

Annual Progress Report (April-2017 to March-2018)





KRISHI VIGYAN KENDRA NAVSARI AGRICULTURAL UNIVERSITY ATHWA FARM, SURAT-395007

ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2017-18 (1st April 2017 to 31st March 2018)

1. GENERAL INFORMATION ABOUT THE KVK

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

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

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

Address	Telep	hone	E mail	Website
	Office	FAX		address
	(02637)282026	02637)282706	dee@na	
Director of Extension Education			u.in	
Navsari Agricultural University				
Navsari				

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

Name	Telephone / Contact			
			hariom.janaksinh@gm	
Dr. J. H. Rathod	0261 655565	8128686720	<u>ail.com</u>	

1.4. Year of sanction: 2012

1.5. Staff Position (as on March 31, 2018)

1.0.	Staff Position (as on 30 th Marc			If Permanent, Ple	ease indicate		If Temporary, pl.
Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current Grade Pay	Date of joining	indicate amount paid (Rs./month)
1.	Senior Scientist and Head	Dr. J. H. Rathod	Entomology	37400-67000	9000	16.11.16	Temporary (130558)
2.	Scientist	Vacant	Ext.Edu.				
3.	Scientist	Dr. H. C. Parmar	Veterinary Science	15600-39100	6000	02.04.12	Temporary (64668)
4.	Scientist	Vacant	Agronomy				
5.	Scientist	Prof. B. B. Panchal	Horticulture	15600-39100	6000	20.01.17	Temporary (55835)
6.	Scientist	Smt. G. J. Bhimani	Home Science	15600-39100	6000	05.02.16	Temporary (68610)
7.	Scientist	Dr. S. K. Chawda	Crop protection	15600-39100	6000	02.04.13	Temporary (62799)
8.	Farm manager	Mr. A. T. Patel		39900	00	12.07.12	Temporary (45477)
9.	Computer Programmer	Mr. C. G. Lad		39900	00	01.08.15	Temporary (45477)
10.	Prog. Assistant	Mr. Y. D. Patel		41100	00	10.08.15	Temporary (46829)
11.	Accountant / Superintendent	Mr. K. N. Kothari		9300- 34800	4200	01.07.15	Temporary (50595)
12.	Stenographer	J. M. Verma		19950 Fix		19.08.15	Temporary (19950)
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	-
2.	Under Demonstration Units	-
3.	Under Crops	2.00 ha
4.	Horticulture	-
5.	Pond	
6.	Others if any	

1.7. Infrastructural Development:

A) Buildings

A)	Dunungs		Stage					
		Source				Biage	Incom	olete
S. No.	Name of building	of funding	Com pleti on Year	Plinth area (Sq.m)	Expendit ure (Rs.)		Plinth area (Sq.m)	Status of construction
1.	Administrative							
	Building							
2.	Farmers Hostel							
3.	Staff Quarters							
	(6)							
4.	Demonstration							
	Units (2)							
5	Fencing							
6	Rain Water							
	harvesting							
	system							
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	202276	Working
Tractor	2012	549900	3697(h)	Working

C) Equipments & 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

1.8. Details SAC meeting conducted in the year

Proceeding of 6th Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat held on 19/03/2018 at 03:30 p.m., at KVK, Surat

The Sixth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat was held at KVK, Surat on 19th March, 2018 to review the progress made by KVK during last year (1-4-2017 to 19-03-2018) and discuss the future action plan for the next year (April-2018 to March-2019). The meeting was inaugurated by Dr. C. J. Dangaria, Honorable Vice Chancellor, NAU, Navsari and Chairman of Scientific Advisory Committee, KVK, Surat. 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 the overall activities and achievements done by the KVK during the last year. Different 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 due emphasis on mandatory activities with special reference to focus on tribal.

Shri D. K. Padaliya, DHO, Surat suggested to do the special training on rejuvenation in mango for the farmers. He suggested giving FLDs on mango graft (Sonpari) for the trial purpose in Surat.

Shri N. G. Gamit, Deputy Director of Agriculture(Extension), Surat suggested to do the value addition in Soybean. Progressive farmers gave their reaction on the FLDs given by KVK and also told how the KVK is beneficial for them.

Dr. G. R. Patel, Director of Extension Education, NAU, Navsari appreciated the performance of KVK and emphasized to increase the role of farm women in decision making activities.

Hon. Vice Chancellor and Chairman of the committee, Dr. C. J. Dangaria gave very positive remarks on KVK activities and focused to create the awareness about the organic farming among the farmers. He emphasized to make some plan to double the income of the farmer (mainly on honey production and fisheries).

- 6.1 Approval of the minutes of Fifth Scientific Advisory Committee.

 The action taken report of the minutes of Fifth SAC meeting (Held on 02-03-2017) was presented before the house and it was approved by the Scientific Advisory Committee.
- 6.2 Progress made by KVK during April 2017 to March 2018.

 Senior Scientist and Head and the scientists of the KVK, NAU, Surat presented the report on progress made by KVK, for the period of April-2017 to March 2018. The committee was satisfied with the activities and achievements made by the KVK.
- 6.3 Action plan for the period of April-2018 to March-2019.

 Discussion was made on the Action Plan for the period of April-2018 to March-2019 which was approved by the house. However, few suggestions were made by the house to strengthen the action plan.

-	strengthen the action plan.
6.3.1	Give demonstrations of GM 6 variety of Green gram during summer.
6.3.2	Give demonstration of GG 31 or any other recent variety in place of TG
	37 A for summer Groundnut.
6.3.3	Give demonstration of GT 5 in place of GT 3 for summer sesame.
6.3.4	Demonstrate Indian bean NPS 1 variety as intercrop with Sugarcane.
6.3.5	Make demonstration plot of Brinjal Var. GNRB-1 at KVK farm.
6.3.6	Organize special training on High density planting of Mango in
	collaboration with horticulture department.
6.3.7	Take the demonstration on Mango var. Sonpari
6.3.8	Organize special trainings, Sibir and other activities related to Fisheries in
	collaboration with line department.
6.3.9	Keep project in Tribal Sub Plan Scheme.
6.3.10	Keep training on scientific cultivation of Groundnut in Umarpada block.
6.3.11	Give demonstrations of rectangular kitchen garden model in place of
	round one.
6.3.12	Give demonstration on Goat farming in tribal area on collaboration with
	co operative society.
6.3.13	Give special emphasis on apiculture and fish culture to double the income
	of farmers.
6.3.14	Give training on value addition of Soybean.

The meeting was ended with vote of thanks by Dr. J. H. Rathod, Senior Scientist & Head, KVK, NAU, Surat.

Senior Scientist and Head Krishi Vigyan Kendra Athwa Farm, Surat Vice – Chancellor and Chairman SAC Navsari Agril. University, Navsari

Following members and invitees were remained present in 6th Scientific Advisory Committee meeting.

	T	Committee meeting.	T
1	Dr. C. J. Dangaria	Hon. Vice Chancellor, NAU, Navsari	Chairman
2	Dr. G. R. Patel	Director of Extension, NAU, Navsari	Member
3	Dr. J. D. Thanki	Professor and Head, Department of Agronomy, NMCA, NAU, Navsari	Member
4	Dr. V. K. Parmar	I/C Professor and Head, Department of Horticulture, NMCA, Navsari	Member
5	Dr. V. B. Kharadi,	Research Scientist, LRS,NAU, Navsari	Member
6	Mr. N. K. Gabhani	District Agricultural Officer Training, Surat	Member
7	Shri D. K.Padaliya	District Horticultural Officer, Surat	Member
8	Shri N. G. Gamit	District Agricultural Officer Extension Surat	Member
9	Dr. R. M. Patel	Professor (Horticulture), GABI,NAU, Surat,	Member
10	Shri P. F. Chaudhri	Representative, District Agricultural Officer Surat	Member
11	Mrs. P. S. Shah	Deputy Engineer, WALMI, Surat	Member
12	Mrs. Sonalben R. Chaudhari	Representative, Deputy Director of fisheries, Surat	Member
13	Dr. A. C. Patel	I/C, Assistant Deputy Director Animal Husbandry, Suart	Member
14	Shri Ghelabhai S. Patel	Progressive farmer, Village: Umara, Taluka: Mahuva, Surat	Member
15	Mrs. Vajaben Vasantbhai Vasava,	Progressive Woman Farmer, Village:Chitlada, Taluka:Umarpada, Surat	Member
16	Shri. Manojbhai Patel	Agri Entrepreneur, Village: Shekhpur, Surat	Member
17	Mrs. Nishaben S. Chaudhary	Chairmen, SHG, Village: Parvat, Taluka: Mandvi, Surat	Member
18	Lataben P. Patel	Progressive woman farmer, Village: Mandroi, Taluka: Olpad,	Member
19	Shri Ramsingbhai Chaudhri	Representative, Cooperative Leader, Village: Moritha, Taluka: Mandvi,	Special Invitee
20	Dave Asha R.	Vice-President, SGPC, Surat	Special Invitee
21	Avni Raval	Reliance Foundation, Surat	Special Invitee
22	Shri. R. A. Sosa	RFO, Forest Department, Surat	Special Invitee
23	Shri D. M. Chitte	Forest Department, Surat	Special Invitee
24	Dr. J. H. Rathod	Senior Scientist and Head, KVK, Surat	Member Secretary
25	Dr. D. H.Patel	Representative, Research Scientist (Cotton), Main Research Station Cotton, Surat	Special Invitee
26	Shri B.K.Davda.	Research Scientist (Sorghum), Main Research Station Sorghum, Surat	Special Invitee
27		All SMS, KVK, Surat	

PROCEEDINGS AND ACTION OF THE FIFTH SAC MEETING HELD ON 02/03/2017.

Sr. No	Suggestions	Action Taken
5.3.1	Demonstrate new variety of Groundnut for summer	Demonstration of Groundnut var.TG 37 A demonstrated to 75 beneficiaries
5.3.2	Demonstrate new variety of Sorghum	Jointly given 50 demonstrations with Sorghum Research Station, Surat.
5.3.3	Impact study of training and FLDs should be reflected in report	Impact of training and FLDs was done and reflected in this report
5.3.4	Give more emphasis on organic farming during training	We conducted special programme on organic farming (One Seminar, Sibir and two trainings). We also emphasized on organic farming during all the trainings.
5.3.5	In presentation, detail about FLD's treatments (inputs), observations on insect pest and disease in IPDM demonstrations, Sponsoring agency in Sponsored training should mention.	Suggestion accepted and included in the presentations.
5.3.6	Conduct Demonstrations of banana sap on banana crop.	Conducted 30 demonstrations.
5.3.7	Arrange Kitchen Garden demonstrations with Suruchi in tribal area.	Conducted 50 demonstrations.

2. DETAILS OF DISTRICT

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)

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

2.3. Types of soils in Surat district: (according to AES)

SN	Soil type	Characteristics
1	(AES-1)	Hilly and highly undulating
	Mandvi (30%), Mangrol (40%), Umarpada	fine texture, highly erosive
2	(AES-2)	
	Bardoli, Choryasi (75%), Kamrej, Palasana,,Surat	Leveled, deep, fine textured
	and Mahuva	
3	(AES-3)	Deep to medium black
	Mandvi (70%), Mangrol (60%), Olpad(70%)	Deep to medium black
4	(AES-4)	Coastal plain, deep, fine
	Choryasi (25%), Olpad (30%)	texture, salt affected

2.4. Area, Production and Productivity of major crops cultivated in district (2017-18)

Sr. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)				
Kharif	Kharif crops							
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				
6	Pigeon pea- rainfed	9506	7224	760				
7	Green gram	944	690	651				
8	Urid	1587	415	658				
9	Other pulses	347	183	530				
10	Ground nut	530	816	1540				
11	Sesame	26	11	435				
12	Castor	30	50	1667				
13	Cotton	2352	4515	1920				
14	Soybean	9830	8620	877				
15	Vegetables	31991	0					
16	Fodder	7164	0					
17	Green manuring	7616	0					
	Total	123796	0					
Rabi-su	mmer crops							
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 Area, Production and Productivity of major fruit crops cultivated in the district (2017-18)

(=01: 10)			
Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Mango	9577	88970.33	9.29
Sapota	2200	24442.00	11.11
Citrus	95	856.90	9.02
Ber	8	24.00	3.00
Banana	8705	610220.50	70.10

Guava	82	966.78	11.79
Pomegranate	50	537.50	10.75
Papaya	865	52522.80	60.72
Other	261.8	1937.46	7.40
Total	21843.8	780478.27	35.73

