ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2020
(January 2020 to December2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
	Office	FAX		
KVK-Vadodara (Mangalbharti) At.&Po.Golagamdi, Ta.Sankheda, Dist. Chhotaduepur.-391125	02665-243240 08141150500	``	kvkvdr@gmail.com	www.kvkvadodara.org (144165)

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

Address	Telephone		E mail	Website address
	Office	FAX		
Mangalbharti At.&Po.Golagamdi, Ta.Sankheda, Dist. Chhotaduepur.-391125	02665-243240 08141150500	-	kvkvdr@gmailcom	www.kvkvadodara.org

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. B. M. Mehta	02665-243240 08141150500	094268 34346	bmehta_61@rediffmail.com

1.4. Year of sanction: 1995

1.5. Staff Position (as on 31 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.B.M.Mehta	-	37400-9000-67000	9000	17/09/2013	
2.	Subject Matter Specialist	C. R. Patel	Agronomy	15600-5400-39100	5400	23/06/2011	
3.	Subject Matter Specialist	M. C. Brahmbhatt	Horticulture	-do-	5400	11/07/2011	
4.	Subject Matter Specialist	J. P. Meena	Animal Science	-do-	5400	07/07/2011	
5.	Subject Matter Specialist	Vacant					
6.	Subject Matter Specialist	B. L. Dhayal	Ext.Edu	-do-	5400	23/08/2013	
7.	Subject Matter Specialist	V.D.Patel	Plant.Prot	-do-	5400	06/02/2017	
8.	Programme Assistant	K. K. Sutaria	-	9300-4200-34800	4600	01/12/2008	
9.	Computer Programmer	M.R.Kulkarni	-	-do-	4600	21/01/2008	
10.	Farm Manager	Hariom Sharma	-	-do-	4200	02/09/2013	
11.	Accountant/Superintendent	V.V.Shah	-	-do-	4600	04/06/2001	
12.	Stenographer	C.M.Raval	-	5200-2400-20200	2400	02/09/2013	
13.	Driver 1	R.N.Prajapati	-	5200-2000-20200	2400	17/01/2008	
14.	Driver 2	Z. S.Vora	-	-do-	2000	27/06/2011	
15.	Supporting staff 1	P.B.Rathwa	-	5200-1800-20200	1900	05/09/2003	
16.	Supporting staff 2	J.R.Tadvi	-	-do-	1900	29/07/2002	

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.30
2.	Under Demonstration Units	2.00
3.	Under Crops	8.00
4.	Horticulture	1.50
5.	Pond	0.50
6.	Others if any	6.70

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	2001	561.43	18,23,216/-			
2.	Farmers Hostel	ICAR	2011	300.75	26,57,744/-			
3.	Staff Quarters (8+6=14)	ICAR	2001	694.61	29,23,910/-			
4.	Fencing	ICAR	2006	1709 Rmt.	3,45,000/-			
5	Rain Water harvesting system	ICAR	2007	62x39mt.	9,78,000/-			
6	Threshing floor	ICAR	2010	41.82 (sqmt)	1,93,440/-			
7	Farm godown	ICAR	2010	55.76 (sqmt)	2,86,422/-			
8	Implement shed	ICAR	2010	55.76	2,99,000/-			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor with implements (Massey Ferguson)	01/11/19	6,50,000=00	211 hrs.	Good Working condition
Mahindra Bolero	29/03/10	6,25,000=00	210608	Poor condition
Bajaj Discover	09/02/11	48,251=00	93875	Poor condition

C) Equipment's& AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Electronic type writer	30/03/95	16,380=00	Poor condition due to technical fault
Steel cupboard	30/03/95	3,300=00	Good
Iron cupboard	30/03/95	3,100=00	Good
Iron Table	30/03/95	6,370=00	Good
Chair	30/03/95	5,860=00	Good
Tractor Plough	31/03/95	15,000=00	Good
Slide Projector	31/03/95	16,500=00	Poor condition due to fault
Overhead Projector	31/03/95	10,500=00	Poor condition
VCR (onida)	01/09/96	14,300=00	Poor condition

Micro Scope	19/09/96	3,500=00	Poor condition
Camera (Canon)	28/09/96	2,350=00	Poor condition due to fault
Moving trolley	28/09/96	6,500=00	Good
Store well	30/09/96	10,800=00	Good
Store well	30/09/96	3,200=00	Good
Office table	30/09/96	6,525=00	Good
Office chair	30/09/96	1,400=00	Good
Glass door cupboard	30/09/96	3,900=00	Good
Office Table	30/09/96	2,175=00	Good
Office chair	30/09/96	350=00	Poor condition
ColourT.V.(crown)	15/10/96	18,800=00	Poor condition
Office Table	30/10/96	3,200=00	Good
Office chair	30/10/96	350=00	Good
Microphone PCM with set accessories	11/03/98	8,495=00	Poor condition
Slide Projector with remote	01/04/98	11,300=00	Poor condition
Glass door cupboard	04/03/2000	3,150=00	Good
Wind wheel	20/10/2000	15,00=00	Good
Store well	31/01/2001	29,000=00	Good
Office chair	31/01/2001	3,000=00	Good
Table	31/01/2001	11,500=00	Good
File rake	31/01/2001	5,100=00	Good
Museum room self	28/02/2001	20,900=00	Good
Dias	01/03/2001	9,056=00	Poor condition
Library table	15/03/2001	22,000=00	Poor condition
Plastic chair	30/03/2001	11,900=00	Poor condition
Multi panel kit-12	31/03/2001	11,954=00	Poor condition
Flash kit-4	31/03/2001	12,5000=00	Good
Eco display with 3 panel	31/03/2001	5,773=00	Good
Info panel wall type	31/03/2001	6,611=00	Good
Kitchen mixture	31/03/2002	1,995=00	Good
Cupboard & stand	31/03/2003	9,975=00	Good
Xerox machine (Canon-7160)	30/03/2004	79,800=00	Poor condition
Rotavator (rotary)	31/12/2004	49,000=00	Poor condition

Office Table	30/09/2005	33,500=00	Poor condition
Office chair	30/09/2005	9,600=00	Good
File rake	30/09/2005	6,400=00	Good
Computer with Accessories (Compaq)	14/02/2006	64,500=00	Poor condition
Steel cupboard	26/02/2006	10,440=00	Good
Plastic chair	26/02/2006	4,560=00	Poor condition
Pneumatic cotton planter	28/03/2006	47,400=00	Under TMC-MM-II Grant
Power weeder	28/03/2006	33,500=00	Under TMC-MM-II Grant
Computer table	31/03/2006	3,165=00	Poor condition
Office table	31/03/2006	3,165=00	Poor condition
Computer chair	31/03/2006	4,310=00	Poor condition
Plastic chair	31/03/2006	8,125=00	Poor condition
Rake	31/03/2006	16,235=00	Poor condition
Storage cupboard	31/03/2006	25,250=00	Under STL grant
Storage cupboard	31/03/2006	5,150=00	”
Cupboard	31/03/2006	4,500=00	”
Angel rake	31/03/2006	7,100=00	”
Store well	31/03/2006	12,300=00	”
Office table	31/03/2006	7,500=00	”
Stand frame rake	31/03/2006	6,200=00	”
Revolving chair	31/03/2006	43,10=00	”
Revolving stool	31/03/2006	2,700=00	”
Plastic stool	31/03/2006	755=00	”
Store well cupboard	31/03/2006	15,000=00	”
Fixed wall steel cupboard	31/03/2006	85,021=00	”
Hot Plate Rectangular (Nova-NV-8535)	28/02/2006	7,500=00	Poor condition due to fault
Rotary shaker (Nova-NV-853)	28/02/2006	25,250=00	Good
Voltage stabilizer (Nova-NV/14)	28/02/2006	16,000=00	”
“EL” Microprocessor Flame Photometer (Model-CL-387)	28/02/2006	35,250=00	Under STL grant
“EI” Microprocessor based pH meter (Model-	28/02/2006	15,275=00	Poor condition due to fault

1012)			
“EI” Microprocessor based Conductivity/TDS meter (Model-1601)	28/02/2006	17,450=00	Poor condition due to fault
Single pan balance ‘K-Roy” (Model: K-14 Deluxe)	28/02/2006	11,950=00	Good
Electronic Balance: Multi-function series (Model: Swis-310)	28/02/2006	14,900=00	Good
Visible Spectrophotometer (FGSL-177 Scanning)	02/03/2006	55,944=00	Good
Electronic Automatic Kel Plus Micro- processor based Twelve Place macro block Digestion System (Model: KES 12 L)	16/03/2006	96,020=00	Poor condition due to fault
Electronic Kel Plus Micro- processor based Automatic Distillation System (Model: DISTY-EM)	16/03/2006	1,25,350=00	Poor condition due to fault
Sampling Augers (Hand size 3”)	25/03/2006	1,200=00	Good
Sampling Augers (Hand size 6”)	25/03/2006	2,150=00	Good
Extension Rod - Size: 3”	25/03/2006	800=00	Under STL grant
Size: 6”	25/03/2006	1,050=00	Good
Refrigerator 330 Lit (Ken star-SR)	27/03/2006	15,000=00	Good
Stabilizer	27/03/2006	500=00	Poor condition due to fault
‘Nova’ Willey mill stainless steel body	06/03/2006	21,550=00	Poor condition due to fault
‘Nova’ Horizontal shaker-Kahn-Platform	06/03/2006	24,975=00	Poor condition due to fault
“Mac” Electrically Heated all glass Distillation apparatus (Model: MSW-193)	06/03/2006	16,350=00	Poor condition due to fault
Test Sieves Size: 3.35mm	25/03/2006	475=00	Good
Size: 2.00 mm	25/03/2006	475=00	“
Soil Hydrometer Range: 58-92%	25/03/2006	700=00	“
High speed stirrer: IS: 2720IV)	25/03/2006	11,400=00	“

Hand/Sugar Refractometer	25/03/2006	2,500=00	“
Hanna Pocket pH Meter	25/03/2006	2,600=00	”
Hanna Pocket TDS Meter	25/03/2006	2,450=00	”
Aero Blast Sprayer (Aspee-Mod.No.ATB/6HDP)	06/02/2007	86080=00	Under TMC-MM-II
LCD Projector (Panasonic-Model. No.-PT-PISD1500luens.	16/03/07	73010=00	Poor condition and not working condition so, this projector is buyback and purchase new Projector EPSON-EX-31
DVD Handy Cam (Sony.Model:608E	20/03/07	20500=00	Poor condition
Digital Camera (OriteMod.No.-C8000	20/03/07	9200=00	
Trolley With Cabinet	16/03/07	10688=00	
Projector Screen with Stand (Size:52”70)	16/03/07	11560=00	Poor condition
Seed cum fertilizer drill	28/11/10	30000=00	Under ICAR grant Poor condition
Projector EPSON-EX-31	24/3/17	33700=00	Working Conditions
Hitachi Air Condition No.2	23/3/17	80000=00	Working Conditions
Nikon Digital Camera D-5300 & Sony Handy-cam PJ-675	14/3/17	94800=00	Working Conditions
RO with Cooler	20/3/17	79990=00	Working Conditions
Computer with Accessorizes No.3	14/3/17	149953=00	Working Conditions
Office Table (7+2)	28/3/17	41800=00	Working Conditions
STRF METER	18/11/2015	95200=00	Working Conditions
Mridaparikshak	30/03/2017	90300=00	Faulty instruments

