ICAR-ATARI, Pune

DETAILS OF ANNUAL PROGRESS REPORT OF KVK NAVSARI DURING 2019-20 (1st April 2019 to 31st March 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors
				(hits)
Krishi Vigyan Kendra	Office	FAX	kvknavsari@yahoo.com	www.kvknavsari.in
Navsari Agricultural University	(02637)	(02637)	kvknavsari@nau.in	
Eru Char Rasta	282009	282008		
Navsari-396 450				
Gujarat				

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

Address	Telephone		E mail	Website address
	Office	FAX		
Directorate of Extension Education,	(02637) 282706	(02637)	dee@nau.in	www.nau.in
Navsari Agricultural University		282706		
Eru Char Rasta				
Navsari-396 450				
Gujarat				

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

Name	Telephone / Contact			
D. C. K. Timbedia	Office	Mobile	Email	
Dr. C. K. Timbadia	9825386435	9725006012	cktamreli@yahoo.com	

1.4. Year of sanction: 2006

1.5. Staff Position (as on March 31, 2020)

				If Permanent, Please indicate			If
Sr. No.	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current Grade Pay	Date of joining	Temporary, pl. indicate the consolidated amount paid (Rs./month)
1	Senior Scientist	Dr. C. K.	Ext. Edu.	131400-	-	03.07.06	-
	and Head	Timbadia		217100			
2	Scientist	Dr. K. A. Shah	Agronomy	68900- 205500		06.02.12	-
3	Scientist	Prof. P. P. Patel	Fisheries	68900- 205500		01.02.13	-
4	Scientist	Dr. P. H. Nayaka	Plan Protection	68900- 205500		23.5.13	-
5	Scientist	Smt. Nital N.Patel	Home Science	57700- 182400		19.06.10	-
6	Scientist	Prof. R.A. Gurjar	Horticulture	57700- 182400		08.01.13	-
7	Scientist	Dr. S. R. Salunkhe	Ext. Edu.	57700- 182400		12.08.15	-
8	Programme Assistant	Vacant	-			-	-
9	Computer Programmer	Mr. C. B. Naik	-	39900- 126600		14.08.08	-
10	Farm Manager	Mr. A. N. Lad	Soil science	39900- 126600		20.10.11	-
11	Accountant/ Superintendent	Devendra Rasiklal Rana	Senior Clerk	25500- 81100		20.03.10	-
12	Stenographer	Vacant	-			-	-
13	Driver 1	Vacant	-			-	-
14	Driver 2	Shri. H. Z. Chauhan	-	19900- 63200		23.8.07	-
15	Supporting staff 1	Vacant	-			-	-
16	Supporting staff 2	Vacant	-			-	-

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	550 sq. m.
2.	Under Demonstration Units	-
3.	Under Crops	19.45
4.	Horticulture	-
5.	Pond	1.00 ha
6.	Others if any	-

1.7. Infrastructural Development:

A) Buildings

		Source	ource Stage					
		of		Comple	ete		Incomplete	
Sr. No.	Name of hullding	funding	Completi on Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m	Status of construction
	Administrative	ICAR	30-11-08	550				
	Building		20-7-10	sq.m.				
2.	Farmers Hostel	ICAR						
3.	Staff Quarters (6)	ICAR	2012	-				
4.	Demonstration Units (2)	-	-	-				
5	Fencing	-	-	-				
6	Rain Water harvesting	Unde	er RKVY Pı	roject				
	system		constructed					
		(3700	00 litre capa	acity)				
7	Threshing floor	ICAR	-	-	1.44			
8	Farm godown	ICAR	-	-	3.88			
9	ICT lab	RKVY	-	-				
10	Other							
11.	Farm godown	State Plan	March-14	-	5.00 lakh			
		Scheme						
12.	Farmer's urinal	State Plan	March-17	-	5.00 lakh			
		Scheme Scheme						
13.	Block Paving	State	March-17	-	2.00 lakh			
		Plan						
		Scheme						
14.	Seed hub godown	ICAR	March 18		35.00 lakh			
15.	Fish Pond	State	March-18	-	2.25 lakh			
		Plan						
		Scheme						
16.	Vehicle Shed	State	March-18	-	3.80 lakh			
		Plan						
		Scheme						
17.	Road Expansion	State	March-18	-	4.00 lakh			
	F	Plan	0					
		Scheme						
		1						

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero Jeep	2006	4,50,000/-	254639	Replacement is highly
				needed
Tractor	2006	4,15,000/-	-	Good
Power tiller with all	2011	1,46,475/-	-	Good
accessories				
Power tiller trailer	2011	26,500/-	-	Good
Bajaj Discover	2011	49,800/-	66184	Good
Tempo Traveler			-	Good
Qualis			362539	Good
Mobile soil testing Van	2008	26,30,000/-		Replacement is highly
				needed

C) Equipments & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
(a) Office equipments	•		
Under KVK			
Toshiba Xerox machine	2007	60,000/-	Replacement is needed
Printers	2008	21,650/-	Replacement is needed
Summit analytical balance	2011	97,020/-	Good
Precision balance readability	2011	12,128/-	Good
Sonar make Willy grinder	2011	24,236/-	Good
Sonar make laboratory Oven	2011	17,260/-	Good
LG refrigerator	2011	17,295	Good
Laboratory hot plate	2011	15,929/-	Good
Systronics flame photometer	2011	42,525/	Good
Systronics pH system with	2011	13,800/-	Good
electrode & temp. prob.			
Systronics Conductivity meter	2011	14,800/-	Good
Systronics digital	2011	90,100/-	Good
spectrometer			
REMI make Rotary shake	2011	50.000/-	Good
brusher			
Muffle furnace	2011	32,201/-	Good
Photocopier	2017	1,50,000/-	Good
RO water purified (100 li.)	2017	79,600/-	Good
with cooler			
Nikon copier digital camera	2017	29,650/-	Good
(P-900)			
Nikon copier digital camera	2017	9,.850/-	Good
(S-7000)			
Under RKVY project	<u> </u>		
Nikon model SLR camera	2009	48,600/-	Replacement is needed
Sony digital camera	2009	19,038/-	Replacement is needed
Sony 45E handy cam	2009	19,991/-	Replacement is needed
Autoclave vertical	2009	89,000/-	Good
B.O.D. incubator	2009	1,35,300/-	Good

Laminar air flow	2009	85,900/-	Good
Sartorius analytical balance	2009	80,000/-	Good
Sartorius top loading balance	2009	21,000/-	Good
REMI make centrifuge	2009	38,800/-	Good
Systronics make flame	2009	41,900/-	Good
photometer		·	
Systronics make pH system	2009	19,100/-	Good
with electrode		·	
Systronics make conductivity TDS meter	2009	18,900/-	Good
Systronics spectrophotometer	2009	2,90,100/-	Good
Nitrogen distillation unit	2009	2,35,000/-	Replacement is needed
Himedia make colony counter	2009	17,668/-	Good
Himedia make automatic loop	2009	12,908/-	Good
sterilizer	_00%	12,500	
MSW-452 "MAC" stone	2009	44,800/-	Good
bottle dust cover	_00%	11,000	
Rotary flask shaker	2009	25,800/-	Good
LG A.C.	2009	20,000/-	Good
Automic absorption	2009	5,75,000/-	Replacement is needed
spectrophotometer	2007	3,73,0007	Treplacement is needed
LG refrigerator (290 lit.)	2009	16,521/-	Replacement is needed
Microscope	2009	9,550/-	Good
Photomicrography	2009	4,500/-	Good
Stereo microscope	2009	4,900/-	Good
Stereo microscope with	2009	4,900/-	Good
magnification	2007	4,700/-	Good
R.O. plant (25 LPH) with	2010	38,500/-	Replacement is needed
cooler	2010	30,300/-	Replacement is needed
Generator 15 kva	2010	2,00,000/-	Good
R.O. plant (25 LPH)	2010	15,500/-	Replacement is needed
R.O. plant (25 LPH) with	2010	38,500/-	Replacement is needed
cooler	2010	30,300/	Replacement is needed
Printer CANON	2010	13,100/-	Replacement is needed
LG A.C. (1.5 ton)	2010	1,05,600/-	Replacement is needed
Milk analyzer	2011	1,50,000/-	Good
Laser printer Canon 3 in 1	2011	13,000/-	Replacement is needed
Weighing scale - 100 kg	2011	7000/-	Replacement is needed
LG refrigerator 548 ysx4	2011	40,947/-	Good
Generator 35 kva	2012	6,06,205/-	Good
(b) Farm Equipments	2012	0,00,203/-	Good
Under KVK			
Tractor Trailer	2006	85,000/-	Good
Cultivator (Fixed type)	2006	14,000/-	Good
Submersible pump set	2008	24,474/-	Good
Power Sprayer	2008	23,090/-	Good
Paddy winnower fan	2010	26,500/-	Good
Monoblock electric fan		, ,	
	2011	6,900/-	Good
Multi crop seed cum fertilizer drill	2011	45,000/-	Good
	2011	1 40 000/	Cood
Multi crop thresher	2011	1,40,000/-	Good
Rotavator	2017	85,000/-	Good
Garden tools (cutter)	2017	64,700/-	Good
Under RKVY project			

2011	2,05,941/-	Good
		Good
2012	31,900/-	Good
2010	17,800/-	Replacement is needed
2010	4,361/-	Replacement is needed
2010	99,990/-	Replacement is needed
2010	50,356/-	Replacement is needed
2017	75,050/-	Good
2017	63,402/-	Good
2017	1,49,800/-	Good
2009	1,30,476/-	Replacement is needed
2009	24,762/-	Good
2009	54,783/-	Replacement is needed
2009	1,57,520/-	Replacement is needed
2009	29,700/-	Replacement is needed
2009	9,850/-	Replacement is needed
2009	47,619/-	Replacement is needed
2009	62,857/-	Replacement is needed
2011	23,000/-	Replacement is highly needed
	2011 2012 2010 2010 2010 2017 2017 2017	2011 10,51,859/- 2012 31,900/- 2010 17,800/- 2010 99,990/- 2010 50,356/- 2017 75,050/- 2017 63,402/- 2017 1,49,800/- 2009 1,30,476/- 2009 24,762/- 2009 54,783/- 2009 1,57,520/- 2009 29,700/- 2009 9,850/- 2009 9,850/- 2009 47,619/- 2009 62,857/-

