((ha)		of farme nonstrati	
•	Стор	area	Demonstrated	year	Propose d	Actua l	SC/S T	Other s	Tota l
Α	FLD Khari	f, 2022							
1	Groundnu t	ICM	INM, IWM, IPM	<i>Kharif</i> – 2022	20	20	1	24	25
2	Cotton	ICM	INM, IPM	Kharif – 2022	10	10	0	25	25
3	Pearl Millet	Varieta 1	(GHB 1231) Bio fortified variety	Kharif – 2022	4	4	0	25	25
4	Chilli	ICM	INM, IPM	Kharif - 2022	5	5	0	25	25
5	Kitchen Garden	Kitche n Garden	Vegetables seeds and saplings	Kharif - 2022	0	0	0	80	80
6	Castor	GCH- 9	Varietal	Kharif - 2022	5	5	0	11	11
В	FLD Rabi,	2022							
7	Chickpea	ICM	INM, IPM	Rabi - 2022	20	20	0	50	50
8	Wheat	Varieta 1	Gujarat Junagadh Wheat – 463	Rabi – 2022	10	10	0	25	25
9	Kitchen Garden	Kitche n Garden	Vegetables seeds and saplings	<i>Rabi -</i> 2022	0	0	0	80	80
				Total	74	74	1	345	346

Details of farming situation

		Farming situation		St	atus of soil		Previo			Seaso nal	No. of
Сгор	Season	(RF/Irrigated	Soil type	Ν	Р	К	us crop	Sowing date	Harvest date	rainfal l (mm)	rainy days
Groundnut	Kharif - 2022	Rainfed	Medium black soils	Low to Medium	Medium	High	Sorghum	3 rd week of June to 1 st week of July	2 nd week to 3 rd week of Oct.	579.0	25
Cotton	Kharif – 2022	Irrigated	Shallow black soils	Medium to High	Medium to High	High	Cotton	2 nd week of June to 1 st week of July	2 nd week of Dec. to 1 st week of Feb.	579.0	25
Pearl millet	Kharif – 2022	Rainfed	Shallow black soils	Medium to High	Medium to High	High	Cotton	2 nd week of June to 1 st week of July	1 st week to 3 rd week of Oct.	579.0	25
Chilli	Kharif – 2022	Irrigated	Shallow black soils	Low to medium	High	High	Cotton	2 nd week of June to 1 st week of July	2 nd week of Dec. to 1 st week of Feb.	579.0	25
Castor	Kharif – 2022	Irrigated	Mediam Black Soil	Medium	High	Mediu m	Cotton	1 st week of August to 2 nd week of August.	2 nd week of Feb. to 3 rd week of Feb.	579.0	25
Chickpea	Rabi – 2022	Irrigated	Medium black soils	Low	Medium	Mediu m	Groundn ut	2 nd week of Oct. to 4 th week of Oct.	2 nd week of Feb. to 1 st week of March	0	0
Wheat	Rabi – 2022	Irrigated	Medium black soils	Medium	High	Mediu m	Sorghum	2 nd week of Oct. to 4 th week of Oct.	2 nd week of Feb. to 1 st week of March	0	0
(Kitchen Garden) Vegetables	Kharif – 2022	Irrigated	Medium black soils	Medium	Low	Mediu m to High	Vegetabl es	2 nd week of June to 2 nd week of July	1 st week of Sept. to 3 rd week of Sept.	579.0	25
(Kitchen Garden) Vegetables	Rabi – 2022	Irrigated	Medium black soils	Low	Medium	High	Vegetabl es	2 nd week of Oct. to 4 th week of Oct.	3 rd week of Jan. to 2 nd week of Feb.	0.0	0

Technical Feedback on the demonstrated technologies

Sl. No.	Crop / Enterprise	Farmers' Feed Back
1	Groundnut	Cost of fertilizer application is saved due to soil health card. Application of Micro nutrients helped to overcome <i>chlorosis</i> in groundnut.
1	(Kharif)	Bio pesticides Beauveria bassiana helped to control the sucking pest in the crop.
		Beauveria and Neem Oil proved useful to minimize initial infestation of sucking pest. The infestation of pink boll worms was minimum
2	Cotton	due to the mass trapping of adults of PBW in Pheromone traps. Immature flower and bud drooping and reddening of leaves was also
		minimum due to proper nutrient management.
3	Castor	Castor variety GCH-9 prove effective and gave higher yield as compared to other locally cultivated varieties.
4	Chilli	Various bio inputs found useful for reducing the cost of cultivation, and also useful for effective control of sucking pest
5	Wheat	Gujarat Junagadh Wheat – 463 variety gave higher yield as compared to locally cultivated variety
6	Chickpea	Different Bio Inputs prove effective for the control of Insect and pest attack, and the chickpea variety Gujarat Junagadh Gram - 5 gave
0	Спіскреа	higher yield as compared to local variety in irrigated farming condition.
7	Chaff Cutter	The chaff cutter is very useful for cutting green and dry fodder. It reduces the wastage of fodder while animal feeding.
8	Wheel hoe	The wheel hoe is useful for saving time and labour cost.
9	Mineral mixture	Supplementation of minerals results in increased milk production and improved estrous cycle. It resulted in good condition of animals
3		and increased milk fat percent.
10	prophylactic	Supplementation of inputs resulted in higher milk production at peak period.
10	treatment regime	Cattle came early in estrous period after calving and conceive within four months of calving.

Farmers' reactions on specific technologies

Sl. No.	Crop / Enterprise	Farmers' Feed Back
1	Groundnut (Kharif)	The inputs used as per the suggestions and it helped to reduce pest incidence and weed problem also. Cost of fertilizer application is saved due to soil health card. Application of Micro nutrients helped to overcome <i>chlorosis</i> in groundnut. Bio pesticides are cost effective. Adoption of INM helped to increase grain weight.
2	Cotton	The inputs helped to increase the productivity of cotton and also helpful to reduce the cost of cultivation. Due to the bio inputs, the infestation of pink boll worms was minimum. Immature flower and bud drooping and reddening of leaves was also minimum due to proper nutrient management.
3	Castor	Castor variety GCH- 9 prove effective and gave higher yield as compared to other locally cultivated varieties.
4	Chilli	Various bio inputs found useful for reducing the cost of cultivation, and also useful for effective control of sucking pest
5	Wheat	Gujarat Junagadh Wheat – 463 variety gave higher yield as compared to locally cultivated variety
6	Chickpea	Different Bio Inputs prove effective for the control of Insect and pest attack, and the chickpea variety Gujarat Junagadh Gram – 5 gave higher yield as compared to local variety in irrigated farming condition.
7	Chaff Cutter	The chaff cutter is very useful for cutting green and dry fodder. It reduces the wastage of fodder while animal feeding.
8	Wheel hoe	The wheel hoe is useful for saving time and labour cost.
9	Mineral mixture supplementation to cow	Supplementation of minerals results in increased milk production and improved estrous cycle. It resulted in good condition of animals and increased milk fat percent.
10	prophylactic treatment regime	Supplementation of inputs resulted in higher milk production at peak period. Cattle came early in estrous period after calving and conceive within four months of calving.