2.4.3.1 Area and Production of Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity(MT)
Brinjal	5390	107530.50	19.95
Okra	12045	165618.75	13.75
Cabbage	873	16936.20	19.40
Tomato	1691	41260.40	24.40
Clusterbean	1532	12118.12	7.91
Cow Pea	1596	19630.80	12.30
Pointed Gourd	3621	81472.50	22.50
Tindola	665	6650.00	10.00
Bitter Gourd	307	5771.60	18.80
Bottle Gourd	347	6523.60	18.80
Ridge Gourd	81	1522.80	18.80
Papadi	301	2829.40	9.40
Valol	255	2422.50	9.50
TOTAL(Major			
Crops)	28704	470287.17	16.38

2.4.3.2 Area and Production of Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity(MT)
Watermelon	45	450.00	10.00
Kankoda	190	1615.00	8.50
Yam	915	13725.00	15.00
Beet	213	2928.75	13.75
Carrot	86	877.20	10.20
Radish	458	7213.50	15.75
Chilly-Salad	507	7605.00	15.00
Chilli-Dry			
(Green Chilli)	150	237.00	1.58
Turmeric	241	4964.60	20.60
other	2805	39616.05	14.12
Total	31509	509903.22	16.18

2.4.4 Area and Production of Flower Crops in the district

Crop	Area(Ha.)	Production (MT)	Productivity(MT)
Gadaliya	40.50	370.98	9.16
Rose	198.00	1892.88	9.56
Marigold	515.00	5180.90	10.06
Lily	130.00	1287.00	9.90
Mogra	7.00	30.10	4.30
Others	190.00	1740.40	9.16
TOTAL	1080.50	10502.26	9.72

2.4.5 Area, Production and productivity of Spices Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Ginger	192	3298	17.00
Turmeric	180	3060	17.00
Fenugreek	82	123	1.50
Coriander	38	68	1.80
Others	26	24.7	0.95
Total	2358	20824.26	8.83

Source: DDH,Surat

2.5. Weather data (2017-18)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimu
					m
April 2017	00	43.0	16.8	73	48
May 2017	00	39.0	24.6	70	60
June 2017	374.2	36.2	22.2	86	65
July 2017	363.8	34.0	24.0	94	79
August 2017	306.2	33.6	24.0	95	77
September 2017	106.1	37.0	24.0	94	79
October 2017	42.6	38.0	25.0	86	76
November 2017	00	35.6	17.6	69	65
December 2017	14.6	34.5	16.0	83	73
January 2018	00	34.2	15.2	89	80
February 2018	00	35.2	15.8	90	75
March 2018	00	38.6	21.0	76	65

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

Category	Population	Production (MT)	Productivity
Cattle	- 1		
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	- In		
Hens	204000	55100	_
Desi	10000	_	_
Category		Production (Q.)	Productivity
Fish (Reservoir)	5	10414	-

2.7. Details of Operational area / Villages

Sr.	Name of	Name of	Identified Thrust areas	Identified Problems	Specific activities
				14011111104 1 1 0 0 1 1 1 1 1 1 1 1 1 1	specific delivines
Sr. No. 1	Name of Block Mahuva	Name of villages 1. Umra 2. Vasrai 3. Dhundhesa 4. Mahudi	1. Increase productivity of major crops e.g. Paddy, sugarcane 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. Popularize eco-friendly crop production with special reference to IPDM & INM. 5. Increasing milk production by dissemination of latest technologies. 6. Imparting skill oriented training to the tribal women for sustaining their livelihood. 7. Promotion of small scale farm mechanization in tribal area.	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 High calf mortality Problem of anoestrus Lack of awareness about Feeds and fodder management	Training and demonstrations on new variety of rice and sugarcane. Demonstration on intercropping in sugarcane Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on net house and green house. Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Training and demonstrations on INM and IPDM in different crops Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management Training on value addition and income generating activity Demonstrations on use of twin wheel
				6.Lack of knowledge of small scale	hoe and other hand tools.
				agricultural base enterprises, value addition	

				etc. 7. Drudgery reduction through improved hand tools.	
2	Mandvi	1. Amba 2. Parvat 3. Uteva 4. Titoe	1. Increase productivity of major crops e.g. Paddy, sugarcane, Soybean 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. Popularize eco-friendly crop production with special reference to IPDM & INM. 5. Increasing milk production by dissemination of latest technologies. 6. Imparting skill oriented training to the tribal women for sustaining their livelihood. 7. Promotion of small scale farm mechanization in tribal area.	1.The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation 2. Brinjal and okra are important crops but the productivity is very low, problem of insect pests and disease No technical know how regarding green house net house technology and crops Lack of technical knows how 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 fruit and shoot borer in brinjal 5. Low milk productivity High calf mortality Problem of anoestrus Lack of awareness about Feeds and fodder	Training and demonstrations on new variety of rice and sugarcane. Demonstration on intercropping in sugarcane Awareness programmes on protected cultivation on low cost net house and green house. Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Training and demonstrations on INM and IPDM in different crops Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management Training on value addition and income generating activity Demonstrations on use of twin wheel hoe and other hand tools.
L		1			<u>l</u>

				management 6.Lack of knowledge of small scale agricultural base enterprises, value addition etc.	
				7.Drudgery reduction through improved hand tools.	
3	Umarpada	1. Kadvali 2. Kadavidad ra 3. Vadpada 4. Khotaramp ura	1. Increase productivity of major crops e.g. Paddy, cotton, sorghum, pigeon pea 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. Popularize eco-friendly crop production with special reference to IPDM & INM. 5. Increasing milk production by dissemination of latest technologies. 6. Imparting skill oriented training to the tribal women for sustaining their livelihood. 7. Promotion of small scale farm mechanization in tribal area.	1.The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation 2. Indian bean is an important crops but the productivity is very low, problem of insect pests and disease Lack of technical knowhow about orchards plantation and management. 3. Water scarcity in rabi / summer due hilly area 4.Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy vegetables etc, No use of bio fertilizers 5.Low milk productivity High calf mortality Problem of anoestrus Lack of awareness about Feeds and fodder	Training and demonstrations on new variety of Paddy, cotton, sorghum, pigeon pea, increasing seed replacement ratio Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on Low cost net house. Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Promotion of water conservation technologies Training and demonstrations on INM and IPDM in different crops
				management	Training and demonstrations on

				Large no of non descript animals	scientific calf rearing, feeding
					mineral mixture and
				6. Lack of knowledge of small scale	Popularize Fodder crops and feeds
				agricultural base enterprises, value addition	and fodder management
				etc.	
				7. Drudgery reduction through improved	Training on value addition and
				hand tools.	income generating activity
					Demonstrations on use of twin wheel
					hoe and other hand tools.
4	Mangrol	1. Balethi	1. Increase productivity of major	1.The productivity of crop is very low due	Training and demonstrations on new
		2. Mandan	crops e.g. Paddy, cotton,	to lack of technical knowhow regarding its	variety of rice, pigeon pea, sorghum
		3. Ghodbar	sorghum	scientific cultivation	and cotton. Increase seed replacement
			2. Dissemination of production		ratio of these crops.
			technology of fruits and	2. Okra, brinjal and creepers are crops but	
			vegetables and their post harvest	the productivity is very low, problem of	Training programmers on package of
			management as well promotion	insect pests and disease	practices of these vegetable crops.
			of precision farming.	No technical knowhow regarding net house	And precision farming.
			3.Management of natural	technology and crops	Awareness programmes on protected
			resource, including salinity	Lack of technical knowhow about	cultivation on low cost net house.
			management	plantation and management.	
			4. Popularize eco-friendly crop	3. Water scarcity in hilly area and rain fed	Promotion of farm forestry through
			production with special	farming	training and demonstrations
			reference to IPDM & INM.	4.Lack of knowledge about Insect pests and	
			5. Increasing milk production by	diseases and their management and nutrient	Training on drip irrigation to rural
			dissemination of latest	management in crops like paddy sugar cane,	youth.
			technologies.	okra, creepers etc,	Promotion of drip irrigation through
			6 .Imparting skill oriented	Injudicious use of fertilizers and pesticides	awareness programmes
			training to the tribal women for	High incidence of wilt and parval vine borer	Popularizing water conservation
			sustaining their livelihood.	in pointed gourd.	technologies for rain fed farming
			7. Promotion of small scale farm		
			mechanization in tribal area.	5.Low milk productivity	Training and demonstrations on INM
				16	

			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.	and IPDM in different crops Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management Training on value addition and income generating activity
				Demonstrations on use of twin wheel hoe and other hand tools.
5 Olpad	1. Mandroi 2. Bhatgam	1. Increase productivity of major crops e.g. Paddy, sugarcane 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. Popularize eco-friendly crop production with special reference to IPDM & INM. 5. Increasing milk production by dissemination of latest technologies. 6. Imparting skill oriented	1.The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation 2. Okra 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 fruit crops cultivation. 3.High use of water in canal command area and salinity problem in coastal area 4.Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane,	Training and demonstrations on new variety of rice and sugarcane. Demonstration on intercropping in sugarcane Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on net house and green house. Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Training and demonstration on
L L	1	training to the tribal women for	okra, creepers etc, 17	drainage system to reduce salinity

			sustaining their livelihood.	Injudicious use of fertilizers and pesticides High incidence of wilt and parval vine borer	and salinity tolerant crops
				in pointed gourd.	Training and demonstrations on INM and IPDM in different crops
				5. Low milk productivity	Training and demonstrations on
				High calf mortality	scientific calf rearing, feeding
				Problem of anoestrus	mineral mixture and
				Lack of awareness about Feeds and fodder management	Popularize Fodder crops and feeds and fodder management
					and reduct management
				6. Lack of knowledge of small scale	Training on value addition and
				agricultural base enterprises, value addition etc.	income generating activity
6	Kamrej	Karjan Choryasi	 Increase productivity of major crops e.g. sugarcane Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion 	1.The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation 2. Banana is an important crop but the problem of insect pests and disease	Training and demonstrations on new variety of sugarcane. Demonstration on intercropping in sugarcane Training programmers on package of practices of banana cultivation Demonstration on quality
			of precision farming.	No technical knowhow regarding green	improvement in banana.
			3.Management of natural resource, including salinity	house net house technology and crops	Awareness programmes on protected cultivation on net house and green
			management	3. High use of water in canal command area	house.
			4. Popularize eco-friendly crop	problem of water logging	Training on drip irrigation to rural
			production with special		youth.
			reference to IPDM & INM.	4.Lack of knowledge about Insect pests and	Promotion of drip irrigation through
				diseases and their management and nutrient management in banana	awareness programmes Training on drainage system
				management in banana	Training on drainage system Training and demonstrations on INM
					and IPDM in different crops
7	Bardoli	1. Balda	1. Increase productivity of major	1.The productivity of crop is very low due	Training and demonstrations on new
		2. Rajvad	crops e.g. Paddy, sugarcane	to lack of technical knowhow regarding its	variety of rice and sugarcane.