* Name and Designation of Participants

SN	Name	Designation	Position
1	Dr. S. R. Chaudhary	Hon'ble Vice Chancellor, NAU, Navsari	Chairman
2	Dr. G. R. Patel	Director of Extension Education, NAU, Navsari	Member
3	Dr. Amol Bhalerao	Scientist, ATARI, ICAR, Pune	Member
4	Dr. N.B.Patel	Associate Research Scientist, LRS, NAU, Navsari	Member
5	Dr. J. D. Thanki	Professor & Head (Agronomy), NMCA, NAU, Navsari	Member
6	Dr. C. K. Timbadia	Senior Scientist & Head, KVK, Navsari	Member Secretary
7	Dr. R.V. Borichangar	Associate Professor, College of Fisheries Science, NAU, Navsari	Member
8	Dr. P. K. Shrivastav	I/C, Principal ASPEE college, NAU, Navsari,	Member

9	Dr. Atul Gagera	DAO, Navsari	Member
10	Dr. M.G. Prajapati	Deputy Director of Animal Husbandry, Dist- Navsari	Member
11	Dr. Dineshbhai Padaliya	Deputy Director of Horticulture, Dist-Navsari	Member
12	Shri. C.K. Patel	Progressive Farmer, Village- Bhinar, Ta.Vansda	Member
13	Smt.Alpanaben M. Patel	Progressive Farm Woman, Village- Vasan, Ta.Gandevi	Member
14	Dr.K.A.Shah	Scientist (Agronomy). KVK, Navsari	Member
15	Prof P.P.Patel	Scientist (Fisheries). KVK, Navsari	Member
16	Dr.Prabhu Nayaka	Scientist (Plant Protection). KVK, Navsari	Member
17	Dr.Sumit Salunkhe	Scientist (Extension Education). KVK, Navsari	Member
18	Shri R.A.Gurjar	Scientist (Horticulture). KVK, Navsari	Member
19	Smt Nitalben Patel	Scientist (Home Science). KVK, Navsari	Member

** Salient Recommendation on 12th SAC meeting held on 20/03/2019

12.2.1	Organize workshop on script writing and presentation for scientist and officers of
	university. (Action: DEE)
12.2.2	Organize Training on Impact Studies of KVK (Action: DEE)
12.2.3	Organize values addition training with the help of line department
12.2.4	More use of ICT tools in KVK activity
12.2.5	Establishment of IFS demonstration at KVK farm
12.2.6	Organize demonstration and awareness programme on fodder production
12.2.7	Organize ornamental fish farming demonstration under cage fish farming

*** Action Taken Report on minutes of 11th SAC meeting held on 20/03/2019

	Action Taken Report on minutes of 11 th SAC meeting held on 25/01/2020					
Sr. No	Suggestions	Action taken				
1. During	g scientific Advisory committee meeting follow	ving suggestions are made by the experts				
	During the presentation of activities carried out by KVK Navsari in 10 th SAC by KVK, following decisions were taken					
11.2.1	Impact should be analyzed for training and extension activities	Impact study is conducted				
11.2.2	Use new variety in FLDs	 Following variety were using in FLDs Paddy GNR-3 (334 farmers), GNR-4 (3 farmers) GNR-5 (45 farmers), GNR-6 (98 farmers), GNR-7 (17 farmers) Pigeon pea GNP-2 (125 farmers) 				

		• Chick pea GG-5 (200 farmers)
		• Green gram GM-6 (120 farmers)
		• Turmeric GNT-2 (80 farmers)
11.2.3	Convergence activities with NABARD	NABARD officers invited in guest lecture
11.2.4	Use Novel plus in FLDs	Novel plus use in Following FLDs
		• Green gram (125 farmers)
		• Vegetables (105 farmers)
		Sapota and mango (127 farmers)
11.2.5	Plan scheme strengthening proposal should	Work in Progress
	be submitted along with required staff for	
	inland fisheries scheme	

2. DETAILS OF DISTRICT

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

S.	Farming system/enterprise
No	
1.	Agri - horticulture system
2.	Agri - horti- silviculture system
3.	Agri - horti- livestock production system
4.	Horti- livestock production system
5.	Horti- livestock - inland aquaculture production system

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

a) Soil type

Sr.	Agro-climatic	Characteristics		
No.	Zone			
1	South Gujarat	Rainfall: 2500 mm and more		
	Heavy Rainfall	Type of Soil: Deep black with few patches of coastal alluvial, laterite and		
	Zone	medium black soils.		
		Soil Characteristics: Most of the area cultivated, some area non Cultivated under		
		sallow and Past forest		
		Soil fertility: Nitrogen-poor, Phosphorus medium, Potash High.		

b)Topography

	Agro ecological situation	Characteristics
1	AES-I	Undulating, fine textured, shallow to medium depth, high to very high
		rainfall-rain fed, paddy, hill millet and pulses zone.
2	AES-III	Leveled, fine textured, deep, medium depth, rainfall-partly-irrigated, paddy,
		pulses, sugarcane, Mango, sapota zone
3	AES-IV	Leveled, fine textured, deep, salt affected, low rainfall, irrigated-paddy,
		sugarcane-wheat zone

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Clay, deep	Moderately drained	Navsari
2	Clay, clay loam, moderately	Moderately to poorly drained, salt affected	Jalalpore
	deep		
3	Clay, clay loam, deep	Moderately to poorly drained, salt affected	Gandevi
4	Clay, silty clay, shallow,	Well drained, undulating, erosion affected	Chikhli
	loamy, deep		
5	Clay, silty, loamy, shallow	Well drained, moderate to strong undulating,	Vansda
		erosion affected	

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

S.	Crop	Area (ha)	Production (M.ton)	Productivity (kg/ha)
No				
Field	crops (Kharif Crops)			
1.	Paddy (TP)	17248	54486	3159
2.	Paddy (Irri)	36394	139935	3845
3.	Sorghum	29	36	1226
4.	Ragi	11.99	9.65	804.30
5.	Pigeon pea	1131	1070	946
6.	Black gram	392	284	724
7.	Ground nut	14	11	820
8.	Niger	6	2	318
9.	Green manure	1437	35925	25000
10.	Other pulses	171	137	800
	Total	56834	231896	37642
Field	 crops (Rabi/Summer Crop	os)		
11.	Sugarcane	174.19	12615.83	72424.88
12.	Rabi Sorghum	558	624	1118
13.	Gram	174.27	205.50	1179.22
14.	Paddy (Summer)	7059	30671	4350
15.	Green gram (Summer)	428	228	533
16.	Maize	126	179	1420
17.	Wheat	807.13	2378.15	3071
18.	Mustard	15	24	1600
19.	Indian bean	512	413	807
20.	Black gram (summer)	42	28	658
21.	Ground nut (summer)	40	73	1828
	Total	9936	47439	88989
Horti	cultural crops			
Sr.	Crop	Area (ha)	Production (M.T)	Productivity (t/ha)
No				
Fruit	Crops			
1.	Mango	32665	300252	9.19
2.	Sapota	8133	102886.00	12.65

3.	Ber	5	43	8.60
4.	Banana	3161	163076	51.59
5.	Guava	2	25	12.50
6.	Papaya	417	26265	62.99
7.	Cashew Nut	347	347	1.00
8.	Coconut	593	5029	8.48
	Total	45323	597923	167
Vege	table crops			
9.	Onion	200	3485	17.94
10.	Brinjal	3029	59490	19.64
11.	Cabbage	205	4717	23.01
12.	Okra	6448	81564	12.65
13.	Tomato	176	4154	23.60
14.	Cauliflower	133	2601	19.56
15.	Clusterbean	741	7282	9.83
16.	Cowpea	876	7009	8.00
17.	Cucurbits	10800	1965601	18.20
	Total	22608	2135903	152.43
Flow	er crops	1		
18.	Rose	98	858	8.76
19.	Mari gold	722	7128	9.87
20.	Spider lily	1338	13487	10.08
	Total	2158	21473	28.71
Medi	cinal crops	1		
21.	Alovera	5	75	15.00
22.	Safed nusli	11	44	4.00
23.	Ashwgandha	2	0.1	0.05
24.	Pacholi	6	240	40.0
	Total	24	359.1	59.05
Spice	es and condiments crops			
25.	Chilli	740	1110	1.50
26.	Garlic	190	1235	6.50
27.	Turmeric	874	19534	22.35
28.	Ginger	132	2643	20.02
	Total	1936	24522	50.37
	I.	1		

Source : DAO, Navsari District

Month	Rainfall	Temper	Temperature ⁰ C		Relative Humidity (%)	
Month	(mm)	Maximum	Minimum	Maximum	Minimum	
Apr-19	0.0	36.6	21.5	86	51	
May-19	0.0	34.7	24.3	85	62	
Jun-19	262.0	33.5	25.4	92	77	
Jul-19	491.0	31.4	24.2	94	87	
Aug-19	535.0	29.9	23.5	96	87	
Sep-19	750.0	30.9	22.9	96	88	
Oct-19	95.0	33.4	21.5	88	68	
Nov-19	37.0	33.2	19.1	91	64	
Dec-19	0.0	31.0	15.8	85	62	
Jan-20	0.0	29.0	11.6	87	55	
Feb-20	0.0	32.5	15.4	83	40	
Mar-20	0.0	33.4	18.2	89	49	
Total	2170.0	-				
Total	_	22.5	20.2	00.2	(F.0	
Mean	_	32.5	20.3	89.3	65.8	

