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

#### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		Telephone		E mail	Website address & No.
				of visitors (hits)		
Krishi Vigyan Kendra	Office	FAX	kvksurat@ nau.in	www.nau.in		
Navsari Agricultural University	(0261) -	(0261)		kvk.icar.gov.in		
Athwa Farm, Surat	2655565	2668045 pp				
Dist. Surat, Gujarat-395007						

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

Address	Telephone		E mail	Website
	Office	FAX		address
Director of Extension Education	(02637)	(02637)	dee@nau.in	www.nau.in
Navsari Agricultural University	282026	282706		
Navsari				

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

Name	Telephone / Contact				
Dr. J. H. Rathod	Office	Mobile	Email		
DI. J. H. Kaulou	0261 655565	8128686720	hariom.janaksinh@gmail.com		

1.4. Year of sanction: 2012

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

	dan i osition (as on 51 Dec			If Perman	ent, Please ir	ıdicate	If Temporary, pl.
Sl. No	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current GP	Date of joining	indicate the consolidated amount paid (Rs./month)
1.	Senior Scientist and Head	Dr. J. H. Rathod	Entomology	131400-217100		16.11.16	Temporary (189994)
2.	Scientist	Dr. R. K. Patel	Extension	68900-205500		01.02.19	Temporary (103059)
3.	Scientist		Animal Husbandry	Vacant			
4.	Scientist	Mr. S. J. Trivedi	Agronomy	68900-205500		01.06.18	Temporary (112158)
5.	Scientist	Smt. B. B. Panchal	Horticulture	57700-182400		20.01.17	Temporary (78834)
6.	Scientist	Smt. G. J. Bhimani	Home Science	68900-205500		05.02.16	Temporary (100059)
7.	Scientist	Dr. S. K. Chawda	Crop protection	57700-182400		02.04.13	Temporary (86572)
8.	Farm manager	Mr. A. T. Patel		39900-126600		12.07.12	Temporary (54880)
9.	Computer Programmer	Mr. C. G. Lad		39900-126600		10.08.15	Temporary (54880)
10.	Programme Assistant	Mr. Y. D. Patel		39900-126600		10.08.15	Temporary (56501)
11.	Accountant/ Superintendent	Mrs. B. C. Patel		35400-112400		01.07.17	Temporary (61455)
12.	Stenographer	Mrs. J. M. Verma		25500-81100		19.08.15	Temporary (30375)
13.	Driver	Vacant					
14.	Driver	Vacant					
15.	Supporting staff	Vacant					
16.	Supporting staff	Vacant					

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.73
2.	Under Demonstration Units	1.00
3.	Under Crops	10.80
4.	Horticulture	0.75
5.	Pond	
6.	Others if any	

## 1.7. Infrastructural Development:

A) Buildings

A)	Dunuings	·····	·					
		Source			Stag	ge		
S.	Name of building	of	Complete				Incomp	lete
No.		ame of funding		Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building		Under Constructio		 			
2.	Farmers Hostel		n					
3.	Staff Quarters (6)							
4.	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system							<del></del>
7	Threshing floor							
8	Farm godown							
9	ICT lab							
10	Other							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Tata)	2012	599999	220000	Working
Tractor	2012	549900	1027(h)	Working

C) Equipment & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Cultivator	2012-13	22500	Working
Plough	2012-13	22500	Working
Lenovo Computer with printer- 4	2015-16	162816	Working
Canon printer- 4	2015-16	34704	Working
Canon Copier machine	2015-16	47565	Working
Multi- media projector-2	2015-16	103691	Working
DSLR Camera	2015-16	39555	Working
Digital camera	2015-16	10305	Working

Multicrop Thresher	2016-17	180000	Working
Rotavetor	2016-17	67210	Working
Disc Harrow	2016-17	95000	Working
Multicrop seed cum fertilizer drill	2016-17	42000	Working
Bund former	2016-17	18000	Working
Cage wheel	2016-17	30450	Working
Ridger (with danti)	2016-17	13125	Working
Hydrulic luggage box	2016-17	16800	Working
V Ditcher	2016-17	12600	Working
Plank	2016-17	32550	Working
RO water purifier with cooler	2016-17	78000	Working
Mrida Parikshak Soil Testing minilab-kit	2016-17	86000	Working
A/C-2	2016-17	80,000	Working
Tractor mounted sprayer	2018-19	13806	Working
Brush cutter	2018-19	24632	Working

**1.8.** Details of SAC meetings conducted in the year 2020

## Proceeding of 9<sup>th</sup> Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat held on 18/12/2020 at 10:00 a.m., at KVK, Surat

The Ninth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat was held at KVK, Surat on 18<sup>th</sup> December, 2020 to review the progress made by KVK during last year (01-02-2020 to 15-12-2020) and to discuss the future action plan for the next year (January-2021 to December-2021). The meeting was chaired by Dr. Z. P. Patel, Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari. Dr. S. R. Chaudhary, Director of Research and Dean PG studies, NAU, Navsari, Dr. C. K. Timbadia, Director of Extension Education, NAU, Navsari and Mr. K. S. Patel, Joint Director of Agriculture, Surat grace the meeting. Dr. J. H. Rathod, Member Secretary & Senior Scientist and Head, Krishi Vigyan Kendra, Surat welcomed the dignitaries, committee members, farmers and other invitees. He presented overall activities and achievements done by the KVK during the mentioned year. Scientists also presented the discipline wise achievements made by them. Activities done by KVK, Surat was appreciated by the house and congratulated the Senior Scientist and Head and his team for addressing the key issues as per the need of the farmers of Surat district. The Action Plan for the next year was also presented before the house with special reference to tribal of the district.

Dr. C. K. Timbadia, Director of Extension Education, NAU, Navsari congratulated team of KVK for good work done during the last year and gave suggestions to give more emphasis on organic farming during training and to add organic inputs in components of FLD. He also appreciates the collaboration of Krishi Vigyan Kendra, Surat with other line departments.

Dr. Z. P. Patel, Hon'ble Vice Chancellor appreciated the activities of Krishi Vigyan Kendra, Surat. He advised to promote most successful technologies of universities on large scale in particular area. He also suggested for popularizing bean varieties in Umarpada district.

## 9.1 Approval of the minutes of Eighth Scientific Advisory Committee.

The action taken report of the minutes of eighth SAC meeting (Held on 24.01.2020) was presented before the house and it was approved by the Scientific Advisory Committee.

#### **9.2 Progress made by KVK during** 01-02-2020 to 15-12-2020

Senior Scientist and Head and all Scientists of the KVK, NAU, Surat presented the report on progress made by KVK, for the period of 01-02-2020 to 15-12-2020. The committee was satisfied with the activities and achievements made by the KVK.

#### 9.3 Action plan for the period of January 2021 to December 2021.

Discussion was made on the Action Plan for the period of January 2021 to December 2021 which was approved by the house. However, few suggestions were made by the house to strengthen the action plan.

	$\mathcal{E}$
9.3.1	Give more emphasis on organic farming during training and add organic
	inputs in FLD
9.3.2	Give cluster demonstrations on Fruit fly trap
9.3.3	Conduct trainings on IPM in Sorghum
9.3.4	Conduct trainings & demonstrations of IPDM in Sugarcane crop
9.3.5	Conduct FLD on Elephant foot yam and Greater Yam
9.3.6	Increase number of training in Umarpada, Mandvi and Mangrol block
9.3.7	Conduct training on mushroom cultivation in collaboration with R-CETI,
	Surat
9.3.8	Conduct demonstrations on Indian bean in Umarpada block
9.3.9	During training programme, aware farmers regarding different banking
	schemes related to farming
9.3.10	conduct demonstration on KDS 344 variety of Soybean for medium to high
	rainfall area

The meeting was ended with vote of thanks by Mr. S. J. Trivedi, Scientist, Crop production, KVK, NAU, Surat.

Member Secretary & Senior Scientist and Head Krishi Vigyan Kendra, Athwa Farm, Surat Chairman SAC & Vice – Chancellor Navsari Agricultural University Navsari

# Following members and invitees were remained present in 9<sup>th</sup> Scientific Advisory Committee meeting.

Com	mittee meeting.		
1	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	Chairman
2	Dr. S. R. Chaudhary	Director of Research and Dean PG Studies, NAU, Navsari	Member
3	Dr. C. K. Timbadia	Director of Extension Education, NAU, Navsari	Member
4	Shri. K. S. Patel	Joint Director of Agriculture, Surat	Member
5	Dr. D. R. Bhanderi	Professor and Head,	Member
		Department of Horticulture, NMCA, NAU,	
		Navsari	
6	Dr. R. L. Leva	Representative, Professor and Head, Department	Member
		of Agronomy, NMCA, NAU, Navsari	
7	Dr. M. D. Patel	Research Scientist, LRS, NAU, Navsari	Member
8	Mr. N. G. Gamit	District Agriculture Officer, Surat	
9	Shri. N. K. Gabani	Project Director, ATMA, Surat	Member
10	Dr. S. Tejani	Representative, Veterinary Officer, Dept. of	Member
	_	Animal Husbandry, Surat	
11	Ms. Preeti R. Desai	Representative, Deputy Director of Horticulture,	Member
		Surat	
12	Mr. N. M. Barot	Training course coordinator, WALMI, Surat	Member
13	Mrs. Vajaben Vasava	BOD, Reliance Foundation, Surat	Member
14	Mrs. Nishaben S.	Chairmen, SHG, Village: Parvat, Taluka:	Member
	Chaudhary	Mandvi, Surat	
15	Mrs. Anjanaben	Progressive Woman Farmer, Village:Chitlada,	Member
	Sandipbhai Vasava	Taluka:Umarpada, Surat	
16	Mr. S. Y. Solanki	Representative, RFS, Dhamrod	Member
17	Dr. R. M. Patel	Principal & Dean, Aspee Shakilam	Special
		Biotechnology Institute, NAU, Surat	Invitee
18	Dr. M. C. Patel	Research Scientist (Cotton), Main Cotton	Special
		Research Station, NAU, Surat	Invitee
19	Dr. B. K. Davda	Research Scientist (Sorghum), Main Sorghum	Special
		Research Station, NAU, Surat	Invitee
20	Dr. Rekha N. Mistry	Faculty of MSW programme, VNSGU, Surat	Special
			Invitee
21	Mr. Mahendra H.	Representative, Reliance Foundation, Surat	Special
	Makavana		Invitee
22	Mr. Rajak A. Vohara	Representative, Project Director, District	Special
		Watershed Development Unit, Surat	Invitee
23	Mr. Rasik Jethwa,	Lead Bank Manager, Bank of Baroda, Surat	Special
	7. 5 0. 1		Invitee
24	Mrs. Rama Sinh	Joint Director, Suruchi Shikshan Vasahat Trust,	Special
	7	Bardoli	Invitee
25	Ms. Asha R. Dave	IPP, SGPC, Surat	Special
2.5	N. A. 17 C'	D' - D 1 0 1 1777 0 1 5	Invitee
26	Mr. Amol L. Gite	Director, Baroda Swarojgar Vikas Sansthan R-	Special
	G1 ' D ' 11 '	CETI, Surat	Invitee
27	Shri Ramsingbhai	Representative, Cooperative Leader, Village:	Special
	Chaudhri	Moritha, Taluka: Mandvi,	Invitee

28	Dr. J. H. Rathod	Senior Scientist and Head, KVK, Surat	Member		
			Secretary		
29		All 5 Scientists, KVK, Surat			
Foll	Following Members couldn't remain present				
1	1 Director, ATARI, Pune				
2	Head, CSSRI (ICAR), RRS, Bharuch				
3	Deputy Director of Fishe	Member			

## 2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

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

S. No	Farming system/enterprise
1	Crop production
2	Crop production and Horticulture
3	Crop production and Livestock
4	Crop production, Horticulture and Livestock

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

a) Soil type

Taluka (AES)	Soil texture	Rainfall	Crops	Features
		(mm)		
(AES-1)	Hilly and	< 1100	Paddy, Maize,	Highly erosive
Mandvi (30%),	highly		Cotton, Sorghum,	Shallow to medium
Mangrol (40%),	undulating fine		Pulses	in depth
Umarpada	texture, highly			Poor permeability
	erosive			Low to medium N
				& P content
(AES-2)	Leveled, deep,	> 1450	Sugarcane, Paddy,	Poor drainage
Bardoli,	fine textured		Sorghum, Pulses,	Water logging
Choryasi (75%),			Orchards	Very poor
Kamrej,				permeability
Palasana,				Poor soil physical
Surat and				condition
Mahuva				Low to medium in
				N & P content
(AES-3)	Deep to	1000 –	Sorghum, Pulses,	Moderate to severe
Mandvi (70%),	medium black	1250	Paddy, Cotton, Oil	erosive
Mangrol (60%),			Seeds	Poor soil fertility
Olpad (70%)				Poor irrigation
				facility
(AES-4)	Coastal plain,	900-	Paddy - Cotton,	High salt
Choryasi (25%),	deep, fine	1000	Sorghum, Pulses,	accumulation
Olpad (30%)	texture, salt		Wheat	Poor soil physical
	affected			condition
				High water table
				Water logging
				condition

b)Topography

S.	Agro ecological situation	Characteristics		
No.				
1	(AES-1)	Hilly and highly undulating fine texture, highly erosive		
2	(AES-2)	Leveled, deep, fine textured		
3	(AES-3)	Deep to medium black		
4	(AES-4)	Coastal plain, deep, fine texture, salt affected		

2.3 Soil Types

2.3	Soil Types					
S. No	Soil type	Characteristics	Area in ha			
1	Inceptisols	Inceptisols are found on the hilly				
		areas as well as along the hill slopes.				
		These soils are shallow to				
		moderately deep and highly eroded.				
		Their texture varies from loamy to				
		clay. Their water holding capacity is				
		moderate. They are moderate to high				
		in nitrogen, low in phosphoric acid				
		and high in potash content.				
2	Vertisols	Vertisols are found in the midlands				
		and flood plains. These soils are very				
		deep and silty to clay in texture. Their				
		water holding capacity varies with				
		clay content. These soils crack on				
		drying and have poor drainage				
		characteristics. These are moderate				
		in nitrogen, low to medium in				
		phosphoric acid and high in potash				
		content				
3	Coastal saline soils	The soils are sandy clay loam to clay				
		in texture. The soil reaction varies				
		with situation ranging from neutral to				
		highly alkaline. These soils are				
		normally medium in fertility.				

## 2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2018)

## 2.4.1 Field Crops cultivated in the district

S. No	Crop	Area (ha)	<b>Production (MT.)</b>	Productivity (Qt./ha)
Kharif		, , ,	· · · · · · · · · · · · · · · · · · ·	
1	Paddy Irrigated	32907	113858	3460
2	Paddy rainfed	5701	9349	1640
3	Kh. Sorghum	11052	14091	1275
4	Kh. Maize	1245	1942	1560
5	Pigeon pea irrigated	916	1032	1127
	Pigeon pea- rainfed	9506	7224	760
6	Green gram	944	690	651
7	Urid	1587	415	658
8	Other pulses	347	183	530
9	Ground nut	530	816	1540
10	Sesame	26	11	435
11	Castor	30	50	1667
12	Cotton	2352	4515	1920
13	Soybean	9830	8620	877
14	Vegetables	31991	0	
15	Fodder	7164	0	
16	Green manuring	7616	0	
	Total	123796	0	
Rabi-su	mmer crops			<del>,</del>
1	Paddy ( Summer)	2732	12594	4610
2	Wheat	6305	24570	3942
3	Sorghum	6305	10863	1723
4	Maize	862	1873	2174
5	Bean	824	717	871
6	Pigeonpea	1085	1334	1230
7	Greengram summer	2041	1353	663
8	Gram	1453	1275	878
9	Groundnut Summer	409	889	2176
10	Sugarcane	84464	7816298	92540
11	Castor	43	78	1823
12	Mustard	79	93	1186
13	Fodder	2675		-
14	Vegetables	9368	-	-
	Total	118911		

Source: DAO, Surat.