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
			Chickpea – 11/03/22	33	
1	Field dove	1	Wheat – 14/03/22	21	
1	Field days	4	Groundnut - 12/10/22	36	-
			Bhindi plucker- 10/01/22	33	
			05/01/22	25	
			04/02/22	32	
			11/03/22	31	
			05/08/22	35	
			23/08/22	22	
2	Farmers Training	11	06/09/22	21	-
			21/09/22	47	
			12/10/22	23	
			12/11/22	27	
			12/12/22	24	
			30/12/22	18	
			10/03/22	110	
3	Training for extension	3	1506/22	40	
3	functionaries	3	11/7/22	80	-
			28/11/22	40	

C. Performance of Frontline demonstrations Frontline demonstrations on oilseed crops

		Tashnalagu		No of	A H 0		Yie	ld (q/ha)		%	Econo	mics of de (Rs./h		tion	Ec	onomics (Rs./l		
Сгор	Thematic Area	Technology demonstrat ed	• и и нег	No. of Farme rs	Are a (ha)	Hig h	Den Lo w	no Avera ge	Chec k	Increa se in yield	Gross Cost	Gross Return	Net Return	BC R (R/C)	Gross Cost	Gross Return	Net Return	BC R (R/C)
Groundn ut	Integrated Crop Manageme nt (ICM)	IPM	GJG- 22	50	20	25.0	20. 0	21.78	18.13	20.13	61159. 19	148646. 40	87487. 21	2.43	64082. 34	120454 .0	56371. 68	1.88

Frontline demonstration on pulse crops

	Themati	technology	Variet	No. of	Are		Yie	ld (q/ha)		% In an a a a	Econor	nics of d (Rs./	lemonstra ha)	tion	Eco	nomics (Rs./l	of checl 1a)	ζ.
Сгор	c Area	demonstrate d	y	Farmer s	a (ha)	Hig h	Den Lo W	no Averag e	Chec k	Increas e in yield	Gross Cost	Gross Retur n	Net Return	BCR (R/C)	Gross Cost	Gross Retur n	Net Retur n	BCR (R/C)
Chickpe a	ICM	INM, IPM	Guj. Gram - 5	50	20	32.5	25	29.3	22.75	28.79	31681.3 6	13185 0	100168. 6	4.16	33793.4 0	10237 5	68581. 6	3.03

FLD on Other crops

Categ	Them	Name	No.	Ar		Yield	d (q/ha)		% Cha	Ot Para		Econo	mics of de (Rs./h	emonstrati 1a)	ion	Econo	mics of ch	eck (Rs./	ha)
ory & Crop	atic Area	of the technol ogy	of Farm ers	ea (ha)	Hig h	Dem Lo w	o Aver age	Che ck	nge in Yield	De mo	Che ck	Gross Cost	Gross Return	Net Return	B C R	Gross Cost	Gross Return	Net Retur n	B C R
Cereals																			
Wheat	Variet al	Gujarat Junagad h Wheat - 463	25	10	50.3	47. 25	49.8	42.2 5	17.87	-	-	37453. 55	124500	87046. 45	3.3 2	39096. 09	105625	66528. 91	2.7 0

Vegetal	oles																		
Chilli	Integra ted Crop Manag ement (ICM)	INM IPM	25	5	12. 10	7.6 7	10.29	8.94	15.10	-	-	94672. 68	158671 .8	63999. 12	1.6 7	97549. 8	134100	36550. 2	1.3 7
Comme	ercial Cro	ps																	
Cotton	ICM	INM, IPM	25	10	26.2 5	21.2 5	23.90	18.8 8	26.62	-	-	98566. 25	206687 .20	108120 .95	2.1 0	95311. 67	159536 .0	64224. 33	1.6 7
Castor	Variet al	(GHC- 11)	10	4	38.5 0	33.7 5	35.75	30.5 0	17.21			10186 2.93	247568 .75	145705 .82	2.4 3	10260 8.22	202556 .25	99948. 03	1.9 7

Frontline Demonstration on Nutri cereals

Cror	Thematic	Technology	Variates	No. of	Area		Yie	eld (q/ha)		%		omics of ((Rs.	demonstı /ha)	ration	E		s of chec /ha)	:k
Crop	Area	demonstrated	Variety	Farmers	(ha)		Den	10	Check	in vield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average	Спеск	III yielu	Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Livestock

		Name of the		No. of Units		ilk 1ction	%	Economi	cs of dem	onstratio	n (Rs.)	Ec	conomics (Rs.		
Category	Thematic area	technology demonstrated	No. of Farmer	•	Demo	Check	change in major parameter	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle															
	Animal Nutrition Management	Chelated mineral mixture supplementation	25	25	13.45	11.38	15.39	21360.00	41094.00	19834.00	1.93	19710.00	30415.20	10705.20	1.54
	Animal Nutrition Management	Compound concentrate mixture supplementation to dairy buffaloes	50	50	12.10	9.72	19.67	20880.00	61650.00	40770.00	2.95	22450.00	42192.00	19742.00	1.88
	Animal Nutrition Management	Prophylactic treatment regime during post calving period	40	40	14.94	11.72	21.55	30850.00	54261.00	23411.00	1.76	32100.00	44118.00	12018.00	1.37
	Animal Disease Management	Energy rich supplements for transition period management	25	25	15.10	13.24	12.32	26500.00	61560.00	35060.00	2.32	25800.00	46506.00	20706.00	1.80

FLD on Fisheries

		Name of the	No. of	No.	Major pa	rameters	% change	Oth paran		Econo	mics of ((R		ration	Ec		s of chec (s.)	:k
Categor y		technology demonstrate d	Farm	of units	Demons ration	Check	in major parame ter	Demon s ration	Check	Gross Cost	Gross Retur n	Net Retur n	BCR (R/C)	Gros s Cost	Gross Retur n	Net Return	BC R (R/ C)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Other enterprises