1.8. Details ofSACmeetingsconducted in the year 2020

Date	Name and Designation of Participants	Salient Recommendations	Action taken
17-01-2020	**1. Sh. Dhirubhai B. Desai** Chairman, Mangalbharti Trust. **2. Dr.AmolBhalerao** Scientist, ATARI, Pune **3. Dr. Arun Patel** DEE, AAU, Anand **4. Sh. M.K.Kureshi** Joint director of Agri (Ext.) Dept. of Agri. **5. Dr.N.I.Shah** Professor & Head, Dept. of Horti., BACA,AAU,Anand. **6. Dr.P.K.Sharma** Senior . Scientist & Head, KVK Kheda **7. V.R. Damor** ACF, SF Division, Vadodara **8. Dr. R.G. Machhar** Unit Head, Pulse research station,AAU, **9. Dr.V.K.Garasia,** Veterinary Officer, Sankheda **10. Sh.M.H.Baria** Range Forest officer, Bodeli **11. Dr. S.K.Raval** Professor , Dept. of Medicine, Veterinary College, AAU, Anand **12. Sh.N.M.Vasava** Dist. Agril. Officer, Vadodara **13. Sh.S.V.Dholikiya** Ex Officer Sankheda **14. Sh.P.B.Patel** Agri. Commissioner of Industries & GM of Dist. Ind.Center	Vadodara district was bifurcation in 2013 and KVK-Vadodara falls under the jurisdiction of new established district Chhotaudepur. Therefore, change the name of KVK-Vadodara to KVK-Chhotaudepur at ICAR-ATARI level.	Write a letter to ATARI but no reply till today. Recently ICAR seeking the information regarding new districts
		Introduce and demonstrate the High value crops like Seed Species and Medicine plants in the district.	Seed spice introduction is not suitable to district but KVK try to turmeric introduction in the district. Recently GMPB and KVKs coordinated for cultivation of Medicinal & Aromatic plant cultivation in all the district of Gujarat
		Prepare Impact study of FLDs, OFTs and trainings with the help of SMS extension in all the discipline including the parameter of social, economical and environment aspects.	Earlier study was conducted on impact of FLDs on Greengram and Mineral mixture. Results were presented in AGRESCO –Social Science group, AAU. Presently Study on kitchen gardening is in progress. Details results of earlier impact studies are present by SMS Agril.Extension.
		Recruit the SMS- Home Science as early as possible for effective activities of value addition in Soybean and others	Published Advertisement on 19.12.2020 & received the application, further process will be carried out in consultation with ATARI.
		In regards of News paper coverage, mention the total number of copies in circulation for a particular area of the coverage of News paper	Suggestion incorporated during the reporting and APR.
		For FLD on marigold collect information from IIHR/IARI for suitable cultivar and use that cultivar in FLD instead of private varieties	It was not possible to implement FLD due to unavailability of seeds at IARI
		Mention the details of distance of local practices in FLD in High density planting (HDP) in Cotton.	Details of HDP cotton are in appendix-
		Collect sample of plants / weeds which used as cattle feed in the district and send it to AAU, Anand for identification of species	Due to COVID-19 pandemic the exercise was not possible to complete. The same task will be completed in upcoming season (Kharif)
		To be environment sensitive avoid the single use plastic bottles and materials in the office premises and to aware the farmers about hazardous effect of single use plastic material, to educate the farmers about natural mulching instead the plastic mulching	We try to minimize the single use plastic in KVK campus. Also aware the farmers about the same. KVK scientists aware the farmers about use of organic / natural mulching and restrict the plastic mulch.
		Climate changes in particular location should be considered while implementing / laid down the FLDs and OFTs.	KVK scientists considered the climate changes in FLDs and OFTs. Details are in slide no.
		To promote Agro forestry and bamboo plantation in collaboration with forest department.	At present the standing plantation of Eucalyptus, Casuriana&Subabul is removed within short period of time, after that the bamboo plantation will possible,

	Chhotaudepur **15. S.C.Sisodiya** Hori. Offi. Vadodara **16. Sh. P.J.Bariya** Hori. Offi. Chhotaudepur **17. Sh. K.C. Pathak** LDM, Bank of Baroda, Bodeli **18. Sh.M.M.Baira** Irrigation Dept. Sankheda **19. TarbadaRameshbhai** Progressive Farmer **20. BariaDineshbhaiChimanbhai** Progressive Farmer **21. TarbadaDilipsinhDamanshin** Progressive Farmer **22. TarbadaDamyantiben** Progressive Women farmer. **23. Ms. JasodabenTarbada** Progressive Women farmer. **24. Ms. JasodabenTarbada** Progressive Women farmer. **25. Dr.B.M.Mehta** Seni. Scientist & Head, KVK Vadodara **26. Sh. C.R.Patel** SMS (Agronomy), KVK-Vadodara 27. **Sh. J.P.Meena** SMS (Animal Science), KVK-Vadodara **28. Sh. M.C.Bhrambhatt** SMS (Horticulture), KVK-Vadodara. **29. Sh. B.L.Dhayal** SMS (Agril. Extension), KVK-Vadodara **30. Sh. V.D.Patel** SMS (Plant. Protection), KVK- Vadodara **31. Sh. Keyur Patel** SMS (Agromet) KVK Vadodara	Remove Eucalyptus plants from demonstration unit and replace it with other useful plants.	Contract for cutting of Eucalyptus is in process. It will be replca with bamboo and fruit crop plantation.
		KVK activities shall work to promote doubling farmer's income and prepare its documentation properly.	Technologies demonstrated & documented to promote doubling farming income in selected DFI villages. Introduction of Mushroom. Border plantation of fruit crops Introduction of Summer Sesamum & Green gram Introduction of Back yard poultry Introduction of HDP in cotton
		Give focus on nutritional security in the district and popularize the crops like Moringa/ drumstick plantation among tribal farmers of the district.	KVK provides Moringa plants (var. PKM-1) for border plantation. Moringa plants also supplied to Anganwadi workers during celebration of PoshanMahh.
		To reduce the attack of Fall Army Warm aware the farmers about crop rotation and avoid the mono cropping of Maize in the operational area and increase the area of Chickpea.	To reduce the FAW in Maize, KVK organized the FLD on " IPM for management of FAW in Maize"
		Install solar power unit in KVK building for demonstration of renewable energy	We contacted for solar plant installation, but the cost is very high approx. Rs.5.0 lakh and no specific budget is available for that.
		Increase the technical backstopping activities with FPO in the district	Training &FLDs were conducted on Greengram, paddy, sesame and Mushroom cultivation for FPO farmers.
		Increase the Seed production of Urdbean and Soybean crops	KVK took the program of certified seed of soybean, but due to heavy rain in harvesting stage the production is not suitable for seed. Last year summer / Foundation Certified were not available for Urdbean Seed production. At present KVK procure 200 kg certified seed from NSCSecunderabad for summer season seed production.
		To control the migration of tribal people from district, introduce the new summer crops in the tribal area.	KVK organized skill training on Mushroom cultivation in Tribal area. After that Dept.of Horticulture and District Panchayat implemented the pilot project on Mushroom cultivation in the district. Approx. 300 farmers included in this project. This may helpful to reduce the Migration and increase the mobility of farmers. KVK also introduce and demonstrated the Back yard poultry (Kadaknath) in tribal area in collaboration with ATMA for secondary source of income & helpful in reduction of migration. Where small quantity of water available in summer, KVK introduce Summer Sesamum and Greengram in

			tribal dominated area.
		Give the farmers Hand holding support after training	KVK provide the hang holding support to the farmers after training. List attached herewith in slide.
		To provide the print out of soil analysis report from STRF meter with soil heath card for more reliable of result.	To provide print out of soil analysis report from STRF is not feasible, because one time only one parameter of 10 samples batch was analyzed and print out only single parameter result only. So total 12 parameters results in 12 print out. Which is not possible to issue with allSHC report
		To introduce the Urdbean variety GU-2 &GU-3(Anjani) in the district.	Due to pandemic situation and unavailability of seeds at the time of sowing season, this was not implemented. We will plan it during next season.
		To continue the Soybean value addition activities for better nutritional security for tribal farm women.	In absence of SMS Home science and due to pandemic conditions this was not implemented. In 2021-22 after recruitment of SMS Home Science and establishment of Value addition training center atKVK, regular training and awareness will be taken for Value addition in Soybean
		Develop & promote the integrated farming system model in district	KVK aware the farmers regarding IFS model. Some of KVK connected farmers adopt the IFS model. Our two farmers(Mr.RameshbhaiMotibhaiTarbada and DineshbhaiMafatbhaiTarbada) e-paper on adoption of IFS system were selected in Agril. scientist meet – progressive farmers interaction session in IIFS(India International Science Festival)-2020 during 22-25 Dec-2020.
		Popularize the back yard poultry in tribal dominated blocks	KVK conducted 45 demonstration on Backyard poultry (Kadaknath) through FLDs in collaboration with ATMA and OFT(poultry Breed Ankleshwar&Kadaknath) in the Chottaudepur District

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

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

S. No	Farming system/enterprise
Crop	Agril. Alone Agril. Horticulture Agril.-Animal Husbandry Agril.-silviculture
Enterprise	Agriculture and Animal Husbandry

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	**Middle Gujarat zone III**	**Average rain fall is 800-1000 mm. Geographically Vadodara district is located between 210 49' to 220 49' north latitude and 720 51' to 740 17' east longitude**

b)Topography

S. No.	Agro ecological situation	Characteristics
1	Sandy loam soil with high rain fall	Altitude (in meter above MSL): 25-75 Taluka : Vadodara, Padara, Savli, Dabhoi, Waghodia
2	Medium black soil with high rain fall	Altitude (in meter above MSL): 75-150 Taluka: Pavijetpur, Chhotaudepur, Naswadi, Karjan
3	Deep black soil with high rain fall	Altitude (in meter above MSL): 25-75 Taluka: Dabhoi, Sankheda, Shinor, Karjan
4	Light soil with high rain fall	Altitude (in meter above MSL): 150-300 Taluka: Chhotaudepur (tribal base)

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Black soil	Moderate to severe erosive Poor soil Fertility **Poor Irrigation facility**	**88864**
2	Medium black	Water logging Very Poor Permeability Poor Soil Physical condition **Low to medium in N & P Content**	**208646**
3	Sandy loam	Highly erosive Shallow to medium in depth Poor permeability **Low to medium N & P content**	**174021**
4	Sandy	**Sandy soils are often dry, nutrient deficient and fast-draining. They have little (or no) ability to transport water from deeper layers through capillary transport.**	**36305**
5	Salt affected	**saline soils are those which have an electrical conductivity of the saturation soil extract of more than 4 dS/m at 25°C , Sodium and chloride are by far the most dominant ions**	**4888**

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2019)

Sr. No	Crop	Vadodara			Chhotaudepur		
		Area (ha)	Production (Mt)	Productivity (qt. /ha)	Area (ha)	Production (Mt)	Productivity (qt. /ha)
A	***Kharif*** **:**						
1	Cotton (Lint)	81044	342768	7.19	80978	57926	7.16
2	Pigeon Pea	31321	40600	12.99	20562	22618	11.00
3	Paddy	34698	68700	19.80	21362	33666	15.76
4	Maize	600	1100	17.70	30903	17400	5.60
5	Bajara	900	1600	16.50	0	00	0
6	Castor	48719	99200	20.36	4220	9039	21.42
7	Green gram	47	16	3.40	200	82	3.34
8	Black gram	87	50	5.74	73	42	5.64
9	Soybean	11100	18300	16.44	10100	17300	17.07
B	***Rabi***						
1	Maize	5000	11200	22.57	25100	64700	25.80
2	Wheat	23300	60300	25.83	400	1300	34.71
3	Gram	300	400	14.49	200	300	13.57
C	Summer						
1	Groundnut	22	47	21.36	100	400	21.55
2	Bajara	4000	9000	22.41	0	0	0
3	Green gram	408	300	6.39	481	291	4.26
4	Sesamum	162	79	4.87	133	63	4.73
	Horticultural crops						
1	Fruits	19441	672106	34.57	12270	590684	48.14
2	Vegetables	31274	577075	18.45	14564	285428	19.60

Source: District agriculture department.