2.4.2 Fruit crops cultivated in the district

Crop	Area (Ha.)	<b>Production (MT)</b>	Productivity (MT)
Mango	10049	64615	6.43
Sapota	1820	20092	11.04
Citrus	102	794	7.78
Ber	11	82	7.45
Banana	8692	613829	70.62

Guava	95	1260	13.26
Pomegranate	5	31	6.2
Date Palm	3	4	1.33
Papaya	209	12352	59.10
Custard Apple	8	64	8
Cashew Nut	20	8	0.4
Coconut	243	1946	8.01
Other Fruits	100	894	8.94
Total	21114	714025	33.82

Source: DDH, Surat

2.4.3 Vegetable Crops in the district

Crop	Area (Ha.)	<b>Production (MT)</b>	Productivity(MT)
Onion	128	2693	21.04
Brinjal	5268	112050	21.27
Cabbage	758	15425	20.35
Okra	13355	188840	14.14
Tomato	1260	27090	21.50
Cauliflower	1285	27203	21.17
Cluster Bean	1945	15521	7.98
Cowpea	1639	20291	12.38
Cucurbitaceae	6421	93275	
Vegetables			14.53
Other Vegetables	5724	97651	17.06
Total	37783	600039	15.88

Source: DDH, Surat

Area and Production of other Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity(MT)
Greater Yam	14.42	219	5116
Sugarbeet	24.17	159	3930
Carrot	12.11	213	3453
Sweet Potato	7.22	212	3970
Spinach	16.00	218	3567
Radish	15.91	486	8619
Amaranthus	10.04	345	3608
Moringa	9.77	148	1770
Capsicum	12.79	634	9701
Fenugreek	10.30	197	2309
Pea	10.85	68	796
Elephant Foot Yam	14.99	1002	16967
Green Chilli	28.23	1677	31360
Mallet/Mogri	21.56	23	546
Allocasia	9.20	123	1939
Total	17.85	5724	97651

Source: DDH, Surat

2.4.4 Flower Crops in the district

Crop	Area(Ha.)	<b>Production (MT)</b>	Productivity(MT)
Rose	63	582	9.24
Marigold	218	2170	9.95
Jasmine			
(Mogra)	6	26	4.33
Lily	58	570	9.83
Other Flowers	71.80	659	9.18
Total	416.8	4007	9.61

Source: DDH, Surat

2.4.5 Spices Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Dry Chilli	98	145	1.48
Garlic	10	52	5.20
Coriander	36	54	1.50
Ginger	112	1956	17.46
Turmeric	418	9104	21.78
Fenugreek	107	205	1.92
Ajwain	5	5	1.00
Dilseed	7	8	1.14
Total	793	11529	14.54

Source: DDH, Surat

#### 2.5. Weather data (2020)

Month	Rainfall (mm) Temperature 0 C		ature 0 C	Relative H	umidity (%)
		Maximum	Minimum	Morning	Evening
January 2020	-	27.2	11.6	67.4	55.0
February 2020	-	31.5	16.7	68.5	63.75
March 2020	-	35.8	20.1	68.2	61.7
April 2020	-	38.0	24.1	55.8	51.4
May 2020	-	37.5	28.2	64.5	53.7
June 2020	219.5	32.1	27.5	73.2	65.0
July 2020	705	30.7	27.6	82.6	78.8
August 2020	296	30.1	26.2	86.5	81.7
September 2020	356	29.7	25.5	84.0	82.5
October 2020	44	33.0	24.8	75.8	67.6
November 2020	14	33.0	21.9	75.7	66.5
December 2020	-	26.9	18.4	74.5	71.5

Source: MCRS, Surat

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

Category	Production	Productivity	
Cattle	Population	110uucuon	1 Todaciivity
Crossbred	289402	134000	7.9 liters
Indigenous	289402	44000	3.8 liters
Buffalo	300282	192000	4.6 liters
Sheep	1936	_	-
Goats	150464	5000	-

Pigs			
Crossbred	94000	_	_
Indigenous	68000	-	_
Rabbits	-	_	-
Poultry			
Hens	204000	55100	-
Desi	10000	-	-
Category		Production (Q.)	Productivity
Fish (Reservoir)	5	10414	-

Source: DAH, Surat

## 2.7. Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problems identified	Identified Thrust Areas
Taluka		1. Umra 2. Vasrai 3. Dhundhesa 4. Vadia	Major crops & enterprises  Paddy, Sugarcane, Pointed gourd, Okra, Brinjal, Vegetables, Mango Crop production-Horticulture- Livestock	1. The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation 2. Okra, brinjal and creepers are important crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding green house net house technology and crops Lack of technical knowhow about mango orchards plantation and management. 3. High use of water in canal command area and water scarcity in hilly area 4. Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides High incidence of wilt and parval vine borer in pointed gourd. 5. Low milk productivity	Increase productivity of major crops e.g. Paddy, sugarcane     Dissemination of production
				6.Lack of knowledge of small scale agricultural base enterprises, value addition etc. 7. Drudgery reduction through improved hand tools.	

Mandvi	1.	Amba	Paddy, Sugarcane, Brinjal, Okra,	1. The productivity of crop is very low due	1. Increase productivity of major crops
	2.	Parvat	Cluster bean, Vegetables, Pulses,	to lack of technical knowhow regarding its	e.g. Paddy, sugarcane, Soybean
	3.	Uteva	Soybean, Groundnut	scientific cultivation	2. Dissemination of production
	4.	Titoi			technology of fruits and vegetables and
			Crop production- Horticulture-	2. Brinjal and okra are important crops but	
			Livestock		promotion of precision farming.
				insect pests and disease	3.Management of natural resource,
				No technical know how regarding green	including salinity management
					4. Popularize eco-friendly crop
				Lack of technical knows how about	production with special reference to
				mango orchards plantation and	IPDM & INM.
				management.	5. Increasing milk production by
				3. High use of water in canal command	dissemination of latest technologies.
				area and water scarcity in hilly area	6 .Imparting skill oriented training to
				4.Lack of knowledge about Insect pests	the tribal women for sustaining their
				and diseases and their management and	livelihood.
				nutrient management in crops like paddy	7. Promotion of small scale farm
				sugar cane, okra, creepers etc,	mechanization in tribal area.
				Injudicious use of fertilizers and	
				pesticides	
				High incidence of wilt and fruit and shoot	
				borer in brinjal	
				5.Low milk productivity	
				High calf mortality	
				Problem of anoestrus	
				Lack of awareness about Feeds and fodder	
				management	
				6.Lack of knowledge of small scale	
				agricultural base enterprises, value	
				addition etc.	
				7.Drudgery reduction through improved	
				hand tools.	

Umarpada	1.	Kadvali	Paddy, Brinjal, Okra, Cotton, Pulses,	1. The productivity of crop is very low due	1. Increase productivity of major crops
	2.	Kadavidadra	Soybean, Groundnut	to lack of technical knowhow regarding its	e.g. Paddy, cotton, sorghum, pigeon
	3.	Vadpada		scientific cultivation	pea
	4.	Khotarampura	Crop production - Livestock		2. Dissemination of production
		•		2. Indian bean is an important crops but	technology of fruits and vegetables and
				the productivity is very low, problem of	their post harvest management as well
				insect pests and disease	promotion of precision farming.
					3.Management of natural resource,
					including salinity management
				orchards plantation and management.	4. Popularize eco-friendly crop
					production with special reference to
				3	IPDM & INM.
					5. Increasing milk production by
					dissemination of latest technologies.
					6 .Imparting skill oriented training to
					the tribal women for sustaining their
					livelihood.
				vegetables etc,	7. Promotion of small scale farm
					mechanization in tribal area.
				5.Low milk productivity	
				High calf mortality	
				Problem of anoestrus	
				Lack of awareness about Feeds and fodder	
				management	
				Large no of non descript animals	
				6. Lack of knowledge of small scale	
				agricultural base enterprises, value	
				addition etc.	
				7. Drudgery reduction through improved	
				hand tools.	

Mangrol	1.	Balethi	Paddy, Sorghum, Cotton, Pulses,	1.The productivity of crop is very low due	1. Increase productivity of major crops
	2.	Mandan		to lack of technical knowhow regarding its	
		Ghodbar			2. Dissemination of production
			Crop production- Livestock		technology of fruits and vegetables and
				2. Okra, brinjal and creepers are crops but	
					promotion of precision farming.
					3.Management of natural resource,
					including salinity management
					4. Popularize eco-friendly crop
					production with special reference to
					IPDM & INM.
				3. Water scarcity in hilly area and rain fed	5. Increasing milk production by
					dissemination of latest technologies.
				4.Lack of knowledge about Insect pests	6 .Imparting skill oriented training to
					the tribal women for sustaining their
					livelihood.
					7. Promotion of small scale farm
				3	mechanization in tribal area.
				pesticides	
				High incidence of wilt and parval vine	
				borer in pointed gourd.	
				5.Low milk productivity	
				High calf mortality	
				Problem of anoestrus	
				Lack of awareness about Feeds and fodder	
				management	
				managomont	
				6. Lack of knowledge of small scale	
				agricultural base enterprises, value	
				addition etc.	
				7. Drudgery reduction through improved	
				hand tools.	

Olpad	1. Mandroi	Paddy, Sugarcane, Pointed gourd,	1. The productivity of crop is very low due	1. Increase productivity of major crops
-	2. Bhatgam	Okra, vegetables	to lack of technical knowhow regarding its	
	· ·		scientific cultivation	2. Dissemination of production
		Crop production-Livestock		technology of fruits and vegetables and
			2. Okra and creepers are important crops	their post harvest management as well
			but the productivity is very low, problem	promotion of precision farming.
			of insect pests and disease	3.Management of natural resource,
			No technical knowhow regarding green	including salinity management
			house net house technology and crops	4. Popularize eco-friendly crop
			Lack of technical knowhow about fruit	production with special reference to
			crops cultivation.	IPDM & INM.
				5. Increasing milk production by
			3. High use of water in canal command	dissemination of latest technologies.
			area and salinity problem in coastal area	6 .Imparting skill oriented training to
			4.Lack of knowledge about Insect pests	the tribal women for sustaining their
			and diseases and their management and	livelihood.
			nutrient management in crops like paddy	
			sugar cane, okra, creepers etc,	
			Injudicious use of fertilizers and	
			pesticides	
			High incidence of wilt and parval vine	
			borer in pointed gourd.	
			5. Low milk productivity	
			High calf mortality	
			Problem of anoestrus	
			Lack of awareness about Feeds and fodder	
			management	
			6. Lack of knowledge of small scale	
			agricultural base enterprises, value	
			addition etc.	

Ka	amrej	1. Karjan	Sugarcane, Banana, Paddy,	1. The productivity of crop is very low due	1. Increase productivity of major crops
		<ol><li>Choryasi</li></ol>	Vegetables	to lack of technical knowhow regarding its	e.g. sugarcane
				scientific cultivation	2. Dissemination of production
			Crop production-Horticulture-		technology of fruits and vegetables and
			Livestock	2. Banana is an important crop but the	their post harvest management as well
				problem of insect pests and disease	promotion of precision farming.
				No technical knowhow regarding green	3.Management of natural resource,
				house net house technology and crops	including salinity management
					4. Popularize eco-friendly crop
				3. High use of water in canal command	production with special reference to
				area problem of water logging	IPDM & INM.
				4.Lack of knowledge about Insect pests	
				and diseases and their management and	
				nutrient management in banana	

H	Bardoli	1.	Balda	Paddy, Sugarcane, Banana, Brinjal,	1. The productivity of crop is very low	1. Increase productivity of major crops
		2.		Okra, Vegetables	due to lack of technical knowhow	e.g. Paddy, sugarcane
		3.		Crop production- Horticulture-	regarding its scientific cultivation	2. Dissemination of production
				Livestock		technology of fruits and vegetables and
					2. Okra and creepers are important crops	their post harvest management as well
					but the productivity is very low, problem	promotion of precision farming.
					of insect pests and disease	3.Management of natural resource,
					No technical knowhow regarding green	including salinity management
					house net house technology and crops	4. Popularize eco-friendly crop
					Lack of technical knowhow about fruit	production with special reference to
					crops cultivation.	IPDM & INM.
						5. Increasing milk production by
						dissemination of latest technologies.
						6 .Imparting skill oriented training to
					4.Lack of knowledge about Insect pests	the tribal women for sustaining their
					$\mathcal{E}$	livelihood.
					nutrient management in crops like paddy	
					sugar cane, okra, creepers etc,	
					Injudicious use of fertilizers and	
					pesticides	
					High incidence of wilt and parval vine	
					borer in pointed gourd.	
					5.Low milk productivity	
					High calf mortality	
					Problem of anoestrus	
					Lack of awareness about Feeds and fodder	
					management	
					CL ash of humandara d of small as als	
					6.Lack of knowleged of small scale	
					agricultural base enterprises, value	
					addition etc.	

Choryasi	1.	Bhatha	Paddy, Pointed gourd, Sorghum,	1. The productivity of crop is very low due	1. Increase productivity of major crops
	2.	Bhatpor	Vegetables	to lack of technical knowhow regarding its	e.g. sugarcane
	3.	Budia		scientific cultivation	2. Dissemination of production
			Crop production-Livestock	2.No technical knowhow regarding green	technology of fruits and vegetables and
				house net house technology and crops	their post harvest management as well
				3. High use of water in canal command	promotion of precision farming.
				area problem of water logging	3.Management of natural resource,
					including salinity management
				4.Lack of knowledge about Insect pests	4. Popularize eco-friendly crop
				and diseases and their management and	production with special reference to
				nutrient management in banana	IPDM & INM.
					5. Imparting skill oriented training to
					the tribal women for sustaining their
					livelihood.