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

Table: Latest livestock census 2012

Sr.	Name of the Livestock	Total No. of livestock as per 2012 census
No.		
1	Cattle	232738
2	Buffalo	115032
3	Camels	06
4	Sheep	2089
5	Goats	84519
6	Horses and Ponies	95
7	Donkeys Mule & Dogs	3070
8	Rabbits	824
9	Pigs	443
10	Poultry Birds	874174
11	Others	24
	Total	13,13,014

(Source: Dy. Director, District Animal Husbandry Office, Navsari)

Category	Population	Production	Productivity
Cattle			
Crossbred	95594	89230 tones	NA
Indigenous	60725	19630 tones	NA
Buffalo	102142	69620 tones	NA
Sheep	3000	4 metric tones	NA
Goats	87207	3390 tones	NA
Pigs	369	NA	NA
Crossbred	NA	NA	NA
Indigenous	NA	NA	NA
Rabbits	NA	NA	NA
Poultry			
Hens	245300	129.72 lakhs	NA
Desi	189800	447.79 lakhs	NA
Fish (Reservoir)			
Marine	53 km	17191 MT	-
Inland	412.06 ha	269 MT	652.8 kg/ha
Prawn	-	-	-
Scampi	735 ha.	65 MT	88.4 kg/ha
Shrimp	845 ha.	796.7 MT	942.8 kg/ha

(Source: Dy. Director, District Animal Husbandry Office, Navsari)

Fisheries Statistics as on 31/03/2015 is as under

No. of Boats to catch fish in the District	
Mechanized Boats	694
Without Mechanized Boats	378
No. of Active Fisherman in the District	19868
Production of Fishes in MT	28596
No. of Primary Fisheries Co-operative Societies	19
No of Membership of Co-operative Societies	6230
Subscribed Share Capital of Co-operative Societies	Rs. 23,51,140
Fishing Nets	21453
Ice Factories	08
Boat Building Yards (70 MT capacity)	03
Frozen Storage	01
Boat Licenses issued	470
Fishing Ponds	630

The Fishermen Population as on 31/03/2014 is as under:

Sr.	Taluka (Nos.)	Male (Nos.)	Female (Nos.)	Children (Nos.)	Total (Nos.)
No.					
1	Navsari	394	348	232	974
2	Jalalpore	5604	5553	7675	18832
3	Gandevi	4681	4643	4627	13951
4	Chikhli & Khergam	443	416	439	1298
5	Vansda	704	601	740	2045
	TOTAL	11826	11561	13713	37100

(Source: Fisheries Department, District Panchayat, Navsari)

2.7. Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterpries	Major problem identified	Identified Thrust Areas
Navsari	Navsari	Adada Kachhol Unn	-Paddy -Sugarcane -Spider lily -Vegetable -Mango -Sapota - Animal Husbandry -Fisheries - Food preservation	1. Injudicious use of fertilizer, pesticides and Irrigation water and other inputs 2. Difficulty for timely availability of certified seed and planting materials 3. Less availability of labours at the time major agricultural operations during crop seasons 4. No seed treatment in any crop 5. Heavy infestations of weeds 6. Traditional Management of animals 7. Aquatic weed infested village ponds availability 8. Lack of knowledge & scientific information regarding fish feeds & nutrition	1. Fertilizer, weed and Irrigation water management. 2. Pests and disease management 3. Soil health conservation 4. Integrated farming 5. Seed production 6. Scientific management of livestock 7. Disease management in animals 8. Composite fish culture 9. Water quality management 10. Value addition

			-Paddy	1. Frequent flooding of	
Jalalpore	Jalalpo	Bodali Mandir Pethan	-Sugarcane -Wheat -Mango -Sapota -Vegetable -Animal Husbandry -Fish culture -House hold food security	farms during rainy season. 2. Coastal area salinization. 3. Injudicious use of fertilizer, pesticides and Irrigation water 4. Old orchard of mango and sapota 5. Less knowledge about tuber crops. 6. No Crop rotation. 7. Traditional Method of kitchen garden 8. Nutrition deficiency in animals. 9. No deworming in animal 10. Lack of knowledge & scientific information regarding fish feeds and nutrition	 Orchard management Soil health conservation. IPDM Integrated farming Water Harvesting and storage Cropping system Production technology Feed management in animals Health management in animals Fish nutrition Fish disease management Value addition Kitchen gardening

Chikhli		Soldhara Bamanvada Golav	-Paddy -Gram -Green gram -Sugarcane -Mango -Sapota -Tubers -Vegetable -Livestock -Fish	1. Injudicious use of fertilizer & pesticides 2. Lacking in production technology of tuber crops 3. Less availability of labours at the time major agricultural operations during crop seasons 4. Heavy infestations of weeds 5. Severe Snail problem during Kharif season 6. Traditional calf rearing 7. Nutritional deficiency in animals 8. Weed infested shallow village ponds	1. Fertilizer, weed and Irrigation water mgmt. 2. Organic farming 3. Mechanization of agricultural operations 4. Production technology 5. Value addition in tuber crops 6. Seed treatment 7. IPDM 8. Soil health conservation 9. Water harvesting & recharge 10. Scientific calf rearing 11. Quality animal products 12. Fish culture method 13. Agriculture marketing
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Vansda	Vansda	Nani valzar Unai charvi Kharjai	-Paddy -Pulses -Mango -Sapota -Pointed gourd -Vegetables Animal Husbandry -Fishery	3. High incidence of pests and diseases in vegetable crops. 4. No knowledge about cropping system 5. Lack knowledge on protective cultivation 6. No availability of seed and seedling materials 7. Taditional methods of rearing animals 8. No deworming in animals 9. No awareness on Fish culture species 10. Weed infested village pond	1. Organic farming. 2. Water Harvesting and storage. 3. Integrated farming 4. Pests and disease management 5. Soil health conservation 6. Crop diversification 7. Disease management in animals 8. Feed management in animal 9. Fish stocking & Fish composition rate 10. Pond water quality management
Khergam	Kherga m	Naranpur Bahej Bhervi	-Pointed gouard -Vegetables -Animal Husbandry	 Fragmented land holding Poor financial status of farmers Low productivity of milk animals 	Mix farming concept (Agri.+Horti.+livestock)

2.8. Priority thrust areas:

Thrust area	
Soil health conservation	Kitchen gardening
Integrated farming	Seed treatment
Seed production	Fish culture method
Scientific management of livestock	Organic farming
Quality feed management for animal	Crop diversification
Value addition	Feed management in calf
IPDM	Disease management in animals
Cropping system	Fish stocking & fish composition

3. TECHNICAL ACHIEVEMENTS

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

	0	FT		FLD			
1					2	2	
Numb	Number of OFTs Number of farmers		Number of FLDs		Number of farmers		
Targets	Achievement	Targets	Achievement	Targets Achievement		Targets	Achievement
1	2	22	12	137	657.72	1693	3928

Training				Extension Programmes			
	3			4			
Numbe	Number of Courses Number of Participants		of Participants	Number of		Number of participants	
				Programmes			
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
66	107	2109	5195	161	756	5165	38227

Seed P	roduction (Qtl.)	Planting	g materials (Nos.)	
	5	6		
Target	Achievement	Target	Achievement	
112	388.82	9000	5880	

Livestock, 1	poultry strains and	Bio-p	roducts (Kg)	
fingerling	s/Fisheries (No.)			
	7	8		
Target	Achievement	Target	Achievement	
Nil	1425	-	-	

3.1. B. Operational areas details during 2018-19

S. No	Major crops & enterprises being practiced in cluster of villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Name of Cluster Villages identified for interventions	Interventions (OFT, FLD, Training, extension activity etc.)*
1	Paddy	Low production variety	1500	Adada Kachhol Unn Bodali Mandir	FLD, Training for farmers & extension personnel and Khedut shibir
2	Paddy	Low production variety	1100	Pethan Changa	FLD, Training and Khedut shibir
3	Paddy	Low production variety	1600	Dhanori Vagalvada	FLD, Training and Khedut shibir
4	Paddy	Use of local variety	1400	Soldhara Bamanvada	FLD, Training and Khedut shibir
5	Green gram	Use of local variety	250	Golav Nani valzar	OFT, FLD, Training and Khedut shibir
6	Chick pea	Use of local variety	710	Unai charvi Kharjai	FLD, Training and Khedut shibir
7	Chick pea	Use of local variety	760	Naranpur Bahej	FLD, Training and Khedut shibir
8	Green gram	Use of local variety	300	Bhervi	FLD, Training and Khedut shibir
9	Pigeon pea	Use of local seed and flate sowing	800		FLD, Training and Khedut shibir
10	Chilli	Murda complex in chilly	80		OFT, Training and Khedut shibir
11	Paddy	No awareness about bio control	1300		FLD, Diagnostic visit, Training
12	Mango/Sappota	No use of fruit fly trap	22000/6000		FLD, Diagnostic visit, Training
13	Sapota	Low production wilting	300		FLD, Diagnostic visit, Training
14	Kitchen garden	Haphazardly growing kitchen garden practices	510		FLD, Training and Khedut shibir
15	Mango	Use of local variety	22000		FLD, Training and Khedut shibir
16	Mango	No use of bio fertilizers	22000		FLD, Diagnostic viist, Training
17	Mango	No use of fruit fly trap	22000		FLD, Diagnostic viist, Training

18	Brinjal	Use of local	1500		FLD, Training, Field
		variety			visit
19	Plastic bags	Loss of stored	100		FLD, Training and
		grains			Mahila shibir
20	Fresh water fish	1. Low fish yield	60 ha.	Matwad, Onjal,	1. OFT on stocking
	farming	2. Non availability		Aat, Soldhara,	density of fish seed for
		of quality fish		Ancheli,	stunted yearlings
		seeds (yearlings)		Mohanpur,	production in cage
				Ranverikhurd,	culture system.
				Nandarkha,	2. OFT on to assess
				Dandi,	fish species stocking
				Kothamadi,	ratio of Indian major
				chijgam, Kanera,	carps and Chinese
				Pitha, Karadi	carps in culture ponds.
					3. FLD- Indian major
					carps seed production
					from fry to yearlings.
					4. FLD- Fresh water
					fish seed stocking
					density and species
					ratio for higher
					production in village
					tanks/khet talavadi/
					courtyard tanks.
					5. Fish nutrition and
					feeding management
					for fresh water culture