2.5. Weather data (2020)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
April'20	0	39.63	24.17	56.86	27.26
May'20	0	41.29	27.57	60.16	32.06
June'20	192.1	35.96	26.57	70.83	58.23
July'120	146.0	34.26	25.96	78.83	60.25
Aug'20	850.2	32.65	25.55	87.77	82.77
Sept'20	104	33.84	25.49	78.93	69.40
Oct'20	5.6	34.45	23.27	66.93	51.67
Nov.'20	0	32.88	15.72	55.23	37.06
Dec.'20	20.2	31.53	16.21	61.13	47.28

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

Category	Population(00 No)	Production (mt)	Productivity(kg/day)
Cattle			
Crossbred	4860	33.71	11.85
Indigenous	2694	102	5.53
Buffalo	5878	253	6.24
Sheep	132	4.12	932
Goats	2916	13.45	0.66
Poultry			
Hens	3323	160.55	125
Desi	-	-	-
Category		Production (Q.)	Productivity
Fish (Reservoir)	-	-	-

Statistical Report Govt.of Gujarat (2020-21)

2.7. Details of Operational area / Villages

Sl No	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sankheda	Sankheda	**Saradiya, Raipur, Sundarpura,Kathmandva,Targod, Navapura, Ambapura ,Vagetha, Deroli,Amalpur,Kapdiya,Fajalpura,Bamroli, Kandewar**	***Kharif*** Cotton Pigeonpea Castor Banana Vegetables ***Rabi*** Maize **Summer**	**Cotton :** 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4. Problem of pest & diseases 5. Depends only on manual weeding **Pigeon pea** 1. Improper spacing 2. Use of higher seed rate 3. Improper pest and disease management 4. Improper water management 5. Depends only on manual weeding	 INM IWM IPM Water Mgt. ICM INM IPM IWM ICM

				Greengram Groundnut	**Castor** 1. Use of higher seed rate 2. Improper spacing 3. Indiscriminate use of fertilizer 4. Improper water management 5. Problems of wilt, rootrot and semi looper **Banana** 1.No use of tissue culture plants 2. Not follow seed treatment to rhizome 3. Excess use of fertilizer 4. Excess use of water 5. Improper disease management **Maize** 1. Use of higher seed rate 2. Improper spacing 3. Higher application of nitrogenous fertilizer 4. Improper water management **Greengram** 1. Use of local seeds 2. Use of higher seed rate 3. Improper water management 4. Improper pest and disease management	INM IWM IPM ICM IPM IDM IWM ICM INM IWM ICM IPM`
2.	Naswadi	Naswadi	**Dhamasiya,Pochamba,Payakui,Kolamba,Akona.**Saripani	***Kharif*** Cotton Paddy Castor ***Rabi*** Wheat Gram **Summer** Greengram Groundnut	**Paddy** 1.Use of local seeds 2.Application of higher dose nitrogenous fertilizer 3.No use of micronutrients 4. T.P. at random method 5.In adequate and delayed plant protection 6.Use more seed rate 7.Problem of BLB, Hopper and stem borer **Wheat** 1. Use of local seeds 2. Delayed sowing 3. Use of higher rate of seed 4. Improper water management 5. Improper nutrient management 6. No use of micronutrients and Bio-fertilizers **Greengram**	 ICM SRI INM IPM INM IWM ICM

					1. Use of local seeds 2. Use of higher seed rate 3. Improper water management 4. Improper pest and disease management	ICM INM IPM
3.	Waghodia	Waghodia	**Goraj, Rojyapura,Nurpuri,Dolapura.**	***Kharif*** Cotton, Pigeonpea, Castor Vegetables ***Rabi*** Maize Gram **Summer** Greengram	**Cotton :** 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4.Problem of pest & diseases 5. Depends only on manual weeding Pigeonpea 1. Improper spacing 2. Use of higher seed rate 3. Improper pest and disease management 4. Improper water management 5. Depends only on manual weeding Castor 1.Use of higher seed rate 2.Improper spacing 3.Indiscriminate use of fertilizer 4.Improper water management 5. Problems of wilt, rootrot and semi looper Maize 1. Use of higher seed rate 2. Improper spacing 3. Higher application of nitrogenous fertilizer 4. Improper water management Greengram 1. Use of local seeds 2. Use of higher seed rate 3. Improper water management 4. Improper pest and disease Management	 INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM IPM ICM INM IWM ICM IPM
4.	Kawant	Kawant	**Khatiyawat, Baladgam, Mudamore,Kherka,Karajwant,Raypur,Piplada,Kanlalva , Gordha,Jamba**	***Kharif*** Cotton, Pigeonpea, Castor Vegetables ***Rabi***	**Cotton :** 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4.Problem of pest & diseases 5. Depends only on manual weeding **Pigeonpea**	INM IWM IPM Water Mgt. ICM

			. Mankodi	Maize Gram **Summer** Greengram	1. Improper spacing 2. Use of higher seed rate 3. No use of micronutrients 4. Improper pest and disease management 5. Improper water management 6. Depends only on manual weeding **Maize** 1. Use of higher seed rate 2. Improper spacing 3. No use of micronutrients 4. Higher application of nitrogenous fertilizer 5. Improper water management	INM IPM IWM ICM INM IWM IPM ICM INM IWM
5.	Pavijetpur	Pavijetpur	**Ranbhunghati, Butiyapura,Kallarani,Haripura,**	***Kharif*** Cotton, Pigeonpea, Castor Vegetables ***Rabi*** Maize Gram **Summer** Greengram	Paddy 1.Use of local seeds 2.Application of higher dose nitrogenous fertilizer 3.No use of micronutrients 4. T.P. at random method 5.In adequate and delayed plant protection 6.Use more seed rate 7.Problem of BLB, Hopper and stem borer Cotton : 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4.Problem of pest & diseases 5. Depends only on manual weeding Maize 1. Use of higher seed rate 2. Improper spacing 3. No use of micronutrients 4. Higher application of nitrogenous fertilizer 5. Improper water management	INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM

6	Bodeli	Bodeli	**Kapdiya,Nana Butiyapura,Ranbunghati, MotaButiyapura,Navapura, Kathmandva, Pitha, Bhagwanpura, Dhroliya, Vaniyadri,Kosum, Amalaug, Tandlja, Khodiya, Dholpur, Timbi, Ladhod, Desan, Sajva, Dhebarpura,Deroli,Gordhanpura,MotaRaska.**	***Kharif*** Cotton Pigeonpea Castor Banana Vegetables ***Rabi*** Maize **Summer** Greengram Groundnut	Cotton : 6. Higher application of nitrogenous fertilizers 7. Improper water management 3. No use of micronutrients 9. Problem of pest & diseases 10. Depends only on manual weeding Pigeon pea 1. Improper spacing 2. Use of higher seed rate 3. Improper pest and disease management 4. Improper water management 5. Depends only on manual weeding Castor 6. Use of higher seed rate 7. Improper spacing 8. Indiscriminate use of fertilizer 9. Improper water management 10. Problems of wilt, rootrot and semi looper Banana 1.No use of tissue culture plants 2. Not follow seed treatment to rhizome 3. Excess use of fertilizer 4. Excess use of water 5. Improper disease management Maize 1. Use of higher seed rate 2. Improper spacing 3. Higher application of nitrogenous fertilizer 4. Improper water management Greengram 1. Use of local seeds 2. Use of higher seed rate 3. Improper water management 4. Improper pest and disease management	 INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM IPM ICM IPM IDM IWM ICM INM IWM ICM IPM`

7.	Chhotaudepur	Chhotaudepur	**Dhandoda,Raipur,NaniDumali,MotiDumali, Rojkuva , Kanas, Rangpur, Gunata**	***Kharif*** Cotton, Pigeonpea, Castor Vegetables ***Rabi*** Maize Gram **Summer** Greengram	**Cotton :** 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4.Problem of pest & diseases 5. Depends only on manual weeding **Pigeonpea** 1. Improper spacing 2. Use of higher seed rate 3. No use of micronutrients 4. Improper pest and disease management 5. Improper water management 6. Depends only on manual weeding **Maize** 1. Use of higher seed rate 2. Improper spacing 3. No use of micronutrients 4. Higher application of nitrogenous fertilizer 5. Improper water management	 INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM IPM ICM INM IWM

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Cotton	Integrated Nutrient Management Integrated Pest Management Integrated Weed management Varietal evaluation
Rice	Varietal evaluation Water Management Integrated Weed Management Integrated Nutrient management Integrated pest Management
Pigeonpea	Varietal evaluation Production and use of organic inputs Integrated pest Management
Gram	Varietal evaluation Production and use of organic inputs Integrated pest Management
Wheat	Integrated crop management

	Varietal evaluation Integrated weed management Integrated Nutrient management
Maize	Varietal evaluation Integrated Nutrient Management Integrated weed management
Castor	Integrated Pest & Disease Management Varietal evaluation Integrated Nutrient Management Water Management
Green gram	Varietal evaluation Integrated Pest & Disease Management
Urd bean	Varietal evaluation Integrated Pest & Disease Management
Soybean	Varietal evaluation///Integrated Pest & Disease Management
Cucurbits	Integrated Pest & Disease Management//Integrated Nutrient management
Banana	Integrated Nutrient Management //Integrated Weed management//Water Management
Vegetables	Integrated Pest & Disease Management Integrated Nutrient management
Animal husbandry	Management of Dairy animal for maximize the milk production Clean milk production, Animal Health management
Home science	Nutritional security for women and child popularize the drudgery reduction technology//Value addition Income generation activity

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
8	8	38	38	17	18	591	550

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
88	93	2540	2608	550	222	36259	79676

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
60	59	402000	184216

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	12		-

3.1. B. Operational areas details during the year 2020

Sr. No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1.	Cotton	Injudicious use of chemical pesticides and lack of knowledge	535	Ambapura, Sundarpura	OFT On Assessment of IPM module for sucking pest in cotton
		Not using of bio pesticides	2020	Pitha, Vaniyadri	Training & method demonstration.
		Not using IPM Module.	1520	Sundarpura Butiyapura	FLD on IPM. Training and Field day.
		Non use of improved varieties.	220	Raipur,Kanalwa	FLD on Introduction of High density verity GTHH-49. Training and Field day.
		Not follow proper weed management practices.	1020	Raipur,Kanalwa	Training and Group meeting
		Not use of bio-fertilizer and Micro nutrient.	2020	Raipur,Kanalwa	Training and Group meeting
3	Maize	Not using of bio pesticides	570	Kathmandva, Navapura	FLD on bio-pesticide and Training and Field day.
		Not follow proper weed management practices.	220	Kathmandva, Navapura	Training and Group meeting
		Not use of bio-fertilizer and Micro nutrient.	270	Kathmandva, Navapura	Training and Group meeting
4	Urdbean	Non use of improved varieties.	470	Rangpur,Gunata	FLD on High yield Variety PU-31/NUL-7/IPU-2-43
		Not follow proper weed management practices.	270	Rangpur, Gunata	Training and Group meeting
		Not using IPM Module.	270	Rangpur, Gunata	Training and Group meeting
5	Soybean	Non use of improved varieties.	330	Kalarani, Raypur	FLD on High yield Variety KDS-344/NRC-37 and Field day