	Name of the	No. of		Maj param		% change		her meter		mics of (Rs.) or]		s of chec Rs./unit	k
Category	technology demonstrated	Farme r	No. of	Demo	Chec k	in major	Demo	Check	Gros	Gross Retur n	Net Retur n	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	Сгор	Technology demonstrated	No. of Farmer	Major parameters	Fodder (kg/anim		% change in major	Cost reduction Rs. / animal/day	
					Demo Check		parameter		
							(Waste reduction)		
Chaff cutter (Capacity 1 ton/hr)	Fodder crop (pearl millet, Sorghum)	Chaff cutter	20	Fodder Wastage reduction	0.61	2.67	77.15	15.45	

Fodder cost @ Rs. 1000.00/Q

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Field capacity (ha/day)		% change in major	Cost (Rs./ha)		Cost reduction (Rs./ha)		
			Farmer		Demo	Check	parameter	Demo	Check	Demo	Check	
Wheel hoe	Groundnut	Hand tool						350 +				
		Wheel hoe	10	10	0.85	0.35	43.82	One-time	675	325	0	
		(CAET, JAU)						tool cost				
<i>One day</i> = 8 <i>hor</i>	One day= 8 hour, Labour cost @ Rs. 250.00/day/labour for hand weeding, Labour cost @ Rs. 300.00/day/labour for Wheel hoe, Cost of hand tool=Rs. 2600.00											

FLD on Other Enterprise: Kitchen Gardening

Season	Farm Women	Village	total production per day	Family Requirement (g/day)	fulfill of vegetable/fa mily by kitchen garden	% daily requirement of Vegetable fulfill by kitchen garden	% gap between requirement of day and supply of kitchen garden	cost of per day require ment	cost of vegetable supply through kitchen garden	% of daily cost saving	
Kharif	80	Nanimal	0.671	2150	0.671	31	69	80	25	31	
Rabi	80	Nanimal	0.722	2150	0.722	34	66	54	18	34	

FLD on Demonstration details on crop hybrids

Сгор	technology demonstrated	•	No. of Area Farmers (ha)	A m 00	Yield (q/ha)				0/ Inchase	Economics of demonstration (Rs./ha)			
				Demo			Check	% Increase in vield	Gross	Gross	Net	BCR	
				(114)	High	Low	Average	CHECK	in yielu	Cost	Return	Return	(R/C)
Pearl Millet	Varietal	(GHB 1231) Bio fortified variety	25	4	31.25	22.5	26.9	24.1	11.6	11351.08	59060.00	47708.92	5.20
3.4. Training Programmes Farmers' Training including sponsored training programmes (on campus)

					Par	ticipar	nts			
Thematic area	No. of	(Others			SC/ST		Gra	nd To	tal
	courses	Μ	F	Т	Μ	F	Т	Μ	F	Т
(A) Farmers & Farm Women										
I Crop Production										
Micro Irrigation/irrigation	1	30	13	43	8	0	8	38	13	51
Integrated Crop Management	1	25	0	25	0	0	0	25	0	25
Soil & water conservation	1	30	0	30	7	0	7	37	0	37
Production of organic inputs	2	30	53	83	0	0	0	30	53	83
Total	5	115	66	181	15	0	15	130	66	196
III Soil Health and Fertility Manage	ement									
Soil fertility management	1	2	27	29	0	0	0	2	27	29
Total	1	2	27	29	0	0	0	2	27	29
IV Livestock Production and Manag	gement				·					
Dairy Management	2	15	60	75	2	4	6	17	64	81
Animal Nutrition Management	1	22	8	30	6	4	10	28	12	40
Disease Management	4	53	47	100	7	6	13	60	53	113
Total	7	90	115	205	15	14	29	105	129	234
V Home Science/Women empowern	nent				·					
Income Generation activities for										
empowerment of farm women	1	7	25	32	0	0	0	7	25	32
Total	1	7	25	32	0	0	0	7	25	32
VI Agril. Engineering										
Post Harvest Technology	1	30	0	30	3	0	3	33	0	33
Total	1	30	0	30	3	0	3	33	0	33
IX Production of Inputs at site										
Mushroom Production	1	26	4	30	0	0	0	26	4	30
Total	1	26	4	30	0	0	0	26	4	30
X Capacity Building and Group Dy	namics									
Leadership development	1	37	0	37	0	0	0	37	0	37
Total	1	37	0	37	0	0	0	37	0	37
GRAND TOTAL	17	307	237	544	33	14	47	340	251	591

Farmers' Training including sponsored training programmes (off campus)

		Participants											
Thematic area	No. of		Others	s		SC/ST		G	rand To	otal			
	courses	Μ	F	Т	Μ	F	Т	Μ	F	Т			
(A) Farmers & Farm Women					·				·				
I Crop Production													
Cropping Systems	1	21	0	21	0	0	0	21	0	21			
Integrated Farming	1	20	0	20	1	0	1	21	0	21			
Micro Irrigation/irrigation	1	21	0	21	5	0	5	26	0	26			
Integrated Crop Management	3	105	0	105	0	0	0	105	0	105			
Integrated nutrient management	1	30	0	30	0	0	0	30	0	30			
Total	7	197	0	197	6	0	6	203	0	203			
II Horticulture													
a) Vegetable Crops													
Production of low value and high													
volume crops	2	37	0	37	0	0	0	37	0	37			

Total (a)	2	37	0	37	0	0	0	37	0	37
GT (a-g)	2	37	0	37	0	0	0	37	0	37
III Soil Health and Fertility Manager	nent			·						
Soil fertility management	1	55	0	55	2	0	2	57	0	57
Production and use of organic inputs	1	49	0	49	0	0	0	49	0	49
Total	2	104	0	104	2	0	2	106	0	106
IV Livestock Production and Manage	ement			·						
Animal Nutrition Management	1	30	0	30	0	0	0	30	0	30
Disease Management	2	9	44	53	3	7	10	12	51	63
Total	3	39	44	83	3	7	10	42	51	93
V Home Science/Women empowerme	ent					1	1		ŀ	
Household food security by kitchen										
gardening and nutrition gardening	2	10	97	107	0	10	10	10	107	117
Location specific drudgery reduction										
technologies	2	5	60	65	0	0	0	5	60	65
Income Generation activities for										
empowerment of farm women	1	17	2	19	0	0	0	17	2	19
Total	5	32	159	191	0	10	10	32	169	201
VII Plant Protection						r				
Integrated Pest Management	1	21	0	21	0	0	0	21	0	21
Bio-control of pests and diseases	1	35	0	35	0	0	0	35	0	35
Total	2	56	0	56	0	0	0	56	0	56
IX Production of Inputs at site										
Vermi-compost production	1	3	35	38	0	0	0	3	35	38
Organic manures production	1	10	20	30	0	0	0	10	20	30
Natural Farming	1	20	0	20	0	0	0	20	0	20
Total	3	33	55	88	0	0	0	33	55	88
X Capacity Building and Group Dyna	amics			·	·			·		
Formation and Management of SHGs	1	20	0	20	0	0	0	20	0	20
Mobilization of social capital	1	30	0	30	0	0	0	30	0	30
Entrepreneurial development of										
farmers/youths	1	20	0	20	0	0	0	20	0	20
Total	3	70	0	70	0	0	0	70	0	70
GRAND TOTAL	27	568	258	826	11	17	28	579	275	854