^{*} Support with problem-cause and interventions diagram

3.2. Technology Assessment

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal	-	-	1	-	-	-	-	-	-	1
Evaluation										
Integrated	-	-	-	-	1	-	-	-	-	1
Pest										
Management										
Total			1		1					2

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Production and	0	0	0	0	1	1
Management						
TOTAL	0	0	0	0	1	1

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technologica l Options)
Varietal Evaluation	Mung	New Variety in green gram	1	6	1.2
Integrated Pest Management	Chilli	Sucking pest management in chilli	1	6	1.2
		2	12	2.4	

B.2. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers				
Production and management	Fisheries	Stocking density of fingerlings	1	20				
		(Catla, Rohu, Mrigal and Grass						
		carp) for production of stunted						
		yearlings in cage culture						
		system						
	Total							

1.Results of Technologies Assessed

Crop/ enter prise	Far ming situa tion	Probl em defini tion	Title of OFT	No. of tria ls	Technol ogy Assesse d	Param eters of assess ment	Data on the parame ter	Resul ts of asses smen t	Feedb ack from the farme r	Any refine ment neede d	Justific ation for refine ment
1	2	3	4	5	6	7	8	9	10	11	12
Green	Irriga	Yello	Ass	1	Gujarat	Seed	5.1	878	New		
gram	ted	w vein	ess		Greengr	Weight	gm of	kg/ha	variety		
		mosai	men		am-6	& yield	100		is very		
		c virus	t of				seeds		good		
		infesta	new						yield		
		tion in	vari						& seed		
		mung	ety						size is		
		bean	of						bold &		
		&	gree						market		
		small	n						price		
		seed	gra						is also		
		of	m						good		
		green							as		
		gram							compa		
									red to		
									meha		
							3.5	727			
					Meha		gm of	kg/ha			
							100				
							seeds				

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Variety Meha	Navsari Agricultural	727	kg/ha	27001	1.95
(Farmer's	University technology				
practice)					
Variety GM-6	Navsari Agricultural	878	kg/ha	38483	2.36
	University technology				

Crop/ enter prise	Far ming situa tion	Proble m definit ion	Title of OFT	No . of tri als	Techn ology Assess ed	Param eters of assess ment	Data on the parame ter	Result s of assess ment	Feedba ck from the farmer	Any refine ment neede d	Justific ation for refine ment
1	2	3	4	5	6	7	8	9	10	11	12
Chilli	Irriga	Due to	Suckin	6	Seedli	No. of	No.of	10870	Biopest		
Green	ted	suckin	g pest		ng	suckin	thrips	kg/ha	icides		
		g pests	manag		treate	g pests	/leaf:		and		
		in	ement		ment	and	3.43		bioratio		
		chilli	in		with	Yield			nals are		
		there	chilli		trichod		No.of		good in		
		will be			erma		mites		managi		
		drastic			viridi+		/leaf:		ng the		
		reducti			V.		7.20		suckinn		
		on in			lecani				g pests		
		chilli			+ M.		No.of		and		
		yield			anisopl		Ahids		also		
		and			ae + B.		/leaf:		econom		
		also			bassian		4.70		ical		
		these			a@ 5		T C		compar		
		suckin			gm/lit		Leaf		e to		
		g pests			+		curl index		chemic al		
		acts as			yellow + blue		:0.43				
		vectors in			sticky		.0.43		faming		
		disease			_		Note:				
		transmi			trap @15/h		Obser				
		ssion			a +		vation				
		331011			Spinos		on				
					ad @		first				
					0.3		three				
					ml/lit		leaves				
					1111/111		on				
							top,				
							middl				
							e and				
							botto				
							m of				
							the				
							crop				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Indiscrominate use of	Farmers	9200	kg/ha	143120	2.07
pesticide(Cypermethrin	technology				
+spiromesifen+indoxarb)					
(Farmer's practice)					
Seedling treatement with	Navsari Agricultural	10870	kg/ha	203970	2.67
trichoderma viridi+V.	University				
lecani + M. anisoplae +	technology				
B. bassiana@ 5 gm/lit +					
yellow+ blue sticky trap					
@15/ha + Spinosad @					
0.3 ml/lit					

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

1. Title of technology assessed. : Assessment of new variety of green gram

2. Problem definition : Yellow vein mosaic virus infestation in mung

bean & small seed of greengram

3. Details of technologies selected:

for assessment

Yellow vein mosaic virus resistance new

released variety GM-6

4. Source of technology : Navsari Agricultural University, Navsari

5. Production system and thematic:

area

Varietal Evaluation

6. Performance of technology with:

performance indicator

Yellow vein mosaic virus resistant variety

increase seed yield

7 Feedback, matrix scoring of : various technology parameters do

techniques.

Feedback is good

8 Final recommendation for micro:

level situation

Second year assessment is running

9. Constraints identified and :

feedback for research

none identified

10 Process of farmers participation :

and their reaction

Good

2. Problem definition Lack of awareness of new variety. Details of technologies selected 3. Gujarat Anand okra for assessment 4. Source of technology Anand Agricultural University, Anand Production system and thematic Varietal Evaluation 5. 6. Performance of technology with Low yield compared to market variety performance indicator Feedback, matrix scoring of Lower yield compared to other varieties under 7 various technology parameters do south Gujarat condition techniques. 8 Final recommendation for micro Farmers are not ready to grow this variety again. level situation identified Under south Gujarat condition variety do not 9. Constraints and perform well in terms of yield. feedback for research Process of farmers participation Difficult to convince to grow again 10 and their reaction Title of technology assessed. Sucking pest management in chilli 1. Problem definition Farmers of south Gujarat are not practicing 2. integrating approach in management of chilli thrips and mites. Many farmers preparing seedling without the seed treatment and transplanting without seedling root dip (either bio or chemical) this results heavy loss of chilli yield in farmer's field. seed treatment with imidacloprid 70%ws @ 3. Details of technologies selected 400-600 g/100 seed and foiliar spray of for assessment spinosad 45% sc @ 64 ml in 200 lit of water. Before transplanting seedling root trichoderma viridae 5 gm/lit for 30 minutes and use of Blue and yellow sticky traps 4. Source of technology **SAU** Production system and thematic Integrated pest & disease management 5. 6. Performance of technology with Performance of the technology good performance indicator Performance indictors management of aphids, mites, trips and leaf curves disease Feedback is good 7 Feedback, matrix scoring of various technology parameters do techniques. Final recommendation for micro Second year assessment is running level situation 9. Constraints identified none identified and feedback for research Process of farmers participation 10 Good and their reaction

Assessment of new variety of okra

Title of technology assessed.

1.

1. Title of technology assessed. Stunted yearlings of IMC(Catla, Rohu and Mrigal) and Grass carp production in cage culture system 2. Problem definition Lack of technical knowledge of various culture systems and cultivable traits of particular growing organisms Rearing of IMC (Catla, Rohu and Mrigal) and 3. Details of technologies selected: for assessment Grass carps' seeds of size 40mm to 50 mm in net cages of size 3 m x 1m x 1m with 10 mm mesh nylon netting material. The stocking density is 166 number per cubic meter with species ratio 2:4.5:2.5:1 catla:Rohu:mrigal:Grass carp. Source of technology College of Fisheries Science. 4. Navsari Agricultural University, Navsari, Navsari Production system and thematic: Production system: Nylon netting or plastic 5. cages. Thematic area: Inland Fisheries area Performance of technology with: Size (Length and weight) and survival 6. performance indicator (Production of seeds in numbers) 7 Feedback, matrix scoring Although it is under assessing but will be the of: various technology parameters do best to utilize deep water resources such as techniques. stone quarry and village tanks along with grow out culture system. This system requires regular checking, maintenance and cleaning of cages. 8 Final recommendation for micro: It is under assessing level situation 9. Constraints identified Identification of specific and: natural food feedback for research organisms for particular fin fish and maintain supply chain in fish rearing system. 10 Process of farmers participation: Constant technical backstopping including and their reaction personal guiding, FLD arrangement, effective

> presentation and providing exposure to modern culture units attracts farmers to adopt recently developed modern techniques of

aquaculture

3.3. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2019-20 and recommended for large scale adoption in the district

				Details of popularizati		zontal spread technology	d of
Sr N o	Crop/ Enterprise	Thematic Area*	Technology demonstrated	on methods suggested to the Extension system	No. of village	No. of farmer	Are a in ha
1.	Paddy	ICM	NAUR-1	Demonstration Training, Field day	9	273	60
2.	Paddy	ICM	GNR-3	Demonstration Training, Field day	20	334	88.4
3.	Paddy	ICM	GNR-2	Demonstration Training, Field day	15	120	28.3
4.	Paddy	ICM	GNR-4	Demonstration Training, Field day	2	3	1
5.	Paddy	ICM	GNR-5	Demonstration Training, Field day	10	45	9.2
6.	Paddy	ICM	GNR-6	Demonstration Training, Field day	12	98	20.8
7.	Paddy	ICM	GNR-7	Demonstration Training, Field day	8	17	5.8
8.	Paddy	IPDM	GNR-3	Demonstration Training, Field day	5	20	10
9.	Paddy	IPDM	GNR-4	Demonstration Training	5	20	10
10.	Pigeon pea	ICM	Vaishali	Demonstration Training, KM	20	323	35
11.	Pigeon pea	IPDM	Vaishali	Demonstration Training, KM	5	10	5
12.	Chickpea	ICM	GG-5	Demonstration Training, Field day	15	200	20