	8	Choryasi	1. Bhatha	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. Popularize eco-friendly crop production with special reference to IPDM & INM. 5. Increasing milk production by dissemination of latest technologies. 6. Imparting skill oriented training to the tribal women for sustaining their livelihood.	2. Okra 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 fruit crops cultivation. 3. High use of water in canal command area and salinity problem in coastal 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 High calf mortality Problem of anoestrus Lack of awareness about Feeds and fodder management 6. Lack of knowleged of small scale agricultural base enterprises, value addition etc. 1. The productivity of crop is very low due	Demonstration on intercropping in sugarcane Training programmers on package of practices of these vegetable crops. And precision farming. Awareness programmes on protected cultivation on net house and green house. Training on drip irrigation to rural youth. Promotion of drip irrigation through awareness programmes Training and demonstration on drainage system to reduce salinity and salinity tolerant crops Training and demonstrations on INM and IPDM in different crops Training and demonstrations on scientific calf rearing, feeding mineral mixture and Popularize Fodder crops and feeds and fodder management Training on value addition and income generating activity Training and demonstrations on new
2. Bhatpor crops e.g. sugarcane to lack of technical knowhow regarding its variety of sugarcane. Demonstration on intercropping in sugarcane			2. Bhatpor3. Budia	crops e.g. sugarcane 2. Dissemination of production	to lack of technical knowhow regarding its	variety of sugarcane. Demonstration on intercropping in sugarcane

technology of fruits and vegetables and their post h management as well promof precision farming. 3. Management of natural resource, including salinity management 4. Popularize eco-friendly production with special reference to IPDM & INM 5. Imparting skill oriented training to the tribal wome sustaining their livelihood.	house net house technology and crops 3. High use of water in canal command are problem of water logging 4. Lack of knowledge about Insect pests and diseases and their management and nutrier management in banana	youth. Promotion of drip irrigation through awareness programmes Training on drainage system Training and demonstrations on INM and IPDM in different crops Training on value addition and
		income generating activity

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Paddy, Sorghum, Vegetables, Sugarcane,	Crop production management (ICM)
Cotton & pulses	
Vegetables,	Eco friendly production
Paddy, Sugarcane, Cotton, Pigeon pea, Banana	Integrated pest & disease management
Vegetables	
Paddy, Sugarcane, Vegetables, ,Banana	Integrated nutrient management
Use of Bio-fertilizers	Eco-practice and to minimize the use of
	chemicals
Green house technology,	High tech horticulture
Salinity management & Micro irrigation	Soil and Water conservation
Formation of Self Help Groups	Women empowerment
Value addition in Fruits, Vegetables & pulses	Self employment to rural youth
Dairy management	Management of milch animals and calf
	rearing
Health & Nutrition	Health & nutrition for vulnerable groups.
Farm mechanization	Small scale farm mechanization
Information transfer, Marketing and credit	Value addition, market linkage, and
availability	Schemes

Major thrust areas

- 1. Increase productivity of major crops e.g. Paddy, Cotton, Sorghum, sugarcane.
- 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

3. TECHNICAL ACHIEVEMENTS

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

	Ol	FT		FLD				
1				2				
Numb	er of OFTs	Numbe	r of farmers	Number of FLDs Numb		Numbe	er of farmers	
				(ha)				
Targe	Achieveme	Targe	Achieveme	Targe	Achieveme	Targe	Achieveme	
ts	nt	ts	nt	ts	nt	ts	nt	
8	6	45	40	90	698.1	225	2118	

	Trai	ning		Extension Programmes				
	3				4			
Numbe	Number of Courses		Number of		Number of		Number of	
		Participants		Programmes		participants		
Targe	Achieveme	Targe	Achieveme	Targe	Achieveme	Targe	Achieveme	
ts	nt	ts	nt	ts	nt	ts	nt	
40	55	1090	2006	75	828	16750	21660	

Seed Prod	uction (Qtl.)	Planting materials (Nos.)		
	5	6		
Target	Achievement	Target	Achievement	
40	40 134.18		1,28000	

Livestock, poultry	strains and fingerlings	Bio-products (Kg)		
(.	No.)			
	7	8		
Target Achievement		Target	Achievement	
00	00	00	00	

3.1. B. Operational areas details during 2017-18

Sr.	Thrust area	Crop/	Identified Problem	Interventions					
No		Enterprise		Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extensio n personn el if any	Extension activities	Supply of seeds, planting materials etc.
1	Increase productivity of major crops	Paddy, Soybean, Pigeon pea Sorghum Cotton, Sugarcane	Use of local variety High seed rate, Imbalance use of fertilizers No use of bio fertilizer lack of knowledge about SIRA & SRI technology		Demo. of improved variety	Scientific Cultivation of major crops		Field days, khedut shibirs, News paper coverage, film show Exhibitions etc.	Seed of improved variety

2	Disseminati	Banana	Use of local variety in	1. Assessment	Demo. on	Scientific	 Khedut	Demonst
	on of	Brinjal	brinjal	of enriched	INM	cultivation of	shibirs,Trai	ration on
	production	Pointed	Imbalance use of	banana sap on		various crops	ning,	INM,
	technology	gourd	fertilizers in crops	yield and		Training on	News	IPDM
	of fruits and	Okra	No use of bio- fertilizers	quality of		protected	paper	
	vegetables	Mango	No knowledge about post	Mango		cultivation and	coverage,	
	and their	Green	harvest management and	_		precision farming	film show	
	post harvest	house/ net	processing					
	management	house	Low technical know				Exhibitions	
	as well as	technology	house regarding green				etc.	
	promotion	High value	house/ net house and				Awareness	
	of precision	crops	production technology				programme	
	farming						s on net	
							house/	
							green	
							house	

3	Popularize eco-friendly crop production with special reference to IPDM	Cotton, Pigeon pea Brinjal, Paddy, Sugarcane	Lack of knowledge about disease and insect pest management. Injudicious use of pesticides Lack of knowledge about Bio-fungicides	1.Assessment of effective methodology for the management of Banana Pseudo stem weevil 2. Assessment of stem application method of insecticide for management of sucking pest in okra	Demo. of IPM techniques	IPM practices	1	Kisan gosthi Diagnostic visits. Khedut shibirs,	IPM kits
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4	Increasing milk production	Animal husbandry	Poor dairy management Large number of non- descript animals with low	1.Use of Chelated minerals in the	Use of mineral mixture	Animal health and care Dairy	 Pashu palan shibirs	Mineral Mineral mixture
	by		milk production	diet of	Urea	management	Animal health	Urea
	disseminatio n of latest		Poor availability of fodder in hilly area.	crossbred HF cows.	treatment to paddy	Animal diseases and their	camps,	Plastic sheets
	technologies		Poor cultivation of fodder	2.Reduction of	straw	management	awareness	Medicine
			crops	Calving	Teat dip	Scientific calf	programme	S
			High calf mortality due to	Interval in	treatment	rearing	s,	etc.
			poor management	Cross bred	with		Literature	
				cow.	KMNO ₄ Scientific		publication etc	
					calf		Cic	
					rearing			
5	Management	Paddy,	In hilly area problem of					
	of natural	Sugarcane,	water conservation					
	resource,	Soybean,	In middle canal command					
	including salinity	Vegetables	area due to excess irrigation problems of					
	management		water logging and salinity					
	management		In coastal area salinity					
			problem					
5	Popularize	Brinjal	Imbalance use of		Demo. of	INM in Paddy and	 Field days,	Bio
	eco-friendly	Okra,	fertilizers lack of		improved	pigeon pea	khedut	Fertilizer
	crop	Banana	awareness about use of		variety		shibirs,	s,
	production	Paddy	bio-fertilizers				News	
	with special reference to						paper coverage,	
	INM.						film show,	
	11 11/1.						etc.	

6	Imparting	Value	Lack of knowledge about		Value addit	ion in	Nutritio	Training	Seeds &
	skill	addition	value addition of locally		fruits	and	n	,Mahila	seedlings
	oriented	Small	available materials		vegetables	by	manage	shibirs,	
	training to	scale	Lack of knowledge, skills		preparing	jam,	ment in	Awareness	
	the tribal	agricultura	regarding various small		ketch-up	and	malnou	programme	
	women for	1 based	scale agricultural based		other produc	ets	rished	,News	
	sustaining	entreprene	enterprises				children	paper	
	their	urship			Value addit	ion in	for	coverage,	
	livelihood.	developme			spices	and	Anagan	film show	
		nt			condiments	for	wadi	Literature	
					preparation	of	workers	publication	
					Mari- masal	a		,	
								Exhibitions	
					Preparation	of		etc	
					Squash	from			
					Fruits				
					Training	on			
					mushroom				
					cultivation				
					Preparation	of			
					various recip	pes			
					from mushro	oom			

3.2. Technology Assessment and Refinement

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 Crop					1	1				2
Management										
Integrated Pest					1	1				2
Management										
Total					2	2				4

A2. Abstract on the number of technologies refined in respect of crops: Nil

A3. Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Nutrition	1					1
Management						
Production and	1					1
Management						
TOTAL	2					2

A4. Abstract on the number of technologies refined in respect of livestock enterprises: Nil

B. Achievements on technologies Assessed and Refined

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 Pest Management	Banana	Assessment of effective methodology for the management of Banana Pseudo stem weevil	3	5	2 ha
	Okra	Assessment of stem application method of insecticide for management of sucking pest in okra	3	5	2 ha
Integrated Crop Management	Brinjal	Assessment of enriched banana sap on yield and quality of brinjal	3	5	2 ha
		Assessment of enriched banana sap on yield and quality of Mango	3	5	2 ha
		Total		20	

B.2. Technologies Refined under various Crops: Nil

B.3. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Nutrition management	Crossbred	Use of Chelated minerals in	3	10
	HF cows.	the diet of crossbred HF cows.		
Production and management	Cross bred	Reduction of Calving	3	10
	cow	Interval in Cross bred cow		
	·	Total		20

B.4. Technologies Refined under Livestock and other enterprises: Nil

1. Crop Protection

(1): Assessment of effective methodology for the management of Banana Pseudo stem weevil.

Technology Option	No. of trials	% Infestation	Yield (Kg/ha)	BCR
T ₁ - Farmers method (Spraying of Chlorpyriphos on pseudostem)		1.93	573.5	3.32
T ₂ -Longitudinal Split stem traps (25 traps/0.2 ha) swabbed with Beauveria (20 gm/trap) (NRC, Banana)	5	1.43	694.7	4.16

(2): Assessment of stem application method of insecticide for management of sucking pest in okra

Treatments: T_1 . Farmer's method

T₂. Spraying of recommended insecticides

		Whit	tefly		%Decre	Jass	sid	%Dec	%Decre
No.		* *		%Decre	ase over	population/3		rease	ase over
of	Area	* *_		ase over	Farmer	leaves		over	Farmer
OFT				control	S			contro	S
								_	
		T_1	T_2		method	T_1	T_2	l	method

Average	yield (q/ha)	%	% Increase over	BC	CR
T_1	T_2	Increase	Farmers method	T_1	T_2
136.17	153.17	21.84	12.49	3.99	4.01

2. Horticulture:

(3) Assessment of enrich banana sap for yield and quality of brinjal

Technology Option	No.of trials	Yield (t/ha)	BCR
T ₁ : Farmers method		160.5	3.72
T ₂ : Spraying of banana sap @1.0 % twice at peak flowering stage (15 days interval)	5	174.42	3.98

(4) Assessment of enrich banana sap for yield and quality of mango

Technology Option	No.of	Yield	BCR
	trials	(t/ha)	
T ₁ : Farmers method	5	8.90	4.09
T ₂ : Spraying of 1.5 % banana sap at flowering and pea		11.92	5.80
stage			

3. Animal Husbandry: On Farm Test: 1

Title	:	Use of Chealated minerals in the diet of crossbred HF cows
Objective	••	To improve milk production and Milk far percentage To improve body condition
Location	:	Mandvi and Mahuva Block
Treatments	:	T1: Animal rearing as per farmers tradition (Not give Mineral Mixture) T2: Animal give 50g chealated mineral Mixture per day
No. of beneficiaries	:	10
Season	:	Rabi
Observations:	••	Milk Yield, Fat percentage, Post partum estrus and body weight
Source of technology	••	NDDB, Anand

Results:

Parameters	T1	T2	Difference	% Increase
Milk Yield (L)	11.033±2.12	12.060±2.34	1.186	9.7
Fat %	3.85±.20	4.09 ± 0.18	0.24	5.8
4% FCM	10.764±1.94	12.219 ± 2.42		
Body Weight (Kg)	376.46	369.28		
Post partum estrus	146	102		
(D)				

On Farm Test: 2

OH T WITH T COL	7H 1 d1 H 1 C5t. 2							
Title	:	Reduction of Calving Interval in Cross bred cow.						
Objective	:	To Reduce Intercalving period						
Location	:	Mandvi and Mahuva Block						
Treatments	:	T1: Farmers practice (No feeding of mineral mixture) T2: Mineral mixture @ 50 g./head/day + deworming + Herbal Hormone catalyst (Prajna Tablets) @ 3 tablets / day / animal for 3 Days.						
No. of beneficiaries	:	10						
Season	:	Rabi						
Observations:	:	Post partum estrus, Conception and Calving						
Source of technology	:	NDDB, Anand						

Results:

Parameter	Major Par	% change in major	
	Demonstration	Check	parameter
Animal coming in Estrus	9 (10)	5 (10)	16 % reduced
(I)			calving Interval
Animal become Pregnant	8 (20)	3 (10)	
(I)			
Calving Interval (D)	465	560	

D1. Results of Technologies Refined : Nil

3. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

				Details of		tal spread of te	
Sr. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	- mathana chiadactan		No. of farmers	Area in ha
FLDs o	of KVK						
Cereal	crops						
1	Paddy (NAUR – 1)	ICM	New variety	FLDs	4	20	8
2	Paddy (GNR – 3)	ICM	New variety	FLDs	3	20	8
3	Paddy (GAR –13)	ICM	New variety	FLDs	2	10	4
4	Paddy (Purna)	ICM	New variety	FLDs	3	10	4
5	Paddy	IPDM	New variety	FLDs	3	20	8
Pulses	and oilseeds	•	·			•	
1	Cotton (G cot-12)	ICM	New variety	FLDs	2	10	4
Hortic	ulture crops						
1	Okra (GJO-3)	ICM	New variety	FLDs	4	10	4
2	Banana	INM	INM	FLDs	4	20	8
3	Banana	IPDM	IPDM	FLDs	3	20	8
4	Pointed Gourd	INM	INM	FLDs	2	10	4
5	Pointed Gourd	IPDM	IPDM	FLDs	2	10	4
6	Vegetable crops	Kitchen Garden	Seeds	FLDs	4	20	20 kit