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

					Par	ticipan	ts			
Thematic area	No. of courses	(Others			SC/ST		G	and To	otal
	courses	Μ	F	Т	Μ	F	Т	Μ	F	Т
(A) Farmers & Farm Women										
I Crop Production										
Cropping Systems	1	21	0	21	0	0	0	21	0	21
Integrated Farming	1	20	0	20	1	0	1	21	0	21
Micro Irrigation/irrigation	2	51	13	64	13	0	13	64	13	77
Integrated Crop Management	4	130	0	130	0	0	0	130	0	130
Soil & water conservation	1	30	0	30	7	0	7	37	0	37
Integrated nutrient management	1	30	0	30	0	0	0	30	0	30
Production of organic inputs	2	30	53	83	0	0	0	30	53	83
Total	12	312	66	378	21	0	21	333	66	399
II Horticulture										
a) Vegetable Crops										
Production of low value and high	2	37	0	37	0	0	0	37	0	37

volume crops										
Total (a)	2	37	0	37	0	0	0	37	0	37
GT (a-g)	2	37	0	37	0	0	0	37	0	37
III Soil Health and Fertility Manage	ment	I								
Soil fertility management	2	57	27	84	2	0	2	59	27	86
Production and use of organic inputs	1	49	0	49	0	0	0	49	0	49
Total	3	106	27	133	2	0	2	108	27	135
IV Livestock Production and Manag	gement									
Dairy Management	2	15	60	75	2	4	6	17	64	81
Animal Nutrition Management	2	52	8	60	6	4	10	58	12	70
Disease Management	6	62	91	153	10	13	23	72	104	176
Total	10	129	159	288	18	21	39	147	180	327
V Home Science/Women empowerm										
Household food security by kitchen										
gardening and nutrition gardening	2	10	97	107	0	10	10	10	107	117
Location specific drudgery reduction										
technologies	2	5	60	65	0	0	0	5	60	65
Income Generation activities for										
empowerment of farm women	2	24	27	51	0	0	0	24	27	51
Total	6	39	184	223	0	10	10	39	194	233
VI Agril. Engineering				1						
Post Harvest Technology	1	30	0	30	3	0	3	33	0	33
Total	1	30	0	30	3	0	3	33	0	33
VII Plant Protection				1						
Integrated Pest Management	1	21	0	21	0	0	0	21	0	21
Bio-control of pests and diseases	1	35	0	35	0	0	0	35	0	35
Total	2	56	0	56	0	0	0	56	0	56
IX Production of Inputs at site				1						
Vermi-compost production	1	3	35	38	0	0	0	3	35	38
Organic manures production	1	10	20	30	0	0	0	10	20	30
Mushroom Production	1	26	4	30	0	0	0	26	4	30
Natural Farming	1	20	0	20	0	0	0	20	0	20
Total	4	59	59	118	0	0	0	59	59	118
X Capacity Building and Group Dyn	namics			-						
Leadership development	1	37	0	37	0	0	0	37	0	37
Formation and Management of										
SHGs	1	20	0	20	0	0	0	20	0	20
Mobilization of social capital	1	30	0	30	0	0	0	30	0	30
Entrepreneurial development of			_		_	_	_		-	
farmers/youths	1	20	0	20	0	0	0	20	0	20
Total	4	107	0	107	0	0	0	107	0	107
GRAND TOTAL	44	875	495	1370	44	31	75	919	526	1445

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

	No of				Par	ticipan	nts				
Thematic area	No. of		Others			SC/ST		Grand Total			
	courses	Μ	F	Т	Μ	F	Т	Μ	F	Т	
RURAL YOUTH											
Production of organic inputs	1	28	5	33	0	0	0	28	5	33	
Bee-keeping	1	38	7	45	5	3	8	43	10	53	
Post Harvest Technology	1	10	2	12	0	0	0	10	2	12	
TOTAL	3	76	14	90	5	3	8	81	17	98	

		Participants											
Thematic area	No. of course		Othe	rs	S	SC/S	Т	Grand Total					
	S	M	F	Т	Μ	F	Т	Μ	F	Т			
RURAL YOUTH	•												
Value addition	2	0	70	70	0	5	5	0	75	75			
Post Harvest Technology	1	0	12	12	0	0	0	0	12	12			
Income generation activities for empowerment of farm		1			1	2	3	2		10			
women	2	0	55	65	0	5	5	0	80	0			
TOTAL		1	13	14	1	3	4	2	16	18			
	5	0	7	7	0	0	0	0	7	7			

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

	No.				Pai	ticip	oants	5		
Thematic area	of	(Others	5	S	C/S	Γ	Grand Total		
	cour ses	Μ	F	Т	Μ	F	Т	Μ	F	Т
RURAL YOUTH										
Production of organic inputs	1	28	5	33	0	0	0	28	5	33
Bee-keeping	1	38	7	45	5	3	8	43	10	53
Value addition	2	0	70	70	0	5	5	0	75	75
Post Harvest Technology	2	10	14	24	0	0	0	10	14	24
Income generation activities for empowerment of					1	2	3			
farm women	2	10	55	65	0	5	5	20	80	100
TOTAL			15	23	1	3	4	10	18	
	8	86	1	7	5	3	8	1	4	285

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

	No of	Participants										
Thematic area	No. of	(Others			SC/ST		Grand Total				
	courses	M	F	Т	Μ	F	Т	Μ	F	Т		
Extension Personnel	•											
Integrated Pest Management	2	39	0	39	0	0	0	39	0	39		
Integrated Nutrient management	2	118	2	120	0	0	0	118	2	120		
TOTAL	4	157	2	159	0	0	0	157	2	159		

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

	No. of			nts								
Thematic area	cours	Oth			8		SC/ST			Grand Total		
	es	М	F	T	Μ	F	Т	Μ	F	Т		
Extension Personnel							•		•			
Irrigation Water Management	1	104	6	110	0	0	0	104	6	110		
TOTAL	1	104	6	110	0	0	0	104	6	110		