13.	Green gram	ICM	GM-6	Demonstration Training, Field day	9	100	20
14.	Pigeon pea	ICM	GNP-2	Demonstration Training, Field day	10	125	20
15.	Little gourd	INM	GNLG-1	Demonstration Training, KM	10	44	1
16.	Pointed gourd	INM	GNPG-1	Demonstration Training, KM	2	15	0.2
17.	Mango	Bio control of pest and diseases	Kesar	Demonstration Training, KM	15	150	30
18.	Mango	INM	Biofertilizer (PSB,KMB, Azto.,)	Demonstration Training, KM	20	325	130
19.	Mango	INM	Novel Spray	Demonstration Training, KM	15	140	35
20.	Mango	INM	Sonpari	Demonstration Training, KM	10	500	5
21.	Sapota	INM	Kalipatti	Demonstration Training, KM	3	21	8.4
22.	Sapota	INM	Kalipatti	Demonstration Training, KM	5	20	35
23.	Turmeric	ICM	GNT-2	Demonstration Training	2	40	0.4
24.	Sweetpotato	INM	C-71	Demonstration Training	1	3	0.3
25.	Fresh water fish culture	Inland fisheries	Fish seed stocking density and species ratio	Demonstrate d in villages tanks, khet talavadi of farmers and courtyard tanks by giving trainings and inputs such as Fish seeds(Fingerl ings, yearlings	10	112	27
26.	Fresh water fish culture	Inland fisheries	Fish feed nutrition and feeding methods	Trainings and method demonstratio n of fish feeding such as bag	18	136	42

		<u> </u>	Γotal		410	3928	657.52
			and summer				
		gardening	in kharif, Rabi				
		kitchen	kitchen gardening				
		security	for maintaining	<i>U</i> ,			
	gardening	d food	scientific model	Training,			
29.	Kitchen	Househol	To introduce	Demonstration	150	722	7.22
				talavadi.			
				yearling size in khet			
			yearlings	fry size to			
			from fry to	rearing from			
	rearing	fisheries	production	d fish seed			
28.	Fish seed	Inland	Fish seed	Demonstrate	2	7	0.5
20	TP: 1 *	T 1 1	T2' 1 1	requirements	2	-	0.5
				feeds as per			
				seeds and			
				providing			
				culture by			
				Pungasius			
				demonstrated			
				persons and			
				young			
				and trained 5			
				of Soldhara			
				village tank			
				4 m in			
			village tank	6 m X 4m X			
	farming	fisheries	cage culture in	two floating cages of size			
27.	Cage	Inland fisheries	Pungasius	Arranged	02	5	2
27	C	T., 1 J	Days i	rice bran	02	<i>E</i>	
				along with			
				sinking feed			
				feed and			
				floating fish			
				content			
				protein			
				various			
				by providing			
				broad casting			
				feeding and			

B. Details of FLDs implemented during 2018-19 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops)

Sr. No.	Сгор	Thematic area	Technology Season and Demonstrated year		Area	(ha)	· ·	o. of farmer emonstratio		Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	ICM	NAUR-1	Kharif-19	5	60	273	0	273	
2.	Paddy	ICM	GNR-3	Kharif-19	5	88.4	271	63	334	
3.	Paddy	ICM	GNR-2	Kharif-19	2.5	28.3	108	12	120	
4.	Paddy	ICM	GNR-4	Kharif-19	-	1	3	0	3	
5.	Paddy	ICM	GNR-5	Kharif-19	-	9.2	45	0	45	
6.	Paddy	ICM	GNR-6	Kharif-19	2.5	20.8	98	0	98	
7.	Paddy	ICM	GNR-7	Kharif-19	-	5.8	17	0	17	
8.	Paddy	IPDM	GNR-3	Kharif-19	10	10	10	10	20	
9.	Paddy	IPDM	GNR-4	Kharif-19	10	10	10	10	20	
10.	Pigeon pea	ICM	Vaishali	Kharif-19	5	35	94	229	323	
11.	Pigeon pea	IPDM	Vaishali	Kharif-19	5	5	5	5	10	
12.	Chickpea	ICM	GG-5	Rabi-19	5	20	198	2	200	
13.	Green gram	ICM	GM-6	Rabi-19	5	20	8	92	100	
14.	Pigeon pea	ICM	GNP-2	Kharif-19	-	20	100	25	125	
15.	Little gourd	INM	GNLG-1	Kharif-19	5	1	15	29	44	

16.	Pointed	INM	GNPG-1	Kharif-19	5	0.2	5	10		
	gourd					20			15	
17.	Mango	Bio control of pest	Kesar	Kharif-19	5	30	70	80		
		and diseases							150	
18.	Mango	INM	Biofertilizer	Kharif-19	5	130	130	195		
			(PSB,KMB,							
			Azto.,)						325	
19.	Mango	INM	Novel Spray	Kharif-19	1	35	70	70		
	_								140	
20.	Mango	INM	Sonpari	Kharif-19	5	5	200	300	700	
21.	C 4 -	TNIM	IZ -11:	V1: C 10	5	8.4	10	11	500	
21.	Sapota	INM	Kalipatti	Kharif-19	3	8.4	10	11	21	
22.	Sapota	INM	Kalipatti	Kharif-19	4	35	10	10		
			_						20	
23.	Turmeric	ICM	GNT-2	Kharif-19	-	0.4	20	20	40	
24.	Sweet potato	INM	C-71	Kharif-19	10	0.3	3	0	3	
25.	Fresh water	Inland fisheries	Fish seed	Kharif-19	25	27	65	47	112	
	fish culture		stocking							
			density and							
			species ratio							
26.	Fresh water	Inland fisheries	Fish feed	Kharif-19	30	42	56	80	136	
20.		illiand fisheries		Knam-19	30	42	30	80	130	
	fish culture		nutrition and							
			feeding							
			methods							
27.	Cage farming	Inland fisheries	Pungasius	Kharif-19	1	2	2	3	5	
			cage culture							
			in village							
			tank							
28.	Fish seed	Inland fisheries	Fish seed	Kharif-19	2	0.5	3	4	7	
	rearing		production							
			from fry to							
			yearlings							
			yearings]			

29.	Kitchen	Household food	To introduce	Kharif-19	-	7.2	165	557	722	
	gardening	security kitchen	scientific model							
		gardening	for maintaining							
			kitchen							
			gardening in							
			kharif, Rabi and							
			summer							
		Tota	al		158	657.5	2064	1864	3928	

Crop	Season	Farming situation (RF/Irrigated	Soil type	S	tatus of	soil	Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
	N N	F3 sit (RF/	\mathbf{S}_0	N	P	K	Prev	Sow	Har	Se	No.
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Mung	July-19	Oct-19	2170	86
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Paddy	July-19	Oct-19	2170	86
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Paddy	July-19	Oct-19	2170	86
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Gram	July-19	Oct-19	2170	86
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Paddy	July-19	Oct-19	2170	86
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Paddy	July-19	Oct-19	2170	86
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Paddy	July-19	Oct-19	2170	86
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Paddy	July-19	Oct-19	2170	86
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Paddy	July-19	Oct-19	2170	86
Paddy	Kharif-18	Rainfed	Black	L	M	Н	Paddy	July-19	Oct-19	2170	86
Pigeon pea	Kharif-18	Rainfed	Black	L	M	Н	-	July-19	Oct-19	2170	86
Pigeon pea	Kharif-18	Rainfed	Black	L	M	Н	-	July-19	Oct-19	2170	86
Chickpea	Rabi-18	Rainfed	Black	L	M	Н	Paddy	Nov-19	Feb-20	2170	86
Mango	Kharif-18	Rainfed	Black	L	M	Н	Mango	-	May-20	2170	86
Sapota	Kharif-18	Rainfed	Black	L	M	Н	Sapota	-	Oct-19	2170	86
Mango	Kharif-18	Rainfed	Black	L	M	Н	Mango	-	May-19	2170	86
Little gourd	Kharif-18	Irrigated	Black	L	M	Н	paddy	July-19	Aug-19	2170	86
Mango	Kharif-18	Rainfed	Black	L	M	Н	Mango	-	May-19	2170	86
Mango	Kharif-18	Rainfed	Black	L	M	Н	Mango	-	May-20	2170	86
Fish farming	Kharif-18	-	-	-	-	-	Fish	-	Oct-19	2170	86

IMC &											
Chinese											
carp											
Fish	Kharif-18	-	-	-	-	-	Fish	-	Oct-19	2170	86
farming											
Cage	Kharif-18	-	-	-	-	-	Fish	-	Oct-19	2170	86
farming											
Fish seed	Kharif-18	-	-	-	-	-	Fish	-	Oct-19	2170	86
rearing											

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Experiment on cage culture in big village tanks need to be conducted
2	Preparation and testing of amrutmitti, amrutjal, jivamrut and panchgavya for different crops.
3	Preparation and testing of herbal pesticide for controlling pests and diseases.
4	Testing of cow dung and cow urine for enhancing growth and controlling pests and diseases.
5	Module for pesticide free productions.
6	Availability of country seeds.
7	Develop salt reclamation bio fertilizers.
8	To develop new variety of hybrid vegetables.
9	Develop early maturing and high yielding pigeon pea variety.
10	Branches of mango or sometime mango plant die in month of September-October.
11	Stem cracking or bark splitting was found in mango.
12	Terrace gardening, Box gardening and hanging pot kitchen gardening / availability of vegetables throughout the year on season basis.
13	Cost of feeding animals to be reduced
14	Experiment on amur common carp need to be conducted

Farmers' reactions on specific technologies

Sr. No	Feed Back
1	Banana sap highly performed and gave good results
2	Increase seed availability for newly released varieties at village level timely and in small packing (pulses, vegetables etc.).
3	Introduction of IPDM technology becomes helpful in reducing pests and disease
4	NAUR-1 is found susceptible to false smut & also loading.
5	Grain discoloration was found in GNR-3.
6	Profuse tillering but more pest incidence was found in GNR-4 after penical initiation.
7	The wastage of paddy straw is reduced and milk yield is increased by feeding of urea treated paddy straw.
8	Optimized inter calving period in buffalo
9	More number of complication around parturition in animals.
10	Inland aquaculture variety is good
11	Fish production increased with less expenditure.
12	Improve in the interest and initiation to bring village tanks for fish culture activities.
13	Cage fish farming can be significant component in blue revolution.