		Not follow proper weed management practices.	370	Kanalva, Gordha	Training and Group meeting
		Not using IPM Module.	350	Kanalva, Gordha	Training and Group meeting
6	Green gram	Low productivity due to Non use of improved varieties.	170	Jamli, Bhagvanpura	OFT on assessment of performance of different varieties of summer green gram FLD on High yield Variety GAM-5 and Field day and training.
		Not follow proper weed management practices.	120	Jamli, Bhagvanpura	Training and Group meeting
		Not using IPM Module.	120	Jamli, Bhagvanpura	Training and Group meeting
7	Pigeon pea	Non use of improved varieties.	270	Golagamdi, Manjrol	FLD on High yield Variety / GJP-1 and Field day.
		Low productivity due to Non use of improved varieties.	170	Golagamdi, Manjrol	OFT on assessment of performance of different varieties under unirrigated and rainfed condition
		Not follow proper weed management practices.	170	Golagamdi, Manjrol	Training and Group meeting
		Not using IPM Module.	170	Golagamdi, Manjrol	Training and Group meeting
8	Sesame	Non use of improved varieties.	120	Vaniyadri	FLD on GT-5/3 and Field day.
9	Chilli	Non use of improved varieties.	120	Tokarva,Vaniyadri Fajalpura,Kathmandava	OFT on Assessment of Variety of ChiliiArkaHarita and Kashi Gaurv. Training on cultivation Practices, IPM and INM
10	Okra	Low yield Use of YVM susceptible varieties. Poor Knowledge of improved cultivation practices Improper use of fertilizer and pesticides.	170	Shithol,NanaButiyapura,Tokarva Ranbhunghati Targol, sagadhra	OFT On Assessment of Varieties of Okra Training on improved cultivation Practices like INM,IPM
11	Tomato	Low yield Poor Knowledge of improved cultivation practices Improper use of fertilizer and pesticides.	220	Kalarani,Khodiya Panej,Fajalpura Ambapura,	OFT On Assessment of pest and disease resistant Varieties of Tomato Healthy seedling Provision Training on INM and IPM in tomato

		High infection of TLMV, Late blight Yield losses due to diseases	220	Kalarani,Khodiya Panej,Fajalpura Kathmandava	FLD on ArkaRakshak Healthy seedling Provision Training on improved cultivation Practices
12	Banana + Cabbage	Not following inter cropping in banana	120	Ambapura,Muldhar Fajalpura,	FLD on Inter Cropping with Cabbage(1:4) Training on INM and Irrigation management
13	Kitchen Garden	• Poor health and nutritional status of farm families	100 Nos	Kacchata,, Sundarpura, Khodiya	FLD& Training on Kitchen garden (Nutritional security by kitchen garden)
14	Poultry	Low body weight Less eggs production	All local native breeds	Kanlva, sundrapura,vatvtiya	OFT On Assessment of three way cross breed under Back yard poultry
15	Buffalo	Low milk yield	220	Sundrapura, bhagwanpura,vatvatiya	. Training and Group meeting
16	Sorghum	Low yield of fodder	250	Vanyadri, sundarpur ,saradiya,butiyapura	FLD on Cofs-29
		Non use of improved varieties	170	Vanyadri, sundarpur ,saradiya,butiyapura	FLD on Cofs-29
17	Oat	Non use of improved varieties	170	Vanyadri, sundarpur ,saradiya,butiyapura	FLD on OS-405
18	Feed Supplement for milking Buffalo	• Low milk yield and poor reproduction in buffalo	320	Vanyadri, sundarpur ,saradiya,butiyapura, bhagwanpura	FLD on Mineral Mixture and common salt
		• Low milk yield and poor reproduction in buffalo	250	Vanyadri, sundarpur ,saradiya,butiyapura, bhagwanpura	FLD on Stavari powder
		• Imbalance feeding	320	Vanyadri, sundarpur ,saradiya,butiyapura ,bhagwanpura	. Training and Group meeting

* Support with problem-cause and interventions diagram

3.2. Technology Assessment (Kharif 2020, Rabi 2019-20, Summer 2020)

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation			02		02					04
Integrated Pest Management				01	01					02
TOTAL			**02**	**01**	**03**					**06**

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Wormi culture	Fisheries	TOTAL
Production and Management		1						1
Feed and Fodder	1							1
TOTAL	**1**	**1**						**2**

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha
Varietal Evaluation	Chilli	Assessment of Varieties of Chilli	3	3	1.2
	Okra	Assessment of Varieties of Okra	3	3	1.2
	Pigeon pea	Assessment of performance of different varieties of Pigeon pea under un irrigated/ rainfed condition.	3	3	1.2
	Greengram	Assessment of performance of different varieties of summer Green gram under irrigated condition	3	3	1.2
Integrated Pest Management	Cotton	Assessment of management practices for sucking pest in cotton	3	3	1.2
	Brinjal	Assessment of Fruit and shoot borer brinjal	3	3	1.2
Total			15	15	8.0

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
Feed and fodder	Lucerne	Assessment of different varieties of Lucerne	5	5
Poultry Management	Poultry	Assessment of poultry breed under Back yard	10	10
Total			15	15

C1.Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Okra	Irrigated	Low productivity	Assessment of Variety in Okra	3	T1	**No. of Plant infected due to YVM**		Trials continue…			
						30DAP 45 DAP 60 DAP	26 58 85				
						Plant Population /m2	07				
					T2	**No. of Plant infected due to YVM**					
						30 DAP 45 DAP 60 DAP	00 05 20				
						Plant Population /m2	07				

Contd..

Technology Assessed	Source of Technology	Production (q/ha)	Cost of Cultivation in Rs./ unit	Net Return (Profit) in Rs./ unit	BC Ratio
13	14	15	16	17	18
Treatments	AAU				
T_1: Farmers practice- Local Hyb. Variety		82	26850	36900	1.37
T_2: Guj. Anand Okra-5		104	32780	46800	1.42

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

Title	:	Assessment of Varieties of Okra
Problem diagnose/defined	:	Low yield Use of YVM susceptible varieties. Poor Knowledge of improved cultivation practices Improper use of fertilizer and pesticides.
Details of technologies selected for assessment /refinement	:	Treatments T_1: Farmers practice- Local Hyb. Variety T_2: Guj. Anand Okra-5
Source of technology	:	AAU,Anand (2011)
Production system & Thematic Area	:	Irrigated/ Sole vegetable
Thematic area	:	ICM
No. of Trials	:	03
Plot size and total area (ha)	:	1.20 ha (0.40 x3)
Spacing	:	45 x 20 cm
Performance indicator Indicator - I Indicator - II Indicator - III	: : :	**Technical Observation**:- No. of Plant infected due to YVM at 30, 45, 60 DAP Plant Population Suitability of variety for area specific cultivation. **Economic Indicator:-** Yield of variety Benefit cost ratio **Farmer Reflection:-**

		Fruit quality as per market demand. Keeping quality of fruits.

Farmer Reflection:-

(1)Fruits are long and tendor with dark green colour help in getting more market price (2) Very less infestation of YVM

C1.Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Chilli	Irrigated	• Low yield • Use of YVM susceptible varieties. • Poor Knowledge of improved cultivation practices Improper use of fertilizer and pesticides.	Assessment of Varieties of Chilli	3	T1			Trials continue…			
						Plant Population /unit area	28000/ha				
						No. of Fruit /plant	65				
					T2						
						Plant Population /unit area	28000/ha				
						No. of Fruit /plant	72				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
T_1 : Farmers practice		20.8	t/ha	316200	1.87
T_2 : To be assessed :ArkaHarita	IIHR, Bengaluru (2012)	22.0	t/ha	352690	1.97
T_3: To be assessed :Kashi Gaurav	IIVR,Varanasi (2012)	-	-	-	-

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

Title	**:**	**Assessment of Chilli**
Problem diagnose/defined	**:**	• **Low yield** • **Poor Knowledge of improved cultivation practices** • **Improper use of fertilizer and pesticides.**
Details of technologies selected for assessment /refinement	**:**	**Treatments** **T_1 : Farmer Practice** **T2: Arka Haritha** **T3: Kashi Gaurav**
Source of technology	**:**	**IIHR (2012), IIVR (2012)**
Production system	**:**	**Irrigated/ Sole vegetable**
Thematic area	**:**	**ICM**
Performance of the Technology with performance indicators	**:**	**Yield**
No. of Trials	**:**	**03**
Plot Size and Total Area	**:**	**1.20 ha**
Performance indicator **Indicator - I** **Indicator - II** **Indicator - III**	**:** **:** **:**	**Technical Observation:-** • **Plant Population per unit area.** • **No. of fruits per plant.** • **Insect pest Infestation** **Economic Indicator:-** • **Yield** • **B:C ratio** **Farmer Reflection:-** • **Easy in practicing inter culturing, picking and spraying of insecticides.** • **Quality of fruits as per market need.**

C1.Results of Technologies Assessed

Results of On Farm Trial- Crop Production-1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Pigeon pea	Irrigated	Non use of Improved variety	Assessment of performance of different varieties of Pigeon pea under irrigated/ rainfed condition.	3	T1	**No. of seed per pods**		Trials continue…			
						T1 -cv.AGT-2	3-4				
						T2-cv.GT-104	5-6				
						T3-cv.GJP-1	3-4				
					T2	Maturity days					
						T1 -cv.AGT-2	150-170				
						T2-cv.GT-104	150-165				
						T3-cv.GJP-1	150-160				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
T_1 : Farmers practices (cv.AGT-2)	AAU, Anand (2011)	1450.0	kg/ha	55175	2.62
T_2 : To be assessed : GT-104	NAU.Navsari (2018)	1700.0	kg/ha	70500	3.07
T_3: To be assessed :GJP-1	JAU, Judagadh (2015)	1800.0	kg/ha	77200	3.30

Price@61.50/kg

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

Title of OFT	Assessment of performance of different varieties of Pigeon pea under un irrigated/ rainfed condition
Problem Identified	Low productivity of Pigeon pea due to Wilt & nonuse of improved varieties.
Objectives	To find out suitable variety
Micro-farming Situation	Irrigated, Medium black Soil, Rainfall 800-1000 mm
Treatments	Farmers Practice (T1) (cv.AGT 2)
	Assessed Practice (T2) (cv.GT 104)
	Assessed Practice (T3) (cv.GJP 1)
No. of Trials	03
Source of Technology	(T1) AAU, Anand (2011) (T2) NAU.Navsari (2018) (T3) JAU, Judagadh (2015)
Critical Inputs to be used and its cost in Rs.	Seed of cv.GT104 ,cv. GJP 1 (2kg) Cost Rs. 2000/-
Observations be recorded	Yield of Variety No. of seed per pods Wilt incidence percentage (%) Maturity days No. of branch per plant

C1.Results of Technologies Assessed

Results of On Farm Trial - Plant Protection -1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cotton	Irrigated	Injudicious use of chemical pesticides due to lack of knowledge Not using of bio pesticides	**Assessment of management practices for sucking pest in cotton**	3	T1	**% of Plant infected due to sucking pest (29%)**		Trials continue…			
						30 DAS	**21%**				
						45 DAS	**32%**				
						60 DAS	**35%**				
						Pest Population /leaf (15 Nos.)					
						30 DAS	**06 Nos**				
						45 DAS	**18 Nos**				
						60 DAS	**22 Nos**				
					T2	**%of Plant infected due to sucking pest (15%)**					
						30 DAS	**11%**				
						45 DAS	**16%**				
						60 DAS	**19%**				
						Pest Population /leaf (07 Nos.)					
						30 DAS	**3 Nos**				
						45 DAS	**8 Nos**				
						60 DAS	**12 Nos**				
					T3	**%of Plant infected due to sucking pest (17%)**					
						30 DAS	**13%**				
						45 DAS	**19%**				
						60 DAS	**21%**				
						Pest Population /leaf (09 Nos.)					
						30 DAS	**04 Nos**				
						45 DAS	**10 Nos**				
						60 DAS	**15 Nos**				