Training programmes for Extension Personnel including sponsored training – CONSOLIDATED (On + Off campus)

	No.				Pai	rticipan	ts			
Thematic area	of	of Others				SC/ST		Grand Total		
	cour ses	Μ	F	Т	М	F	Т	Μ	F	Т
Extension Personnel										
Integrated Pest Management	2	39	0	39	0	0	0	39	0	39
Integrated Nutrient management	2	118	2	120	0	0	0	118	2	120
Irrigation Water Management	1	104	6	110	0	0	0	104	6	110
TOTAL	5	261	8	269	0	0	0	261	8	269

Sponsored training programmes

No. of				No. of Participants						
Area of training	Course C		General		5	SC/ST		Grand Total		
	S	Μ	F	Т	Μ	F	T	Μ	F	Т
Crop production and management										
Increasing production and productivity of	4									
crops		173	30	203	0	0	0	173	30	203
Natural Farming	6	166	2	168	0	0	0	166	2	168
Total	10	339	32	371	0	0	0	339	32	371
Post harvest technology and value addition										
Processing and value addition	1	7	70	77	0	16	16	7	86	93
Total	1	7	70	77	0	16	16	7	86	93
Home Science	·									
Economic empowerment of women	1	2	35	37	0	0	0	2	35	37
Value Addition	1	0	20	20	0	0	0	0	20	20
Total	2	2	55	57	0	0	0	2	55	57
Agricultural Extension										
Capacity Building and Group Dynamics	2	22	36	58	10	0	10	32	36	68
Total	2	22	36	58	10	0	10	32	36	68
GRAND TOTAL	15	370	193	563	10	16	26	380	209	589

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

	N			I	No. of	Partic	cipant	S		
Area of training	No. of Courses	(Genera	ıl		SC/ST		Gr	and To	otal
	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т
Crop production and management										
Integrated crop management	1	79	1	80	0	0	0	79	1	80
Organic farming	1	5	40	45	0	0	0	5	40	45
Total	2	84	41	125	0	0	0	84	41	125
Post harvest technology and value add	ition									
Value addition	3	44	38	82	2	0	2	46	38	84
Total	3	44	38	82	2	0	2	46	38	84
Income generation activities										
Bee Keeping	1	40	12	52	0	0	0	40	12	52
Total	1	40	12	52	0	0	0	40	12	52
Grand Total	6	168	91	259	2	0	2	170	91	261

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Diagnostic visits	74	692	74	766
Field Day	4	484	8	492
Exhibition	3	6494	59	6553
Kisan Mela	1	1286	56	1342
Scientists' visit to farmers field	54	324	100	424
Plant/animal health camps	5	482	15	497
Farmers' seminar/workshop	3	1606	15	1621
Method Demonstrations	25	1529	25	1554
Celebration of important days	11	2409	262	2671
Animal health camps	6	170	3	173
Exposure visits	5	1062	8	1070
Farmers and Dignitaries visit to KVK	13	1245	15	1260
Lecture Delivered as a Resource Person	54	4121	88	4209
Lecture delivered in KVK Trainings	10	752	10	762
Farmers Meetings	20	423	75	498
Telephonic Help Line	862	862	0	862
Awareness Campaign	2	1564	2	1566
TOTAL	1152	25505	815	26320

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	3
Newspaper coverage	30
Popular articles	1
Radio Talks	2
TV Talks	0
Animal health Camps (Number of animals treated)	6
Social Media (No. of platforms Used)	5
Total	47

3.6 Online activities during year 2022

S. No.	Activity Type	Mode of implementation	Title of Program	No. of Programmes	No. of Participants/ Views
Α	Farmers training	-	-	-	-
В	Farmers scientist's	-	-	-	-
	interaction				
	programme				
С	Farmers seminars	-	-	-	-
D	Expert lectures	Online	Natural farming	2	323
	Total			2	323

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

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
-	-	-	-	-	-	-

Production of seeds by the KVKs

Production of planting materials by the KVK

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vagatabla goodlings	Chilli	Pvt. F1 Hy.	-	50000	75000.0	-
Vegetable seedlings	Tomato	Pvt. F1 Hy.	-	35000	52500.0	-
	Lime	Kagzi	-	500	10000.0	-
	Guava	Bhavnagar red	-	200	4000.0	-
	Mango	Kesar	-	350	70000.0	-
Fruit Plant	Sapota	Kali patti	-	200	40000.0	-
Fruit Plant	Coconut	Local	-	50	10000.0	-
	Custard Apple	Balanagari	-	200	5000.0	-
	Pomegranate	Sinduri	-	300	12000.0	-
	Pomegranate	Ganesh	-	230	6900.0	-
	Flowers (Rose, Annuals, Jasood, Perennials)	Different varieties	-	1500	37500.0	-
Ornamentals	Leafy ornamentals	Different varieties	-	200	6000.0	-
	Forest trees	Different varieties	-	500	10000.0	-
Total				89230	338900	-

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
BIO F Fouucts	Name of the bio-product	Kg	value (Ks.)	No. of Farmers
Bio Fertilizers	Vermi compost	3000	-	5
	Compost from farm waste	3000		5
Azolla	Azolla	500	-	20
	Total	6500	-	30

Production of livestock materials

Particulars of Live st	tock Name of the breed	Number	Value (Rs.)	No. of Farmers
-	-	-	-	-

4. Literature Developed/Published

A. KVK News Letter

B. Literature developed/published - NIL

C. Details of Electronic Media Produced

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

D. Deta	D. Details of Social Media Flatforms Created / Used									
S. No.	Type of social media	Title of social media	Number of Followers/ Subscribers							
	platform									
1	YouTube Channel	KVK – Bhavnagar	250							
2	Facebook page/ Account	KVK – Bhavnagar	4200							
3	Mobile Apps	-	-							
4	Whats App groups	15	5500							
5	Twitter Account	KVK – Bhavnagar	378							

D. Details of Social Media Platforms Created / Used

D. Success Stories / Case studies, if any

NIL

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

NIL

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	Cotton, vegetable	Spraying cow urine based	To prevent infestation of pests
		formulations	and diseases
2	Chilli, cotton	Use of fermented flour of	To prevent leaf curl in chilli
		pearl millet with buttermilk	and to prevent sucking pests
			in cotton
3	Pulses	Mixing ash with grains	To prevent storage pests.

5.1. Indicate the specific training need analysis tools/methodology followed for $$\rm NIL$$

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

- i) PRA
 - ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Layout of OFT

For FLD:

v.