#### 2.8. Priority thrust areas:

- 1. Increase productivity of major crops e.g. Paddy, Cotton, Sorghum, sugarcane, pulses
- 2. Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.
- 3. Management of natural resource, including salinity management
- 4. Popularizing of location specific farming system
- 5. Popularize eco-friendly crop production with special reference to IPDM & INM.
- 6. Increasing milk production by dissemination of latest technologies.
- 7. Imparting skill oriented training to the tribal women for sustaining their livelihood.
- 8. Promotion of small scale farm mechanization in tribal area
- 9. Value addition in Fruits, Vegetables & pulses

#### 3. TECHNICAL ACHIEVEMENTS

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

	Ol	FT		FLD			
	1	1		2			
Numb	er of OFTs	Numbe	r of farmers	Numb	er of FLDs	Numbe	r of farmers
Target	Achieveme	Target	Achieveme	Target	Achieveme	Target	Achieveme
S	nt	S	nt	S	nt	S	nt
8	6	30	40	25	28	450	912

	Trai	ning		Extension Programmes			
3				4			
Numbe	r of Courses		mber of ticipants		mber of grammes	Number of participants	
Target	Achievemen	Target	Achievemen	Target	Achievemen	Target	Achievemen
S	t	S	t	S	t	S	t
87	98	1910	3457	708	762	5438	139893

Seed Prod	uction (Qtl.)	Planting materials (Nos.)				
	5	6				
Target	Achievement	Target	Achievement			
Paddy-	GNR-3:154.00	50000 vegetable	60000 vegetable			
GNR-3:150.00	GR-17:21.00	seedlings	seedlings			
GR-17: 25.00		_				

	strains and fingerlings No.)	Bio-pr	roducts (Kg)
	7		8
Target	Target Achievement		Achievement
0 0		0	0

3.1. B. Operational areas details during the year 2020

S. No.	Major crops & enterprises being practiced in cluster of villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Name of Cluster Villages identified for interventions	Interventions (OFT, FLD, Training, extension activity etc.)*
1	Paddy, Sugarcane, Pointed gourd, Okra, Brinjal, Vegetables, Mango Crop production-Horticulture- Livestock	Use of local variety High seed rate, Imbalance use of fertilizers, No use of bio fertilizer		Umra Vasrai Dhundhesa Vadia	OFT, FLD, Training, extension activity
2	Paddy, Sugarcane, Brinjal, Okra, Cluster bean, Vegetables, Pulses, Soybean, Groundnut Crop production- Horticulture- Livestock	Use of local variety in brinjal Imbalance use of fertilizers in crops No use of bio- fertilizers No knowledge about post harvest management and processing Low technical know house regarding green house/ net house and production technology		Amba Parvat Uteva Titoi	OFT, FLD, Training, extension activity
3	Paddy, Brinjal, Okra, Cotton, Pulses, Soybean, Groundnut Crop production – Livestock	Lack of knowledge about disease and insect pest management. Injudicious use of pesticides Lack of knowledge about Bio- fungicides		Kadvali Kadavidadra Vadpada Khotarampura	OFT, FLD, Training, extension activity
4	Paddy, Sorghum, Cotton, Pulses, Groundnut  Crop production- Livestock	Poor dairy management Large number of non-descript animals with low milk production Poor availability of fodder in hilly area. Poor cultivation of fodder crops High calf mortality due to poor management		Balethi Mandan Ghodbar	OFT, FLD, Training, extension activity
5	Paddy, Sugarcane, Pointed gourd, Okra, vegetables	In hilly area problem of water conservation		Mandroi Bhatgam	OFT, FLD, Training, extension activity

	Crop production-Livestock	In middle canal command area due to excess irrigation problems of water logging and salinity		
6	Sugarcane, Banana, Paddy, Vegetables  Crop production-Horticulture- Livestock	In coastal area salinity problem Imbalance use of fertilizers lack of awareness about use of biofertilizers	 Karjan Choryasi	OFT, FLD, Training, extension activity
7	Paddy, Sugarcane, Banana, Brinjal, Okra, Vegetables  Crop production- Horticulture- Livestock	Lack of knowledge about value addition of locally available materials Lack of knowledge, skills regarding various small scale agricultural based enterprises	 Balda Rajvad Afva	OFT, FLD, Training, extension activity
8	Paddy, Pointed gourd, Sorghum, Vegetables  Crop production-Livestock	Imbalance use of fertilizers lack of awareness about use of bio- fertilizers	 Bhatha Bhatpor Budia	OFT, FLD, Training, extension activity

<sup>\*</sup> 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
Integrated Nutrient	1					1				2
Management										
Integrated Pest	1									1
Management										
Integrated Disease	1									1
Management										
Varietal Evaluation	1				1					2
Total	1					2				6

#### B. Achievements on technologies Assessed

**B.1.** Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient	Mango	Assessment of enrich banana sap for yield and quality of mango	2	5	2
Management	Cotton	Use of KNO3 and Novel OLN to increase production in Cotton	3	10	3
Integrated Pest Management	Paddy	Assessment of fungicide for the management of grain discoloration in paddy	3	5	2
2Integrated Disease Management	Brinjal	Assessment of pheromone trap technology for the management of <i>Leucinodes orbonalis</i> in Brinjal	3	5	2
Varietal Evaluation	Indian Bean	Assessment of different Indian bean varieties	3	5	2
	Green gram	Assessment of different variety of Green gram	3	10	3
Total			17	40	14

#### C1.Results of Technologies Assessed

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

#### **Crop Production**

## OFT 1: Effect of Spraying KNO3 and Novel OLN on yield of Cotton

Treatments: 1) T<sub>1</sub>: No Use of KNO<sub>3</sub> (Farmers practices)

2) T<sub>2</sub>: 3 % KNO<sub>3</sub> Spraying at squaring, flowering and ball formation stage (2010)

3) T<sub>3</sub>: 2 % NOVEL OLN at flowering (2018)

Crop	Variety	No. of farmers	Area (ha)	Yield(q/ha)		% increase Over Check			B : C Ratio			
				KNO <sub>3</sub>	Novel OLN	Check	KNO3	Novel OLN	Check	KNO3	Novel OLN	Check
Kharif	<sup>r</sup> -2020											
Cotton	G.Cot.	10	3 (0.1	Awaited								
	Hy-12(Bt)		ha/Plot)									
Kharif	f-2019											
	G.Cot.H	10	3 (0.1	23.40	23.71	21.50	8.84	10.28		2.68	2.88	2.67
	y-12(Bt)		ha/Plot)									

#### **OFT 2:** Assessment of different varieties of greengram

Treatments: 1)  $T_1$ : GAM-5: AAU, Anand (2015)

2) T<sub>2</sub> : GAM-6: NAU, Navsari (2016)
3) T<sub>3</sub> : Local (Farmers practices)

Crop		No. of farmers	Area (ha)	Yield(q/ha)		Yield(q/ha) % increase Over Check			B :	C Ra	atio	
				<b>T1</b>	<b>T2</b>	<b>T3</b>	<b>T1</b>	<b>T2</b>	<b>T3</b>	<b>T1</b>	<b>T2</b>	<b>T3</b>
Greengram	As per	10	3			,	Yet to b	e cond	ucted			
(Summer-21)	treat.		(0.1ha/ Plot)									
Greengram	As per	10	3	637	720	579	10.01	24.35		2.06	2.34	1.96
(Summer-20)	treat.		(0.1 ha/ Plot)									

## **Crop Protection**

## OFT 3: Assessment of fungicide for the management of grain discoloration in paddy

Technology option	% Infestation	Average yield(q/ha)	BCR
T1: Farmers practices (No use of fungicide)	12 %	35.30	2.99
T2: Three spray of Propiconazole 25 EC 0.025% (10 ml/ 10 lit. water).  First spray - initiation of disease.  Second and third spray after 10 days' interval	3 %	41.10	3.31

## OFT 4: Assessment of pheromone trap technology for the management of Leucinodes orbonalis in Brinjal

Treatments	<ul> <li>T<sub>1</sub>: Farmers practices as injudicious and indiscriminate use of chemical pesticides</li> <li>T<sub>2</sub>: Installation of pheromone traps @ 40 traps/ha</li> <li>T<sub>3</sub>: Removal of infected fruit &amp; installation of pheromone traps @ 12/ha(TNAU)</li> </ul>
Source of Technology	AAU, Anand & TNAU
Season	Rabi, 2019-20
No. of farmers	5
Plot Area	1.0 acre/farmer
Critical Inputs Required	Pheromone Traps & Lures
Cost of Critical Inputs	4000 Rs
Observations	<ol> <li>Per cent infestation of fruit and shoots</li> <li>Yield parameter</li> <li>B:C ratio</li> </ol>

#### **Results:**

Technology option	% Infestation	Average yield (q/ha)	Net Return	BCR
T1: Farmers practices as injudicious and indiscriminate use of chemical pesticides	8.0	165.30	237540	4.96
T2: Installation of pheromone traps @ 40 traps/ha (AAU,Anand)	4.5	185.10	274680	5.70
T3: Remove the infected shoot and fruit + install pheromone traps @ 12/ha (TNAU, TN)	3.0	194.50	291100	5.93

## **Horticulture**:

## **OFT: 5** Assessment of Indian Bean varieties

Treatments	T <sub>1</sub> : Local Desi Variety T <sub>2</sub> : GNIB-22 T <sub>3</sub> : GJIB-2
Source of Technology	NAU, Navsari & JAU, Junagadh
Season	Rabi, 2019-20
No. of farmers	5
Critical Inputs Required	Seed
<b>Cost of Critical Inputs</b>	5000 Rs
Observations	1. Yield parameter 2. B:C ratio
Farmers reactions / Feedback :	Both varieties perform good in South Gujrat condition, but GNIB-22 is better than the GJIB-2

Technology Option	No. of trials	Yield (t/ha)	BCR
T <sub>1</sub> : Local Variety (Farmers practices)	5	26.2	2.82
T <sub>2</sub> : GNIB-21(2014)		38.12	4.65
T <sub>3</sub> : GJIB-11 (2018)		33.40	3.85

OFT: 6 Assessment of enrich banana sap for yield and quality of mango

Treatments	T <sub>1</sub> : Farmers method T <sub>2</sub> : Spraying of 1.5 % banana sap at flowering and pea stage
Source of Technology	NAU, Navsari (2012)
Season	Rabi, 2019-20
No. of farmers	5
Critical Inputs Required	Organic Liquid Nutrient (NOVEL)
<b>Cost of Critical Inputs</b>	3000 Rs
Observations	1. Yield parameter 2. B:C ratio
Farmers reactions / Feedback :	Application of Novel Organic liquid nutrient on mango inflorescence, increases the flower & fruit setting and ultimately the yield

Technology Option	No. of trials	Yield (t/ha)	BCR
T <sub>1</sub> : Farmers method	5	10.50	2.05
T2: Spraying of 1.5 % banana sap at flowering and pea stage	3	13.40	2.78

## 3.3. FRONTLINE DEMONSTRATION

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

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

C	Crop/		Taskuslasv	Details of popularization	Horizontal	spread of tech	nology
Sr. No	Enterprise	Thematic Area*	Technology demonstrated	methods suggested to the Extension system	No. of villages	No. of farmers	Area in ha
Cereal	crops		·		·	•	·
1	Paddy (GNRH-2)	ICM	New variety	FLDs	7	13	5
2	Paddy (GR-17-Sardar)	ICM	New variety	FLDs	1	10	5
3	Paddy (GNR – 6)	ICM	New variety	FLDs	2	10	5
4	Paddy (GNR – 7)	ICM	New variety	FLDs	1	10	5
5	Paddy (GR–16 Tapi)	ICM	New variety	FLDs	1	5	5
6	Sorghum (GNJ-1)	ICM	New variety	FLDs	5	15	5
7	Paddy	IPDM	-	FLDs		10	4
Oilseed	and Pulses crops				•	•	•
8	Pigeonpea (GNP-2)	ICM	New variety	FLDs	4	6	3
9	Pigeonpea (GT-104)	ICM	New variety	FLDs	1	5	2.5
10	Pigeonpea (GT-105)	ICM	New variety	FLDs	1	5	2.5
11	Black gram (GU-3)	ICM	New variety	FLDs	2	1	0.4
12	Soybean (NRC-37)	ICM	New variety	FLDs	2	13	6

Fiber c	rops						
13	Cotton	ICM	New variety	FLDs	1	12	5
	(G cot- Hy-12 Bt)						
Rabi-20	)-21				· ·		
14	Sorghum	ICM	New variety	FLDs	-	13	5
	(Phule Raveti)						
Summe	er-21				·		
15	Greengram	ICM	New variety	FLDs	-	12	5
	(GAM-6)						
Horticu	ilture crops					·	
16	Banana	INM	Biofertilizers and	FLDs	1	10	4
		IINIVI	OLF novel				
17	Brinjal	INM	Biofertilizers and	FLDs	1	10	4
		IINIVI	OLF novel				
18	Pointed gourd	INM	Biofertilizers and	FLDs	1	10	4
		IINIVI	OLF novel				
19	Okra	INM	Biofertilizers and	FLDs	1	10	4
			OLF novel				
20	Little gourd	ICM	New Variety	FLDs	1	10	0.5
21	Elephant gourd	ICM	New Variety	FLDs	1	5	1
22	Indian bean	ICM	New Variety	FLDs	1	10	4
23	Sweet potato	ICM	New Variety	FLDs	1	5	1
24	Banana	IPDM	IPDM	FLDs		10	4
25	Pointed Gourd	IPDM	IPDM	FLDs		10	4
26	Brinjal	IPDM	IPDM	FLDs		10	4
27	Okra	IPDM	IPDM	FLDs		10	4
Home S	Science						
28	Wheel hoe	Drudgery deduction	Labour saving	FLDs	2	20	
29	Kitchen garden kit	Nutrition Management	Seed & Seedling	FLDs	5	100	
30	Rake for collecting	Drudgery deduction	Labour saving	FLDs	10	100	
	garbage/ harvesting						
FLDs o	f Other Agency						
	roduction						

CFLD	(NMOOP)						
1	Soybean	ICM	New variety	FLDs	4	50	20
	(KDS-344)						
CFLD	(NFSM)			•	·		
2	Gram	ICM	New variety +	FLDs	-	75	30
	(GG-5)		ST+INM				
CFLD	(NMOOP)						
3	Sesame	New Variety+ ST+INM+IPDM	GT-5	FLDs	-	25	10
4	Groundnut	ICM	GG-34	FLDs	_	25	10
	(NFSM)	101/1	00 21	T E D S		23	10
5	Green gram	New Variety+	GAM-6	FLDs	_	75	30
	gruin	ST+INM+IPDM	GI II. I	1 22 3		, .	
CFLD	(NFSM & NMOOP):2					l	
6	Sesame	New Variety+	GT-4	FLDs	3	25	10
		ST+INM+IPM					
7	Groundnut	New Variety+	TG37A	FLDs	3	25	10
		ST+INM					
8	Greengram	ICM	New variety+	FLDs	10	75	30
	(GAM-6)		ST+INM+IPDM				
TSP – I	[CAR (Mega Seed)						
1	Gram (GG-5)	ICM	Seed	FLDs	1	15	2
Other I		search Station-Dhamrod				<del>,</del>	
1	Sorghum fodder	Improved variety	PC-23	FLDs	5	25	4
Adapti	ve Trials	<u></u>	T			<del>,</del>	
1	Paddy	ICM+INM+IPDM	New variety	FLDs	10	70	28
	GR-17-Sardar						
2	Sorghum	ICM	New variety	FLDs	1	04	10
	(GNJ-1)						
3	Pigeonpea	ICM	New variety	FLDs	1	10	04
	(GT-104)						
4	Soybean	ICM	New variety	FLDs	1	04	1.6
	(NRC-37)		1			_	
5	Paddy	IPDM	IPDM	FLDs		30	12

6	Banana	INM	Cone Feeding	FLDs	1	10	4
7	Pointed Gourd	ICM	GNPG-1	FLDs	1	05	
8	Drum stick	ICM	PKM-1	FLDs	7	150	
9	Tindola	ICM	GNLG-1	FLDs	1	10	
10	Indian bean	ICM	GNIB-22	FLDs	5	12	
11	Banana	IPDM	IPDM	FLDs		30	12
12	Chickpea (GG-5)	ICM+ST+INM+IPM	New variety	FLDs		30	12
13	Kitchen garden kit	Nutritional	Seeds & Seedlings	FLDs	5	100	
	Kitchen garden kit	Management					
14	Brinjal	INM	Novel Plus	FLDs	2	30	12
15	Okra	INM	Novel Plus	FLDs	2	30	12
16	Brinjal		Hybrid	FLDs	1	20	
17	Cluster bean	INM	Novel Plus	FLDs	2	30	12
18	Brinjal	IPDM	IPDM	FLDs		30	12
19	Okra	IPDM	IPDM	FLDs		030	12

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.)