- **Contd..**

Technology Assessed	Source of Technology	Production (q/ha)	Cost of Cultivation Rs./ unit	Net Return (Profit) in Rs./ ha	BC Ratio
13	**14**	**15**	**16**	**17**	**18**
Treatments	AAU	20.0	35700	69300	2.9
T_1 Farmers practices (Conventional insecticides and recent chemicals are used as tank mixture with higher dose)					
T_2: To be assessed : Alternate spray of ***Beauveria bassiana***(40 gms/10 lit. of **water**) and ***Thiamethoxam 25 WG 0.01%*** @ (4 g/10 lit. of water) at 15 day interval starting from the pest infestation.		21.4	33900	78250	3.3
T_3 : To be assessed : Spray of ***Flonicamid 50 WG***(4 gms/10 lit. of water) at 25% plants are infested.		21.2	35100	76200	3.1

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

Title	**:**	**Assessment of management practices for sucking pest in cotton**
Problem diagnose/defined	**:**	Injudicious use of chemical pesticides due to lack of knowledge Not using of bio pesticides
Details of technologies selected for assessment /refinement	**:**	T_1 : Farmers practices (Convetional insecticides and recent chemicals are used as tank mixture with higher dose) T_2 : To be assessed : Alternate spray of *Beauveria bassiana*(40 gms/10 lit. of water) and *Thiamethoxam 25 WG 0.01%* @ (4 g/10 lit. of water) at 15 day interval starting from the pest infestation. T_3 : To be assessed : Spray of *Flonicamid 50 WG*(4 gms/10 lit. of water) at 25% plants are infested.
Source of technology	**:**	AAU, Anand &ICAR-CICR Nagpur 2012 & 2017
Production system	**:**	Irrigated
Thematic area	**:**	IPM
No. of Trials	**:**	03
Plot size and total area (ha)	**:**	1.20 ha
Spacing	**:**	120x90 cm
Performance indicator Indicator - I Indicator - II Indicator – III	**:** **:** **:**	**Technical Observation:-** • The plot will be divided into 15 equal blocks. • From each quadrate, 5 plants will be selected randomly. • 3 leaves (top,middle and lower) of each plant will be observed critically to record aphid, jassid, whitefly and thrips **Economic Indicator:-** • Yield of crop • Cost of cultivation • Benefit cost ratio

6.0 Results of On Farm Trial – Plant Protection -2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Brinjal	Irrigated	Injudicious use of chemical pesticides due to lack of knowledge Not using of bio pesticides	Assessment of IPM module for shoot and fruit borer in Brinjal	3	T1	% of fruit damage due to shoot and fruit borer	31%	Trials continue…			
						% of Shoot damage due to shoot and fruit borer	19%				
					T2	% of fruit damage due to shoot and fruit borer	14%				
						% of Shoot damage due to shoot and fruit borer	09%				

Contd..

Technology Assessed	Source of Technology	Production (q/ha)	Cost of Cultivation Rs./ unit	Net Return (Profit) in Rs./ ha	BC Ratio
13	14	15	16	17	18
Treatments	AAU	275	69400	109350	2.57
T_1 :Farmers practices (High dose and use of conventional chemical pesticides)					
T_2: To be assessed : Install pheromone trap@40/ha and need based application of Azadirachtin 1500 PPM (50 ml/10 lit. of water) OR Emamectin benzoate 5 SG @ 3 gm/10 lit. of water (at 5% shoot or fruit damage)		298	64800	128900	2.98

. On Farm Testing : Plant Protection -2

Title	**:**	**Assessment of IPM module for shoot and fruit borer in Brinjal**
Problem diagnose/defined	**:**	Injudicious use of chemical pesticides and Not using bio pesticides
Details of technologies selected for assessment /refinement	**:**	**Treatments** **T_1 : Farmers practices (Conventional insecticides and recent chemicals are used as tank mixture with higher dose)** **T_2 : To be assessed : Install pheromone trap @40/ha and need based application of Neem Oil 1500 PPM (50 ml/10 lit. of water) OR *Emamectin benzoate* 5 SG @ 3 gm/10 lit. of water (at 5% shoot or fruit damage)**
Source of technology	**:**	AAU, Anand (2009/2016)
Production system	**:**	Irrigated
Thematic area	**:**	IPM
No. of Trials	**:**	03
Plot size and total area (ha)	**:**	1.20 ha
Spacing	**:**	120x90 cm
Performance indicator Indicator - I Indicator - II Indicator – III	**:** **:** **:**	**Technical Observation:-** • % of fruit damage due to shoot and fruit borer • % of shoot damage due to shoot and fruit borer **Economic Indicator:-** • Yield of crop • Cost of cultivation • Benefit cost ratio

Farmer Reflection:-The adoption of IPM strategies decreased the No. of chemical pesticides spray and cost of production without affecting the yield.

1. **On Farm Testing : Animal Husbandry -1**

Performance of technologies assessed:

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Lucerne	Irrigated	Low green fodder yield Non use of Improved Varieties	Assessment of different varieties of Lucerne	05	T_2: Anand-3 (AAU, Anand)	No. of Cutting	7	-	Higher quality feed for livestock and improve milk production		
					T3 :RL-88 (IGFRI-Dharwad)	No.of Cutting	8	-			

Technology Assessed	Source of Technology	Production (q/ha)	Cost of Cultivation Rs./ unit	Net Return (Profit) in Rs./ ha	BC Ratio
13	14	15	16	17	18
T1 : Farmers Practise (Local)	-	600	Q/ha	35580	2.45
T2 : Anand-3 (AAU, Anand)	AAU Anand	720	Q/ha	46630	2.83
T3 :RL-88 (IGFRI-Dharwad)	IHFRI, Dharwad	750	Q/ha	48720	2.85

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

Title	**:**	**Assessment of different varieties of Lucerne**
Problem diagnose/defined	**:**	**Low green fodder yield** **Non use of Improved Verities**
Details of technologies selected for assessment /refinement	**:**	**Treatments :** **T1 : Farmers Practice** **T2 : Anand-2 (AAU, Anand)** **T3 :RL-88 (IGFRI-Dharwad)**
Source of technology	**:**	**AAU , Anand IGFRI-Dharwad (2015)**
Production system	**:**	**Agri and Animal Husbandry**
Thematic area	**:**	**Fodder Management**
No. of Trials	**:**	**05**
Plot size and total area (ha)	**:**	**-.**
Performance indicator **Indicator - I** **Indicator - II** **Indicator - III**	**:** **:** **:**	**Technical Observation:-** • **Green Fodder Yield** **Economic Indicator:-** • **Yield of variety Benefit cost ratio** **Farmer Reflection:-**

FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2020 and recommended for large scale adoption in the district

Sr. 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	Paddy	Varietal evaluation	New variety Paddy cv.GAR-13 & GAR-14	FLD, Exposure visit of demo field, Organized Field day, through training programme	45	720	1070
2	Greengram	Varietal evaluation	New variety greengram cv. GAM-5	FLD, Exposure visit of demo field, Organized Field day, through training programme, Providing the seed of the variety.	28	418	280
3	Pigeon pea	ICM	New variety Pigeon pea cv.AGT-2	FLD, Exposure visit of demo field, Organized Field day, through training programme, Providing the seed of the variety.	28	410	880
4	Blackgram	ICM	New variety Blackgramcv.PU-31	FLD, Exposure visit of demo field, Organized Field day, through training programme, Providing the seed of the variety.	10	75	50
5	Soybean	ICM	New variety Soybeancv.NRC-37	FLD, Exposure visit of demo field, Organized Field day, through training programme, Providing the seed of the variety.	12	125	80
6	Chilli	Varietal evaluation	New variety Paddy cv.Arka Meghna	FLD, Exposure visit of demo field, Organized Field day, through training programme	10	75	48
7	Tomato	Varietal evaluation	New variety Paddy cv Arka Rakshak	FLD, Exposure visit of demo field, Organized Field day, through training programme	17	159	56
8	Fodder Crop	Fodder Production	Sorghum Cofs-29	FLD, Exposure visit of demo field, Organized Field day, through training programme	30	145	50
9	Feed management	Feed managem ent	Mineral Mixture	FLD, Exposure visit of demo field, Organized Field day, through training programme	10	150	50
10	Feed management	Feed managem ent	Bypass fat	FLD, Exposure visit of demo field, Organized Field day, through training programme	10	50	50
11	Nutritional gardening	Recommend ed Seeds	monthly Savings	FLD, Exposure visit of demo field, Organized Field day, through training programme	10	113	10

B. Details of FLDs implemented during 2020**(Kharif 2020, Rabi 2019-20, Summer 2020)** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

1. FLD Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Paddy	ICM	Varietal (GAR-13)	Kharif-2020	8	8	11	6	17	-
2	Bajara (Nutri Cereals)	ICM	Varietal (var.GHB-1225)+ IPM+ INM	Kharif-2020	4	4	00	10	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif -20	Irrigated	Medium Black	L	M	H	Maize	10/06/2020	10/11/2020	1318	47
Bajara Nutri Cereal)	Kharif -20	RF	Sandy Loam	L	M	H	Bajara	20/06/2020	24/09/2020	1318	47

Technical Feedback on the demonstrated technologies

S. No	**Feed Back**
1.Paddy	Pest and Disease infestation is less as compare to Local variety (GR-11).
2.Bajara	At time of maturity high rainfall affects the yield.

Farmers' reactions on specific technologies

S. No	**Feed Back**

1.Paddy	Cooking quality is good and Lodging resistance variety.
2.Bajara	Production is less as compare to Pvt .hybrid variety.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1.Paddy	Field days	2	20/10/2020 03/11/2020	23 24	
2	Farmers Training	1	08/06/2020	12	
3	Media coverage	1	07/11/2020	5000	
1.Bajara	Field days	1	04/09/2020	20	
2	Farmers Training	1	18/06/2020	10	

2. FLD Oilseeds

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Sesamum	Varietal Intro	ICM	Summer-20	10	10	16	09	25	-
2	Soybean	Varietal Intro	ICM	Kharif-20	10	05	24	00	24	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Sesamum	Summer-20	Irrigated	Sandy Loam	L	M	H	paddy	24/02/2020	20/05/2020	-	-
Soybean	Kharif-20	RF	Sandy Loam	L	M	H	Maize	18/06/2020	07/10/2020	1318	47

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1 Sesamum	Gujarat Til-5 Improved and Bold seeded variety of Sesame
2 Soybean	Seed shattering problem is less in this variety

Farmers' reactions on specific technologies

S. No	Feed Back
1 Sesamum	Farmers are interested in Sesame crop because of the short duration and it is giving high profit due to the good market price as well as there is less expenses on pesticides and fertilizers
2 Soybean	NRC-37 variety gives stable performance in water logged as well as dry condition

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1 Sesamum	Field days	-	-	-	-
2	Farmers Training	1	17/02/2020	25	
1 Soybean	Field days	1	23/09/2020	35	-
2	Farmers Training	1	15/07/2020	04	

3. CFLD Pulses

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Black gram (CFLD)	ICM	Varietal, INM, IPM	Kharif-20	10	10	25	00	25	
2	Pigeon pea (CFLD)	ICM	Varietal, INM, IPM	Kharif-20	10	10	20	05	25	
3	Green gram (CFLD)	ICM	Varietal, INM, IPM	Summer-20	20	20	25	25	50	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Black gram	Kharif-20	Rainfed	Medium black	L	M	H	Maize	27/06/2020	25/09/2020	1318	47
Pigeon pea	Kharif-20	Irrigated	Medium black	L	M	H	Pigeon pea	01/09/2020	15/02/2020	1318	47
Green gram	Summer-20	Irrigated	Medium black	L	M	H	Cotton	01/03/2020	25/05/2020	0	0

Technical Feedback on the demonstrated technologies

S. No	Feed Back
Black gram	Adoption of IWM&INM resulted into better weed management and Plant growth
Pigeon pea	Less sterility mosaic as compare to BDN-2 variety.
Green gram	INM increase growth of plant and size of seed.