- i) Baseline Survey and gap analysis
- ii) Farmers Group Identification
- iii) Identify the New variety/technology
- iv) Layout of FLDs
- v) Field day

5.3. Field activities

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

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
Junagadh Agriculture University, Junagadh	Source of information on Agril. Technologies and reporting to DEE office. We also demonstrate the Bio product <i>(Trhichoderma, Beauveria, Metarizium etc.)</i> developed by JAU and provided to the farmers. KVK has conducted four Certification courses for Input Dealers of the District on Integrated Pest management.
Department of Agriculture, Govt. of Guj., Bhavnagar	KVK provided training for village level workers i.e. Gram Sevak, prepared contingency plan for district, participated in planning extension activities in district, Resource person for the programmes related to farmers and farm women. KVK has also jointly organized farmers fair and Exhibition at KVK Premises.
Department of Horticulture, Govt. of Guj., Bhavnagar	Conducted a vocational training on value addition, participated in planning extension activities in district, Resource person for the programmes related to farmers and farm women
Department of Ani. Hus Govt. of Guj., Bhavnagar	Subject Matter specialist of KVK participates in the animal treatment camps organized by department
ATMA, Govt. of Guj., Bhavnagar	Jointly conducted field visits, planned activities of ATMA and KVK as well as KVK conducted training programmes for extension workers of ATMA. KVK has also jointly organized farmers fair and Exhibition at KVK Premises.
National Horticulture Mission	PC, KVK acted as a member in the evaluation committee of NHM for approval of nurseries, Also Organized a farmers' seminar on Horticultural Crops.
Farmers' Training Centre, Bhavnagar	Knowledge sharing in FFS and other programmes
Gujarat State Seed Corporation	Source of seed related information for farmers
Lokseva Mahavidyalaya, Lokbharti	Jointly organized training programme for farmers as well as scientists of KVK delivered lectures for the students of different agricultural subjects
Lokbharti University for Rural Innovation.	KVK has provided a technical support for formatting the syllabus of various courses offered by the university. KVK also arranged the lectures on various topics of agriculture and food processing for the students of the university.
CSPC, Talaja	Training of Extension Personal of Field workers has been organized collaboration with the agency
Vivekanand Research and Training Institute, Bhavnagar	Training of farmers and Extension officers has been organized collaboration with the agency
Parishram Foundation, Dhasa	Training of farmers and Extension officers has been organized collaboration with the agency

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

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)	
01	Meetings	05	05	-	-	
02	Research projects	-	-	-	-	
03	Training programmes	03	03	03	-	
04	Method Demonstrations	12	12	12	-	
05	Extension Programmes					
06	Exposure visit	03	01	01	-	
07	Lecture delivered	15	15	15	-	

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
1	Skill India	Conducted the Trainings on Skill Development	-	-	-

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
-	-	-	-	-	-

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 in Oilseeds	Trainings, Inputs demonstrations,	1,80,000.0	1,32,000.0	-
2	CFLD in Pulses	Soil testing, etc.	2,55,000.0	1,95,000.0	-

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

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:

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	SAP (Swachhata Action Plan)	Inputs Demonstrations, Awareness Campaigning, etc.	22,000.0	21,000.0	-
2	Sponsored Training Programme for Extension Functionaries	Training to the Extension workers of Shreeji Education Seva Trust, Dhasa (NGO)	23000.0	23000.0	_

8. Innovator Farmer's Meet

Sl.No.	Particulars	Details
1	Have you conducted Farm Innovators meet in your district?	No

9. Farmers Field School (FFS)

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

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

Sl. No.	Crop / Enterprise	Farmers' Feed Back					
1	Groundnut (<i>Kharif</i>)	The inputs used as per the suggestions and it helped to reduce pest incidence and weed problem also. Cost of fertilizer application is saved due to soil health card. Application of Micro nutrients helped to overcome <i>chlorosis</i> in groundnut. Bio pesticides are cost effective. Adoption of INM helped to increase grain weight.					
2	A uniform growth of crop was observed. However, the crop is vitiated duSesame (Kharif)A uniform growth of crop was observed. However, the crop is vitiated duand continuous rainfall during the pod development stage and at thharvesting and threshing.						
3	Cotton	The inputs helped to increase the productivity of cotton and also helpful to reduce the cost of cultivation. Due to the bio inputs, the infestation of pink boll worms was minimum. Immature flower and bud drooping and reddening of leaves was also minimum due to proper nutrient management.					
4	Castor	Castor variety GCH- 9 prove effective and gave higher yield as compared to other locally cultivated varieties.					
5	Chilli	Various bio inputs found useful for reducing the cost of cultivation, and also useful for effective control of sucking pest					
6	Wheat	GW – 451 variety gave higher yield as compared to locally cultivated variety					
7	Chickpea	Different Bio Inputs prove effective for the control of Insect and pest attack, and the chickpea variety Gujarat Junagadh Gram – 5 gave higher yield as compared to local variety in irrigated farming condition.					
8	Chaff Cutter	The chaff cutter is very useful for cutting green and dry fodder. It reduces the wastage of fodder while animal feeding.					
9	Wheel hoe	The wheel hoe is useful for saving time and labour cost.					
10	Bhindi Plucker	Use of Bhindi plucker helps to avoid irritation and injury in finger hence work efficiency could be maintain for continuous 3 to 4 day harvesting					
11	Bypass fat supplementation	It resulted in increased milk production as well as fat percent.					
12	Mineral mixture supplementation to cow	Supplementation of minerals results in increased milk production and improved estrous cycle. It resulted in good condition of animals and increased milk fat percent.					
13	Probiotics supplementation	It improved feed intake and resulted in better digestion of feeds and increased milk production.					
14	Application of 0.1% Potassium permanganate as post milking teat dipping	Application of Potassium permanganate ($@ 0.1 \%$) post milking teat dipping solution resulted in reduction of number of subclinical mastitis cases and it helped in gaining previous milk production in cattle suffering from subclinical mastitis.					
15	prophylactic treatment regime	Supplementation of inputs resulted in higher milk production at peak period. Cattle came early in estrous period after calving and conceive within four months of calving.					