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in
					Proposed	Actual	SC/ST	Others	Total	achievement
KVK:	2020-21									
Kharif	r-20									
Cereal	l crops									
1	Paddy	ICM	New variety	Kharif -20	5	5	13	0	13	
	(GNRH-2)									
2	Paddy	ICM	New variety	Kharif -20	5	5	10	0	10	
	(GR-17-Sardar)									
3	Paddy	ICM	New variety	Kharif -20	5	5	10	0	10	
	(GNR - 6)									
4	Paddy	ICM	New variety	Kharif -20	5	5	10	0	10	
	(GNR – 7)									
5	Paddy	ICM	New variety	Kharif -20	5	2	5	0	5	Insufficient

	(GR–16 Tapi)									Seed availability
6	Sorghum (GNJ-1)	ICM	New variety	Kharif -20	5	6	15	0	15	
7	Paddy	IPDM	-	Kharif -20	4	4	10	-	10	
Oilsee	d and Pulses crop	OS								
8	Pigeonpea (GNP-2)	ICM	New variety	Kharif -20	2	3	6	0	6	
9	Pigeonpea (GT-104)	ICM	New variety	Kharif -20	2	2.5	5	0	5	
10	Pigeonpea (GT-105)	ICM	New variety	Kharif -20	2	2.5	5	0	5	
11	Black gram (GU-3)	ICM	New variety	Kharif -20	2	0.4	1	0	1	Insufficient Seed availability
12	Soybean (NRC-37)	ICM	New variety	Kharif -20	5	6	13	0	13	
Fiber	crops									
13	Cotton (G cot- Hy-12 Bt)	ICM	New variety	Kharif -20	5	5	12	0	12	
Rabi-2	-7				<u> </u>					l
14	Sorghum (Phule Raveti)	ICM	New variety	Rabi-20-21	5	5	13	0	13	
Summ	er-21		<u>.</u>		•					
15	Greengram (GAM-6)	ICM	New variety	Summer-21	5	5	12	0	12	
Hortic	culture crops		<u>.</u>							
16	Banana	INM	Biofertilizers and OLF novel	Kharif-20	4	4	0	10	10	
17	Brinjal	INM	Biofertilizers and OLF novel	Rabi – 20	4	4	0	10	10	
18	Pointed gourd	INM	Biofertilizers and OLF novel	Kharif-20	4	4	0	10	10	

19	Okra	INM	Biofertilizers and OLF novel	Kharif-20	4	4	10	0	10	
20	Little gourd	ICM	New Variety	Kharif-20	0.5	0.5	10	0	10	
	Elephant	ICM	New Variety	Summer-21	1	1	5	0	5	
21	gourd	ICIVI	New variety	Summer-21	1	1	3	U	3	
22	Indian bean	ICM	New Variety	Kharif-20	4	4	10	0	10	
23		ICM	New Variety	Rabi-20	1	1	5	0	5	
23	Sweet potato		IPDM			1	0	10	10	
	Banana	IPDM		Kharif-20	4	4			l l	
25	Pointed Gourd	IPDM	IPDM	Rabi-20	4	4	10	0	10	
26	Brinjal	IPDM	IPDM	Rabi-20	4	4	10	0	10	
27	Okra	IPDM	IPDM	Rabi-20	4	4	10	0	10	
	Science									
28	Wheel hoe	Drudgery deduction	Labour saving	Rabi-20			20	0	20	
29	Kitchen	Nutrition Management	Seed & Seedling	Rabi-20			100	0	100	
	garden kit	Nutrition Management								
30	Rake for	Drudgery deduction	Labour saving	Rabi-20			100	0	100	
	collecting									
	garbage/									
	harvesting									
				TOTAL	100.5	99.9	430	40	470	
FLDs	of Other Agency	: 2020-21								
Crop r	oroduction :									
	(NMOOP)									
1	Soybean	ICM	New variety	Kharif-20	20	20	50	0	50	
	(KDS-344)			J						
CFLD	(NFSM)		I				I			
2	Gram	ICM	New variety +	Rabi-20-21	30	30	75	0	75	
	(GG-5)		ST+INM							
CFLD	(NMOOP)	I	1							
3	Sesame	ICM	New variety+	Summer-21	10	10	25	0	25	
	(GT-5)	101/1	ST+INM+INM	SwiiiiiCi 21	10	10	23	3	23	
4	Groundnut	ICM	New variety+	Summer- 21	10	10	25	0	25	
+	(GG-34)	ICIVI	ST+INM	Summer- 21	10	10	23	0	23	
	(00-34)		DI LII AIAI							

CFLD	(NFSM)									
5	` '	ICM	New variety+ ST+INM+IPDM	Summer- 21	30	30	75	0	75	
CFLD	(NFSM & NMO	OP): 2019-20								
6	Sesame (GT-5)	ICM	New variety+ ST+INM+IPDM	Summer- 20	10	10	25	0	25	
7	Groundnut (TG-37A)	ICM	New variety+ ST+INM	Summer- 20	10	10	25	0	25	
8	Greengram (GAM-6)	ICM	New variety+ ST+INM+IPDM	Summer- 20	30	30	75	0	75	
TSP –	ICAR (Mega Sec	ed)				•	•	•	•	
1	Gram (GG-5)	ICM	Seed	<i>Rabi</i> – 20	2	2	15	0	15	
Other	FLDs by Sorghu	m Research Station-Dh	namrod Surat							
1	Sorghum fodder	Improved variety	PC-23	Kharif-20	4	4	25	0	25	
				TOTAL	156	156	415	0	415	
Adapt	ive Trials					•	•	•	•	
Kharif	r- 2020									
1	Paddy GR-17-Sardar	ICM+INM+IPDM	New variety	Kharif-20	25	28	70	0	70	
2	Sorghum (GNJ-1)	ICM	New variety	Kharif-20	10	10	04	0	04	
3	Pigeonpea (GT-104)	ICM	New variety	Kharif-20	04	04	10	0	10	
4	Soybean (NRC-37)	ICM	New variety	Kharif-20	1.6	1.6	04	0	04	
5	Paddy	IPDM	IPDM	Kharif-20	12	12	30	0	30	
6	Banana	INM	Cone Feeding	Kharif -20	4	4	10	0	10	
7	Pointed Gourd	ICM	GNPG-1	Kharif -20			05	0	05	
8	Drum stick	ICM	PKM-1	Kharif -20			100	0	100	
9	Tindola	ICM	GNLG-1	Kharif -20			10	0	10	
10	Indian bean	ICM	GNIB-22	Kharif-20			12	0	12	
11	Banana	IPDM	IPDM	Kharif -20	12	12	30	0	30	

Rabi-	2020-21									
12	Chickpea	ICM+ST+INM+IPM	New variety	Rabi-20	12	12	30		30	
	( GG-5 )									
13	Kitchen	Nutritional	Seeds &	Rabi-20			100	0	100	
	garden kit	Management	Seedlings							
14	Brinjal	INM	Novel Plus	Rabi-20	12	12	30	0	30	
15	Okra	INM	Novel Plus	Rabi-20	12	12	30	0	30	
16	Brinjal		Hybrid	Rabi-20			20	0	20	
17	Cluster bean	INM	Novel Plus	Rabi-20	12	12	30	0	30	
18	Brinjal	IPDM	IPDM	Rabi-20	12	12	30	0	30	
19	Okra	IPDM	IPDM	Rabi-20	12	12	30	0	030	
		140.6	143.6	563	0	563				
	Grand Total 401.1 403.5 1418 40 1458									

**Details of farming situation** 

Crop	eason	rming uation rrigated)	il type	Status of soil			ous crop	ing date	vest date	asonal all (mm)	of rainy days
	Š	Fa sit (RF/I	Soil	N	P	K	Previ	Sow	Harv	Se	No.
Paddy	Kharif	Irrigated	Medium black	Low	Medium	High	Green	10-03-2021 to 15-03-2021	01-06-2021 to 01-06-2021	1937.00	70

## Technical Feedback on the demonstrated technologies

S.	Crop	Technology demonstrated	Feed back
N. 1	Paddy	GNRH -2	1.Medium slender grain rice
1	1 addy	GIVICIT -2	2.It is moderately resistant against bacterial leaf blight, leaf
			blast, grain discoloration and sheath rot.
			3. Tolerant to insect pest like BPH, WBPH, leaf folder and
			stem borer.
			4 Suitable for rice growing areas of South Gujarat
2	Paddy	GR -17(Sardar)	1. Early maturing, Long bold grain
			2.Moderately resistant against bacterial leaf blight, leaf blast,
			grain discoloration, sheath rot, WBPH and leaf folder
			3. Suitable for transplanted rice growing areas.
3	Paddy	GNR -6	1.Suitable for rainfed transplanted condition
			2. With respect to pest and diseases, it was found superior to
			other cultivated varieties.
4	Paddy	GNR – 7	1.It has short slender grain, high productive tillers and number
			of grains per panicle with good quality characters.
			2.It is moderately resistant against bacterial leaf blight, grain discoloration and sheath rot.
			3.It showed tolerant to pest like BPH and moderate resistance
			against stem borer, leaf folder and sheath mite.
5	Paddy	GR – 16(Tapi)	1.Early maturing upland rice variety
	ruddy	or ro(rupr)	2.Long bold variety with good grain quality,
			3. Moderately resistant reaction against leaf blast and insect
			pest like stem borer and sheath mite. Suitable for upland
			rice growing areas.
6	Sorghum	GNJ-1	1.High yielding
			2.Less incidence of smut, shoot borer and grain mould
7	Black gram	GU-3	1.Late maturing in 90-95 days.
			2. Bunch type with less hairs. Resistant to YMV.
			3.Seeds are shining so good market value
8	Soybean	NRC-37	1.Moderate yield 2.Early maturing
	G 1	WDC 244	3. Moderately Resistant to Pest & disease
9	Soybean	KDS-344	1.Non-Shattering.
			2. Moderately Resistant to smut, YMV, Pod borer & leaf
			eating caterpillar.  3. Seeds are medium size & light yellow colour.
10	Green gram	GAM-6	1.Moderate Yield
10	Green grain	OAIVI-0	2.Moderately Resistance to YMD
11	Sesame	GT-5	1.Moderate yield
		· <del></del>	2. Moderately Resistant to Helicoverpa
12	Groundnut	TG-37A	1.Tolent to collar rot, rust and late leaf spot
			2. Suitable for summer cultivation
13	Brinjal	INM	1. Increase in yield and quality of fruit
			2. Decrease use of chemical fertilizers
14	Banana	INM	1. Increase bunch weight and quality
15	Parvar	INM	1. Increase in yield and quality of fruits
			2. Increase fruit setting ratio
16	Okra	INM	1. Increase the production
			2. Reduce the use of chemical fertilizers

17	Wheel Hoe	Drudgery	Reduced the labour cost and Time saving
		reduction	2. Increase the work efficiency
18	Paddy	IPDM	<ol> <li>Increase in yield by decreasing infestation of pest at earlier stages in field.</li> <li>Pheromone trap helps farmer to monitor pest in field.</li> <li>Low intensity of BLB and other diseases.</li> <li>Low incidence of grain discoloration</li> </ol>
19	Banana	IPDM	<ol> <li>Less incidence of wilt</li> <li>Less infestation of weevil in the field.</li> </ol>
20	Brinjal	IPDM	<ol> <li>Less incidence of wilt and other diseases</li> <li>Less infestation of Brinjal fruit and shoot borer and sucking pest</li> <li>Reduce the cost of cultivation by decreasing the use of pesticide</li> </ol>
21	Parvar	IPDM	<ol> <li>Less incidence of wilt and nematodes.</li> <li>Decrease pollination problem due to awareness regarding botanicals in place of chemical pesticides among farmers.</li> </ol>
22	Mango	IPM	<ol> <li>Less infestation of fruitfly</li> <li>Increase awareness among farmers about fruitfly infestation</li> <li>Good keeping quality during storage</li> </ol>
23	Mushroom	-	1. Easy to produce, but tough to do marketing

Farmers' reactions on specific technologies

S. No	Feed Back
1	Huge damage of pig/wild boar in agricultural crops in village of Masma, Mandroi, Asnad,
	Sarsana, Sandhier, Bharundi, Kareli, Madhar etc.
2	The problem of pointed gourd vine borer and nematodes are increasing day by day in Mandvi and
	Mahuva block of Surat district. Effective IPM module should be developing.
3	IPDM module for the management of Banana pseudo stem weevil and wilt should be developed.
4	Compatibility study on use of Novel fertilizer with other organic or chemical should be done to
	cut down the cost of cultivation.

**Extension and Training activities under FLD** 

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	4	28-01-2020, 30-	131	Lindiya (Mangrol),
			01-2020, 07-09-		Uteva (Mandvi),
			2020, 28-09-		Saddapani
			2020		(Umarpada),
					Amarkui (mangrol)
2	Farmers Training	60	Jan-20-Des-	2479	
			31,2020		
3	Media coverage	14			
4	Training for	7	28-29/02 2020,	289	
	extension		02-03/03/ 2020,		
	functionaries		09/06/2020, 13-		
			14/10/2020, 10-		
			11/11/2020		

C. Performance of Frontline Demonstrations Frontline demonstrations on Oilseed crops

	Thematic	technology	<b>T</b> 7 • 4	No. of	Area		Yie	ld (q/ha)		% T		mics of o	demonsti /ha)	ration	E	conomics (Rs.)		.k
Crop	demonstrated	Variety	Farme	(ha)		Dem	10	Chaalt	Increase	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR	
				rs		High	Low	Average	Check	in yield	Cost	Return	Return	( <b>R</b> / <b>C</b> )	Cost	Return	Return	( <b>R</b> / <b>C</b> )
Soyabean	ICM	New Variety	NRC-37	13	5	13.85	8.60	10.10	8.50	18.80	25560	40400	14840	1.6	24960	34000	9040	1.40

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

**Frontline Demonstration on Pulse crops** 

Crop	Themat	Technology	Variety	No. of	Area		Yielo	d (q/ha)		% Ingresse		mics of d (Rs./		ation	Eo	conomics (Rs./		k
Crop	ic Area	demonstrated	variety	Farmers	(ha)		Demo	)	Check	in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average	CHECK	III yiciu	Cost	Return	Return	( <b>R</b> / <b>C</b> )	Cost	Return	Return	( <b>R</b> / <b>C</b> )
Pigeonpea	ICM	New variety	GNP-2	6	3	16.44	11.8	14.10	11.90	18.50	25100	67680	42580	2.7	23200	57120	33920	2.5
	ICM	New variety	GT-104	5	2.5	21.51	17.76	19.70	16.25	21.2	26210	94560	68350	3.6	24050	78000	53950	3.2
	ICM	New variety	GT-105	5	2.5	20.21	17.63	18.40	16.28	13.00	26210	88320	62110	3.4	24050	78144	54094	3.2
Black gram	ICM	New Variety	GU-3	1	0.4	13.40	8.95	10.20	8.70	17.20	19500	63240	43740	3.2	18000	53940	35940	3.0

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

**FLD on Other crops** 

Category & Crop	Themat ic Area	Name of the	No. of	Are a		Yield (c	η/ha)		% Chan	Otl Paran	her neters	Econ	omics of d (Rs./		tion	Econ	omics of c	heck (Rs./	'ha)
а стор	10 111 04	technolo	Far	(ha)		Demo		Chec	ge in	Dem	Chec	Gross	Gross	Net	ВС	Gross	Gross	Net	ВС
		gy	mers		High	Low	Aver age	k	Yield	0	k	Cost	Return	Return	R (R/ C)	Cost	Return	Return	R (R/ C)
Cereals								•											
Paddy- GNRH-2	ICM	New variety	13	5	61.50	44.40	50.41	42.82	17.7	-	-	29925	80172	50247	2.7	31760	72900	41140	2.3
Paddy- GR-17	ICM	New variety	10	5	56.10	43.25	48.06	42.44	13.20	-	-	29370	87318	57948	3.0	29745	75780	46035	2.5
Paddy- GNR-6	ICM	New variety	10	5	50.25	37.50	41.10	37.01	11.10	-	-	30425	83718	53293	2.8	30425	71820	41395	2.4
Paddy- GNR-7	ICM	New variety	10	5	58.10	41.30	46.38	40.75	13.80	-	-	30030	87100	57070	2.9	30030	77600	47570	2.6