Farmers' reactions on specific technologies

S. No	Feed Back
Black gram	YVM infestation found later stage in this variety and Mature earlier as compare to Local variety
Pigeon pea	Wilt problem is less as compare to Vaishali variety and INM also increase the growth and yield of plant.
Green gram	YVM resistance variety. Bold seed size resulted in higher Market rate.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1.Blackgram	Field days	1	10/09/2020	37	
2	Farmers Training	1	26/10/2020	24	
1.Pigeonpea	Field days	1	29/01/2021	42	
2	Farmers Training	2	24/10/2020 10/11/2020	21 21	
3	Media coverage	2	05/02/2021	10000	
1.Greengram	Field days	0			*Not organize due

					to Lockdown
2	Farmers Training	2	11/02/2020 12/02/2020	26 24	

3. FLD Other Crops

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Cotton IPM	IPM	Pheromone trap and Pesticides	Kharif-2019	8	8	05	15	20	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Cotton IPM	Kharif -19	RF	Medium black	L	M	H	Mungbean	20/06/2019	22/03/2020	1318	47

Technical Feedback on the demonstrated technologies

S. No	Feed Back
2 Cotton IPM	Use of Pheromone trap reduced no. of chemical pesticides sprays, which has minimized the cost of cultivation . It is safer for beneficial insects like beetles

Farmers' reactions on specific technologies

S. No	Feed Back
2 Cotton IPM	Pheromone traps and low doses of pesticides has minimized the infestation of pink boll worm and good quality cotton was harvested

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks

1 Cotton IPM	Field days	1	30/12/2019	28	
	Farmers Training	1	26/08/2019	20	
		1	16/11/2019	04	

3. FLDHorticulture Crops

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Tomato	Varietal Intro	Arka Rakshak	Kharif-20	5	5	13	3	16	-
2	Chilli	Varietal Intro	Arka Meghana	Kharif-20	5	2	-	6	6	Seedling loss due to water logging

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Tomato	Kharif-20	Irrigated	Sandy loam	L	M	H	Fallow	07/08/20	20/03/21	1318	47
Chilli	Kharif-20	Irrigated	Sandy loam	L	M	H	Fallow	07/08/20	25/03/21	1318	47

Technical Feedback on the demonstrated technologies

S. No	**Feed Back**
1 Tomato	Growth is affected in water logging condition.
2 Chilli	Variety is suitable for local area

Farmers' reactions on specific technologies

S. No	**Feed Back**
1 Tomato	Good firmness of fruit and good keeping quantity Fruit weight is more as compare to local hybrid
2 Chilli	Production is good and less incidence of sucking pest

Extension and Training activities under FLD

Sl.No.	Activity--Tomato	No. of activities organized	Date	Number of participants	Remarks
1	Field days				
2	Farmers Training	-			
3	Media coverage	01	7/08/2020	16	
4	Training for extension functionaries	01	04/11/20	27	
Sl.No.	**Activity- Chilli**	**No. of activities organized**	**Date**	**Number of participants**	**Remarks**
1	Field days	01	13/03/21	22	
2	Farmers Training	01	07/08/20	16	
4	Training for extension functionaries	01	04/11/20	27	

6. FLD – Livestock

a. Details of Implementation

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ ST	Others	Total	
1	**Buffalo**	Animal Nutrition	Mineral Mixture+ Common salt	*Rabi-20*	20 Animal	20 Animal	2	18	20	---

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1. **Buffalo**	Reduced inter calving period and help in repeat breeding problem.

Farmers' reactions on specific technologies

S. No	Feed Back
1. **Buffalo**	Milk yield and fat percentage has increased by feeding of mineral mixture.

Extension and Training activities under FLD

Sl.No.	Activity- Buffalo	No. of activities organized	Date	Number of participants	Remarks
1	Field days	01	10/02/2021	40	--
2	Farmers Training	01	31/12/2020	20	--

7. FLD – Other Enterprise
Details of Implementation

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Nos.		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Vermi Compost	Organic Farming	Vermibed	*Kharif-20*	12	12	0	12	12	--
2	Kitchen gardening	Nutritional Mang.	Kitchen gardening	*Kharif/Rabi-20*	225	225	0	225	225	--

Technical Feedback on the demonstrated technologies

S. No	Feed Back
Vermi Compost	• It improves soil texture & help in increasing the soil carbon.
Kitchen gardening	• Kitchen Garden helps in reducing the problems of mal nutrition by growing varieties of vegetables throughout year.

Farmers' reactions on specific technologies

S. No	Feed Back
Vermi Compost	• By adopting vermi compost proper utilizations of farm waste and help in reducing the cost of cultivation of fertilizers.
Kitchen gardening	• Farm women get variety of vegetables throughout year and save the cost of vegetables.

3. FLDFodder Crops

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Sorghum (F)	Fodder Produ.	Varietal	Kharif-20	05	05	9	11	20	
2	Oat (F)	Fodder Produ.	Varietal	Rabi-20	05	05	9	11	20	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Sorghum	Kharif-20	Irrigated	Black	L	M	H	Cotton/Paddy	15/06/20	25/8/20		
Oat (F)	Rabi-20	Irrigated	Black	L	M	H	Cotton/Paddy	15/11/20	-		

Technical Feedback on the demonstrated technologies

S. No - Sorghum (var. Cofs-29)	**Feed Back**
1	Gives 5-6 cuts in one year at 60 days intervals The Leaves and stem is higher succulent in nature
2	Give higher green fodder yield than other fodder crops Its higher during winter/ cold season

Farmers' reactions on specific technologies

S. No- Oat (var. Kent)	**Feed Back**
1	Gives higher green fodder yield than other sorghum fodder variety.
2	Increase Milk Production on of dairy Animals.

Extension and Training activities under FLD

Sl.No.	**Activity- Sorghum**	**No. of activities organized**	**Date**	**Number of participants**	**Remarks**
1	Field days	01	11/02/2021	38	
2	Farmers Training	01	13/06/2020	20	
Sl.No.	**Activity- Oat**	**No. of activities organized**	**Date**	**Number of participants**	**Remarks**
1	Field days	01	18/03/2021	30	
2	Farmers Training	01	11/11/2020	21	

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Sesamum	Variety Introduction	ICM	GT-5	25	10	6.75	4.00	5.70	5.02	13.54	23800	48450	24650	2.03	25300	42670	17370	1.68
Soybean	Variety Introduction	ICM	NRC-37	24	05	18.1	13.2	15.9	15.0	6.00	16580	63600	47020	3.83	18160	60000	41840	3.30

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops (CFLD)

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Pigeonpea	Variety Introduction	ICM	GJP-1	25	10	16	12	14	12	18.33	37600	88040	50440	1.57	36800	74400	37600	1.50
Blackgram	Variety Introduction	ICM	PU-1	25	10	7.2	6.0	6.2	6.0	3.33	18670	34100	15430	1.82	18500	33000	14500	1.78
Greengram	Variety Introduction	ICM	GAM-5	50	20	12	8.2	10.4	7.8	33	26500	72800	46300	2.71	25600	54600	29000	2.13

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average										
Cereals																	
Paddy	Variety Introduction	GAR-14	20	8	50.5	40.5	45.95	41.5	10.5	28360	64330	35970	2.26	28660	58100	29440	2.02
Cotton	IPM	IPM	20	8	23.1	17.2	22.3	20.0	11.5	33800	117075	83275	3.40	34900	105000	70100	3.0
Tomato	Variety Introduction	Arka Rakshak	16	5	442	430	435	414	5.07	319210	652500	333290	2.04	318432	612000	302568	1.95
Chilli	Variety	Arka	6	2	242	235	238	228	4.38	296800	773500	476700	2.60	298600	741000	448400	2.48

	Introduction	Meghna															
Fodder Crops																	
Sorghum (F)	Variety Introduction	**COFS-29**	20	**5**	**128**	**110**	**115**	**82**	**40.24**	**29310**	**115000**	**85690**	**3.90**	**28810**	**82000**	**53140**	**2.84**
Oat (F)	Variety Introduction	Kent	20	5	550	450	495	435	13.79	16680	49500	32820	2.97	16280	43500	27220	2.67

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Buffalo	Feed Mang.	Mineral Mixture	20	20	6.25	5.50	13.65	-	-	123	281.25	158.25	2.28	113	220	107	1.94

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Vermi Compost	Organic Farming	12	12	950	3200	200	1000	-	4.0	0.50	1600	3800	3100	4800	1700	1.55

Frontline Demonstration on Nutri cereals

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Bajara	ICM	Varietal+INM+IPM	GHB-1225	10	4	10	8	9	8	12.5	10500	19350	8850	1.84	9800	17200	7400	1.75

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Kitchen Gardening	Nutritional Management	Kitchen Gardening	225	225	93.0	29.0	220.69	962	1723	350	761	411	2.17	-	-	-	-

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

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	0	0	0	26	0	26	26	0	26
Cropping Systems	1	10	0	10		0	0	10	0	10
Seed production	1	5	0	5	16	0	16	21	0	21
Integrated Crop Management	3	17	0	17	37	0	37	54	0	54
Integrated nutrient management	1	14	0	14	10	0	10	24	0	24
Production of organic inputs	1	25	0	25	1	0	1	26	0	26
Total	**8**	**71**	**0**	**71**	**90**	**0**	**90**	**161**	**0**	**161**
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops	1	14	0	14	1	0	1	15	0	15
Nursery raising	2	2	21	23	14	0	14	16	21	37
Grading and standardization	1		25	25	0	0	0	0	25	25
Total (a)	**4**	**16**	**46**	**62**	**15**	**0**	**15**	**31**	**46**	**77**
b) Fruits										
Plant propagation techniques	1	0	0	0	0	35	35	0	35	35
Total (b)	**1**	**0**	**0**	**0**	**0**	**35**	**35**	**0**	**35**	**35**
GT (a-g)	**5**	**16**	**46**	**62**	**15**	**35**	**50**	**31**	**81**	**112**
IV Livestock Production and Management										
Dairy Management	1	0	0	0	20	0	20	20	0	20
Poultry Management	1	0	0	0	21	0	21	21	0	21
Animal Nutrition Management	1	22	0	22	0	0	0	22	0	22
Feed & fodder technology	2	21	0	21	39	0	39	60	0	60
Production of quality animal products	3	55	8	63	2	0	2	57	8	65
Total	**8**	**98**	**8**	**106**	**82**	**0**	**82**	**180**	**8**	**188**
VII Plant Protection										
Integrated Pest Management	4	20	72	92	24	9	33	44	81	125
Integrated Disease Management	4	49	21	70	26	0	26	75	21	96
Others (Organic Farming)	2	7	24	37	17	0	17	24	24	48
Total	**10**	**76**	**117**	**199**	**67**	**9**	**76**	**143**	**126**	**269**