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

Sl. No.	Crop / Enterprise	Farmers' Feed Back					
1	Groundnut (<i>Kharif</i>)	Cost of fertilizer application is saved due to soil health card. Application of Micro nutrients helped to overcome <i>chlorosis</i> in groundnut. Bio pesticides Beauveria bassiana helped to control the sucking pest in the crop.					
2	Sesame (<i>Kharif</i>)	A uniform growth of crop was observed. However, the crop is vitiated due to heavy and continuous rainfall during the pod development stage and at the time of harvesting and threshing.					
3	Cotton	<i>Beauveria</i> and Neem Oil proved useful to minimize initial infestation of sucking pest. The infestation of pink boll worms was minimum due to the mass trapping of adults of PBW in Pheromone traps. Immature flower and bud drooping and reddening of leaves was also minimum due to proper nutrient management.					
4	Castor	Castor variety GCH- 9 prove effective and gave higher yield as compared to other locally cultivated varieties.					
5	Chilli	Various bio inputs found useful for reducing the cost of cultivation, and also useful for effective control of sucking pest					
6	Wheat	GW – 451 variety gave higher yield as compared to locally cultivated variety					
7	Chickpea	Different Bio Inputs prove effective for the control of Insect and pest attack, and the chickpea variety Gujarat Junagadh Gram $- 5$ gave higher yield as compared to local variety in irrigated farming condition.					
8	Chaff Cutter	The chaff cutter is very useful for cutting green and dry fodder. It reduces the wastage of fodder while animal feeding.					
9	Wheel hoe	The wheel hoe is useful for saving time and labour cost.					
10	Bhindi Plucker	Use of Bhindi plucker helps to avoid irritation and injury in finger hence work efficiency could be maintain for continuous 3 to 4 day harvesting					
11	Bypass fat supplementation	It resulted in increased milk production as well as fat percent.					
12	Mineral mixture supplementation to cow	Supplementation of minerals results in increased milk production and improved estrous cycle. It resulted in good condition of animals and increased milk fat percent.					
13	Probiotics supplementation	It improved feed intake and resulted in better digestion of feeds and increased milk production.					
14	Application of 0.1% Potassium permanganate as post milking teat dipping	Application of Potassium permanganate (@ 0.1 %) post milking teat dipping solution resulted in reduction of number of subclinical mastitis cases and it helped in gaining previous milk production in cattle suffering from subclinical mastitis.					
15	prophylactic treatment regime	Supplementation of inputs resulted in higher milk production at peak period. Cattle came early in estrous period after calving and conceive within four months of calving.					

11. Technology Week celebration during 2022: YES

Period of observing Technology Week:	22 nd February to 28 th February 2022
Total number of farmers visited:	700/day
Total number of agencies involved	3 Agencies (KVK - Bhavnagar, ATMA – Bhavnagar, Dept. of Agriculture, Bhavnagar
Number of demonstrations visited by the farmers within KVK campus	 10 Demonstration Units Visited (Roop top rain water harvesting unit, Drip Irrigation system unit, Farm Mechanization unit, Vermi Composting unit, NADEP Composting unit, Azolla Unit, Dairy unit, Plug Nursery unit, Renewable Energy Park)
Extension Activities conducted	Farmers Trainings, Meetings, Exposure Visits, Method Demonstrations, Exhibitions

12. IMPACT

- A. Impact of KVK activities NIL
- B. Cases of large scale adoption NIL

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

13. Kisan Mobile Advisory Services

	Message Type	Type of Messages							
Name of KVK		Crop	Weather	Marketing	Awareness	Other enterprise	Total		
Bhavnagar	Text only	-	-	-	-	2	2		
	Total Messages	-	-	-	-	2	2		
	Total farmers Benefitted	-	-	-	-				

14. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

				Details	of productio	on	Amou	nt (Rs.)	
SI. No	Demo Unit	Year of establishmen t	Are a (ha)	Variety	Produce	Qty	Cost of input s	Gross incom e	Remarks
1	Vermi Compost Unit	2016	-	-	Vermi Compost	2 tons	-	20000	Sold to other department of Host Organization
2	NADEP Compost Unit	2017	-	-	Compost	1 tons	-	-	Used in the KVK Demonstratio n farm
3	Mushroo m Unit	2019	-	Oyster Mushroo m	Mushroo m	25 kg	-	-	Used for the vocational trainings of Value addition

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

Nama	Dete ef	Data of Data of		Detail	s of produ	ction	Amoui	nt (Rs.)	
Name of the crop	Date of sowing	Date of harvest	Area (ha)	Variety	Type of Produce	Qty. (kg)	Cost of inputs	Gross income	Remarks
Cotton	7/7/2022	16/01/2023	4	Pvt.	Seed cotton	7540	-	612306	-
Groundnut	10/7/2022	5/12/2022	3.5	GJG – 32	Pod	180	-	12400	-
Chickpea	7/12/2022	28/03/2023	1	GJG-5	Seed	2300	-	115000	-

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

SI.	Bio	Name of		Amount (Rs.)		
No.	Products	the Product	Qty (kg)	Cost of inputs	Gross income	Remarks
1	Bio	Vermi				
1	Fertilizers	compost	5000	-	-	-
		Compost				
		from farm		-	-	-
		waste	4000			
2	Azolla	Azolla	500	-	-	-
		Total	9500	-	-	-

D. Performance of instructional farm (livestock)

	Name	Details	of productio)n	Amou		
SI. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty. (Lit)	Cost of inputs	Gross income	Remarks
	Cattle		Milk	2000	85000.0	68000.0	-
1	(Cow)	Gir	Ghee	15 kg	24500.0	18500.0	

E. Utilization of hostel facilities

Accommodation available (No. of beds): 30

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Jan 2022	-	-	-
Feb 2022	-	-	-
March 2022	-	-	-
April 2022	15	30 (2days)	-
May 2022	28	420 (15 days)	-
Jun 2022	-	-	-
Jul 2022	15	225 (15 days)	-
Aug 2022	-	-	-
Sept 2022	-	-	-
Oct 2022	-	-	-
Nov. 2022	28	210 (18days)	-
Dec. 2022	18	324 (18days)	-

F. Database management		
S. No	Database target	Database created
-	-	-

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

		Details of	Details of Activities conducted						Area
Amou nt sancti on (Rs.)	Expendit ure (Rs.)	infrastruct ure created / micro irrigation system etc.	No. of Training program mes	No. of Demonstra tion s	No. of plant materi als produc ed	Visit by farme rs (No.)	Visit by offici als (No.)	ty of water harvest ed in '000 litres	Area irrigate d / utilizati on pattern
-	-	-	-	-	-	-	-	-	-

H. Performance of Nutritional Garden at KVK farm

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
	Vegetable crops	08	450
63.58 Square Metter	Fruit crops	-	

Nutritional Garden developed at Village Level

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
02	Vegetable crops	Kharif – 08 Rabi - 08	50 50
01	Vegetable crops	Mushroom	10