Extension and Training activities under FLD

Sr.	Activity	vity No. of activities Date		Number of	Remarks
No.	120011203	organised	2	participants	
1	Field days	16	17/4,1/5,18/9,10/10,10/10.10/10,16/10,19/10,19/10,19/10,19/10,29/1,29/1,29/1,	632	-
			30/1,31/1		
2	Farmers Training	24	May, June, July, Oct, Sep, Nov, Dec. Jan, Feb, March	1265	-
3	Media coverage	35	May, June, July, Aug, Sep, Nov, Dec. Jan, Feb, March	-	-

C. Performance of Frontline Demonstrations

Frontline demonstrations on Oilseed crops - Nil

Frontline Demonstration on Pulse crops

	Thematic	Tashnalagy		No. of	Are		Yiel	d (q/ha)		% Inoness	Econo	mics of d	lemonstr	ration (Rs./ha)	Ec	conomics (Rs./		k
Crop	Area	Technology demonstrated	Variety	Farmer s	a (ha)	High	Demo		Chec	Increas e in	Gross	Gross Retur	Net Retur	BCR	Gross	Gross Retur	Net Retur	BCR (R/C
				3	(па)	nigii	LOW	Averag e	k	yield	Cost	n	n	(R/C)	Cost	n	n)
Pigeonpe a		Introduction of new variety+ seed treatment with fungicide and biofertilizer s	Vaishal i	323	35	10.4	7.6	9.19	7.56	21.56	2796 0	57604	29644	2.06	2858 0	47341	18761	1.65
Pigeonpe a	Use of bio pesticide s	Use of Biopesticde s and H. armigera traps	Vaishal i	10	5		8.9	10.87			3197 0	68100	36130	2.13012198	3321	55828	22618	1.68

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Catego ry & Crop	Themat ic Area	Name of the technology	Variet y	No. of Farm ers	Ar ea (ha	ea (ha) Demo Che			% Cha nge	Para	her meter s		(I	Rs./ha)	stration		(Rs./	Ź		
)	Hia				in Yield	De mo	Che ck	Gros s	Gros s	Net Retu	BCR (R/C)	Gros s	Gros s	Net Retu	BC R
							LOW		CK	Ticiu	IIIO	CK	Cost	Retu rn	rn	(NC)	Cost	Retu rn	rn	(R/ C)
Cereals																				
Paddy	To increase the producti vity of paddy	Introducation of new variety+ seed treatment with fungicide and biofertilizers	NAUR -1	273	60	51.3 7	44.6	48.63	42.1 7	15.3 2	-	-	3785 5	9570 4	5784 9	2.52	3995 0	8273 8	4278 8	2.0
	To increase the producti vity of paddy	Introducation of new variety+ seed treatment with fungicide and biofertilizers	GNR-2	120	28.	47.3 9	43.5	45.77	42.1	8.54			3815	9007	5192 5	2.36	3945 0	8273 8	4328	2.0
	To increase the producti vity of paddy	Introducation of new variety+ seed treatment with fungicide and biofertilizers	GNR-3	334	88.	55.3	47.8	52.18	44.2	18.0			3865	1079 08	6925 8	2.79	3945	9116 1	5171	2.3
	To populari ze the new high yielding bio fortified variety	Introducation of new variety+ seed treatment with fungicide and biofertilizers	GNR-4	3	1	43.4	40.8	38.48	34.7	10.8			3787 0	7572 9	3785 9	1.99	3845	6464 9	2619 9	1.6
	To populari ze the	Introducation of new variety+ seed treatment	GNR-5	45	9.2	49.5	44.2	46.04	42.1 7	9.18			3746	9060 7	5314 7	2.41	3866	7852 1	3986 1	2.0

	new high yielding variety	with fungicide and biofertilizers																	
	To populari ze the new high yielding variety	Introducation of new variety+ seed treatment with fungicide and biofertilizers	GNR-6	98	20.	48.6	42.0	45.64	40.2	13.4		3820	8982	5162	2.35	3899	7492 7	3593 7	1.9
		Introducation of new variety+ seed treatment with fungicide and biofertilizers	GNR-7	17	5.8	47.2 1	40.4 6	44.55	39.8 7	11.7		3820	8767 4	4947 4	2.29	3899	7423 8	3524 8	1.9
	Introduc tion of IPDM technolo gies	Biopestcides (Insectides+fun gicides) seed treatment, seedling dip and foliar sprays	GNR- 3	20	10	52.6	46.4	48.34	42.2 6	14.3 9		3915	9750 1	5835 1	2.49044 6999	4234	8692 8	4458 8	2.0 5
	Use of bio agents	Seedling dip treatment with biopesticides, Corcyra egg staple and Pheromone traps	GNR- 4	20	10	42.6	36.5	38.59	34.1	13.1		4011	8331	4320 5	2.07716 2802	4102	7400	3298 6	1.8
Vegeta bles																			
Little gourd		New variety	GNL G1	44	1	220	180	200	170	17.6 5		9200 0	5000 00	4080 00	5.43	8200 0	4250 00	3430 00	5.1 8
Pointed gourd		New variety	GNPG 1	15	0.2	118	98	108	96	12.5 0		5500	3780 00	3230 00	6.87	5000	3360 00	2860 00	6.7
Fruit crops																			
Mango	IPDM	Nauoji Steinhouse fruit fly	Kesar	150	30	113. 58	89.6	98.40	84.8	16.04		3520 0	1968 00	1616 00	5.59	3140 0	1696 00	1382 00	5.4

Mango		biofertilizer	PSB, KMB, Azoto	325	13 0	120	82	101	92	9.78		7500 0	4040 00	3290 00	5.39	6400	3680 00	3040 00	5.7 5
Mango		Novel spray	Novel spray	140	35	132	80	106	94	12.7 7		7800 0	4240 00	3460 00	5.44	6500 0	3760 00	3110 00	5.7 8
Mango		New variety	Sonpa ri	500	5						·	Contin	ue						
Sapota		Novel spray	Availa ble	21	8.4	150	130	140	125	12.0		7200 0	2100 00	1380 00	2.92	6800	1875 00	1195 00	2.7 6
Sapota		Novel spray	Availa ble	20	35	150	128. 94	139.4 7	125	11.5 8		7048 0	2789 40	2084 60	3.96	6729 0	2500 00	1827 10	3.7
Spices & condim ents																			
Turmer ic	To populari ze the new high yielding variety	Introduction of new variety+ seed treatment with fungicide and bio fertilizers	GNT- 2	40	4.0	256. 72	207. 23	224.5	198. 31	13.2		1321 90	3969 69	2647 79	3.00301 8383	1395 60	3494 22	2098 62	2.5 0
Medici nal & aromati c plants																			
Fodder Crops																			
Tuber crops																			
Sweet potato		New variety	C-71	3	0.3	123	102	112.5	100	12.5		3800	6000	2200	1.58	3400	5000	1600	1.4 7

^{*} Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

^{**} BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Category	Thematic	Name of the	No. of	No.of Units (Animal/	Ma	ajor	%	Ot	her	Econo	mics of	demonst	ration	Ec	conomic	of che	ck
	area	technology	Farmer	Poultry/ Birds, etc)	parai	neters	change	para	meter		(R	s.)			(R	s.)	
		demonstrated			Demo	Check	in major	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
							parameter			Cost	Return	Return	(R/C)	Cost	Return	Return	(R / C)
,						NIL											

^{*} Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

FLD on Fisheries

	Thematic	Name of the	No. of	No.of	Major pa productio	rameters on (Kg/ha)	% change	Other pa	rameter	Econo	omics of den	nonstration	(Rs.)			s of check	
Category	area	technology demonstrated	Farmer	units	Demons Ration	Check	in major parameter	Demons ration(Sur vival)	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Fisheries	Inland Fisheries	Fish seed stocking density and species ratio	112	27	1018	640	59.06			47000	122160	75160	2.59	39000	76800	37800	1.96
Fisheries	Inland fisheries	Fish feed nutrition and feeding methods	136	42	2436	1830	33.11			10838	297192	188804	2.74	87080	21960	132520	2.52
Fisheries	Inland Fisheries	Pungasius cage culture in village tank	5	6X4 mt. 2 cage	1500	860	74.42			93500	180000	86500	1.92	68600	10320	34600	1.50
Fisheries	Integrated Fish farming	Fish seed production from fry to yearlings	7	0.5	32000	20000	60.00			68000	224000	156000	3.29	52000	12200	70000	2.34

^{*} Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

^{**} BCR= GROSS RETURN/GROSS COST

^{**} BCR= GROSS RETURN/GROSS COST

FLD on Other Enterprises

Category	Name of the technology	No. of Farmer	No.of farmer	No.of units	Major par	rameters	% change in major	Other p	arameter	Econon	nics of dem Rs./	onstration unit	(Rs.) or			s of check Rs./unit	
	demonstrated				Demo	Check	parameter	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
										Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)

D. Performance of Cluster Frontline Demonstrations (CFLD)

CFLD on Oilseed crops

					Area	Yield (q/ha)				monstration (Rs./ha)		ics of check s./ha)	
Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	(ha)	Demo	Check	% Increase in yield	Gross Return	Net Return		Gross Return		BCR (R/C)
						NI	L		•					

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
			NIL		

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed obse		% change in major	Labo	r reduction	(man days))	(Rs	Cost redu ./ha or Rs.	uction /Unit etc.)	
						Demo	Check	parameter	Land preparation	Sowing	Weeding	Total	Land preparatio n	Labour	Irrigati on	Total
							NIL									