GRAND TOTAL	31	261	171	438	254	44	298	515	215	730

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	0	0	0	0	0	0	0	0	0
Cropping Systems	2	22	0	22	23	3	26	45	3	48
Seed production	1	0	0	0	24	0	24	24	0	24
Nursery management	2	30	0	30	24	0	24	54	0	54
Integrated Crop Management	1	0	0	0	25	0	25	25	0	25
Soil & water conservatioin	1	23	9	32	0	0	0	23	9	32
Integrated nutrient management	1	25	0	25	0	0	0	25	0	25
Production of organic inputs	1	24	20	44	1	0	1	25	20	45
Others (pl specify)	1	21	0	21	0	0	0	21	0	21
Total	**11**	**145**	**29**	**174**	**97**	**3**	**100**	**242**	**32**	**274**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	1	0	26	26	0	0	0	0	26	26
Off-season vegetables	1	11	0	11	15	0	15	26	0	26
Nursery raising	1	0	0	0	0	40	40	0	40	40
Export potential vegetables	1	0	19	19	0	11	11	0	30	30
Protective cultivation	1	15	0	15	13	0	13	28	0	28
Others (pl specify)	2	1	8	9	40	14	54	41	22	63
GT (a-g)	**7**	**27**	**53**	**80**	**68**	**65**	**133**	**95**	**118**	**213**
III Soil Health and Fertility Management										
Soil fertility management	3	32	0	32	34	0	34	66	0	66
Total	**3**	**32**	**0**	**32**	**34**	**0**	**34**	**66**	**0**	**66**
IV Livestock Production and Management										
Dairy Management	3	21	20	41	20	0	20	41	20	61
Poultry Management	1	0	20	20	0	0	0	0	20	20
Feed & fodder technology	1	0	0	0	24	3	27	24	3	27
Production of quality animal products	5	108	48	156	1	7	8	109	55	164

Total	**10**	**129**	**88**	**217**	**45**	**10**	**55**	**174**	**98**	**272**
VII Plant Protection										
Integrated Pest Management	5	44	84	128	7	25	32	51	109	160
Integrated Disease Management	2	0	22	22	0	23	23	0	45	45
Others (pl specify)	2	0	20	20	5	23	28	5	43	48
Total	**9**	**44**	**126**	**170**	**12**	**71**	**83**	**56**	**197**	**253**
X Capacity Building and Group Dynamics										
Leadership development	1	0	0	0	21	0	21	21	0	21
Group dynamics	4	0	89	89	0	71	71	0	160	160
Others (pl specify)	3	0	89	89	0	63	63	0	152	152
Total	**8**	**0**	**178**	**178**	**21**	**134**	**155**	**21**	**312**	**333**
GRAND TOTAL	48	377	474	851	277	283	560	654	757	1411

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

Thematic area	**No. of courses**	**Participants**								
		Others			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production										
Weed Management	2	0	0	0	26	0	26	26	0	26
Cropping Systems	3	32	0	32	23	3	26	55	3	58
Seed production	2	5	0	5	40	0	40	45	0	45
Nursery management	2	30	0	30	24	0	24	54	0	54
Integrated Crop Management	4	17	0	17	62	0	62	79	0	79
Soil & water conservation	1	23	9	32	0	0	0	23	9	32
Integrated nutrient management	2	39	0	39	10	0	10	49	0	49
Production of organic inputs	2	49	20	69	2	0	2	51	20	71
Others (pl specify)	1	21	0	21	0	0	0	21	0	21
Total	19	216	29	245	187	3	190	403	32	435
II Horticulture	0	0	0	0	0	0	0	0	0	
a) Vegetable Crops										
Production of low value and high valume crops	2	14	26	40	1	0	1	15	26	41
Off-season vegetables	1	11	0	11	15	0	15	26	0	26
Nursery raising	3	2	21	23	14	40	54	16	61	77
Export potential vegetables	1	0	19	19	0	11	11	0	30	30
Grading and standardization	1	0	25	25	0	0	0	0	25	25
Protective cultivation	1	15	0	15	13	0	13	28	0	28
Others (pl specify)	2	1	8	9	40	14	54	41	22	63

Total (a)	4	16	46	62	15	0	15	31	46	77
Plant propagation techniques	1	0	0	0	0	35	35	0	35	35
Total (b)	1	0	0	0	0	35	35	0	35	35
GT (a-g)	12	43	99	142	83	100	183	126	199	325
III Soil Health and Fertility Management										
Soil fertility management	3	32	0	32	34	0	34	66	0	66
Total	3	32	0	32	34	0	34	66	0	66
IV Livestock Production and Management										
Dairy Management	4	21	20	41	40	0	40	61	20	81
Poultry Management	2	0	20	20	21	0	21	21	20	41
Animal Nutrition Management	1	22	0	22	0	0	0	22	0	22
Feed & fodder technology	3	21	0	21	63	3	66	84	3	87
Production of quality animal products	8	163	56	219	3	7	10	166	63	229
Total	18	227	96	323	127	10	137	354	106	460
VII Plant Protection										
Integrated Pest Management	9	64	156	220	31	34	65	95	190	285
Integrated Disease Management	6	49	43	92	26	23	49	75	66	141
Others (pl specify)	4	7	44	57	22	23	45	29	67	96
Total	19	120	243	369	79	80	159	199	323	522
X Capacity Building and Group Dynamics										
Leadership development	1	0	0	0	21	0	21	21	0	21
Group dynamics	4	0	89	89	0	71	71	0	160	160
Others (pl specify)	3	0	89	89	0	63	63	0	152	152
Total	8	0	178	178	21	134	155	21	312	333
GRAND TOTAL	79	638	645	1289	531	327	858	1169	972	2141

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

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		M	**F**	**T**	**M**	**F**	**T**	**Male**	**Female**	**Total**
Group Dynamics and farmers organization	**1**	**0**	**0**	**0**	**27**	**0**	**27**	**27**	**0**	**27**
Capacity building for ICT application	**4**	**94**	**0**	**94**	**42**	**32**	**74**	**136**	**32**	**168**
TOTAL	**5**	**94**	**0**	**94**	**68**	**32**	**101**	**168**	**32**	**194**

Sponsored training programmes

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		M	**F**	**T**	**M**	**F**	**T**	**Male**	**Female**	**Total**
Crop production and management										
Increasing production and productivity of crops	2	36	35	77	3	0	3	39	35	74
Others (pl. specify)	3	8	43	51	17	30	47	28	73	101
Livestock production and management	1	0	0	0	0	24	24	0	24	24
Others (Dairy Management)	1	0	0	0	33	1	34	33	1	34
GRAND TOTAL`	7	44	78	128	53	55	108	100	133	233

Details of vocational training programmes carried out by KVKs for rural youth ASCI (200 hrs-25 days)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Organic Growers	1	20	0	20	0	0	0	20	0	20
Dairy farming	1	20	0	20	0	0	0	20	0	20
Grand Total	**2**	**40**	**0**	**40**	**0**	**0**	**0**	**40**	**0**	**40**

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	20	70996	14	71010
Diagnostic visits	7	44	3	47
Field Day	11	301	9	310
Group discussions	53	917	13	930
KisanGhosthi	4	168	3	171
Film Show	49	1444	12	1456
Scientists' visit to farmers field	29	147	9	156
Plant/animal health camps	5	189	3	192
Farmers' seminar/workshop	2	485	5	490
Method Demonstrations	3	49	1	50
Celebration of important days	7	1780	0	1780
Special day celebration	1	70	2	72
Exposure visits	12	240	0	240
Others (Lecture Delivered)	15	1434	13	1447
Total	**218**	**78264**	**87**	78351

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

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	15
Extension Literature	12
Newspaper coverage	16
Popular articles	4
Animal health camps (Number of animals treated)	1251
Total	**1325**

3.6 Online activities during year 2020

S. No.	Activity Type	Mode of implementation	Title of Program	No. of Programmes	No. of Participants/ Views
A	Farmers training	**Video conferencing / Audio Conferencing/Zoom/**	Farmers Training.	4	249

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Paddy	GAR-13	-	38	-	In storage
Pulses	Greengram	GAM-5	-	21	294000	105
Total				**59**	**294000**	**105**

Production of planting materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vegetable seedlings	Brinjal, Tomato, Cabbage, Cauliflower, Chilli	F1Hyb	-	183597	269487	162
Fruits	Lime	Klime		500	5000	3
	Drumstick	PKM-1		113	1130	2
	Mango	KasarRajapuri		1700	85000	3 (Stock in nursery
Total				**184216**	**275977**	**170**

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

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

B. Literature developed/published

Item	Title	Authors name	Number
Research papers	• Constrains perceived by the tribal farm women in receiving the training on improved animal husbandry of Chhotaudepur Dist. • Training needs of tribal farm women in receiving the training on improved animal husbandry of Chhotaudepur Dist.	B.M.Mehta B.L.Dhayal	2
Technical reports	AGRESCO Meeting Reports ,ZREAC, APR,AAP	-	4
News letters	-	-	2
Technical bulletins	-	-	4
Extension literature	-	-	12
TOTAL			**24**

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	**Crop wise video Clipping**	**Crop wise video Clipping**	**15**

D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel	Vadodara KVK	116
2	Facebook page/ Account	Kvk Mangalbharti Vadodara	1010
4	WhatsApp groups	11	**950**
5	Twitter Account	Krishi Vigyan Kendra - Vadodara @kvkvdr	**188**

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
Anand Agricultural University, Anand	Technical Support
Model farm, Anand Agricultural University, Vadodara	Technical Support
State Department of Agriculture, and Dept. of Agriculture, District Panchayat, Vadodara / Chhotaudepur	Technical / Financial Support
State Dept. of Horticulture, Vadodara/ Chhotaudepur	Technical / Financial Support
National Horticulture Mission, Vadodara / Chhotaudepur	Technical / Financial Support
Dept. of Animal Husbandry, Vadodara / Chhotaudepur	Technical / Financial Support
ATMA Project, Vadodara / Chhotaudepur	Technical / Financial Support
Central ware housing Corporation	Technical Support
APMC Vadodara / Chhotaudepur	Technical / Financial Support
District Watershed Development Unit, Vadodara / Chhotaudepur	Technical Support
Main Research Station (Cotton), Surat, Navsari Agricultural University	Technical Support
National Bank for Agriculture and Rural Development (NABARD),Vadodara	Technical Support
LEAD Bank Bank Of Baroda/State Bank of India	Technical Support
GGRC	Technical Support
GSFC	Technical Support
Baroda Swarojgar Vikas Sansthan, Vadodara / Chhotaudepur	Technical Support
PrakurtiFoundation ,Zalod	Technical Support

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

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

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

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**	**AGB Meeting, Convergence meeting FSI Meeting DFAC Meeting**	**04**	**04**	
02	**Training programmes**	**Sponsor Training**	**07**	**07**	
03	**Extension Programmes**	**Lecture Delivered**	**10**	**-**	
04	**Demonstrations**	**Backyard Poultry**	**02**	**02**	
05	**Award Verification**	**Award Verification**	**04**	**-**	