<sup>\*\*</sup> BCR= GROSS RETURN/GROSS COST

<sup>\*\*</sup> BCR= GROSS RETURN/GROSS COST

Paddy- GR-16 Tapi	ICM	New variety	5	2	30.05	19.50	21.25	19.30	10.10	-	-	25700	30745	5045	1.2	25700	28405	2705	1.1
Sorghum GNJ-1	ICM	New variety	15	6	26.00	18.25	21.80	18.05	20.50	-	-	17500	54500	37000	3.1	17100	45125	28025	2.6
Paddy	IPDM	. =	10	4	42.10	32.75	34.45	29.65	16.19	-	-	31300	68900	37600	2.20	29700	59300	29600	1.99
Oilseed and	Pulses cro	ps																	
Pigeonpea- GNP-2	ICM	New variety	6	3	16.44	11.8	14.10	11.90	18.50	-	-	25100	67680	42580	2.7	23200	57120	33920	2.5
Pigeonpea GT-104	ICM	New variety	5	2.5	21.51	17.76	19.70	16.25	21.2	-	-	26210	94560	68350	3.6	24050	78000	53950	3.2
Pigeonpea- GT-105	ICM	New variety	5	2.5	20.21	17.63	18.40	16.28	13.00	-	-	26210	88320	62110	3.4	24050	78144	54094	3.2
Black gram- GU-	ICM	New Variety	1	0.4	13.40	8.95	10.20	8.70	17.20	-	-	19500	63240	43740	3.2	18000	53940	35940	3.0
Soybean- NRC-37	ICM	New variety	13	5	13.85	8.60	10.10	8.50	18.80	-	-	25560	40400	14840	1.6	24960	34000	9040	1.40
Other crops																			
Cotton- G.Cot.Hy- 12 Bt	ICM	New variety	12	5	25.60	18.60	23.10	18.30	26.2	-	-	42430	127050	84620	3.0	40910	100650	59740	2.5
Rabi-2020-2	1	<u>i</u>		<u> </u>			.1	<u> </u>	ii.		<u> </u>			i	i	.1	<u> </u>		
Sorghum- Phule Ravati	ICM	New Variety	13	5								Awaite	d						
Summer-202	21																		
Green gram- GAM-5	ICM	New Variety	12	5								Awaite	d						
Green gram- GAM-6	ICM	New Variety	12	5								Awaite	d						
Horticulture	crops	·																	
Banana	ÎNM	INM	10	4	745.15	585.25	625.1 5	585.15		-	-	105000	437605	332605	4.16	10450 0	409605	305105	3.92
Brinjal	INM	INM	10	4	195.10	155.45	161.2 5	150.45		-	-	55000	195113	140112 .50	3.54	57200	182044 .50	124844 .50	3.18
Pointed Gourd	INM	INM	10	4	188.15	165.45	172.4 5	160.15	7.68	-	-	120000	431125	311125	3.59	11700 0	400375	283375	3.42

Okra	INM	INM	10	4	189.10	153.15	170.2 5	152.12	11.84	-	-	51200	230349	179149	4.49	54200	199450	145250	3.68
Little Gourd- GNLG-1	ICM	New Variety	10	0.5	215.30	184.23	201.1	174.15	15.48	-	-	60000	201300	141300	3.35 5	62000	141300	79300	2.27
Elephant Foot Yam- Gajendra	ICM	New Variety	5	1								Awaite	d						
Indian Bean- GNIB-22	ICM	New Variety	10	4	34.1	28.96	30.31	25.56	18.58	-	_	35000	106085	71085	3.03 1	31500	92016	60516	2.92
Sweet potato-C-71	ICM	New Variety	5	1								Awaite	d						
Brinjal	IPDM	IPDM	10	4	215.15	185.35	195.3 5	165.4 5	18.07	_	-	56600	195350	138750	3.45 1413 428	55700	165450	109750	2.97 0377 02
Pointed Gourd	IPDM	IPDM	10	4	221.45	185.75	171.2 5	145.3 5	17.82	-	-	12750 0	411000	283500	3.22	12150 0	348840	227340	2.87
Mango	IPM	IPM	10	4	91.55	75.65	66.80	65.45	2.06	-	-	43500	146960	103460	3.37	42800	137445	94645	3.21
Banana	IPDM	IPDM	10	4	820.25	750.65	775.2 2	680.6 5	13.89	-	-	11500 0	348849	233849	3.03	11800 0	306292 .5	188292 .5	2.59
Okra	IPDM	IPDM	10	4	195.20	165.45	162.2 5	158.2 2	2.55	-	-	50500	186587 .5	136087 .5	3.69	55800	172730	116930	3.09
TSP – ICAR	(Mega Se	ed)		***************************************	-														
Indian Bean- GNIB-22	ICM	Seed	25	2	35.55	27.45	29.15	26.45	10.21	_	-	35000	102025	67025	2.91	36000	96630	60630	2.68
Fodder Crop	S																		
Sorghum (F)	Fodder crop	Improved Variety - PC 23	25	4	440	300	308.8	302.4	25.93			18000	33200	15200	1.84	16500	28580	12080	1.73

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

**FLD on Livestock: NIL** 

FLD on Fisheries: Nil

**FLD on Other Enterprises: Nil** 

**FLD on Farm Implements and Machinery:** 

Name of the implement	Crop	Technology demonstrat ed	No. of Farm women	A re a (h	Major Parameter	obser	eld vation in hour)	% change in major parameter		oor reducti (man vesting	-h/ha)	days)	(Rs./h	duction a/day) our**	
				a)								I aı ı			
						Demo	Check		Demo	Check	Demo	Check	Demo	Check	
Twin wheel hoe weeder* for weeding	Vegeta bles/ Pulses	Women drudgery reduction	20	_	Field observation (ha/hr) -Labour requirement (Man hours/ha) -Cost of operation	0.012 (0.096h a/day)	0.0084 (0.067h a/day)	42.85	-	-	83	119	1780	2670	
Rake for collecting garbage/ harvesting	Dry matter of crops/ Harves ting/ garbag e	Women drudgery reduction	100	-	-Field observation -Drudgery parameters like physical hazards, muscle stress, fatigue	rs ical Result awaited									

**FLD on Women Empowerment**: NIL

### **FLD** on Other Enterprise: Kitchen Gardening

Category and Crop	8	Name of the technolog	No. of Farm	No. of Units		(Kg)	% chang e in		ther meters		Econor demons (Rs./	tration		Eco	onomics (Rs./		:k
		y	er		Demon	Check	yield	Dem	Check		Gross	Net		Gross		Net	BCR
		demonstr ated			s ration			0		Cost	Retur n	Retur n	( <b>R</b> / <b>C</b>	Cost	Retur n	Retur n	(R/C
Seeds and seedling	Househol d food security by kitchen gardenin g	Kitchen Garden	100	100	89	48	85.42	0	0	585	3115	2550	5.51	370	1680		4.54

# FLD on Demonstration details on crop hybrids: Nil

### **D.** Performance of Cluster Frontline Demonstrations (CFLD)

### **CFLD on Oilseed crops**

Cron	Thematic	Technology	Variote	No. of	Area		Yie	ld (q/ha)		% In anaga			demonst /ha)	ration	E	conomic (Rs.	s of chec /ha)	:k
Crop	Area	demonstrated	Variety	Farme rs	(ha)	High	Dem Low	o Average	Check	Increase in yield	Gross Cost		Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Soyabean	ICM	New									20360	45040	24680	2.21	19150	35600	16450	1.86
-		Variety+ST+I NM+IPDM	KDS-344	50	20	15.80	8.95	11.26	8.90	26.50								
Sesame	ICM	New																
		Variety+ST+I NM+IPDM	GT-5	50	20						1	Awaited						
Groundnut	ICM	New Variety	GG-34	50	20						1	Awaited						
Sesame	ICM	New									20100	41650	21550	2.07	18800	35560	16760	1.89
		Variety+ST+I NM+IPM	GT-4	25	10	6.79	5.10	5.95	5.08	17.12								

Groundnut ICM	New					15 2				41700	76500	34800	1.83	41000	67320	26320	1.64
	Variety+ST+I	TG37A	20	10	18.90	13.3	17.36	15.30	13.45								
	NM					3											

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

\*\* BCR= GROSS RETURN/GROSS COST

**CFLD on Pulse crops** 

Cron	Themat	Technology	Voriety	No. of	Area		Yiel	d (q/ha)		% Inoreses	Econo	omics of o (Rs.	demonsti /ha)	ration	Eo	conomics (Rs./		:k
Crop	ic Area	demonstrated	Variety	Farmers	(ha)	High	Demo	o Average	Check	in yield	Gross Cost	1	Net Return	1	Gross Cost	Gross Return	Net Return	BCR (R/C)
Gram	ICM	New Variety+ST+I NM+IPDM	GG-5	75	30						1	Awaited		•		•		
Green gram	ICM	New Variety+ST+I NM+IPDM	GAM-6	75	30						1	Awaited						
Green gram	ICM	New Variety+ST+I NM+IPM	GAM-6	75	30	8.49	5.87	7.02	5.85	20.0	19500	42120	22620	2.16	18000	35100	17100	1.95

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

\*\* BCR= GROSS RETURN/GROSS COST

# **3.4.** Training Programmes

## Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of					<b>Participants</b>				
	courses		Others			SC/ST			<b>Grand Total</b>	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation										
Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	3	67	22	89	0	0	3	67	22	89
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	3	67	22	89	0	0	3	67	22	89
II Horticulture										
a) Vegetable Crops										
Production of low value and high										
valume crops										
Off-season vegetables										
Nursery raising	2	38	23	61	0	0	0	38	23	61
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (pl specify)										
Total (a)	2	38	23	61	0	0	0	38	23	61

b) Fruits										
Training and Pruning										
Layout and Management of										
Orchards										
Cultivation of Fruit										
Management of young										
plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of										
orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental										
plants										
Propagation techniques of										
Ornamental Plants										
Others (pl specify)										
Total (c)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (d)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										

Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (f)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technol.										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	2	38	23	61	0	0	0	38	23	61
III Soil Health and Fertility										
Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic										
inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
IV Livestock Production and										
Management										
Dairy Management										

Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal										
products										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
V Home Science/Women										
empowerment										
Household food security by										
kitchen gardening and nutrition										
gardening	2	29	54	83	0	0	0	29	54	83
Design and development of	1	0	0	0	48	142	190	48	142	190
low/minimum cost diet	1	U	U	0		172	170		172	170
Designing and development for	1	0	0	0	0	22	22	0	22	22
high nutrient efficiency diet	•	· ·	Ů,				22		22	
Minimization of nutrient loss in										
processing										
Processing and cooking										
Gender mainstreaming through										
SHGs										
Storage loss minimization										
techniques										
Value addition	1	0	0	0	0	22	22	0	22	22
Women empowerment	1	0	0	0	0	38	38	0	38	38
Location specific drudgery										
reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	6	29	54	83	48	224	272	77	278	355

VI Agril. Engineering										
Farm Machinary and its										
maintenance										
Installation and maintenance of										
micro irrigation systems										
Use of Plastics in farming										
practices										
Production of small tools and										
implements										
Repair and maintenance of farm										
machinery and implements										
Small scale processing and value										
addition										
Post Harvest Technology										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protection										
Integrated Pest Management	3	89	37	126	14	0	14	103	37	140
Integrated Disease Management	3	36	33	69	50	17	67	86	50	136
Bio-control of pests and diseases										
Production of bio control agents										
and bio pesticides										
Others (pl specify)										
Total	6	125	70	195	64	17	81	189	87	276
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery										
management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture										
of freshwater prawn										
Breeding and culture of										
ornamental fishes										

Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and										
wax sheets										
Small tools and implements										
Production of livestock feed and										
fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
X Capacity Building and Group										
Dynamics										
Leadership development										
Group dynamics	1	0	0	0	25	14	39	25	14	39
Formation and Management of										
SHGs										
Mobilization of social capital										

Entrepreneurial development of										
farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	1	0	0	0	25	14	39	25	14	39
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	18	259	169	428	137	255	395	396	424	820

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of					<b>Participants</b>				
	courses		Others			SC/ST			<b>Grand Total</b>	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	2	0	0	0	35	6	41	35	6	41
Resource Conservation										
Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Increasing Production and										
Productivity of Crops	3	0	0	0	50	8	58	50	8	58
Soil & water conservation										
Integrated nutrient management	5	0	0	0	90	43	133	90	43	133
Organic farming	3	0	0	0	63	22	85	63	22	85
Production and use of organic										
inputs	3	0	0	0	144	9	153	144	9	153
Production and management										
technology	2	0	0	0	90	7	97	90	7	97
Others (pl specify)										
Total	18	0	0	0	437	89	526	437	89	526
II Horticulture										
a) Vegetable Crops										
Production of low value and										
high valume crops	7	0	0	0	109	12	121	109	12	121
Off-season vegetables	1	20	0	20	0	0	0	20	0	20
Nursery raising	2	26	6	32	13	2	15	39	8	47
Exotic vegetables										
Export potential vegetables										

Grading and standardization										
Protective cultivation	1	0	0	0	6	13	19	6	13	19
Others (pl specify) Intercultural										
operation in vege.										
Total (a)	11	46	6	52	122	27	155	174	33	207
b) Fruits										
Training and Pruning	1	0	0	0	12	4	16	12	4	16
Layout and Management of										
Orchards										
Cultivation of Fruit	2	0	0	0	40	1	41	40	1	41
Management of young										
plants/orchards	1	0	0	0	2	5	7	2	5	7
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of										
orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	4	0	0	0	54	10	64	54	10	64
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental										
plants										
Propagation techniques of										
Ornamental Plants										
Others (pl specify)										
Total (c)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (d)	0	0	0	0	0	0	0	0	0	0

e) Tuber crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (f)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic										
Plants										
Nursery management										
Production and management										
technology										
Post harvest technology and										
value addition										
Others (pl specify)										
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	15	46	6	52	176	37	219	228	43	271
III Soil Health and Fertility										
Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient										
Management										
Production and use of organic										
inputs										
Management of Problematic										
soils										
Micro nutrient deficiency in										
crops							1			

Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
IV Livestock Production and										
Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal										
products										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
V Home Science/Women										
empowerment										
Household food security by	2	0	0	0	0	80	80	0	80	80
kitchen gardening and nutrition										
gardening										
Design and development of	1	0	0	0	0	40	40	0	40	40
Design and development of low/minimum cost diet								_		
Design and development of low/minimum cost diet  Designing and development for	1	0	0	0	0	40	40	0	40	40
Design and development of low/minimum cost diet  Designing and development for high nutrient efficiency diet								_		
Design and development of low/minimum cost diet  Designing and development for high nutrient efficiency diet  Minimization of nutrient loss in								_		
Design and development of low/minimum cost diet  Designing and development for high nutrient efficiency diet  Minimization of nutrient loss in processing								_		
Design and development of low/minimum cost diet  Designing and development for high nutrient efficiency diet  Minimization of nutrient loss in processing  Processing and cooking								_		
Design and development of low/minimum cost diet  Designing and development for high nutrient efficiency diet  Minimization of nutrient loss in processing  Processing and cooking  Gender mainstreaming through	1	0	0	0	0	27	27	0	27	27
Design and development of low/minimum cost diet  Designing and development for high nutrient efficiency diet  Minimization of nutrient loss in processing  Processing and cooking  Gender mainstreaming through SHGs								_		
Design and development of low/minimum cost diet  Designing and development for high nutrient efficiency diet  Minimization of nutrient loss in processing  Processing and cooking  Gender mainstreaming through	1	0	0	0	0	27	27	0	27	27