Anima	l Husbandry						
1	Cow	HF cross	Nutritional Management	FLDs	5	20	
2	Calf		Nutritional Management	FLDs	5	20	
Home	Science		·	·			
1	Sickle	Drudgery deduction	Labour saving	FLDs	4	30	
2	Wheel hoe	Drudgery deduction	Labour saving	FLDs	2	15	
FLDs (of Other Agency		·	·			
Crop p	roduction						
NFSM							
1	Udad Bean	ICM	Variety	FLDs	12	93	20
2	Gram	ICM	Variety	FLDs	10	100	20
3	Greengram	ICM	Variety	FLDs	8	40	20
NMO()P						
1	Soyabean	ICM	Variety	FLDs	4	74	20
2	Sesame	ICM	Variety	FLDs	6	50	20
TSP -	ICAR (Mega Seed)					
1	Indian Bean (NPS 1)	ICM	Seed	FLDs	5	25	2
Adapt	ive Trials						
1	Okra (GAO 5)	Variety	New variety	FLDs	2	10	4
2	Banana	IPDM and INM	IPDM and INM	FLDs	6	50	20
3	Pointed Gourd	IPDM and INM	IPDM and INM	FLDs	8	50	20
4	Pigeon pea	IDM	IDM	FLDs	4	20	8
5	Brinjal	IPDM and IPDM and INM INM		FLDs	6	50	20

6	Paddy	IPDM	IPDM	FLDs	5	30	20
7	Castor NCH 1	Variety	New variety	FLDs	6	12	2
8	Suruchi Sickle	Drudgery Reduction	-	FLDs	9	110	
9	Twin Wheel Hoe	Drudgery Reduction	-	FLDs	8	65	
10	Cow	Animal Feeding Management	Mineral mixture + Deworming Tablets	FLDs	16	200	
11	Okra	IPDM	IPDM	FLDs	4	25	

B. Details of FLDs implemented during 2017-18 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	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
				FLDs o	f KVK					
Cere	al crops									
1	Paddy (NAUR –1)	ICM	New variety	Kharif -17	5	5	12	0	12	
2	Paddy (GNR – 3)	ICM	New variety	Kharif -17	5	5	12	0	12	
3	Paddy (GAR –13)	ICM	New variety	Kharif -17	5	5	12	0	12	
4	Paddy (Purna)	ICM	New variety	Kharif -17	5	5	12	0	12	
5	Paddy	IPDM	New variety	Kharif -17	4	4	10	0	10	
6	Paddy (GNRH-1)	ICM	New variety	Kharif -17	5	5	12	0	12	

Othe	er crops									
1	Cotton (G cot-10)	ICM	New variety	Kharif -17	4	4	10	0	10	
Oilse	eed and Pulses	crops			•					
1	Pigeonpea (BDN 711)	ICM	New variety	Kharif -17	5	5	12	0	12	
2	Green gram (Meha)	ICM	New variety	Summer -18	5	5	12	0	12	
3	Soybean (NRC 37)	ICM	New variety	Kharif -17	5	5	12	0	12	
4	Soybean (JS 335)	ICM	New variety	Kharif -17	5	5	12	0	12	
Hort	ticulture crops	1			1				l	
1	Banana	INM	INM	Kharif -17	4	4	0	10	10	
2	Banana	IPDM	IPDM	Kharif -17	4	4	0	10	10	
3	Brinjal	INM	INM	Rabi -17	4	4	0	10	10	
4	Brinjal	IPDM	IPDM	Kharif -17	4	4	0	10	10	
5	Pointed Gourd	INM	INM	Kharif -17	4	4	0	10	10	
6	Pointed Gourd	IPDM	IPDM	Kharif -17	4	4	0	10	10	
7	Vegetable crops	Kitchen Garden	Seeds	Rabi-17	20 kit	20 kit	20	0	20	
8	Okra	IPDM		Summer-18	4	4	10	0	10	
9	Mango	IPM		Summer-18	4	4	10	0	10	
Anir	nal Husbandry									
1	Cow HF	Nutritional Management	Mineral Mixture + Deworming Tab		20	20	20	0	20	
2	Calf	Nutritional Management	Concentrate + MM + dewormin		20	20	20	0	20	

3	Cow HF	Disease Management	Mastitis prevention antibacterial		20	20	20	0	20	
4	Cow /	Disease	Spray Ectoparasitic		20	20	20	0	20	
	Buffalo	Management	infestation Treatment		20	20	20	· ·	20	
Hom	e Science		1	- 1	1	•				
1	Wheel hoe	Drudgery deduction	Labour saving	Kharif-17	10	10	10	0	10	
FLD	s of Other Age	ency								
Crop	production									
NFS	M									
1	Gram	ICM	New variety	Rabi -17	30	30	75	0	75	
2	Greengram	ICM	New variety	Summer- 18	30	30	75	0	75	
NMO	OOP									
1	Soyabean	ICM	New variety	Kharif -17	30	30	75	0	75	
2	Sesame	ICM	New variety	Summer -18	30	30	75	0	75	
3	Groundnut	ICM	New variety	Summer- 18	30	30	75	0	75	
TSP	- ICAR (Mega	a Seed)								
1	Indian Bean (NPS 1)	ICM	Seed	<i>Rabi</i> – 17	2	2	25	0	25	-
Ada	ptive Trials									
1	Paddy (NAUR – 1)	ICM	New variety	Kharif -17	20	20	50	0	50	
2	Paddy (GNR – 3)	ICM	New variety	Kharif -17	124	124	310	0	310	
3	Paddy (GAR –13)	ICM	New variety	Kharif -17	3.2	3.2	8	0	8	
4	Paddy (GNR-6)	ICM	New variety	Kharif -17	8	8	20	0	20	

5	Soybean (NRC-37)	ICM	New Variety	Kharif-17	18.4	18.4	46	0	46	
6	Pigeon pea (GNP-2)	ICM	New variety	Kharif-17	18.4	18.4	46	0	46	
7	Sugarcane (CoN13073)	ICM	New Variety	Rabi-17	1.6	0	4	0	4	
8	Green gram (GM-6)	ICM	New Variety	Summer-18	4	4	10	0	10	
9	Green gram (Meha)	ICM	New Variety	Summer-18	17.6	17.6	44	0	44	
10	Green gram	ICM	New Variety	Summer-18	40	40	100	0	100	
11	Brinjal	INM	INM	Rabi-17	8	8	20	0	20	
12	Indian Bean	NPS-1	New variety	Rabi-17	2.5	2.5	12	0	12	
13	Banana	Grand Naine	INM	Kharif-17	8	8	0	20	20	
14	Pointed gourd	Local	INM	Kharif-17	12	12	30	0	30	
15	Drumstick Seedlings	PKM-1	Seedlings	Kharif-17			150	0	150	
16	Brinjal Seedlings	Hybrid	Seedlings	Kharif-17	7.5	7.5	30	0	30	
17	Banana	Grand Naine	IPDM	Kharif-17	8	8	0	20	20	
18	Brinjal	IPDM	IPDM	Rabi-17	10	10	25	0	25	
19	Pointed gourd	Local	IPDM	Kharif-17	12	12	30	0	30	
20	Paddy	IPDM	IPDM	Kharif-17	12	12	30	0	30	
21	Okra	IPDM	IPDM	Summer-18	10	10	25	0	25	
22	Cow HF	Nutritional Management	Mineral Mixture + Deworming Tab	Rabi-17			100	0	100	

23	Cow /	Disease	Ectoparasitic	Rabi-17			50	0	50	
	Buffalo	Management	infestation Treatment							
24	Maize Fodder	Fodder Management	African tall	Rabi-17		5	50	0	50	
25	Bajara Fodder	Fodder Management	Multi cutting Fodder Sundhiyu	Rabi-17		2.5	20	0	20	
26	Wheel hoe	Drudgery deduction	Labour saving	Rabi-17			30	0	30	
27	Vegetable Plastic crates	Reduce post harvest losses	Plastic crates	Rabi-17			50	0	50	
28	Kitchen garden	Nutrition management	Vegetable seedlings & seeds	Rabi-17			50	0	50	
			Гotal		692.2	698.1	2018	100	2118	

Technical Feedback on the demonstrated technologies

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20	Calf (1 M)	Calf / Nutritional	1.	Increase the growth rate
		Management	2.	Reduced the parasitic problems
			3.	Improve health condition
21	Cow - HF	Anti Parasitic	1.	Reduce Parasitic Infestation
	Cross	solution	2.	Reduce Skin Problems
		application on		
		back of animals		
22	Cow- all	Nutritional	1.	Increase milk production
	Breed	management	2.	Increase fat percentage
			3.	Reduce Infertility problems
23	Twin	Drudgery	1.	Reduced the labour cost
	Wheel	reduction	2.	Improved the work efficiency
	Hoe		3.	Time saving by increase work efficiency

General feed back of the Farmers'/Scientists:

- 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.
- 2. IPDM module for the management of Banana pseudo stem and wilt should be developing.
- 3. 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

Sr · N o	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days				
	Ground nut	1	29/04/2017	40	
	Soybean (NRC-37)	1	15/09/2017	60	
	Paddy (NAUR-1)	1	27/09/2017	35	
	Soybean	1	27/09/2017	31	
	Chick pea (GG-3)	1	21/02/2018	38	
2	Farmers Train	ing			
	Plant Protection	4	16/06/207, 19/06/2017, 11/08/2017,06/02/2018	95	
	Horticulture	3	23/01/2018, 04/02/2018, 05/02/2018	57	
	Agronomy	2	19/06/2017, 21/06/2017	47	
	Animal Science	4	20/1/2018, 1/2/2018, 2/2/2018, 24/2/2018	95	
	Home Science	2	11/10/2017, 29/01/2018	34	

B. Front Line Demonstrations conducted in 2017-18

Sr.	Crop	Technology	Variety	No. of	Area	Season	Dem	o. Yield (tl/ha	Yield	Increase	Data	on	
No		Demonstrated		Farmers	(ha.)					of local	in yield		technology	
									Check		demonstrate			
							H	L	A	Qtl./ha		Demo	Local	
Cere	eal Crops													
1	Paddy	ICM	GNR-3	12	5	Kharif-17	53.80	48.85	51.25	45.95	11.53	2.44	2.08	
2	Paddy	ICM	GNRH-1	12	5	Kharif-17	48.20	31.25	43.50	41.40	5.07	1.97	1.76	
3	Paddy	ICM	GAR-13	12	5	Kharif-17	51.75	37.45	43.65	40.85	6.85	3.24	2.97	
4	Paddy	ICM	NAUR- 1	12	5	Kharif-17	53.45	36.90	42.15	38.25	10.20	2.05	1.69	
5	Paddy	ICM	Purna	12	5	Kharif-17	27.35	21.50	23.65	21.85	8.24	1.20	1.08	
6	Paddy	IPDM		10	4	Kharif-17	41.20	36.65	37.55	31.50	19.21	2.42	2.21	
Puls	es and Oilsee	ds												
7	Soybean	ICM	JS-335	12	5	Kharif-17	13.70	9.75	10.35	8.95	15.64	1.68	1.33	
8	Soybean	ICM	NRC-37	12	5	Kharif-17	19.25	15.20	17.65	12.75	38.43	3.00	1.97	
9	Pigeon Pea	ICM	BDN- 711	12	5	Kharif-17	13.80	10.85	11.75	10.80	8.80	3.13	2.57	
10	Cotton	ICM	Hybrid- 10	12	5	Kharif-17	19.45	16.35	19.30	18.35	5.18	2.03	1.86	
Hor	ticultural Cro	ps												
1	Okra	Variety	GJO-3	10	4	Rabi-16	96.10	85.55	88.75	102.89	-13.74	2.718	3.004	
2	Banana	INM and IPDM	Grand Naine	4	10	Kharif-17	778.10	602.41	702.50	552.65	27.11	4.17	3.20	
3	Brinjal	INM and IPDM	Surti	4	10	Kharif-17	185.55	138.67	159.85	157.45	1.52	3.67	3.53	
4	Pointed gourd	INM and IPDM	Local	4	10	Kharif-17	182.55	151.75	165.10	130.55	26.46	2.57	2.00	
5	Mango	IPM	Fruit fly Trap	4	10	Kharif-17	82.00	65.00	62.00	59.00	5.08	3.40	3.17	