^{**} BCR= GROSS RETURN/GROSS COST

FLD on Other Enterprises: Kitchen Gardening

Category	Name of the	No. of Farmer	No.of	No.of	Major par	ameters	% change	Other pa	arameter	Econon	nics of dem	onstration	(Rs.) or		Economic	s of check	
	technology		farmer	units			in major				Rs./	unit			(Rs.) or	Rs./unit	
	demonstrated				Demo	Check	parameter	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
										Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Vegetable kit	Kitchen	To introduce	722	7.2	3	2	1.6	-	-	8400	10000	-3400	0.60	10000	4000	-6000	0.40
	gardening	them															
		scientific															
		model for															
		maintaining															
		Kitchen															
		gardening in															
		Rabi and															
		Summer															

FLD on Demonstration details on crop hybrids

	tachnalagy	Hebuid	No of	Awaa		Yield (q/	ha)		% Increase in	Ecor	omics of demo	nstration (Rs./h	na)
Crop	technology demonstrated	•	Hybrid No. of Area Variety Farmers (ha)			Demo		Charle	yield	Gross	Gross	Net Return	BCR
	ucinonstrateu	variety	raimers	(IIa)	High	Low	Average	Check	yiciu	Cost	Return	Net Return	(R/C)
						NIL							

Note: Remove the Enterprises/crops which have not been shown

CFLD on Pulse crops

							Yie	d (q/ha)			Econ	omics of	demonstr	ation	E	Cconomic	s of chec	k
Crop	Thematic	Technology	Variety	No. of	Area					% Increase		(Rs	./ha)			(Rs	./ha)	
Стор	Area	demonstrated	variety	Farmers	(ha)		Dem	0	Check	in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average	CHECK		Cost	Return	Return	(R / C)	Cost	Return	Return	(R/C)
Pigeon		Introduction new	GNP-2	125	20	11.92	9.44	10.71	8.94	20.47	27590	62118	34528	2.25	26834	51852	25018	1.93
pea		released variety																
Green		Introduction new	GM-6	100	20	9.42	7.04	8.36	6.76	23.67	26950	66286	39336	2.46	28270	53620	25350	1.90
gram		released variety																
Chickpea		Introduction new	GG-5	200	200	15.73	11.26	13.78	10.93	26.08	28580	81613	53033	2.86	27790	64640	36850	2.33
		released variety																

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

^{**} BCR= GROSS RETURN/GROSS CO

3.4. Training Programmes

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of						ts			
	courses		Others			SC/ST		G	Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	2	2	37	39	54	40	94	56	77	133
Resource	2	11	3	14	14	73	87	25	76	101
Conservation										
Technologies										
Cropping Systems	1	23	5	28	28	1	29	51	6	57
Crop Diversification	1	19	0	19	0	2	2	19	2	21
Integrated Farming	1	6	0	6	53	18	71	59	18	77
Micro				0			0	0	0	0
Irrigation/irrigation										
Seed production	2	2	5	7	35	129	164	37	134	171
Nursery	2	18	6	24	24	64	88	42	70	112
management	_	_	_	_						
Integrated Crop	2	0	0	0	143	129	272	143	129	272
Management			_		_	_	_		_	
Soil & water	1	13	9	22	0	0	0	13	9	22
conservation			_							
Integrated nutrient	1	25	7	32	0	0	0	25	7	32
management				_						
Production of	1	2	3	5	55	41	96	57	44	101
organic inputs										
Others (pl specify)	1.0	101		10.6	10.5	40.5	000	707	550	1000
Total	16	121	75	196	406	497	903	527	572	1099
II Horticulture										
a) Vegetable Crops			440						110	101
Off-season	3	5	112	117	1	6	7	6	118	124
vegetables		1.0	00	0.0	0	0		10	00	0.0
Export potential	2	10	88	98	0	0	0	10	88	98
vegetables										
Others (pl specify)	_	4 =	200	04.5				4.0	206	222
Total (a)	5	15	200	215	1	6	7	16	206	222
b) Fruits	2	4	22	26	22	70	110	27	101	100
Training and	2	4	22	26	33	79	112	37	101	138
Pruning										
Others (pl specify)		4	22	2.	22	=0	110	25	101	120
Total (b)	2	4	22	26	33	79	112	37	101	138
c) Ornamental										
Plants	1	2	5.0	50	0	0	0	2	5.0	50
Nursery	1	3	56	59	0	0	0	3	56	59
Management					-					
Others (pl specify)	1	2	<i>E C</i>	50	0	0	0	2	<i>E C</i>	50
Total (c)	1	3	56	59	0	0	0	3	56	59
d) Plantation crops					-					
e) Tuber crops										
f) Spices]		

g) Medicinal and										
Aromatic Plants										
GT (a-g)	8	22	278	300	34	85	119	56	363	419
III Soil Health and										
Fertility										
Management										
Soil fertility	2	25	10	35	71	48	119	96	58	154
management										
Integrated water										
management										
Integrated Nutrient										
Management										
Production and use										
of organic inputs										
Nutrient Use										
Efficiency										
Balance use of	1	42	8	50	16	16	32	58	24	82
fertilizers										
Soil and Water	1	2	0	2	15	50	65	17	50	67
Testing										
Others (pl specify)										
Total	4	69	18	87	102	114	216	171	132	303
IV Livestock		0,2			102					
Production and										
Management										
Total	0	0	0	0	0	0	0	0	0	0
V Home	·		U	-	0	· ·			U	
Science/Women										
empowerment										
Total	0	0	0	0	0	0	0	0	0	0
VI Agril.	U	U	U	U	U	U	U	U	U	U
Engineering										
Total	0	0	0	0	0	0	0	0	0	0
VII Plant	U	U	U	U	U	U	U	U	U	U
Protection Protection										
	1	71	0	71	0	0	0	71	0	71
Integrated Pest	1	/1	U	/1	U	U	U	/1	U	/1
Management	1	10	0	10	10	40	50	20	40	CO
Integrated Disease	1	10	0	10	10	48	58	20	48	68
Management	1	1.5	0	1.5	1.5	0	1.5	20	0	20
Bio-control of pests	1	15	0	15	15	0	15	30	0	30
and diseases		0	0	0	10	2	10	1.0		10
Production of bio	1	0	0	0	10	2	12	10	2	12
control agents and										
bio pesticides										
Others (pl specify)										
Total	4	96	0	96	35	50	85	131	50	181
VIII Fisheries										
Integrated fish	1	66	21	87	15	0	15	81	21	102
farming										
Fish processing and	1	30	23	53	2	0	2	32	23	55
value addition										
Carp fry and	1	9	30	39	0	0	0	9	30	39
fingerling rearing							<u> </u>	<u> </u>		
Hatchery	1	3	7	10	0	0	0	3	7	10

management and										
culture of										
freshwater prawn										
Total	4	108	81	189	17	0	17	125	81	206
IX Production of										
Inputs at site										
Planting material production	1	10	41	51	0	0	0	10	41	51
Bio-pesticides	1	4	38	42	0	0	0	4	38	42
production										
Bio-fertilizer	0	0	0	0	0	0	0	0	0	0
production										
Organic manures	1	0	0	0	15	0	15	15	0	15
production										
Total	3	14	79	93	15	0	15	29	79	108
X										
CapacityBuilding										
and Group										
Dynamics										
Leadership development	2	59	12	71	0	0	0	59	12	71
Group dynamics	1	110	30	140	0	0	0	110	30	140
Formation and	1	0	0	0	0	21	21	0	21	21
Management of										
SHGs										
Total	4	169	42	211	0	21	21	169	63	232
XI Agro-forestry										
Total	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	43	599	573	1172	609	767	1376	1208	1340	2548

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of				P	articipan	ts			
	courses		Others			SC/ST		G	Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	0	0	0	48	11	59	48	11	59
Resource	1	0	0	0	75	21	96	75	21	96
Conservation										
Technologies										
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	1	0	0	0	13	14	27	13	14	27
Integrated Farming	1	0	0	0	11	20	31	11	20	31
Micro				0			0	0	0	0
Irrigation/irrigation										
Seed production	1	0	0	0	13	15	28	13	15	28
Nursery										
management										
Integrated Crop	3	0	0	0	39	56	95	39	56	95
Management										
Soil & water	1	0	14	14	0	0	0	0	14	14
conservation										
Integrated nutrient	3	0	0	0	33	75	108	33	75	108
management										

Production of	1	0	0	0	38	3	41	38	3	41
organic inputs										
Others (pl specify)										
Total	13	0	14	14	270	215	485	270	229	499
II Horticulture										
a) Vegetable Crops										
Off-season	1	0	0	0	1	30	31	1	30	31
vegetables	•				1	20		-		
Nursery raising	1	0	0	0	0	31	31	0	31	31
Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Protective	1	0	0	0	<u> </u>	3		25	3	
cultivation	1	0	U	U	25	3	28	25	3	28
Others (pl specify)					2 (0.0	•		0.0
Total (a)	3	0	0	0	26	64	90	26	64	90
b) Fruits										
Total (b)	0	0	0	0	0	0	0	0	0	0
c) Ornamental										
Plants										
Total (c)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Total (d)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices	U	U	U	U	U	U	U	U	U	U
	0	0	0	0	0	0	0	0	0	0
Total (f)	U	U	U	U	U	U	U	U	U	U
g) Medicinal and										
Aromatic Plants										
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	3	0	0	0	26	64	90	26	64	90
III Soil Health and										
Fertility										
Management										
Soil fertility	1	0	0	0	1	64	65	1	64	65
management										
Total	1	0	0	0	1	64	65	1	64	65
IV Livestock										
Production and										
Management										
Total	0	0	0	0	0	0	0	0	0	0
V Home	<u> </u>		· ·		-	- U			· ·	
Science/Women										
empowerment										
Minimization of	1	0	37	37	0	0	0	0	37	37
nutrient loss in	1		37	37	0	U		U	37	37
processing Storage leas				1						
Storage loss										
minimization										
techniques			1.0	1.0		4.5				
Value addition	2	0	18	18	0	46	46	0	64	64
Women	1	19	7	26	0	0	0	19	7	26
empowerment										
Women and child	1	0	0	0	1	55	56	55	1	56
care										
Total	5	19	62	81	1	101	102	20	163	183