Value addition	2	0	27	27	0	33	33	0	60	60
Women empowerment	1	0	0	0	0	15	15	0	15	15
Location specific drudgery										
reduction technologies	5	0	0	0	0	128	128	0	128	128
Rural Crafts										
Women and child care	1	0	0	0	0	38	38	0	38	38
Others (Sorghum fodder)	1	0	0	0	25	0	25	25	0	25
Total	15	0	27	27	25	386	411	25	413	438
VI Agril. Engineering										
Farm Machinary and its										
maintenance										
Installation and maintenance of										
micro irrigation systems										
Use of Plastics in farming										
practices										
Production of small tools and										
implements										
Repair and maintenance of farm										
machinery and implements										
Small scale processing and										
value addition										
Post Harvest Technology										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protection										
Integrated Pest Management	3	12	20	32	55	12	67	67	32	99
Integrated Disease Management	3	0	0	0	44	11	55	44	11	55
Bio-control of pests and										
diseases										
Production of bio control										
agents and bio pesticides										
Others (pl specify)										
Total	6	12	20	32	99	23	122	111	43	154
VIII Fisheries										

Integrated fish farming										
Carp breeding and hatchery										
management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and										
culture of freshwater prawn										
Breeding and culture of										
ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value										
addition										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets	0	0	0	0	0		0	0	0	
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements	0	0	0	0	0			0	0	
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and		0	0	0	0			0		
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements		0	0	0	0			0		

Mushroom Production										
Apiculture										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
X Capacity Building and										
<b>Group Dynamics</b>										
Leadership development	2	0	0	0	24	5	29	24	5	29
Group dynamics	3	46	41	87	69	5	74	115	46	161
Formation and Management of										
SHGs	3	56	10	66	22	1	23	78	11	89
Mobilization of social capital										
Entrepreneurial development of										
farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	8	102	51	153	115	11	126	217	62	279
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
Total	62	160	104	264	852	546	1404	1018	650	1668

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

Thematic area	No. of					<b>Participants</b>				
	courses		Others			SC/ST			<b>Grand Total</b>	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	2	0	0	0	35	6	41	35	6	41
Resource Conservation										
Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	3	67	22	89	0	0	3	67	22	89
Increasing Production and										
Productivity of Crops	3	0	0	0	50	8	58	50	8	58
Soil & water conservatioin										
Integrated nutrient management	5	0	0	0	90	43	133	90	43	133
Organic farming	3	0	0	0	63	22	85	63	22	85
Production and use of organic										
inputs	3	0	0	0	144	9	153	144	9	153
Production and management										
technology	2	0	0	0	90	7	97	90	7	97
Others (pl specify)										
Total	21	67	22	89	472	95	567	504	111	615
II Horticulture										
a) Vegetable Crops										
Production of low value and										
high valume crops	7	0	0	0	109	12	121	109	12	121
Off-season vegetables	1	20	0	20	0	0	0	20	0	20
Nursery raising	4	64	29	93	13	2	15	77	31	108
Exotic vegetables										
Export potential vegetables										

Grading and standardization										
Protective cultivation	1	0	0	0	6	13	19	6	13	19
Others (pl specify) Intercultural										
operation in vege.										
Total (a)	13	84	29	113	128	27	155	212	56	268
b) Fruits										
Training and Pruning	1	0	0	0	12	4	16	12	4	16
Layout and Management of										
Orchards										
Cultivation of Fruit	2	0	0	0	40	1	41	40	1	41
Management of young										
plants/orchards	1	0	0	0	2	5	7	2	5	7
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of										
orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	4	0	0	0	54	10	64	54	10	64
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental										
plants										
Propagation techniques of										
Ornamental Plants										
Others (pl specify)										
Total (c)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (d)	0	0	0	0	0	0	0	0	0	0

e) Tuber crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (f)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic										
Plants										
Nursery management										
Production and management										
technology										
Post harvest technology and										
value addition										
Others (pl specify)										
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	17	84	29	113	182	37	219	266	66	332
III Soil Health and Fertility										
Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient										
Management										
Production and use of organic										
inputs										
Management of Problematic										
soils										
Micro nutrient deficiency in										
crops										

Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
IV Livestock Production and										
Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal										
products										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
V Home Science/Women										
empowerment										
Household food security by										
kitchen gardening and nutrition										
gardening	4	29	54	83	0	80	80	29	134	163
Design and development of	2	0	0	0	48	182	230	48	182	230
low/minimum cost diet	2	· ·	Ŭ	U	10	102	230	10	102	250
Designing and development for		_	_	_						
high nutrient efficiency diet	2	0	0	0	0	49	49	0	49	49
Minimization of nutrient loss in										
processing										
Processing and cooking										
Gender mainstreaming through										
SHGs	1	0	0	0	0	25	25	0	25	25
Storage loss minimization										
techniques										

Value addition	3	0	27	27	0	55	55	0	82	82
Women empowerment	2	0	0	0	0	53	53	0	53	53
Location specific drudgery										
reduction technologies	5	0	0	0	0	128	128	0	128	128
Rural Crafts										
Women and child care	1	0	0	0	0	38	38	0	38	38
Others (Sorghum fodder)	1	0	0	0	25	0	25	25	0	25
Total	21	29	81	110	73	610	683	102	691	793
VI Agril. Engineering										
Farm Machinary and its										
maintenance										
Installation and maintenance of										
micro irrigation systems										
Use of Plastics in farming										
practices										
Production of small tools and										
implements										
Repair and maintenance of farm										
machinery and implements										
Small scale processing and										
value addition										
Post Harvest Technology										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protection										
Integrated Pest Management	6	101	57	158	69	12	81	170	69	239
Integrated Disease Management	6	36	33	69	94	28	122	130	61	191
Bio-control of pests and										
diseases										
Production of bio control										
agents and bio pesticides										
Others (pl specify)										
Total	12	137	90	227	163	40	203	300	130	430
VIII Fisheries										

Integrated fish farming										
Carp breeding and hatchery										
management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and										
culture of freshwater prawn										
Breeding and culture of										
ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value										
addition										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of livestock feed and	0	0	0	0	0	0	0	0	0	
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of livestock feed and fodder	0	0		0		0	0	0	0	
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of livestock feed and fodder Production of Fish feed				0		0	0	0		
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of livestock feed and fodder				0		0	0	0		
IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of livestock feed and fodder Production of Fish feed						0				

Total	0	0	0	0	0	0	0	0	0	0
X CapacityBuilding and										
Group Dynamics										
Leadership development	2	0	0	0	24	5	29	24	5	29
Group dynamics	4	46	41	87	94	19	113	140	60	200
Formation and Management of										
SHGs	3	56	10	66	22	1	23	78	11	89
Mobilization of social capital										
Entrepreneurial development of										
farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	9	102	51	153	140	25	165	242	76	318
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	80	419	273	692	1030	807	1837	1414	1074	2488

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

	No. of				No. of	Participan	its			
Area of training	Courses		General			SC/ST		(	Frand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable										
crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										

Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm										
machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal										
products										
Dairying										
Sheep and goat rearing										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing										
Any other- Capacity build-up										
training										
TOTAL	0	0	0	0	0	0	0	0	0	0

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

	No. of	No. of Participants  Capacil SC/ST Crand Tot											
Area of training	Courses		General			SC/ST			Grand Tota	al			
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Nursery Management of													
Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable													
crops													
Commercial fruit production													
Seed production													
Production of organic inputs													
Planting material production													
Vermi-culture													
Mushroom Production													
Bee-keeping													
Sericulture													
Repair and maintenance of farm													
machinery and implements													
Value addition	1	0	0	0	0	29	29	0	29	29			
Small scale processing													
Post Harvest Technology	1	2	13	15	0	0	0	2	13	15			
Tailoring and Stitching													
Rural Crafts													
Production of quality animal													
products													
Dairying													
Sheep and goat rearing													
Quail farming													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Shrimp farming													

Pearl culture										
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing										
Any other- Scientific rearing of calf										
Fodder management in milch										
animals										
TOTAL	2	2	13	15	0	29	29	2	42	44

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

	No. of				No. o	of Particip	ants			
Area of training	Courses		General			SC/ST		(	Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	1	0	0	0	0	29	29	0	29	29
Small scale processing										
Post Harvest Technology	1	0	0	0	2	13	15	2	13	15
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										

Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	2	2	13	15	0	29	29	2	42	44

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

	No. of	No. of Participants										
Area of training	Courses		General		SC/ST			(	Frand Tota	al		
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total		
Productivity enhancement in field crops												
Integrated Pest Management												
Integrated Nutrient management												
Rejuvenation of old orchards												
Protected cultivation technology												
Production and use of organic inputs												
Care and maintenance of farm machinery and implements												
Gender mainstreaming through SHGs												
Formation and Management of SHGs												
Women and Child care												
Low cost and nutrient efficient diet designing												
Group Dynamics and farmers organization												
Information networking among farmers												
Capacity building for ICT application												
Management in farm animals												
Livestock feed and fodder production												
Household food security												
Any other (pl.specify)												
TOTAL	0	0	0	0	0	0	0	0	0	0		

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

	No. of				No.	of Particip	oants			
Area of training	Courses		General			SC/ST		G	Frand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	5	104	15	119	8	3	11	112	18	130
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	1	0	0	0	0	51	51	0	51	51
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Capacity building for Anganwadi workers	1	0	0	0	0	108	108	0	108	108
Any other (pl.specify)										
TOTAL	7	104	15	119	8	162	170	112	177	289

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

	No. of				No. o	of Partici	pants			
Area of training	Courses		General		SC/ST			Gra		al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	5	104	15	119	8	3	11	112	18	130
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	1	0	0	0	0	51	51	0	51	51
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Capacity building for Anganwadi workers	1	0	0	0	0	108	108	0	108	108
Any other (pl.specify)									·	
TOTAL	7	104	15	119	8	162	170	112	177	289

**Sponsored training programmes** 

Sponsored training programmes	No. of				No. of	f Participa	nts			
Area of training	Courses	General				SC/ST		Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										

Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security	2	0	0	0	0	70	70	0	70	70
Economic empowerment of women	1	0	0	0	0	25	25	0	25	25
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)										
Total	3	0	0	0	0	95	95	0	95	95
GRAND TOTAL	3	0	0	0	0	95	95	0	95	95

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

Details of vocational training program	No. of	<u> </u>			No. of	f Participan	ts			
Area of training	Courses		General			SC/ST			<b>Grand Total</b>	Ī
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop production and management</b>										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value										
addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-										
pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm										
machinery										

and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery,										
dying etc.										
Agril. para-workers, para-vet										
training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group										
dynamics										
Others (pl. specify)										
Total										
<b>Grand Total</b>	0	0	0	0	0	0	0	0	0	0

**Details of trainings organized under ASCI** 

	No. of Courses		No. of Participants								
Area of training		General		SC/ST			Grand Total				
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
NIL											

# 1.5. Extension Programmes

N. C.	No. of	Beneficiaries					
Nature of Extension Activity	activities	Male	Female	Total			
Kisan Gosthi	4	66	100	166			
Khedut Shibir	2	90	26	116			
Field day	8	207	34	241			
Mahila Shibir	2	0	180	180			
Krishi Mela/Mahotsav participation	1	1581	1588	3169			

SHG Mahila meeting	3	0	41	41
Mahila Meeting	2	0	34	34
Farmers Seminar	3	141	163	304
Film Show	123	1517	1536	3053
Method Demonstration	47	532	522	1054
Meeting attended	24	233	70	303
Special programme	14	1846	2179	4025
Special day celebration	7	296	483	779
Lectures delivered asresource persons	46	5334	4539	9873
Newspaper coverage	14	46420	24130	70550
Advisory Services/ Telephone	66	9550	4208	13758
Whats app and other ICT tools advisory	48	22425	7705	30130
Scientist visitto farmers field	107	155	74	229
Farmers visitto KVK	6	535	239	774
Diagnostic visits	214	547	68	609
Exposure visit	1	20	19	39
Swachchhta related activities	20	269	197	466
Total	762	91764	48135	139893

**Details of other extension programmes** 

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	3
News paper coverage	14
Popular articles	2
Radio Talks	1
TV Talks	1
Total	21

# 3.6 Online activities during year 2020

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webexetc)	Title of Program	No. of Programmes	No. of Participants/ Views
A	Farmers training				
1	Farmers training	Audio Conferencing	Dial-out training on INM & IPM methods in greengram - NMOOP	1	49
2	Farmers training	Audio Conferencing	Dial-out training on INM & IPM methods in Summer groundnut(inclu. scientific cultivation) - NMOOP	1	52
3	Farmers training	Audio Conferencing	Dial-out training on INM & IPM methods inSummer Sesame (inclu.scientific cultivation) - NMOOP	1	52
4	Farmers training	Audio Conferencing	Dial-out training on Scientific Cultivation of Soybean including INM & IPDM approach	1	80
5	Farmers training	Audio Conferencing	Online training on transplanted paddy	1	17
6	Farmers training	Google Duo	Basics of kitchen gardening	1	13
7	Farmers training	Google Duo	Vegetable cultivation on terrace ardening	1	11
8	Farmers training	Zoom	Special Session on Adenium pruning, grafting and flowering	1	87

9	Farmers training	Google Duo	Basics of vegetable cultivation	1	15
10	Farmers training	Google Duo	Basic concepts of nursery raising	1	27
11	Farmers training	Zoom	Kitchen gardening- Home science Students- Vanita Visram	1	98
12	Farmers training	Instagram live	Urban kitchen gardening-	1	35
13	Farmers training	Google Meet	Kitchen garden- ghar agannai kheti	1	67
14	Farmers training	Audio Conferencing	Value Addition In Spices And Condiments	1	22
15	Farmers training	Audio Conferencing	Value Addition In Mango	1	38
16	Farmers training	Audio Conferencing	Preparation And Preservation Of Fruits And Vegetables Power	1	26
17	Farmers training	Live Webinar	Importance Of Kitchen Garden	1	158
18	Farmers training	Google Meet	Importance of Balanced Diet and Kitchen Garden	1	62
19	Farmers training	YouTube live Programme cum Training	5MQF6G]\ DCtJ VG[ T[GF VFWFZE}T :+MTYL SMJL0v!) YL ARFJ	1	190
20	Farmers training	Audio Conferencing	Pest and disease management practices in greengram	1	49
21	Farmers training	Audio Conferencing	Integrated pest and disease management in groundnut	1	52

		Guest lecture	Terrace Garden  Mahilaono Krushi ma Falo	1	52
			of Kitchen Garden And		
		Guest lecture	Importance & Management	1	43
D	Expert lectures		0	0	0
1	Tarmers seminars	1	Total		
<u>C</u>	Farmers seminars Farmers seminars	1			
<u> </u>	F		Total	0	0
	interaction programme				
В	Farmers scientist's	0	0	0	0
			Total	23	1322
			soybean		
			disease management in		
23	Farmers training	Audio Conferencing	Integrated pest and	1	75
			sesame		
			disease management in		
22	Farmers training	Audio Conferencing	Integrated pest and	1	47