Hon	ne Science												
1	Vegetables and pulses	Drudgery reduction	Wheel hoe			Rabi-17	0.011	0.0076	44.74	88	130	1956	2918
FLD	FLDs of Other Agency												
_	p production												
NM	OOP												
1	Soybean	INM and IPDM	NRC 37	72	30	Kharif-17	19.5	15.12	17.4	12.10	43.80	2.68	1.79
2	Ground nut	ICM	TAG- 37 A	20	08	Summer-17	14.1	10.18	13.82	10.50	31.62	2.427	2.001
NFS	SM												
1	Gram	ICM	GG-3	100	40	Rabi-16	11.85	10.12	10.86	9.20	18.04	3.466	2.942
2	Green gram	ICM	Meha	50	20	Summer-17	9.85	5.82	5.72	4.65	23.01	2.357	2.029
TSP	TSP- ICAR (Mega Seed)												
1	Indian Bean	New Variety	NPS-1	10	04	Rabi-16	32.55	26.82	28.22	22.85	23.50	3.087	2.806

Economic impact continuation of previous table

Demonstrati	Average Cost	of cultivation	Average Gr	oss Return	Average Net Return I		Benefit-Cost Ratio (Gross	
on	(Rs./	ha)	(Rs./ha)		(Profit) (Rs./	ha) F	eturn / Gross	s Cost)
	Demo.	Local Check	Demo.	Local	Demo.	Local	Demo	Local
				Check		Check	•	Check
Cereal crops								
Paddy	27300	28750	66625	59735	39325	3098	35 2.44	2.08
Paddy	28700	30500	56550	53820	27850	2332	0 1.97	1.76
Paddy	28300	28900	91665	85785	63365	5688	3.24	2.97
Paddy	26700	29400	54795	49725	28095	2032	2.05	1.69
Paddy	25700	26300	30745	28405	5045	210	1.20	1.08
Paddy	31000	28500	75100	63000	44100	3450	0 2.42	2.21

Pulses and Oil see	eds							
Soybean	14500	15800	24323	21033	9823	5233	1.68	1.33
Soybean	15000	16500	45008	32513	30008	16013	3.00	1.97
Pigeon Pea	15000	16800	47000	43200	32000	26400	3.13	2.57
Cotton	38000	39500	77200	73400	39200	33900	2.03	1.86
Horticultural Cro	pps							
Okra	52250	54800	142000	164624	89750	109824	2.718	3.004
Banana	101140	103500	421500	331590	320360	228090	4.17	3.20
Brinjal	52200	53500	191820	188940	139620	135440	3.67	3.53
Pointed gourd	141000	143500	363220	287210	222220	143710	2.57	2.00
Mango	26910	27500	102687.5	96862.6	75777.5	69362.6	3.40	3.17
FLDs of Other Ag	gency							
Crop production								
NMOOP								
Soybean	16200	16900	43475	30250	27275	13350	2.68	1.79
Ground nut	24200	22300	58735	44625	34535	22325	2.427	2.001
NFSM								
Gram	18800	17200	65160	50600	46360	33400	3.466	2.942
Green gram	12500	11800	29458	23947.5	16958	12147.5	2.357	2.029
TSP- ICAR (Meg	a Seed)							
Indian Bean	32000	28500	98770	79975	66770	51475	3.087	2.806

Use of mineral mixture + De-worming:

Categor	Themati	Name of the	No. of	No.	Major Pa	rameters	% change
y	c area	Technology	Farme	of	Demo.	Check	in major
		Demonstrate	r	Unit			parameter
		d		S			
Cow	Nutrition	Mineral	20	20	Avg. milk	Avg.	13.30
	Manage	Mixture			yield	milk	
	ment	40 mg per			(L/Day)	yield	
		Day and De-				(L/Day)	
		worming 3			9.92 (20)	8.60 (10)	
		g Tablet			Service	Service	34
					Period	Period	
					(Days)	(Days)	
					102 (19)	156 (8)	

Feed back: Use of mineral mixture increase milk production and reduced service periods and sometimes resolved reproductive problems also.

Prevention of mastitis by teat Spray:

Categor y	Themati c area	Name of the Technology	No. of Farme	No. of	Major Para	meters	% change
		Demonstrat ed	r	Unit s	Demonstrati on Check		in major paramet er
Cow	Preventi	Mastitis	20	20	No. of	No. of	50%
	ve	prevention			Incidence	Incidenc	reduction
	Measure	by Teat				e	of cases
	S	Spray			5 (20)	4(10)	
		Visprayk [®]					

Prevention of Ectoparasite:

Catego ry	Thematic area	Name of the Technology	No. of Farme	No. of	Major Para	meters	% change
		Demonstrat ed	r	Unit s	Demonstrati on	Check	in major paramet er
Cow	Preventio n /	Parasites prevention	20	20	No. of Incidence	No. of Inciden	66% reduction
	Treatment	by Liquid				ce	of cases
	of	application			2 (20)	6(10)	
	Ectoparasi te	on back of animal Poron [®]					

Scientific calf rearing:

Parameters	De-worming + calf D	Oan up to six months	Farmers method		
	3 Month	3 Month	6 Month		
Calf No.	2	10			
Av. Body Wt. (Kg)	61.95±5.3	86.6±4.19	52.7±6.9	73.9±6.9	
% Increase	14.9	14.66	-	_	

Feed back

Sr. No.	Technology	Animals	Feedback reported
1	Mineral Mixture	Cow	Increase the milk yieldReduce service period
2	Teat spray Antiseptic Solution	Cow	Reduce mastitis cases
3	Ectoparasitic solution application on back of animals	Cow	Reduce parasitic infestation
4	De-worming and Dan to calf	Calf	 Increase the growth rate Reduced the parasitic problems Improve health condition

FLD on Fisheries: Nil

FLD on Other enterprises: Nil

FLD on Women Empowerment

1. FLD on Use of Wheel Hoe for weeding to reduce women drudgery

Crop	Thematic area	Name of the Technology Demonstrat	No. of Farmer	Major Parameters	Field observation Output/Man hr) (ha/hr)		Output/Man hr) (ha/hr) in major paramete r during weeding (Man-hr/ha)		utput/Man hr) in major during weeding reconstruction (ha/hr) paramete r (Man-hr/ha) (R		reduc	ost tion** a/day)
		ed			Demo.	Check		Demo	Check	Demo	Check	
Vegeta bles & Pulses	Drudgery reduction	Twin Wheel Hoe*	10	1.Field capacity(ha/hr) 2.Labour requiment(Man hr/ha) 3.Cost of operation	0.012 (0.097ha/da y)	0.0084 (0.067ha/ day)	42.85	83	120	1835	2657	

^{*}Twin wheel hoe technology recommended by CIAE, Bhopal-MP

Feed back:

- 1. Reduced the labour cost and Time saving
- 2. Increase the work efficiency

^{**}Cost of operation is calculated as per NAU labour wages

FLD on Other Enterprise: Kitchen Gardening 2. Result of FLD on Kitchen Gardening:

No. of Demonstration: 50 Area: 1 Guntha/demo.

Season: Rabi-2017

Name of		Crop yield (Kg.) per demonstration												
Enterprise	Chilli	Cabbage	Brinjal	Cauliflower	Cow	Indian	Okra	Tur						
					pea	Bean								
1	2	3	4	5	6	7	8	9						
Kitchen	2.3	7.8	16.4	8.0	3.2	5.8	11.5	6.9						
Garden		Ī	ĺ			ĺ								

Crop yie	Crop yield (Kg.) per demonstration				Average	Gross return (Rs.)			
Tomato	Radish	Spinach	Bottle	Production			After FLD		
			gourd	(Kg.)	(Rs./Kg)	FLD			
10	11	12	13	14	15	16	17		
3.5	5.6	3.2	7.0	81.20	30	950	2436		
							along with		
							Domestic		
							consumption		

Feed Back:

- 1. Kitchen gardening gives continuous supply of fresh vegetables at lower cost.
- 2. Farm women can utilize maximum backyard space and waste water.
- 3. Income is generated by selling extra vegetables grown in kitchen garden.
- 4. Farm women are not applying any pesticides, so they produce organic vegetables in kitchen gardening.

FLD on Demonstration details on crop hybrids: Nil

3.4. Training Programmes Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of									
	courses		Others SC/ST					G	rand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	3	0	0	0	61	5	66	61	5	66
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	3	0	0	0	61	5	66	61	5	66
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising	2	35	19	54	0	0	0	35	19	54
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	7	18	25	0	0	0	7	18	25
Others (pl specify)										

Total (a)	3	42	35	79	0	0	0	42	35	79
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 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)	3	42	35	79	0	0	0	42	35	79
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	2	8	35	43	7	10	17	15	45	60
Disease Management										
Feed & fodder technology	1	0	0	0	0	19	19	0	19	19
Production of quality animal products										

Others (pl specify)										
Total	3	8	35	43	7	29	36	15	64	79
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition										
gardening	1	0	0	0	0	20	20	0	20	20
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										
Storage loss minimization techniques										
Value addition	1	0	21	21	0	0	0	0	21	21
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	1	0	20	20	0	0	0	0	20	20
Others (pl specify)										
Total	3	0	41	41	0	20	20	0	61	61
VII Plant Protection										
Integrated Pest Management	1	33	13	46	0	0	0	33	13	46
Integrated Disease Management	1	0	0	0	24	1	25	24	1	25
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides	1	31	0	31	0	0	0	31	0	31
Store grain pest and their management										
Total	3	64	13	77	24	1	25	88	14	102
GRAND TOTAL	15	114	124	240	92	55	147	206	179	387

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of		Participants	
	courses	Others	SC/ST	Grand Total

		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production	2	0	0	0	38	3	41	38	3	41
Weed Management										
Resource Conservation Technologies										
Cropping Systems	1	0	0	0	22	5	27	22	5	27
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	3	0	0	0	60	8	68	60	8	68
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables	2	0	0	0	14	24	38	14	24	38
Nursery raising	1	0	0	0	0	17	17	0	17	17
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	3	0	0	0	14	41	55	14	41	55
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 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)	3	0	0	0	14	41	55	14	41	55
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	3	0	0	0	112	58	170	112	58	170
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	0	0	0	28	0	28	28	0	28
Disease Management										
Feed & fodder technology	1	0	0	0	20	0	20	20	0	20
Production of quality animal products	1	0	0	0	9	4	13	9	4	13
Others (pl specify)										
Total	6	0	0	0	169	62	231	169	62	231
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition	1	0	0	0	17	15	32	17	15	32
gardening	1	U	U	U	1/	13	32	1/	13	32

Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1	0	0	0	4	22	26	4	22	26
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs	1	0	0	0	0	10	10	0	10	10
Storage loss minimization techniques										
Value addition	2	0	38	38	1	25	26	1	63	64
Women empowerment										
Location specific drudgery reduction technologies	1	0	0	0	0	24	24	0	24	24
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	6	0	38	38	22	96	118	22	134	156
VII Plant Protection										
Integrated Pest Management	1	0	0	0	2	32	34	2	32	34
Integrated Disease Management	1	0	0	0	20	5	25	20	5	25
Bio-control of pests and diseases	1	0	0	0	28	5	28	28	5	28
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	3	0	0	0	50	42	87	50	42	87
GRAND TOTAL	21	0	38	38	315	249	559	315	287	597

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

Thematic area	No. of	*								
	courses	courses Others SC/ST			G	rand Tot	al			
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	5	0	0	0	99	8	107	99	8	107
Resource Conservation Technologies										
Cropping Systems	1	0	0	0	22	5	27	22	5	27

Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	6	0	0	0	121	13	134	121	13	134
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables	2	0	0	0	14	24	38	14	24	38
Nursery raising	3	35	19	54	0	17	17	35	36	71
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	7	18	25	0	0	0	7	18	25
Others (pl specify)										
Total (a)	6	42	35	79	14	41	55	56	78	134
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 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)	6	42	35	79	14	41	55	56	78	134

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	3	0	0	0	112	58	170	112	58	170
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	3	8	35	43	35	10	45	43	45	88
Disease Management										
Feed & fodder technology	2	0	0	0	20	19	39	20	19	39
Production of quality animal products	1	0	0	0	9	4	13	9	4	13
Others (pl specify)										
Total	9	8	35	43	176	91	267	184	126	310
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition										
gardening	2	0	0	0	17	35	52	17	35	52
Design and development of low/minimum cost diet	1	0	0	0	4	22	26	4	22	26
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs	1	0	0	0	0	10	10	0	10	10