H. Details of Skill Development Trainings organized

	Name of	N. C	Name of Duration			No. of p	articipant	S	
S.No.		Name of QP/Job role	Name of Duration DP/Job role (hrs)	SC	s/STs	01	thers	Т	otal
	Institutes			Male	Female	Male	Female	Male	Female
-	-	-	-	-	-	-	-	-	-

15. FINANCIAL PERFORMANCE A. Details of KVK Bank accounts

Bank accoun t	Nam e of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institut e	State Bank of India	SANOSAR A	SBIN00600 25	KRISHI VIGYAN KENDRA LOKBHARTI GRAMVIDYAPI TH	308441069 35	36200263 4	SBIN00600 25

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

S. No.	Particulars	Sanctioned	Released	Expenditure
	curring Contingencies			
1	Pay & Allowances	172.90	172.90	172.90
2	Traveling allowances	0.52	0.52	0.52
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1.30	1.30	1.30
В	POL, repair of vehicles, tractor and Equipments	1.17	1.17	1.17
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1.02	1.02	1.02
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.11	0.11	0.11
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2.13	2.13	2.13
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.09	0.09	0.09
G	Training of extension functionaries	0	0	0
Н	Maintenance of buildings	0.02	0.02	0.02
Ι	Establishment of Soil, Plant & Water Testing Laboratory	0	0	0
J	Library	0	0	0
	TOTAL (A)	179.26	179.26	179.26
B. No	n-Recurring Contingencies			
1	Works	0	0	0
2	Equipments including SWTL & Furniture	0	0	0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0	0	0
4	Library (Purchase of assets like books & journals)	0	0	0
TOTA	AL (B)	0	0	0
C. RF	CVOLVING FUND	0	0	0
GRA	ND TOTAL (A+B+C)	179.26	179.26	179.26

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2018 to March 2019	5.53	6.58	7.46	4.65
April 2019 to March 2020	4.65	6.97	6.49	5.13
April 2020 to March 2021	5.13	8.94	5.24	8.83
April 2021 to March 2022	8.83	34.22	16.24	26.81
April 2022 to March 2023	26.81	42.53	22.64	46.70

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/Offline)	Dates
Mr. P. M. Kyada	Subject Matter Specialist	Zonal Review Workshop of ARYA	ZPD	Online	15/02/22
Dr. S. Chaudhary	Subject Matter Specialist	Advance production technologies of underutilized vegetable crops under arid and semi arid conditions	SKNAU, Jobner	Jaipur	21/02/22
Mrs. S. N. Boricha	Subject Matter Specialist	Environment leadership and life skills for women scientists and technologies	DoScience and technology, GoI	Online	07/03/22
Mrs. S. N. Boricha	Subject Matter Specialist	Gender and Nutririon survey	ATARI, Jabalpur	Online	20/04/22
Dr. N. P. Shukla	Sr. Sci & Head	Development of a food practice compedium on millet		Online	16/09/22
Dr. N. P. Shukla	Sr. Sci & Head	Special capaign 2.0 for disposal of pending matters	ICAR, New Delhi	Online	26/09/22
Mrs. S. N. Boricha	Subject Matter Specialist	Online review meeting on second phase data collection of NSV	ATARI, Jabalpur	Online	13/12/22

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

Name of the village	Total No.of familiessurveyed		No. of farmers covered in each	Chan inco (Rs/ı	me
village	suiveyeu		intervention	Before	After
		Integrated crop management through introduction of new variety, INM, IPM and crop rotation	150	25000	35000
		Introduction of high yielding variety in wheat crop	130	18000	27000
Gundrana 300		Livestock production management through nutritional supplementation and animal health management	50	14000	24000
		Groundnut Processing	2	40000	67000
		Introduction of Organic farming through awareness camps	15	14000	19500

		Integrated crop management through introduction of new variety, INM, IPM and crop rotation	100	20500	31500
Medha	300	Livestock production management through nutritional supplementation and animal health management	50	19000	34000
		Introduction of Organic farming through awareness camps	20	10000	23000

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

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered
1	PKVY	2	Farmers Trainings, Inputs Demonstrations, Field Visits	12	20
2	NARI	1	Trainings of Farm women, Field Visits, Demonstration of Drudgery reduction tools	4	35

19. Details of Progress of ARYA Project 2022

Name of	No of Traini	No of	No of Extensio	Extensio NO OI N		Chang inco	-	No. Of Group
Enterprise	ng Condu cted	Beneficiarie s	n Activities	Beneficiarie s	establishe d	Befor e	Afte r	s Forme d
Spice Pulverizing Unit (Chilli, Turmeric and Coriander)	7	236	5	45	2	-	-	2

20. Details of SAP

S. No.	Types of major Activity conducted- Swachhta Pakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
1	Awareness Workshop	5	225
2	Swachhta Pakhwada celebration	15	536
3	Cleaning of KVK office premises and surrounding campus area	4	72

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

NIL

APR SUMMARY

· · · · · · · · · · · · · · · · · · ·								
Clientele	No. of Courses	Male	Female	Total participants				
Farmers & farm women	44	919	526	1445				
Rural youths	8	101	184	285				
Extension functionaries	5	261	8	269				
Sponsored Training	15	380	209	589				
Vocational Training	6	170	91	261				
Total	78	1831	1018	2849				

1. Training Programmes

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	25	20	-
Pulses	50	20	-
Cereals	50	14	-
Vegetables	25	5	-
Commercial	36	14	-
Hybrid crops	-	-	-
Total	186	73	-
Livestock & Fisheries	140	-	140
Other enterprises	190	10	-
Total	330	10	140
Grand Total	516	83	140

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	3	9	9
Livestock	1	10	10
Various enterprises	0	0	0
Total	4	19	19
Technology Refined			
Crops	-	-	-
Livestock	-	-	-
Various enterprises	-	-	-
Total	-	-	-
Grand Total	4	19	19

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1152	26320
Other extension activities	0	0
Total	1152	26320

5. Mobile Advisory Services

	Message	Type of Messages					
Name of KVK	Туре	Crop	Weather	Marketing	Awareness	Other enterprise	Total

Bhavnagar	Text only	0				2	2
	Total Messages	0				2	2
	Total farmers Benefitted	0	0	0	0	39097	39097

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	0	-
Planting material (No.)	89230	338900.0
Bio-Products (kg)	6500	-
Livestock Production (No.)	0	-
Fishery production (No.)	0	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	-	-
Water	-	-
Plant	-	-
Total	-	-

8. HRD and Publications

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

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