### 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	GNR-3		154.00	480480	1232
		GR-17		21.00	65520	168
	Straw			217.75	87100	
			Total	392.75	633100	1300

# **Production of Planting Materials by the KVK**

Стор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vegetable seedlings	Drumstick	PKM-1		3000	60000	150
	Total	PKM-1		3000	60000	150

**Production of Bio-Products: Nil** 

	Name of the bio-product	Quantity		
Bio Products	_	Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers	-	-	-	-
	-	-	-	-
Bio-pesticide	-	-	-	-
	-	-	-	-
Bio-fungicide	-	-	-	-
	-	-	-	-
Bio Agents	-	-	-	-
	-	-	-	-
Others	-	-	-	-
Tota	0	0	0	0

### **Production of livestock materials: Nil**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals	-	-	-	-
Cows	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
Others (Pl. specify)	-	-	-	-
Poultry	-	-	-	-
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	-	-	-	-
Japanese Quail	-	-	-	-
Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	-	-	-	-
Others (Pl. specify)	-	-	-	-
Piggery	-	-	-	-
Piglet	-	-	-	-
Others (Pl.specify)	-	-	-	-
Fisheries	-	-	-	-
Indian carp	-	-	-	-
Exotic carp	-	-	-	-
Others (Pl. specify)	-	-	-	-
Total	0	0	0	0

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	Assessment of yield losses due to	Bhanderi, G. R., Patel, R. D., Desai,	Presented in J. Ento. Zool. Studies, <b>8</b> (2):			
	mealybug (Phenacoccus solenopsis	H. R. and Patel, R. K. (2020).	73-79. (NAAS Score: 5.53)			
	Tinsley) infestation in the cotton					
	farmers' field of south Gujarat.					
	Integrated diseases management (IDM)	Sandipan, P. B., Patel R. K., Faldu	Presented in . Cercetari agronomice in			
	modules for the management of cotton	G. O. and Patel, D. M. (2019).	<i>Moldova</i> , <b>52</b> (3(179)): 254-261.			
	diseases in natural condition under					
	south Gujarat region of India					
	Adoption of fruits and vegetable	Bhimani, G. J., Prajapati, M. R. and				
	preservation technology by farm women	Parmar, H. C. (2019).	Presented in <i>Guj. J. Ext. Edu.</i> , <b>30</b> (1): 23-26(			
	of Surat district.		(NAAS Score: 3.86)			
Technical reports	AGRESCO, ZREAC, SAC, AAP, APR,		Periodically			
	MPR, QPR					
News letters						
Technical bulletins						
Popular articles	Cassava bioenergy crop.	Panchal Bhakti B. and Rathod J.H. (2020).	Agriculture & food e-newsletter, <b>2</b> (10): 129-130.			
	Regulation of flowering in vegetable	Panchal Bhakti B. (2020).	Agriculture & food e-newsletter, <b>2</b> (11):			
	crops under protected cultivation.		137-140.			
Extension literature	Trivedi, S. J., Davda, B. K., Bhimani, G. J. and Rathod, J. H. 2020). Juvar ni sudharel vaignanik kheti padhhati. NAU, Pub.					
	No. 149/2019-20.					
	Bhimani, G. J., Trivedi, S. J. and Rathod, J. H. (2020). Ahar ma juvar ni agatyata ane tema mulya vardhan. NAU, Pub. No.					
	150/2019-20.					
	Trivedi, S. J., Patel, R. K., Bhimani, G.	J. and Rathod, J. H. (2020). Soybean re	ii vaignanik kheti padhhati. NAU, Pub. No.			
	24/2020-21.					

### C. Details of Electronic Media Produced

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

### D. Details of Social Media Platforms Created / Used

Sr. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel	1	5
2	Facebook page/ Account	1	359
3	Mobile Apps	0	-
4	WhatsApp groups	0	-
5	Twitter Account	1	25
6	Any other (Pl. Specify)	-	-

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

# Horticulture Success Story- 1

1	Name of Farmer	Shailesh	bhai R	anchhodb	hai Sai	lor				
2	Father's	Ranchho	dhhai	Sailor						
	Name	Kancini	Juonai	Sanoi						
3	Date and	29/06/19	966 R	ander, Sura	at(Guia	rat)				
5	Place of birth	27/00/17	700, IX	inder, bur	at(Ouja	irat)				
4	Postal	A-2 Rai	nchhod	Park Soci	iety N	ear Sai Puis	an Ar	nartment Ia	hanoiranura -	Olpad Road
' '	Address		A-2, Ranchhod Park Society, Near Sai Pujan Apartment, Jahangirapura - Olpad Road, Surat, Gujarat-395005							Olpad Road,
5	Mobile No.	98791 2		373003						
6	Email Id	707712	1203							
7	Educational	SSC fail								
'	qualification	BBC full								
8	Total land	10 ha								
9	Area under		Field C	rops: 8.40	ha					
	Crop	` /		-		0 ha (Green	hous	e)		
10	New								ears. After the	nat, he planted
	technologies	the orch	id and	Strawberry	y plants	s in two lay	er sys	stem. In firs	t layer, planti	ng of orchid in
	developed	coconut	husk p	out on GI s	tand at	the height	of 2.	5-3.0 feet an	nd 1 meter wi	dth. In second
										10-20 cm turf)
			-		_	_			-	ant. Fertilizers
				nanually in	orchic	d and through	gh dr	ip irrigation	in strawberry	<b>y.</b>
11	Activities	Crop: I			1		ı			
	wise income,	Year	r	Area (ha)		Γotal			Total cost	Net profit
	cost benefit				produ	ction (kg)		(Rs.)	( <b>Rs.</b> )	(Rs.)
	ratio, gross	2015-1	6	2.0		10,445		1,56,670	70,500	86,170
	and net	2016-1		2.5		13,755		2,20,080	90,800	1,29,280
	income year wise for	2017-1		2.5		14,365		2,22,660	92,600	1,30,060
	previous five	2018-1		2.0		11,150		1,84,000	78,400	1,05,600
	years.	2019-2		2.5		14,280		2,28,480	95,800	1,32,680
	years.			crops: Ger	bera	11,200		2,20,100	72,000	1,52,555
		Year	Area	<del> </del>		Production	n:	Total	Total	Net
			(ha)	no. 0		no. of		income	cost (Rs.)	profit
			, ,	flowers		flowers/ye	ear	( <b>Rs.</b> )		(Rs.)
		2015-	0.80		,000	25,20,		56,70,000	32,76,000	23,94,000
		16								
		2016-	0.80	7	,305	26,30,	000	55,23,000	36,82,000	18,41,000
		17								
		Horticu	lture o	crops: Orc	hid					
		Year	A	rea 7	Γotal	Producti		Total	Total	Net profit
			(		o. of	no. of		income	cost	( <b>Rs.</b> )
					lants	spikes/y		(Rs.)	(Rs.)	
		2017-1			85,000		,000	8,20,000		5,71,000
		2019-2	0(	0.80	85 <u>,</u> 000	2,48,	,500	29,82,000	9,54,000	20,28,000
		2017-1			85,000			29,82,000		20,28,000

- 12 What improvement have been effected for productivity, profitability and sustainability enhancement.
- The flowers of orchid have high demand in local market.
- Application of fertilizers and irrigation gives more spike production. In one year, one spikes from one plant which has high demand at marriage time, festivals, which take high profitability than other crop.

# Any spread effect on Fellow Farmers

- The cost for greenhouse development of orchid in one acre of area is around Rs. 30-40 lakhs. The total cost for farming of orchid is around Rs. 60 lakhs. So it is very difficult to adopt this technology for common farmer.
- If farmers get subsidy of Rs. 38-40 lakhs from state government/horticulture department then and then he can start this farming.
- Mr. Kaushikbhai Sailor also started the same business. He planted orchids in 1 acre green house. Mr. Subhas Patel, Village Jothan, Tal- Olpad planted Gerbera in 2 acres of Green house.
- Both Mr. Girish Patel &Mr. Ashok Patel started 1 acre greenhouse each at village Varoli Taluka Olpad. They grow capsicum and got good income.
- Mr. GirishGohil started greenhouse (1 acre)with gerbera and now he shifted to orchid (3 acres)
- Mr. Gomansinh Patel from village Kudadra Tal- Hansot started 1 acre greenhouse with orchid and going to start another 1 acre greenhouse.
- Mr. Haribhai Patel from village Kudadra Tal- Hansot started 1 acre greenhouse with orchid and going to start another 1 acre greenhouse.
- Mr. Ishvarsinh Patel going to start orchid in 2 acres of land.
- Thus eight farmers started greenhouse cultivation with gerbera and orchid as single crop.

#### **Other Activities:**

### Innovative interventions inducted in the system of production and management and effects:

In NVPH system, he has planted the orchid and strawberry plants in two layer system. First layer system, planting of orchid on coconut husk put on GI stand at the height of 2.5-3.0 feet and 1 meter width. In second layer, planting of strawberry (Soilless cultivation) in turf technology (40-20 cm turf) with help of GI pipe in hanging condition.

### Extent of publicity of his / her innovations / contributions / success story:

- Interested farmers of different locations and government officers visited the poly house/greenhouse
- A newsletter was published in a leading newspaper –The Times of India
- An article published in "Majjeni Life" in vernacular language- Lokoni demand videshi fulo taraf vadhi : Kaushikbhai Sailor









### **Case Study:**

### Improve nutritional status through terrace gardening:

Before starting concept of the terrace garden, KVK, Surat participated in Horticulture Fair- 2015. In that, it was suggested to arrange terrace garden training especially for the urban people. More than 750 people do the registrations who were interested for the training of terrace garden. To do the management of training MoU made with other NGO/Institute and it named as SAUAR (Surat Alliance for Urban Agriculture Resilience). Total nine trainings were conducted for the terrace garden and in which 60-70 people participated in each training. Whatsapp group of each training was made. Using this technology, participants can directly contact with concert scientist and solve the problem within short period of time. Participants also share their activities regarding terrace gardening which increase the interest regarding gardening in other participants.

**Back ground information**: In Surat city, mainly urban people do not have own spare space in and around the house. To solve the problem of land, proper utilization of terrace space for gardening. Due to lack of knowledge and proper sources, none of them can properly utilizing the available space. Seeing the interest of people, KVK Surat has started the special training for urban people with objective to popularize and adoption of terrace garden and gets fresh vegetable and increase nutritional status in their daily diet. This also helps to utilize the recycled household waste efficiently for cultivation of crop through composting.

**Intervention:** Krishi Vigyan Kendra, Surat conducted training for terrace garden to increase the awareness as well as to popularize it in Surat city. On terrace garden people grown more than 60 different types of horticultural crops on their terrace and utilize those fresh vegetables for their daily diet and after consumptions they also share their produce with their neighbor.

**Actual output:** From first training, continuous demand came from city people regarding more and more advance trainings related to terrace garden. Number of people in Surat city are start to grow no. of horticultural crops (around 60) on their own terrace and consume fresh organic and nutritional food.

**Actual outcome:** By conducting training to increase awareness/popularizing terrace garden activity, more than 2500 people of urban area are now a day's practicing and app. 1850 people are successfully starting the terrace garden. They can get easily available fresh, organic and nutritious food from their own terrace garden. Better utilization of spare time and space. Improve the health of the families. Most of the gardeners who were using hazardous chemical fertilizers and chemical pesticides are now a day's using biofertilizers, botanicals and biopesticides.

### Case study: 1

Name : Dr. Mohiniben Pankajbhai Gadhiya

Village : Surat

Crop : All types of vegetables Area : On Front Balcony

Mobile no.: 9265229107

Earlier people were not using the balcony space for the cultivation of the daily used vegetable and other ornamental plants. After participation in the training of terrace garden on KVK Surat, She applied this technology on her balcony. Presently, she is growing the vegetables like, brinjal, tomato, okra, chilli, cucurbits, tuber crops yam, suran and other kitchen vegetables. She is also growing the ornamental plants for the beautification of the terrace like, adenium, football lily, rose *etc*. Also sharing the photographs of his activity of the terrace gardening. She is also making kitchen compost from kitchen waste and use in the garden as a fertilizers. Those fresh vegetables used for the daily consumption and take the healthy and organic food.







### Case study: 2

Name : Dr. Rekhaben Nisikant Mistry

Village : Surat

Crop : Vegetables and medicinal plants

Area : On terrace Mobile no.: 9879484515

She uses the space of gallery and terrace for the cultivation of vegetables like, brinjal, tomato, chilly, fenugreek, coriander, garlic, curry leaf. Medicinal plants like, tulsi, mint, aloe vera, lili cha, ardusi, long piper, etc. After the training of terrace garden, she motivated to grow vegetables on home which is healthy, without chemical residue, nutritious and organic. She has also utilized the recycled household waste efficiently for cultivation of crop through composting. Mrs. Rekha is a role model to the other people for taking up the modern technology and cultivation practices in the terrace garden.









### Case study: 3

Name : Mrs. Anupama Himnshu Desai

Village : Surat

Crop : Common vegetables like, brinjal, tomato, chilli, cucumber, gourds and fruit plant

Area : On terrace Mobile no.: 9427111881

Mrs. Anupama earlier was not using the terrace space for the growing of the daily used vegetable. After she was participated in the training of terrace garden at KVK, she applied technology on his terrace. Presently, she is growing the vegetables like, brinjal, tomato, okra, chilly and cucurbits in different container. She is also growing the cucurbits on the trellis and support of the stick. In fruit crops, mainly dragon fruit, cherry, mulberry, guava and star apple are growing on terrace. She also made home based pesticides and apply on plants to manage different diseases and pest as mentioned during training. She is sharing the photographs of his activity of the terrace gardening. Those fresh vegetables used for the daily consumption and take the healthy and organic food.







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

Technology transfer – Novel, Bio-fertilizers and Waste decomposer

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

Sr. No.	Crop/E nterpri	ITK Practiced	Purpose of ITK
	se		
1	Caster	Soak seed with sour butter milk overnight to control the catter piller in	Plant
		caster crop and may be used in other crops too.	Protection
2	Paddy	Removed of tips in Paddy and other seedlings to enhance drought	Agronomy
		tolerance and also sustained to water logging/ flowing condition.	