Storage loss minimization techniques										
Value addition	3	0	59	59	1	25	26	1	84	85
Women empowerment										
Location specific drudgery reduction technologies	1	0	0	0	0	24	24	0	24	24
Rural Crafts										
Women and child care	1	0	20	20	0	0	0	0	20	20
Others (pl specify)										
Total	9	0	79	79	22	116	138	22	195	217
VII Plant Protection										
Integrated Pest Management	2	33	13	46	2	32	34	35	45	80
Integrated Disease Management	2	0	0	0	44	6	50	44	6	50
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides	2	31	0	31	28	5	28	59	5	59
Others (pl specify)										
Total	6	64	13	77	74	43	112	138	56	189
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	36	114	162	278	407	304	706	521	466	984

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

	N C				No. of	Participa	nts			
Area of training	No. of		General			SC/ST		G	Frand Tot	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-composting	1	0	15	15	0	5	5	0	20	20
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										

Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	1	0	15	15	0	5	5	0	20	20

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

	N C				No. of	Participa	ants			
Area of training	No. of Courses		General			SC/ST		G	rand Tot	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	1	0	0	0	36	70	106	36	70	106
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology		·								

Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	1	0	0	0	36	70	106	36	70	106

$Training\ for\ Rural\ Youths\ including\ sponsored\ training\ programmes-CONSOLIDATED\ (On+Off\ campus)$

	No. of				No. of	Participa	nts			
Area of training	Courses	(General			SC/ST		G	rand Tot	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-composting	1	0	15	15	0	5	5	0	20	20
Mushroom Production										
Bee-keeping	1	0	0	0	36	70	106	36	70	106
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
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	0	15	15	36	75	111	36	90	126

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

	No. of				No. o	of Particip	oants			
Area of training	Courses		General			SC/ST		(Frand Total	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	37	6	43	30	14	44	67	20	87
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
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	1	37	6	43	30	14	44	67	20	87

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

	No. of	No. of Participants									
Area of training	Courses	General		SC/ST			Grand Total				
		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	1	0	0	0	0	130	130	0	130	130
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	1	0	0	0	0	130	130	0	130	130

$Training\ programmes\ for\ Extension\ Personnel\ including\ sponsored\ training\ -\ CONSOLIDATED\ (On\ +\ Off\ campus)$

	No. of				No. o	of Particip	oants			
Area of training	Courses	General				SC/ST		Grand Total		al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	37	6	43	30	14	44	67	20	87
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	130	130	0	130	130

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	2	37	6	43	30	144	174	67	150	217

Sponsored training programmes

Sponsored training programmes	No. of				No. o	f Participa	nts			
Area of training	Courses		General			SC/ST			Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	2	107	00	107	0	0	0	107	00	107
Commercial production of vegetables	2	8	24	32	0	0	0	8	24	32
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	4	115	24	139	0	0	0	115	24	139
Post harvest technology and value addition										
Processing and value addition	1	00	45	45	0	0	0	00	45	45
Others (pl. specify)				·						

Total	1	00	45	45	0	0	0	00	45	45
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management	2	40	40	80	0	0	0	40	40	80
Animal Nutrition Management	1	63	00	63	0	0	0	63	00	63
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total	3	103	40	143	0	0	0	103	40	143
Home Science										
Household nutritional security	1	25	18	43	0	0	0	25	18	43
Economic empowerment of women	3	0	0	0	00	147	147	00	147	147
Drudgery reduction of women										
Others (pl. specify)										
Total	4	25	18	43	00	147	147	25	165	190
Agricultural Extension										
CapacityBuilding and Group Dynamics	3	98	30	128	0	0	0	98	30	128
Others (pl. specify)										
Total	3	98	30	128	0	0	0	98	30	128
GRAND TOTAL	15	341	157	498	00	147	147	341	304	645

3.5. Extension Programmes

Activities	No. of		5	
	programmes	No. of Male farmers	No. of Female Farmers	Total
Advisory Services	2092	1475	617	2092
Diagnostic visits	73	117	43	160
Field Day	5	175	132	307
Group Meetings	34	507	290	797
Kisan Ghosthi	14	1660	716	2376
Film Show	66	1157	1108	2265
Self -help groups	2	38	0	38
Kisan Mela	1	2100	400	2500
Exhibition participation	2	3200	1850	5550
Scientists' visit to farmers field	218	439	186	625
Farmers visit to KVK	337	221	116	337
Animal health camps	2	54 animals	0	54 animals
Pashupalan Shibir	5	1198	44	1242
Method Demonstrations	12	252	255	507
Celebration of Special day	10	351	755	1106
Exposure visit	2	11	32	43
Pre Kharif Campaign	1	340	16	356
MRS Students Kendra Nivas at KVK-Surat	1	-	-	3
RAWE Students at KVK-Surat	1	-	-	20
Farmers day	1	37	68	105
Mahila Sibir	3	6	210	216
Lectures delivered as resource persons	38	1937	1170	3107
Total	2920	15221	8008	23752

Details of other extension programmes

Particulars		Number
Electronic Media (CD./DVD)		0
Extension Literature		18
News paper coverage		31
Popular articles		8
Radio Talks		2
TV Talks		1
Others (pl. specify)	_	0
	Total	60

3.6. 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	-	118.75	346750	950
Oilseeds						
Pulses	Green- gram	CO-4	-	4.93	49300	55
	Green- gram	GAM-5	-	10.50	94500	13
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others	Paddy Straw	"		171	60150	
Total				305.18	5,50,700	1018

Production of planting materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial	_		Ţ.			
Vegetable seedlings	Drumstick	PKM-1		3000	60000	150
	Tomato	-	Abhinav	23000	23000	40
	Brinjal	-	Sungrow- 143	7000	7000	35
	Chilli	-	VNR-277	5000	5000	25
	Brinjal	-	Palitana Hybrid	90000	90000	30
Fruits			J			
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total				1,28,000	1,85,000	280

Production of Bio-Products

Production of Bio products

Bio Products	Name of the bio- product	Quantity Kg		No. of Farmers
Bio Fertilisers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
Total	0	0	0	0

Production of livestock materials

	Name of the	Number	Value (Rs.)	No. of
Particulars of Live stock	breed			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.): Nil

B. Literature developed/published

Research papers:

- **H.C. Parmar,** J.J. Pastagia and J.K. Movaliya (2017). Effect of urea treated local grass-'Bhathdu' (Themeda Cymbaria) on milk production of crossbreed cows. Int. J. Sci. Environ.and Tech.6(2):1327-1334.
- J.M. Patel, M.C. Prasad, P.D. Vihol, I.H. Kalyani, M.G. Prajapati, **H.C. Parmar**, R.D. Variya and K.M. Patel (2017). Seroprevalence of *Leptospira hardjo* in Cattle of Gujarat, India. *Int. J. Microbiol. App. Sci.*, 6(11): 1304-1310.
- **Bhakti B. Panchal,** Gurjar, Tulsi D., Kalaria, V. D. and Patel, N. B. (2017). Study of Heterosis Breeding for Processing Characters in Tomato (*Solanum lycopersicum L.*). *Int. J. Pure App. Biosci.* 5(4): 592-600.
- **Bhakti B. Panchal,** N. B. Patel, A. I. Patel and **S. K. Chawda** (2017). Genetic studies for productivity and its related traits in tomato (*Solanum lycopersicum L.*). *Int. J. Chem. Stud.*, 5(6): 2116-2121

Popular articles:

- **1.** Bhakti B. Panchal, Geetaben Bhimani, S. K. Chawda and J.H. Rathod (2017). Physiology and Biochemistry of Fruit Development. *Biotecharticle*: 1-4.
- **2.** Geetaben J. Bhimani and Bhakti B. Panchal (2017). Aharma Katholni Agatyata, Krushivigyan:26.
- **3.** Panchal Bhakti B. and Bhanderi D. R. (2017). Post harvest management of onion: *Biotecharticle*: 1-3
- **4.** Geetaben J. Bhimani and Bhakti B. Panchal (2017). Ahar Ayojan for Diabetes, Krushivigyan, Febeuary,16
- 5. Geetaben J. Bhimani (2017). Kharekhma mulya vardhan, Krushivigyan, August, 17
- **6.** J. K. Movaliya, P. D. Verma, H. C. Parmar (2017). Dudhada Pasuoma 21 mi Sadi no Vaighanik Abhiyan. Vikaspedia.
- **7.** J. K. Movaliya, P. D. Verma, H. C. Parmar (2017). Dairy Farm ma Kharch Ma Ghatado Karvani Tips. Vikaspedia
- **8.** K. Movaliya, P. D. Verma, H. C. Parmar (2017). Dudhada Pasuoma 21 mi Sadi no Vaighanik Abhiyan. Krishijivan, 7: 27-29.

Item	Title	Authors name	Number
Research papers			4
Technical reports	ZREAC Report (<i>Rabi, Kharif</i>), AGRESCO, SAC, Annual Action	KVK, Surat	6
	Plan, Annual Progress Report		
News letters			
Technical bulletins			
Popular articles		Scientist, KVK,Surat	8
Extension	Folder	Scientist,	19

literature	KVK,Surat	
Others (Pl.	 	
specify)		
TOTAL	 	37

C. Details of Electronic Media Produced

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

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

1. Successful leadership by tribal woman

- 1. Name: Mrs. Nishaben Shaileshbhai Chaudhari
- 2. Father's Name: Jivanbhai chhagenbhai Chaudhari
- 3. Address of correspondence: At; Village: Parvat, Post: Regama,

Ta.Mandvi,Dist. Surat.

- 4. Mobile No.: 9664713835, Adhar No.: 5843 2560 9595
- 6. Area of innovation: Mix farming
- 7. Innovations developed:
- a. Participated in Rakhi making training programme organized by Baroda Swarojgar Vikas Sansthan.
- b. Appreciation award from National Livelihood Mission.
- c. Working as a Village President for Reliance Foundation.
- d. Appreciation award from Mission Mangalam Yojna.
- 8. Innovations adopted in Farming (List only)

Nishaben Chaudhari is a farmer of Surat district. She has started her farming from 2005. She has 2 acres of land. She is associated with KVK and other government agencies of the district. Earlier she was doing sole like paddy, soybean, brinjal and pigeonpea without any integration of the farming system. After trainings and other motivational guidance, she started vermicompost unit at her farm with the help of TSP. From this, she produced 4 tonnes of vermicompost/1 cycle which gave 90000 Rs./year. After seeing her success, other 12 farmers also started vermicompost units at their home. As she is having back yard space, she made a Gangama model of kitchen garden organically. At present She has 5 milching animals. From which she earn nearly 55000 Rs. annually. She is also doing other crops paddy and Soydean which gave her 100000 Rs. Thus totally she earn nearly 242000 Rs/year and also good health by taking organic vegetables.

9. Activity wise income, cost-benefit ratio, gross and net income year-wise (previous five years):

S No.	Year	Area (Ha.)	Crop	Production (in kg)	Gross income(Rs.)	Net income (Rs.)
1	2013-14	1	Paddy & Pigeon	3500	72000	49000
			pea			
2	2014-15	1	Paddy & Pigeon	3650	75000	58000

			pea			
3	2015-16	1	Paddy & Pigeon	3720	77200	61000
			pea			
4	2016-17	1	Soybean & Paddy	3500	85500	67500
5	2017-18	1	Soybean &	2600	69000	58000
			Wheat			

10. The contribution of the innovator in terms of

- i. New package of practices / management strategies
- ii. Saving or resources / inputs
- iii. Breaking technology transfer barriers
- iv. Prevention of outbreak of diseases and pests
- v. Bringing about radical change in management packages/contributing record production from land, water or animals
- 11. Extent of publicity of her innovations / contributions / success story
 - 1. Participated in Rakhi making training programme organized by Baroda Swarojgar Vikas Sansthan.
 - 2. Appreciation award from National Livelihood Mission.
 - 3. Working as a Village President for Reliance Foundation.
 - 4. Appreciation award from Mission Mangalam Yojna .