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

S. No	Feed Back
Black gram (cv.PU-31)	YVM infestation not found in this variety and Mature earlier as compare to Local variety
Black gram (cv.PU-40)	YVM infestation very less in this variety
Cotton (cv.GAWMH-2) Cotton (cv.Narmdamoti)	• Due to short duration of variety cv. GAWMH-2 & Narmada Moti is benefitted to cotton crop.. • It is highly suitable of domestic (food)/ rotala) purpose
Ovsynch Protocol in buffalo	Reduce inter calving and dry period ,increase milk production
Backyard Poultry	Fast growth rate and higher egg production as compared to local native.
Okra (cv.GAO-5)	• Fruits are long and tender with dark green colour help in getting more market price • Very less infestation of YVM
Tomato (cv.AT-3) Tomato (cv.GAT-5)	• GAT-5 gives higher yield then AT-3 • Infestation of TLMV is higher in AT-3 var. as compare to GAT-5 • It is required to work for minimizing fruit cracking while transportation.
Cotton (IPM)	Use of Pheromone trap and bio-pesticides reduced no. of chemical pesticides sprays, which has minimized cultivation cost. It is safer for beneficial insects like beetles.
Brinjal (IPM)	The adoption of IPMstrategies decreased the No. of chemical pesticides spray and cost of production without affecting the yield.
Maize (IPM)	• Farmers convinced to use bio-pesticides and chemical pesticides for management of pests in maize • By using bio and chemical pesticides in proper sequence, expense on pesticides can be reduced.
Wheat (cv.GW-451)	• Farmers were convinced to adopt new verity of Wheat (GW-451) • Production of GW-451 higher than GW-496
Cotton (INM)	INM increase the yield and quality of cotton.
Chilli (IWM)	Less labour costing and good initiat growth. Lower infection of sucking pests.
Sorghum (cv.COFS-29)	This Variety gave higher green fodder yield as compare to local variety
Supplementary feeding of Mineral mixture in Buffalo	Farmers were convinced to adopt supplementary feeding of Mineral mixture
Feeding of Bypass protein in Cow	Farmers were convinced to adopt supplementary feeding of Bypass protein
Cotton Picking Bags	• Farm women convinced to use Cotton picking bags because of saving time, and physical energy. • Use of Cotton picking bags also increases the working efficiency.
Kitchen gardening	Farm women are ready to adopt kitchen garden because of variety of vegetables available for their food. Farm women save the expenses as against vegetables purchases.
Soybean cv.JS-20-29	Seed shattering problem is less in this variety. Variety gives stable performance in water logged and dry condition

Pigeon pea cv.AGT-2	Wilt problem is less as compare to Vaishali variety and INM also increase the growth and yield of plant.
Green gram cv.GAM-5	YVM resistance variety and Market rate more due to bold seed size.

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

Technical Feedback on the demonstrated technologies

S. No	Feed Back
Soybean cv.NRC-37	• It is needed to work more on develop of pest resistance/tolerance for the variety.
Black gram cv.PU-31	Better weed management found due to adoption IWM and Plant growth found better due to adoption INM and found resistance against YVM virus
Pigeon pea cv.AGT-2	Less sterility mosaic as compare to BDN-2 variety.
Green gram cv.GAM-5	INM increase growth of plant and size of seed and found resistance against YVM virus
Cotton (IPM)	• Pheromone traps, bio-pesticides has minimized the infestation of pink boll worm and good quality cotton was harvested • There is need to develop pink boll worm pest resistant varieties of cotton.
Maize (IPM)	• Use of Carbofuran for stem borer management(During 30-45 DAS) in maize has given good results • By using bio and chemical pesticides in proper sequence, expenses on pesticides can be reduced.
Wheat (cv.GW-451)	• In GW-451 variety more tillers(19-28)/ plants found as compare to local check(GW496)(19-25)
Cotton (INM)	Due to seed treatment of NPK consortium germination found better.
Chilli	• Weed competition is less during 2 months after translating, • Good plant growth due to less weeds. • Less no. of weeds/ units area (sq.mt)
Sorghum(F) cv. COFS-29	Needs seeds availability of improved variety. Suitable for assured irrigated area.
Supplementary feeding of Mineral mixture in Buffalo	Milk yield and fat percentage has increased and get more market price.
Feeding of Bypass protein in Cow	Supplementary feeding for dairy animals to increase milk and fat percentage
Kitchen gardening	Kitchen garden fulfill the requirement of **Carbohydrates**, **Vitamins**& Minerals to human diet By Kitchen garden green vegetable available round the year.

13. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2020	2	70904	-
May 2020	4	70904	
Jun 2020	2	70904	
Jul 2020	2	70904	
Aug 2020	6	70904	
Sept 2020	3	70904	

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar e-ness	Other enterprise	Total
Vadodara	Text only	4	4	7	0	11	0	26
	Total Messages	4	4	7	0	11	0	26
	Total farmers Benefitted	**70904**	**70904**	**70904**	**70904**	**70904**	**70904**	**70904**

14. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Vermicompost Unit	2016-17	0.05	-	Compost	-	2000	3000	
2	Goatry Unit	2016-17	0.05	Surti	Breed	12	11040	37900	
3	Poultry Unit	2016-17	0.05	Ankelshwar/ Kadaknath	Eggs Birds	-	4080	9270	
4	Vegetable & Nursery Unit	2010-11	0.20	F1Hyb	Seedling	184216	138162	257977	

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Paddy	16-06-20	5-11-20	3.20	GAR-13	Seed	12202	134810	128604	
Wheat	29-11-19	31-3-20	1.0	GW-451/496	Grain	1541	15275	30820	
Pulses									
Greengram	3-3-20	30-5-20	2.72	GM-6/ GAM-5	Seed	2128	70160	296800	
Pigeonpea	23-10-19	4-4-20	2.90	AGT-2 & Vaishali	Grain & Seed	4416	85990	238442	
Oilseeds									
Soybean	19-6-20	23-10-20	2.00	NRC-37	Seed	515	19940	30830	
Sesame	12-3-20	30-5-20	0.50	GT-5	Grain	91	6940	7730	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Goat	Surti	Male Animals	12	11040	37900	
2	Poultry	Ankelshwar/ Kadaknath	Male birds &egges	-	4080	9270	

E. Utilization of hostel facilities

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
November 2020	24	2	Due to Covid-19

H. Performance of Nutritional Garden at KVK farm

If Nutritional Garden developed at KVK farm/Village Level? Yes/No

If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
0.2	Vegetable crops	10	479
	Fruit crops	-	
	Others if any(vine crops)	03	

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
	Vegetable crops		
	Fruit crops		
	Others if any		

H. Details of Skill Development Trainings organized

S.No.	Name of KVKs/SAUs/ICAR Institutes	Name of QP/Job role	Duration (hrs)	No. of participants					
				SCs/STs		Others		Total	
				Male	Female	Male	Female	Male	Female
1	Vadodara	Organic Growers	200	00	0	20	0	20	0
		Nursery Workers	200	00	0	20	0	20	0

15. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	State Bank of India	Sankheda	3497	Mangalbharti Krishi Vigyan Kendra	10683587608	391002514	SBIN0003497
With KVK							

B. Utilization of KVK funds during the year 2020-21 (Rs. in lakh)(Till Dec, 2020)

Sr.No	Items/ Head	Approved Allocation for the year 2019-20	Grant received (council's share)	Expenditure (up to Dec-20)
A	**Recurring Contingencies Items**			
1	Pay & Allowances	**13000000**	**8207309**	**9155215**
2	Traveling Allowances	**100000**		**4854**
3	Contingencies	**1100000**		**515745**
a	Stationery, Telephone, Postage & other expenditure on office running,	400000		171704
b	POL, repair of Vehicles, tractor & equipment's			62808
	(Total a + b)	**400000**		**234512**
			653050	
c	Meals/refreshment of trainees	700000		39868
d	Training materials			6039
g	Training of extension functionaries			9456
e	Frontline demonstration			183282
f	On farm testing			42588
h	Maintenance of building			0
	(Total c to h)	**700000**		**281233**
	Total (A)	**14200000**	**8860359**	**9675814**
B	**Non-Recurring Contingencies**			
1	Equipment	0	0	0
2	Works	0	0	0
3	Vehicle	0	0	0
4	Library	0	0	0
	Total (B)	**0**	**0**	0
	Grand total (A+B)	**14200000**	**8860359**	**9675814**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2018 to March 2019	1167537=68	1345000=00	1115000=00	1397537=68
April 2019 to March 2020	1397537=68	1306193 =00	942287=00	1761443=68
April 2020 to December, 2020	1761443=68	862395=00	772608=00	1851230=68

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
B. L.Dhayal	SMS (Ext.)	Summer school on ICT	NARM, Hyadrabad	**Offline**	18-02-2020 to 10-03-2020
M.C. Bhrambhatt	SMS (Horti)	Webinar on Utility of Rooftop gardening and kitchen gardening	-	Online	29-7-2020
All Staff	Sr.Scientists/ SMS/ Prog. Assit.	Online training on video Production and editing for social media	-	Online	26/08/2020 to 28/08/2020
V.D.Patel	SMS (P.P)	State level webinar on " Kharif Crop"	-	Online	20-8-2020
V.D.Patel	SMS (P.P)	National webinar on Plant health Mang for Stainable agril.	-	Online	4-09-2020
M.C.Bharambhatt &C.R.Patel	SMS (Horti) & SMS (Agro)	National level consultation on BPKP-Natural Farming	-	Online	29-9-2020 to 30-9-2020
B.M.Mehta B. L.Dhayal	Sr.Scientist and Head and SMS (Ext.)	2nd National Conference of Society of KVK on Advance in Stainable agril.		Online	26-9-2020 to 28-9-2020

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

Name of the village	Total No. of families surveyed	Key interventions implemented	No. of farmers covered in each intervention	Change in income (Rs/unit)	
				Before	After
Sundarpura Ta.: Sankheda, Dist.: Chhotaudepur	91	1. Crops +Horti.+ Animal husbandry +Vegetables	40	94300/-	98400/-
		2. Crops + Horticulture+ Animal		88200/-	90400/-

		Husbandry			
Vaniyadri Ta.Bodeli, Dist. Chhotaudepur	125	1. Crops +Horti.+ Animal husbandry +Vegetables	60	134750/-	137650/-
		2. Crops + Horticulture		94300/-	96400/-
		1. Crops + Animal husbandry		94100/-	96600/-

20. Details of SAP

S. No.	Types of major Activity conducted- SwachhtaPakhwada, Cleaning, Awareness Workshop, Miccobial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
01	**SwachhtaPakhwada, Cleaning, Vermicomposting etc.**	32	307

APR SUMMARY

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

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	79	1169	972	2141
Extension functionaries	05	168	32	194
Sponsored Training	07	100	133	233
Vocational Training	02	40	0	40
Total	**93**	**1477**	**1137**	**2608**

2. Frontline demonstrations

Enterprise	No. ofFarmers	Area(ha)	Units/Animals
Oilseeds	49	15	-
Pulses	100	40	-
Cereals	27	12	-
Vegetables	22	7	-
Other crops	20	8	-
Fodder crops	40	10	-
Total	258	92	
Livestock & Fisheries	20	-	20
Other enterprises	237	-	237
Total	257		257
Grand Total	515	92	257

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	06	18	18
Livestock	02	20	20
Various enterprises	0	0	0
Total	**08**	**38**	**38**
Technology Refined			
Crops	0	0	0
Livestock	0	0	0
Various enterprises	0	0	0
Total	0	0	0
Grand Total	**08**	**38**	**20**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	218	78351
Other extension activities	07	1325
Total	225	79676

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Vadodara	Text only	4	4	7	0	11	0	26
	Total Messages	4	4	7	0	11	0	26
	Total farmers	**70904**	**70904**	**70904**	**70904**	**70904**	**70904**	**70904**

	Benefitted							

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	59	294000
Planting material (No.)	184216	257977
Bio-Products (kg)	0	0
Livestock Production (No.)	12	47170
Fishery production (No.)	0	0

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	219	-
Water	103	-
Plant	-	-
Total	**322**	