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

- A. Practicing Farmers
- a) Group discussion
- b) Power point presentation
- c) Method demonstration
- **B. Rural Youth**
- a) Group discussion
- b) Power point presentation
- c) Method demonstration
- C. In-service personnel
- a) Group discussion
- b) Power point presentation
- c) Method demonstration
- 5.2. Indicate the methodology for identifying OFTs/FLDs As per methodology mentioned in table 2.7
- 5.3 Field activities As mentioned in Table No. 2.7 and 3.1 B

### 6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA	Training, Exhibitions, Best ATMA Award
	Participation
Line departments (Horticulture & Agriculture	Training and Shibir
Animal Husbandry	Pasupalan Shibir
NABARD	Trainings, FLD distribution
Ambuja Cement Foundation	Trainings, Shibir, Special Day Celebration
Forest	Trainings, Shibir
Reliance foundation	Trainings, Shibir

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

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

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

### 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	10	10		
02	Research projects				
03	Training programmes	14	14		
04	Demonstrations				
05	Extension Programmes	23	23	3	
	Kisan Mela	1	2		
	Technology Week				
	Exposure visit				
	Exhibition	2	2		
	Soil health camps				
	Animal Health Campaigns				

	Others (Pl. specify) Best innovative Farmers Award, Women Empowerment Day, Soil Health Day	21	21	3	
06	Publications				
	Video Films				
	Books				
	Extension				
	Literature				
	Pamphlets				
	Others (Pl.				
	specify)				
	Other				
07	Activities (Pl.				
	specify)				
	Watershed				
	approach				
	Integrated Farm				
	Development				
	Agri-preneurs development				

D. Give details of programmes implemented under National Horticultural Mission

S.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

E. Nature of linkage with National Fisheries Development Board

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

F. Details of linkage with RKVY

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

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

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

H. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Gram Rabi- 2019-20	Demo:30 ha	270000	224495	
	Green gram Summer-2020	Demo:30 ha	270000	99000	

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

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

7. Convergence with other agencies and departments: Activities may be specified under DAESI, YCMOU study centres and others: --

### 8. Innovator Farmer's Meet

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

### 9. Farmers Field School (FFS)

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

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

S. N.	Crop	Technology demonstrated	Feed back
1	Paddy	GNRH -2	1.Medium slender grain rice
			2.It is moderately resistant against bacterial leaf blight, leaf
			blast, grain discoloration and sheath rot.
			3. Tolerant to insect pest like BPH, WBPH, leaf folder and
			stem borer.
2	Do dales	CD 17(Candan)	4 Suitable for rice growing areas of South Gujarat
2	Paddy	GR -17(Sardar)	1. Early maturing, Long bold grain
			2.Moderately resistant against bacterial leaf blight, leaf blast, grain discoloration, sheath rot, WBPH and leaf folder
			3. Suitable for transplanted rice growing areas.
3	Paddy	GNR -6	1.Suitable for rainfed transplanted condition
	1 addy	GIVIC 0	2. With respect to pest and diseases, it was found superior to
			other cultivated varieties.
4	Paddy	GNR – 7	1.It has short slender grain, high productive tillers and number
	J		of grains per panicle with good quality characters.
			2.It is moderately resistant against bacterial leaf blight, grain
			discoloration and sheath rot.
			3.It showed tolerant to pest like BPH and moderate resistance
			against stem borer, leaf folder and sheath mite.
5	Paddy	GR – 16(Tapi)	1.Early maturing upland rice variety
			2.Long bold variety with good grain quality,
			3. Moderately resistant reaction against leaf blast and insect
			pest like stem borer and sheath mite. Suitable for upland
			rice growing areas.
6	Sorghum	GNJ-1	1.High yielding
		277.	2.Less incidence of smut, shoot borer and grain mould
7	Black	GU-3	1.Late maturing in 90-95 days.
	gram		2. Bunch type with less hairs. Resistant to YMV.
0	C 1	NDC 27	3. Seeds are shining so good market value
8	Soybean	NRC-37	1. Moderate yield 2. Early maturing
9	Soybean	KDS-344	3. Moderately Resistant to Pest & disease  1.Non-Shattering.
9	Soybean	KD3-344	2. Moderately Resistant to smut, YMV, Pod borer & leaf
			eating caterpillar.
			3. Seeds are medium size & light yellow colour.
10	Green	GAM-6	1. Moderate Yield
	gram	GI IIVI	2.Moderately Resistance to YMD
11	Sesame	GT-5	1.Moderate yield
			2. Moderately Resistant to Helicoverpa
12	Groundnut	TG-37A	1.Tolent to collar rot, rust and late leaf spot
			2. Suitable for summer cultivation
13	Brinjal	INM	3. Increase in yield and quality of fruit
			4. Decrease use of chemical fertilizers
14	Banana	INM	2. Increase bunch weight and quality
15	Parvar	INM	3. Increase in yield and quality of fruits
			4. Increase fruit setting ratio

16	Okra	INM	3. Increase the production	
			4. Reduce the use of chemical fertilizers	
17	Wheel	Drudgery	1. Reduced the labour cost and Time saving	
	Hoe	reduction	2. Increase the work efficiency	
18	Paddy	IPDM	5. Increase in yield by decreasing infestation of pest at earlier	
			stages in field.	
			6. Pheromone trap helps farmer to monitor pest in field.	
			7. Low intensity of BLB and other diseases.	
			8. Low incidence of grain discoloration	
19	Banana	IPDM	1. Less incidence of wilt	
			2. Less infestation of weevil in the field.	
20	Brinjal	IPDM	4. Less incidence of wilt and other diseases	
			5. Less infestation of Brinjal fruit and shoot borer and	
			sucking pest	
			6. Reduce the cost of cultivation by decreasing the use of	
			pesticide	
21	Parvar	IPDM	3. Less incidence of wilt and nematodes.	
			4. Decrease pollination problem due to awareness regarding	
			botanicals in place of chemical pesticides among farmers.	
22	Mango	IPM	4. Less infestation of fruitfly	
			5. Increase awareness among farmers about fruitfly	
			infestation	
			6. Good keeping quality during storage	
23	Mushroom	-	1. Easy to produce, but tough to do marketing	

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

- 1. Huge damage of pig/wild boar in agricultural crops in village of Masma, Mandroi, Asnad, Sarsana, Sandhier, Bharundi, Kareli, Madhar *etc*.
- 2. The problem of pointed gourd vine borer and nematodes are increasing day by day in Mandvi and Mahuva block of Surat district. Effective IPM module should be developing.
- 3. IPDM module for the management of Banana pseudo stem weevil and wilt should be developed.
- 4. Compatibility study on use of Novel fertilizer with other organic or chemical should be done to cut down the cost of cultivation.

### 11. Technology Week celebration during 2020: No,

Period of observing Technology Week: From to

Total number of farmers visited : -Total number of agencies involved : --

Number of demonstrations visited by the farmers within KVK campus: --

### **Other Details**

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

#### **12. IMPACT**

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

Name of specific	No. of	% of	Change in inco	me (Rs.)
technology/skill	participants	adoption	Before	After
transferred			(Rs./Unit)	(Rs./Unit)

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

- B. Cases of large scale adoption- full cases may be given at the end as Annexure. (Please furnish detailed information for each case and )
- C. Details of impact analysis of KVK activities carried out during the reporting period

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
Jan 2020			
Feb 2020			
March 2020			
April 2020			
May 2020			
Jun 2020			
Jul 2020			
Aug 2020			
Sept 2020			
Oct 2020			
Nov. 2020			
Dec. 2020	2	12293	-

		Type of Messages							
Name of KVK	Message Type	Crop	Livestoc k	Weather	Marke- ting	Aware- ness	Other enterpris e	Total	
	Text only	12	-	13	-	-	-	25	
	Voice only	-	-	-	-	-	-	-	
	Voice & Text both	-	-	_	-	-	-	-	
	<b>Total Messages</b>	12	-	13	-	-	-	25	
	Total farmers Benefitted	13758	-	7651	-	-	-	21409	

### 15. PERFORMANCE OF INFRASTRUCTURE IN KVK

A. Performance of demonstration units (other than instructional farm including value added products)

Sl.	Sl. Demo Year of		Aron	Details of	of production	f production		Amount (Rs.)	
No.	Demo Unit	establishment	Area (ha)	Vorioty	Droduce	Otra	Cost of	Gross	Remarks
NO.	Ullit	establishment	(IIa)	Variety	Produce	Qty.	inputs	income	

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

Nomo	Name Date of Date of		a	Details of production			Amount (Rs.)		
of the crop	sowing	harvest	Area	Variety	Type of	Oftr	Cost of	Gross	Remarks
of the crop	Produce	Qty.	inputs	income					
Cereals									
Pulses									
Oilseeds									
Fibers									

Spices & Planta	Spices & Plantation crops									
	_									
Floriculture										
Fruits										
Vegetables										
Others (specify	Others (specify)									

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

S1.	Name of the	0.	Amou	nt (Rs.)	D1	
No.	Product	Qty	Cost of inputs	Gross income	Remarks	

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

	Name	Detail	ls of production		Amou	nt (Rs.)	
S1. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
					•		

# E. Utilization of hostel facilities: Not applicable

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January 2020	-	-	-
February 2020	-	-	-
March 2020	-	-	-
April 2020	-	-	-
May 2020	-	-	-
June 2020	-	-	-
July 2020	-	-	-
August 2020	-	-	-
September 2020	-	-	-
October 2020	-	-	-
November 2020	-	-	-
December 2020	-	-	-

F. Database management:

S. No	Database target	Database created		
		-		

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

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

### H. Performance of Nutritional Garden at KVK farm

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

If yes,

Nutritional Garden developed at KVK farm

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

Nutritional Garden developed at Village Level

No. of Villages	Component of	No. of species / plants in	No. of farmers covered
covered	Nutritional Garden	nutritional garden	
	Vegetable crops		
	Fruit crops		
	Others if any		

# 15. FINANCIAL PERFORMANCE

# A. Details of KVK Bank accounts

Bank	Name of	Location	Branch	Account	Account	MICR	IFSC
account	the bank		code	Name	Number	Number	Number
Current	State Bank	Prakash	009166	NAU	32212880883	395002022	SBIN0009166
	Of India	Society		Krishi			
		Surat		Vigyan			
				Kendra,			
				Athwa			
				Farm			
				Surat			

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

S. No.	Particulars	Sanctioned	Released	Expenditure
	ecurring Contingencies			
1	Pay & Allowances	622000	622000	618772
2	Traveling allowances	7706000	7706000	8461851
3	Contingencies	100000	100000	28380
A	Stationery, telephone, postage and other			
	expenditure on office running, publication of			
	Newsletter and library maintenance (Purchase of			
	News Paper & Magazines)			
В	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto			
	Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration			
	material including chemicals etc. required for			
	conducting the training)			
E	Frontline demonstration except oilseeds and			
	pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific			
	and newly generated information in the major			
	production systems of the area)			
G	Training of extension functionaries			
Н	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing			
	Laboratory			
J	Library			
	TOTAL (A)	8428000	8428000	9109003
B. No	on-Recurring Contingencies	900000	900000	
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please			
	specify)			
4	Library (Purchase of assets like books &			
	journals)			
	AL (B)	900000	900000	
	EVOLVING FUND	716317.2	737079.00	382097.0
GRA	ND TOTAL (A+B+C)	10044317	10065079	9491100

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2018 to March 2019	295591	1024057	603330.8	716317.2
April 2019 to March 2020	716317.2	231061.50	324172.36	737079.00
April 2020 to December, 2020	737079.0	134210.0	497581.0	382097.0

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

Name of the staff	Designatio n	Title of the training programme	Institute where attended	Dates
Shri. S. J.	Scientist	Training workshop on	Navsari Agricultural	February 9,
Trivedi,	(Agronomy	Subhash Palekar natural farming" (SPNF)	University, Navsari	2020 (1 day)
Dr. S. K.	(Plant	Training workshop on	Navsari Agricultural	February 9,
Chawda,	Protection)	Subhash Palekar natural	University, Navsari	2020 (1 day)
Scientist		farming" (SPNF)		
Dr. J. H. Rathod,	Senior	National KVK Conference	New Delhi	February 28-
	Scientist &			29, 2020 (2
	Head			days)
Dr. S. K.	(Plant	Training programme on	Virtual	June 11-12,
Chawda,	Protection)	communication skills for	(EEI, Anand)	2020 (2 days)
Scientist		effective extension services		
Prof. G. J.	(Home	Training on gender in	Virtual (MANAGE,	July 27 to
Bhimani,	Science)	agriculture development	Hyderabad, India)	August 05,
Scientist				2020 (10
				days)
Dr. R. K. Patel,	(Extension	Training programme on	Virtual	August 06-07,
Scientist	Education)	training methods and training management skills	(EEI, Anand)	2020 (2 days)

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

Name of	Total	Key interventions implemented	No. of	Chang	_
the village	No. of		farmers	income (I	Rs/unit)
	families		covered in	Before	After
	surveyed		each		
			intervention		
Vadia	125	Crops + Horticulture + Animal Husbandry	23	48000	59800
		Crops + Horticulture	21	42000	52200

		Any other model (Crop + AH)	20	32800	44100
Parvat	160	Crops + Horticulture + Animal Husbandry	25	45000	51600
		Crops + Horticulture	21	32000	44000
		Any other model	24	28000	33200
		Crops + Animal Husbandry			

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

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered	
NIL						

19. Details of Progress of ARYA Project

Name of	No of Training	No of Beneficiarie	No of Extensio	No of Beneficiarie	No of Unit establishe	Chan	_	No. Of Group
Enterpris e	Conducte d s	S	s n Activitie s	S	d	Befor e	Afte r	s Forme d
NIL								

# 20. Details of SAP

S.	Types of major Activity conducted- Swachhta Pakhwada,	No. of	No. of
No.	Cleaning, Awareness Workshop, Miccobial based Agricultural	Programmes	Participants
	Waste Management by Vermicomposting etc.	conducted	
1	Organization of training for awareness about the Swachh Bharat	1	24
	pakhvada		
2	Involvement of print and electronic media for publicity Krishi Vigyan	1	35
	Kendra, Surat		
3	Visit of community waste disposal sites and awareness about the safe	1	12
	disposal of non bio degradable waste		
4	Cleaning of water lines nearby villages and community	1	8
5	Awareness on waste management & other activities including	1	9
	utilization of organic wastes in new area		
6	Awareness of swachhta in village youth or school children	1	48
7	Cleaning of public place	1	9
8	Community market places	1	8
9	Swachhta awareness at local level with village youth	1	15
10	Webinar-Celebration of Kishan Day	1	61
11	Agricultural technologies for conversion of waste to wealth	1	10
12	Safe disposal of all kinds of wastes	1	8
13	Campaign on cleaning of sewerage & water lines	1	9
14	Composting of kitchen and home waste materials. Organic farming	1	9
	practices in kitchen gardens.		
15	Cleanilinestion and sanitation drive within KVK campuses	1	10
16	Cleanliness in residential colonies	1	9

17	City Cleaning	1	6
18	Digitization of office records	1	3
19	Cleaning of offices, corridors and premises	1	7
20	Weeding out old records	1	2
21	Disposing of old and obsolete furniture	1	4
22	Swachhata pledge	1	13
23	Plantation of trees	1	8

21. Please include any other important and relevant information which has not been reflected above (write in detail). NO

### **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	60	1414	1065	2479
Rural youths	7	112	177	289
Extension functionaries	2	2	42	44
Sponsored Training	3	0	95	95
FLD Training	26	328	222	550
Total	98	1856	1601	3457

### 2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	208	85	
Pulses	266	108.4	
Cereals	86	37	
Vegetables	190	30.5	
Other crops	42	17	
Hybrid crops			
Total	792	277.90	
Livestock & Fisheries			
Other enterprises	120		
Total	120		
Grand Total	912	277.90	

### 3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Technology Assessed			
Crops	6	17	40
Livestock	-	-	-
Other	-	-	-
Total	6	17	40

# 4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	762	139893
Other extension activities	21	-
Total	783	139893

# 5. Mobile Advisory Services

Name of KVK		Type of Messages						
	Message Type	Crop	Livestock	Weather	Marke -ting	Awar e- ness	Other enterpri se	Total
Surat	Text only	12	-	13	-	-	-	25
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	12	-	13	-	-	-	25
	Total farmers Benefitted	13758	-	7651	-	-	-	21409

# 6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	175	546000
Planting material (No.)	3000	60000
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

# 7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	0	0
Water	0	0
Plant	0	0
Total	0	0

# 8. HRD and Publications

Sr.	Category	Number
No.		
1	Workshops	-
2	Conferences	-
3	Meetings	24
4	Trainings for KVK officials	5
5	Visits of KVK officials	6
6	Book published	-
7	Training Manual	-
8	Book chapters	-
9	Research papers	3
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	3
13	Proceedings	-
14	Award & recognition	-
15	On going research projects	-