2. Organic farming and value addition/processing depends on cow rearing

- 1. Name: Lataben Prarbhubhai Patel
- 2. Father's/Husband's Name: Prarbhubhai Ranchhodbhai Patel
- 3. Address of correspondence: At.&Po. Mandroi,Ta. Olpad,Dist.Surat
- 4. Mobile No.: 9375157945
- 5. Adhaar No.:5522 4155 30221
- 6. Age: 45 Yrs.
- 7. Educational Status: 12th
- 8. Occupation: Farming + Other(s)
- 9. Farm size (in ha) including leased land: 2 Ha.
- 10. Activity wise details (Annual):

(i) Field crops

S.	Crop	Variety	Area	Total Production	Productivity	Net income
No.			(ha.)	(q.)	(q/ha.)	(Rs.)
1	Paddy	GNRH-1	1	12	12	72000
2	Wheat	Tukdi	1	8	8	16000
					Total	88000

(ii) Horticulture crops

(44)	Hortical	tare crops	,			
S. No.	Crop	Variety	Area	Total	Productivity	Net income
			(ha.)	Production (q.)	(q/ha.)	(Rs.)
1	Tomato	Hybrid	1-vingha	40	160	42,000
2	Chilli	Hybrid	1-vingha	9.5	38	38,000
3	Okra	Hybrid	1-vingha	43	172	35,000
4	Parval	Hybrid	1-vingha	80	320	1,15,000
					Total	2,30,000

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(iii) Livestock

	S.	Name of	Breed	No. of	Total	Productivity (per	Net income
	No.	animal/bird		units	Production	animal/bird)	(Rs.)
Ī	1	Cow	Gir	40 cow	15,33,000	4-5 lit./day/cow	2,94,000

(iv) Processing and value addition

S.No.	Crop/Enterprise	Type and Qty. of value added product produced	Net income (Rs.)
1	Cow urine ark	120 lit./month	15000
2	Jivamrut	3000 lit./month	30000
3	Panchgavya	200 lit./month	10000
4	Dashparni ark	500 lit./month	5000
5	Phenyl	1000 lit./month	40000
6	Face pack	5 kg./month	1000
7	Hair Oil	100 lit./month	60000
		Total	1,61,000

11. Use of farm machinery/equipment

S. No	Farm machinery/equipment owned and used	Number
1	Tractor	1
2	Ark filter machine	1
3	Chaff cutter	1

- 12. Methods of marketing of farm produce adopted/market linkages:
 - Direct consumer contact.
 - Home delivery

13. Research/Extension contact for accessing farm advisory services:

S. No.	Research institutions contacted	
1	Krishi Vigyan Kendra, Surat	
2	ATMA, Surat	
3	Agriculture / Horticulture Department, Surat	
4	DRDA, Surat	
5	SUMUL Dairy, Surat	

14. Utilisation of media to access farm news and information on improved farm technologies

S.	Media	Utilisation	If yes, details
No.		(Yes/No)	
1	News papers	Yes	Sandesh news paper
2	Farm journals	Yes	Agro sandesh magazine
3	Radio	No	
4	Television	Yes	Agriculture related programmes
5	Internet	Yes	Whatapp, Youtube, Massages etc
6	ICT/Social media	Yes	Mobile

15. Involvement in Farmer Producer Organisations (FPOs)/SHGs

S.	FPO/SHGs	Participation	If yes, details
No.		(Yes/No)	
1	SHGs	Yes	President-Nandini SHG
2	Mahila Dudh mandli -	Yes	President – Dudh mandli Mandroi
	Mandroi		
3	ATMA –FIGs Member	Yes	Member – ATMA

B. Animal Husbandry – Success story

1. Economic empowerment of tribal and land less labor through animal Husbandry

Name: Bharatbhai Devabhai patel Village: Umara (Nadi Faliya)

Age: 41 years Education: 12 std.

Size of land holding: 1.5 Vigha Motivation factor: Father

Source of information: KVK, SUMUL & Line Department

Farm Details:

Total herd strength: 9 HF cows, 2- Heifer, 2 – Female calf, 1 – Male calf.

Total Milk Production:

Rate: Rs. 27-28

Income: 35000/- per Month

Details of Progress:

In 2013 – only 2 cows with 7-8 L milk production per day.

Working as agricultural labor and income is very less.

Expenditure details:

Expenditure in year 2016-17

Sr. No.	Item	Rs.
1	Concentration	1,35,595
2	Green Fodder (Cultivation as well as purchase)	15,300
3	Dry Fodder (cultivation as well as Purchase)	12, 000
4	Miscellaneous cost	12,000
	(Animal Treatment, Utensils, Kaccha shed repairing	
	etc.)	
	Total	1,74,895

Income in year 2016-17

Sr.	Item	Rs.
No.		
1	Milk Production : Avg. production of 7 cows	5,82,120
	11 Liters per day – 2970 Liters per lactation per animal	
2	Farm Yard Manure (FYM)	18,000
	Half Manure used in own farm for cultivation	
	Total	6,00,120

Note: - He has also benefited of Heifer cow 2-3 per 2 year i.e. in income 80,000/- to 1,20,000/-

per 2 years.

Net Profit per Month

Total Income per year	Total Expenditure per year	Total Profit
6,00,125/-	1,74,895	4,25,230
Income per Month: 35,435/-		

2. Economic empowerment of tribal and land less labor through animal Husbandry

Name: Hashmukhbhai Ambubhai Chaudhari

Village: Umara (Chaudhari Faliya)

Age: 45 years Education: 10 std.

Size of land holding : 7 Vigha Motivation factor: Father

Source of information: KVK, SUMUL & Line Department

Farm Details:

Total herd strength: 6 Buffaloes, 3- Heifer buffaloes, 1 – Female buffalo calf.

Total Milk Production: 25 L per day

Rate: Rs. 32/-

Income: 20,000/- per Month

Details of Progress:

In 2012 – only 2 buffaloes with 4-5 L milk production per day.

Working as agricultural labor and income is very less.

Expenditure in year 2016-17

Sr.	Item	Rs.
No.		
1	Concentration	85,440
2	Green Fodder (Cultivation as well as purchase)	15,000
3	Dry Fodder (cultivation as well as Purchase)	10, 000
4	Miscellaneous cost	10,000
	(Animal Treatment, Utensils, Kaccha shed repairing etc.)	
	Total	1,20,440

Income in year 2016-17

Sr.	Item	Rs.
No.		
1	Milk Production : Avg. production of 5 cows	3,43,000
	7 Liters per day – 1960 Liters per lactation per animal	
2	Farm Yard Manure (FYM)	28,000
	Half Manure used in own farm for cultivation	
	Total	3,71,000

Note: - He has also benefited of Heifer cow 1-2 per 2 year i.e. in income 60,000/- to 1,00,000/- per 2 years.

Net Profit per Month

Total Income per year	Total Expenditure per year	Total Profit
3,71,000/-	1,20,440	2,50,560
Income per Month: 20,880/-		

3. Economic empowerment of tribal and land less labor through animal Husbandry

Name: Hinaben Manharbhai patel Village: Umara (Patel Faliya)

Age: 35 years Education: 10 std.

Size of land holding: 1 Vigha Motivation factor: Less Income Source of information: KVK, SUMUL & Line Department

Farm Details:

Total herd strength: 4 Cows, 1- Heifer, 2 – Female calf.

Total Milk Production: 42 L per day

Rate: Rs. 28/-

Income: 15000/- per Month

Details of Progress:

In 2014 – only 1 cow with 5-6 L milk production per day. Working as agricultural labor and income is very less.

Expenditure details:

Expenditure in year 2016-17

Sr.	Item	Rs.		
No.				
1	Concentration	1,05,000		
2	Green Fodder (Cultivation as well as purchase) 10,0			
3	Dry Fodder (cultivation as well as Purchase)	10, 000		
4	Miscellaneous cost	7,000		
	(Animal Treatment, Utensils, Kaccha shed repairing etc.)			
	Total	1,32,000		

Income in year 2016-17

Sr.	Item	Rs.	
No.			
1	Milk Production : Avg. production of 4 cows	3,02,400	
	10 Liters per day – 2700 Liters per lactation per animal		
2	Farm Yard Manure (FYM)		
	Half Manure used in own farm for cultivation		
	Total	3,22,400	

Net Profit per Month

Total Income per year	Total Expenditure per year	Total Profit
3,22,400	1,32,000	1,90,400
Income per Month: 15,866		

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

1. Technology transfer - Waste decompose method

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

Sr. No	Crop/ Enter prise	ITK Practiced	Purpose of ITK
1.	Caster	Soak seed with sour butter milk overnight to control the catter	Plant
		piller in caster crop and may be used in other crops too.	Protection
	Paddy	Removed of tips in Paddy and other seedlings to enhance	Agronomy

2.		drought tolerance and also sustained to water logging/ flowing	
		condition.	
3.	Cattle	Using smoke of Honey comb in treating post partum udder	Animal
		edema in cattle.	Science
4.	Cattle	Using hot sand cover with cloth in treating post partum udder	Animal
		edema in cattle.	Science

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 table 2.7 methodology mentioned

5.3. Field activities – Mentioned in Table No. 2.7 and 3.1 B

6. LINKAGES

A. Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage (pl. specify)
1.	ATMA	Training, Exhibitions, Best ATMA Award
		Participation
2.	Line departments (Horticulture &	Training and Sibir
	Agriculture	
3.	Animal Husbandry	Pasupalan Sibir
4.	NABARD	Trainings, FLD distribution
5.	Ambuja Cement Foundation	Trainings, Sibir, Special Day Celebration
6.	Forest	Trainings, Sibir
7.	Reliance foundation	Trainings, Sibir

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.)
Sankal se Shidhdhi programme	29/08/2017	ICAR	80000

C. Details of linkage with ATMA

a) Is ATMA implemented in your district

Yes

Sr. N	Programme	Nature of linkage
1	On campus training	Technical expertise, method demonstration.
2	Interface meeting Technical expertise by KVK staff	
3	Joint visit of ATMA villages	Diagnostic visit on farmers field
4	Kisan gosthi	Technical lectures by KVK staff
5	Lecture delivered	Technical expertise by KVK staff
6	Fair	Technical expertise by KVK staff
7	scientist farmers interaction	Technical expertise by KVK staff

D. Give details of programmes implemented under National Horticultural Mission: Nil

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
1					

E. Nature of linkage with National Fisheries Development Board: Nil

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

F. Details of linkage with RKVY: Nil

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

6. Convergence with other agencies and departments:

Sl.No.	Name of organization	Nature of Linkage (pl. specify)
1.	ATMA	Training, Exhibitions, Best ATMA Award
2.	Line departments (Horticulture & Agriculture	Training and Sibir
3.	Animal Husbandry	Pasupalan Sibir
4.	NABARD	Trainings, FLD distribution
5.	Ambuja Cement Foundation	Trainings, Sibir, Special Day Celebration
6.	Forest	Trainings, Sibir
7.	Reliance foundation	Trainings, Sibir

8. Innovator Farmer's Meet

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

9. Farmers Field School (FFS)

S.	Thematic area	Title of the FFS	Budget	Brief report
No			proposed in Rs.	
1		1		

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

S.N.	Crop	Technology	Feed back
		demonstrated	
1	Paddy	NAUR-1	3. High yielding
			4. Early maturity as compared to hybrid
			3. Good taste in rice plate/roti making as
			compare to hybrid
2	Paddy	GNR-3	4. High yielder and preferred by the
			farmers
			5. Good quality
			6. Low incidence of insect pest
3	Paddy	GAR – 13	3. Good performance as compare to GR-11
			4. Good rice quality
4	Paddy	Purna	2. Good performance as drilled paddy
5	Paddy	IPDM	4. Increase in yield by decreasing
			infestation of pest at earlier stages in
			field.
			5. Pheromone trap helps farmer to monitor
			pest in field.
			6. Low intensity of BLB in field
6	Soybean	JS – 335	3. Good performance as compare to local
			varieties.
			4. Low incidence of pest and diseases
7	Banana	IPDM & INM	1. Less incidence of wilt
			2. Less infestation of weevil in the field.
			3. Increase in yield.
8	Cotton	Hybrid-10	Good performance in Rainfed area
9	Soybean	NRC 37	5. High yielding variety
			6. Low incidence of pest and diseases
			7. Less lodging as compare to local variety.
			8. Low loss at harvesting stage due to hairy
10	C 1	TFC 27 A	structure on pod.
10	Groundnut	TG 37 A	3. Higher in yield
11	D	IDDM 0 INM	4. Low incidence of pest and diseases
11	Parvar	IPDM & INM	1. Less incidence of wilt
12	Indian bean	NPS 1	2. Good performance as intercrop with
1.2	D:	DDM711	sugarcane
13	Pigeon pea	BDN711	3. Increase in yield and less incidence of
			wilt A Reduce the cost of cultivation by
			4. Reduce the cost of cultivation by
1.4	Castor	NCH 1	lowering the use of pesticide
14			2. Less infestation of pest and diseases
15	Okra	ICM- GJO-3	2. Lower yield as compare to hybrid
16	Gram	ICM	2. Bold size seed, low infestation of pest
			and diseases.
17	Green gram	ICM	2. Bold size seed, mosaic resistant

18	Sesame	ICM	1. Higher in yield as compare to local
			variety.
19	Cow - HF Cross	Antibacterial	2. Reduce mastitis cases
		Udder Spray	
20	Calf (1 M)	Calf / Nutritional	4. Increase the growth rate
		Management	5. Reduced the parasitic problems
			6. Improve health condition
21	Cow - HF Cross	Anti Parasitic	3. Reduce Parasitic Infestation
		solution	4. Reduce Skin Problems
		application on	
		back of animals	
22	Cow- all Breed	Nutritional	4. Increase milk production
		management	5. Increase fat percentage
			6. Reduce Infertility problems
23	Twin Wheel Hoe	Drudgery	4. Reduced the labour cost
		reduction	5. Improved the work efficiency
			6. Time saving by increase work
			efficiency

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

- 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.
- 2. IPDM module for the management of Banana pseudo stem and wilt should be developing.
- 3. 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 2017-18- Yes

Period of observing Technology Week: From: 19/02/2018 to 24/02/2018

covered participants Official		Topic covered	Public Representative	Total	Convergence			
			ST	Other				
19/02/2018 (Mandroi)	Value Addition	Training on spices and condiments	0	38	2	Mrs.Lataben P. Patel Pramukh, Dudh Mandli, Mandroi, Mrs.Tarsilaben S. Patel Gram Panchayat Member, Mandroi	38	
19/02/2018 (Umra, Mahuva)	Cropping practices on pulses	Kishan Goshthi	21	0	0	Mr. Ghelabhai Patel, farmers representative	21	
20/02/2018 (Mahuva)	Cultivation practices of leguminous	Seminar on vegetable crops and FLD distribution	22	0	0	Mr. Ghelabhai Patel, farmers representative and Mr. Virendra Patel, Innovative farmer	22	
20/02/2018 (Mandroi)	Women empowerment	Mahila sibir	0	35	2	Mr. R.G. Jethwa Director,Baroda Swarojgar Vikas Santhan,Surat Mr.Vipul Agravat Director,DRDA,Surat	35	Baroda Swarojgar Vikas Santhan,Surat and DRDA, Surat
21/02/2018 (Ghodbar)	Production and marketing of pulses	Field day on green gram and chick pea	38	0	0	Mr. Jayantibhai, Innovative farmers	38	
22/02/2018 (Kadvidadra)	Fertilizers management	Field visit of green gram and chick pea	8	0	0	Mr. Jigar Desai, innovative Organic farmer	8	
23/02/2018 (Mandvi)	Organic farming	Seminar on doubling the farmers income	405	25	50	Dr. C. G. Dangria, VC of NAU, Navsari, Dr. K. A. Patel, ADR, NAU, Navsari, Dr. A. S. Rajput, RCOF, Nagpur,	480	Collaboration with line departments, Surat

						Mr. K.S. Patel, DAO, Surat, Mr. D. K. Padaliya, DHO, Surat, Mr. N. G. Gamit, DDE, Surat (Extension) Mr. N. K. Ghabhani, Project Director, ATMA, Bardoli		
24/02/2018	Disease	Animal	28	0	0	Pramukh, Dudh Mandli,	28	District animal
(Dhundhesa)	management of animals	treatment	(Animals)			Dhundhesa Sarpanch, Dhundhesa Dr. S N Patel, VO, Mahuva	(Animals)	husbandry department, Surat
24/02/2018 (Dhundhesa)	Dairy management	Pashupalan sibir	34	0	2	Pramukh, Dudh Mandli, Dhundhesa Sarpanch, Dhundhesa Dr. S N Patel, VO, Mahuva	34	
24/02/2018 (Bardoli)	Krishi mela	Pre-Kharif companion	2100	400	55	Mr. K.S. Patel, DAO, Surat, Mr. D. K. Padaliya, DHO, Surat, Mr. N. G. Gamit, DDE, Surat (Extension) Mr. N. K. Ghabhani, Project Director, ATMA, Bardoli	2555	ATMA, Surat FTC, Bardoli
24/02/2018 (Bardoli)	Agriculture exhibition	Pre-Kharif companion	2100	400	55	Dr. C. G. Dangria, VC of NAU, Navsari, Dr. K. A. Patel, ADR, NAU, Navsari, Dr. A. S. Rajput, RCOF, Nagpur, Mr. K.S. Patel, DAO, Surat, Mr. D. K. Padaliya, DHO, Surat, Mr. N. G. Gamit, DDE, Surat (Extension) Mr. N. K. Ghabhani, Project Director, ATMA, Bardoli	2555	ATMA, Surat, FTC, Bardoli

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

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

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

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
Total			

E. Seed distribution in drought hit states

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total				

F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total			

G. Awareness campaign

Stat e	Meetings		Gosthies Field		d days Farmers fair		Exh	Exhibition		Film show		
	No ·	No.of farme rs	No ·	No.of farme rs	No ·	No.of farme rs	No ·	No.of farme rs	No ·	No.of farme rs	No	No.of farme rs
Tot al												

13. IMPACT

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

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

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

B. Cases of large scale adoption (Please furnish detailed information for each case)

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

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2017			
May			
June	1	6291	
July			
August			
September	1	4738	
October	1	4738	
November			
December	1	4739	
January 2018			
February			
March			

Mobile Advisory Services

		Type of Messages								
Name of KVK	Message Type	Crop	Livestoc k	Weather	Marketing	Awa rene	Other enterpris	Total		
						SS	e			
Surat	Text only	6291	-	14215	-	-	-	20506		
	Voice only	-	-	-	-	-	-	-		
	Voice & Text both	-	-	-	-	-	-	-		
Total Me	ssages	1	-	3	-	-	-	4		
Total farmers Benefitted		6291	-	14215	-	-	-	20506		

15. PERFORMANCE OF INFRASTRUCTURE IN KVK: Nil

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

				Details o	of producti	on	Amou	nt (Rs.)	
Sl. No	Dem o Unit	Year of establishmen t	Are a (ha)	Variet y	Produc e	Qty ·	Cost of input s	Gross incom e	Remark s

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

	Date	Date		Details	of product	ion	Amou	nt (Rs.)		
Name of the crop	of sowin g	of harves t	Area (ha)	Variet y	Type of Produc e	Qty	Cost of input s	Gross incom e	Remark s	
Cereals										
Pulses										
Oilseeds										
Fibers										
Spices & Planta	ation crop	OS								
Floricultur										
e										
Fruits										
Vegetables										
Others (specify	')									

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

S1.	Name of	0.1	Amou	D 1		
No.	the Product	Qty	Cost of inputs	Gross income	Remarks	

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

	Name	Details of production			Amour	nt (Rs.)	
Sl.	of the		Tr. C		C . C	C	D 1
No	animal / bird /	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
	aquatics				r ····		

E. Utilization of hostel facilities: Facilities not available

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2017	-	-	-

F. Database management

S. No	Database target	Database created		
-	-	-		

G. Details on Rain Water Harvesting Structure and micro-irrigation system: Facilities not available

Amo	Expend	Details		Activities	conduct	ed		Quant	Area
unt sanct ion (Rs.)	iture (Rs.)	of infrastru cture created / micro irrigatio n system etc.	No. of Trainin g progra mmes	No. of Demonst ration s	No. of plant mater ials produ ced	Visit by farm ers (No.)	Visit by offici als (No.)	ity of water harve sted in '000 litres	irrigat ed / utiliza tion patter n

16. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Nam e of the bank	Locatio n	Branc h code	Accou nt Name	Account Number	MICR Numbe r	IFSC Number
ICAR KVK A/C	SBI	Surat	09166	Current A/c	32212880883	-	SBIN0009166
REVOVIN G FUND A/C	SBI	Surat	09166	Saving A/c	33390210202	-	SBIN0009166

B. Utilization of KVK funds during the year 2017-18 (Rs. in lakh)

S. No	Particulars	Sanctione d	Released	Expenditu re
A	Recurring Contingencies			
1	Pay & Allowances	81.51	81.51	74,24,543
2	Traveling allowances	1.70	1.70	62,043
3	Contingencies	12.82	12.82	9,60,121
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance			3,44,917
В	POL, repair of vehicles, tractor and equipments			2,38,618
C	Meals/refreshment for trainees			1,04,536
D	Training material			76,040
E	Frontline demonstration except oilseeds and pulses			1,96,010
F	On farm testing			
G	Training of extension functionaries			
Н	Maintenance of buildings			
Ι	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			

	Total (A)	96.03	96.03	84,46,707
В	Non-Recurring Contingencies			
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please			
	specify)			
4	Library			
В	Total Non Recurring			
C	REVOLVING FUND			
GR	AND TOTAL (A+B+C)	96.03	96.03	84,46,707

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2015 to March 2016	2.86	1.00	1.96	1.90
April 2016 to March 2017	1.90	2.48	2.92	1.47
April 2017 to March 2018	2.91	6.35	5.30	0.35

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

Sr. No.	Training/ Workshop/Winter School/Seminar attended	Attended by
1	Winter school on "Upstream Reproduction Technologies for Augmentation of Live Production" at IVRI, Izatnagar(UP) during Sep.,2017	Dr. H. C. Parmar, Scientist (Animal Science)
2	Winter school on "Recent Advances in Production, Protection and Processing(PPP) technologies of underutilized and exotic horticultural crops" at SKN Agril. Univ., Jobner (Rajasthan) during Nov.,2017	Dr. S. K. Chawda, Scientist (Plant Protection)
3	National seminar on "Awareness and Promotion of Dry Flower Exports and Industry in Gujarat" at NAU, Navsari during June, 2017	Prof. B. B. Panchal, Scientist (Horticulture)
4	National seminar on "Awareness and Promotion of Dry Flower Exports and Industry in Gujarat" at NAU, Navsari during June, 2017	Prof. G. J. Bhimani, Scientist (Home Science)
5	Training programme on "Proper Handling of Mini Soil Testing Machine" at Jodhpur during May,2017	Prof. B. B. Panchal, Scientist (Horticulture)
6	Workshop on "Communication Skills for Effective Extension Services" at " at NAU, Navsari during July, 2017	Prof. G. J. Bhimani, Scientist (Home Science)
7	National seminar on protected cultivation of hi-valued vegetable crops organized by NAU, Feb.,2018	Prof. B. B. Panchal, Scientist (Horticulture)
8	National seminar on protected cultivation of hi-valued vegetable crops organized by NAU, Feb.,2018	Prof. G. J. Bhimani, Scientist (Home Science)

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	36	552	466	1068
Rural youths	2	36	90	126
Extension functionaries	2	65	152	217
Sponsored Training	15	341	304	645
Vocational Training				
Total	55	994	1012	2006

2. Frontline demonstrations

Enterprise	No. ofFarmers	Area(ha)	Units/Animals
Oilseeds	12	5	
Pulses	36	15	
Cereals	70	24	
Vegetables	80	32	
Other crops	10	4	
Hybrid crops	0	0	
Total	208	80	
Livestock & Fisheries	80		80
Other enterprises	140		140
Total	220	0	220
Grand Total	428	80	220

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	4	3	20
Livestock	2	3	20
Various enterprises	0	0	0
Total	6	6	40
Technology Refined			
Crops	0	0	0
Livestock	0	0	0
Various enterprises	0	0	0
Total	0	0	0
Grand Total	6	6	40

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	273	20698
Other extension activities	60	
Tota	333	20698

5. Mobile Advisory Services

		Type of Messag						
Name of KVK	Message Type	Crop	Lives tock	Weat her	Marke- ting	Aware- ness	Other enterpri se	Total
	Text only	6291	-	14215	-	_	-	20506
	Voice only	_	-	_	-	_	_	-
	Voice & Text both	_	_	-	-	_	-	-
	Total Messages	1	-	3	-	-	-	4
	Total farmers Benefitted	6291	-	14215	-	-	-	20506

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	134.18	5,50,700
Planting material (No.)	1,28,000	1,85,000
Bio-Products (kg)	0	0
Livestock Production (No.)	0	0
Fishery production (No.)	0	0

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. No.	Category	Number
1	Workshops	1
2	Conferences	2
3	Meetings	32
4	Trainings for KVK officials	3
5	Visits of KVK officials	2
6	Book published	-
7	Training Manual	-
9	Research papers	3
10	Lead papers	-
11	Seminar papers	4
12	Extension folder	17
13	Proceedings	1
14	Award & recognition	3
15	On going research projects	3