VI Agril.										
Engineering										
Total	0	0	0	0	0	0	0	0	0	0
VII Plant										
Protection										
Integrated Pest	2	0	0	0	11	94	105	11	94	105
Management										
Integrated Disease	2	44	0	44	13	87	100	57	87	144
Management										
Bio-control of pests	1	0	0	0	14	0	14	14	0	14
and diseases										
Production of bio	1	0	0	0	26	1	27	26	1	27
control agents and										
bio pesticides										
Others (pl specify)								100	10.5	
Total	6	44	0	44	64	182	246	108	182	290
VIII Fisheries			_			_				_
Integrated fish	1	1	7	8	0	0	0	1	7	8
farming										
Carp breeding and										
hatchery										
management	1	1	1		2	0	2		1	7
Carp fry and	1	4	1	5	2	0	2	6	1	7
fingerling rearing	1	26	21	47	0	0	0	26	21	47
Composite fish	1	26	21	47	0	0	0	26	21	47
culture	1	0	4	10	0	0	0	0	4	10
Hatchery	1	8	4	12	0	0	0	8	4	12
management and culture of										
freshwater prawn										
Breeding and										
culture of										
ornamental fishes										
Pen culture of fish										
and prawn										
Shrimp farming	1	16	13	29	0	0	0	16	13	29
Pearl culture	1	10	13			U	0	10	13	2)
Fish processing and										
value addition										
Total	5	55	46	101	2	0	2	57	46	103
IX Production of				101						100
Inputs at site										
Planting material	1	19	21	40	0	0	0	19	21	40
production	_									
Bio-pesticides	1	0	0	0	35	0	35	35	0	35
production										
Bio-fertilizer	0	0	0	0	0	0	0	0	0	0
production										
Organic manures	1	0	0	0	94	2	96	94	2	96
production										
Total	3	19	21	40	129	2	131	148	23	171
X Capacity										
Building and										
Group Dynamics										

Leadership	1	0	0	0	0	74	74	0	74	74
development										
Group dynamics	2	0	56	56	13	87	100	13	143	156
Formation and	1	0	0	0	54	4	58	54	4	58
Management of										
SHGs										
Total	4	0	56	56	67	165	232	67	221	288
XI Agro-forestry										
Total	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	40	137	199	336	560	793	1353	697	992	1689

 $Farmers'\ Training\ including\ sponsored\ training\ programmes-CONSOLIDATED\ (On+Off\ campus)$

Thematic area	No. of				P	articipan	ts			
	courses		Others			SC/ST		(Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	3	2	37	39	102	51	153	104	88	192
Resource	3	11	3	14	89	94	183	100	97	197
Conservation										
Technologies										
Cropping Systems	1	23	5	28	28	1	29	51	6	57
Crop Diversification	2	19	0	19	13	16	29	32	16	48
Integrated Farming	2	6	0	6	64	38	102	70	38	108
Micro										
Irrigation/irrigation										
Seed production	3	2	5	7	48	144	192	50	149	199
Nursery	2	18	6	24	24	64	88	42	70	112
management										
Integrated Crop	5	0	0	0	182	185	367	182	185	367
Management										
Soil & water	2	13	23	36	0	0	0	13	23	36
conservatioin										
Integrated nutrient	4	25	7	32	33	75	108	58	82	140
management										
Production of	2	2	3	5	93	44	137	95	47	142
organic inputs										
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	29	121	89	210	676	712	1388	797	801	1598
II Horticulture										
a) Vegetable Crops										
Production of low	0	0	0	0	0	0	0	0	0	0
value and high										
valume crops										
Off-season	4	5	112	117	2	36	38	7	148	155
vegetables										
Nursery raising	1	0	0	0	0	31	31	0	31	31
Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential	2	10	88	98	0	0	0	10	88	98
vegetables										
Protective	1	0	0	0	25	3	28	25	3	28
cultivation										
Others (pl specify)										

Total (a)	8	15	200	215	27	70	97	42	270	312
b) Fruits										
Training and	2	4	22	26	33	79	112	37	101	138
Pruning										
Total (b)	2	4	22	26	33	79	112	37	101	138
c) Ornamental										
Plants										
Nursery	1	3	56	59	0	0	0	3	56	59
Management										
Total (c)	1	3	56	59	0	0	0	3	56	59
d) Plantation crops										
Total (d)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Total (f)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and				<u> </u>	•	0		Ů	•	-
Aromatic Plants										
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	11	22	278	300	60	149	209	82	427	509
III Soil Health and			270	300	00	147	207	02	721	307
Fertility Fertility										
Management										
Soil fertility	3	25	10	35	72	112	184	97	122	219
management	3	23	10		12	112	104		122	217
Integrated water	0	0	0	0	0	0	0	0	0	0
management	U					U		0	U	
Nutrient Use	0	0	0	0	0	0	0	0	0	0
Efficiency	U					U		U	U	
Balance use of	1	42	8	50	16	16	32	58	24	82
fertilizers	1	72	0	30	10	10	32	30	27	02
Soil and Water	1	2	0	2	15	50	65	17	50	67
Testing	1	2			13	30	0.5	1 /	30	07
Others (pl specify)										
Total	5	69	18	87	103	178	281	172	196	368
IV Livestock	<u> </u>	07	10	07	103	170	201	1/2	170	300
Production and										
Management										
Total	0	0	0	0	0	0	0	0	0	0
V Home	U	<u> </u>	U	 0	U	U	U	U	U	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Science/Women										
empowerment										
Household food	0	0	0	0	0	0	0	0	0	0
	U	0	U		0	U	0	U	U	
security by kitchen gardening and										
nutrition gardening Designing and	0	0	0	0	0	0	0	0	0	0
	U				0	U			U	
development for high nutrient										
efficiency diet Minimization of	1	0	37	37	0	0	0	0	37	37
	1	U	3/	31	0	U	U	U	3/	3/
nutrient loss in										
processing										
		1								

Storage loss minimization	0	0	0	0	0	0	0	0	0	0
techniques		1	10	10		4.5	4.5		- 4	<i>C.</i> 4
Value addition	2	0	18	18	0	46	46	0	64	64
Women empowerment	1	19	7	26	0	0	0	19	7	26
Women and child	1	0	0	0	1	55	56	1	55	56
care			-	- 1						
Others (pl specify)				1						
Total	5	19	62	81	1	101	102	20	163	183
VI Agril.		1		†						
Engineering										
Total		1		1						
VII Plant		1								
Protection										
Integrated Pest	3	71	0	71	11	94	105	82	94	176
Management										
Integrated Disease	3	54	0	54	23	135	158	77	135	212
Management										
Bio-control of pests	2	15	0	15	29	0	29	44	0	44
and diseases										
Production of bio	2	0	0	0	36	3	39	36	3	39
control agents and										
bio pesticides										
Others (pl specify)		1		1						
Total	10	140	0	140	99	232	331	239	232	471
VIII Fisheries		1								
Integrated fish	2	67	28	95	15	0	15	82	28	110
farming										
Carp breeding and		1		1						
hatchery										
management										
Carp fry and	2	13	31	44	2	0	2	15	31	46
fingerling rearing										
Composite fish	1	26	21	47	0	0	0	26	21	47
culture										
Hatchery	2	11	11	22	0	0	0	11	11	22
management and										
culture of										
freshwater prawn					l					<u> </u>
Breeding and	0	0	0	0	0	0	0	0	0	0
culture of										
ornamental fishes										
Pen culture of fish	0	0	0	0	0	0	0	0	0	0
and prawn										
Shrimp farming	1	16	13	29	0	0	0	16	13	29
Pearl culture										
Fish processing and										
value addition										
Others (pl specify)		1								
Total	9	163	127	290	19	0	19	182	127	309
		1		1						
IX Production of Inputs at site										1

Leadership development	3	59	12	71	0	74	74	59	86	145
Dynamics										
X CapacityBuilding and Group										
Total	6	33	100	133	144	2	146	177	102	279
Organic manures production	2	0	0	0	109	2	111	109	2	111
Bio-pesticides production Bio-fertilizer	0	0	0	0	0	0	0	0	0	0
Planting material production	2 2	29	62 38	91	35	0	35	29 39	62 38	91

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

					No. of 1	Participa	nts			
Area of training	No. of	General			SC/ST			Grand Total		
Area of training	Courses	Male	Female	Total	Male	Femal e	Tota l	Mal e	Femal e	Tota l
Integrated farming	1	0	0	0	21	2	23	21	2	23
Integrated crop management	1	6	12	18	0	0	0	6	12	18
Production of organic inputs	1	22	7	29	0	0	0	22	7	29
Shrimp farming	1	12	8	20	0	0	0	12	8	20
Fish processing and value addition	1	3	32	35	1	5	6	4	37	41
Off-season vegetables	1	84	85	169	0	0	0	84	85	169
Training & Pruning	1	22	10	32	0	0	0	22	10	32
TOTAL	7	149	154	303	22	7	29	171	161	332

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

		No. of Participants									
A was of twoining	No. of	General			SC/ST			Grand Total			
Area of training	Courses	Male	Fema	Total	Mal	Femal	Tota	Mal	Fem	Total	
		Maic	le		e	e	l	e	ale	Total	
Integrated crop	1	16	10	26	0	0	0	16	10	26	
management											
Leadership development	2	42	39	81	0	0	0	42	39	81	
Integrated Pest	1	0	0	0	13	50	63	13	50	63	
Management											
TOTAL	4	58	49	107	13	50	63	71	99	170	

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

	No of				No. o	f Partici	pants				
A non of training	No. of Cours		General			SC/ST			Grand Total		
Area of training		Mal	Fema	Tot	Mal	Fema	Tot	Mal	Fema	Tot	
	es	e	le	al	e	le	al	e	le	al	
Integrated farming	1	0	0	0	21	2	23	21	2	23	
Integrated crop management	2	22	22	44	0	0	0	22	22	44	
Production of organic inputs	1	22	7	29	0	0	0	22	7	29	
Shrimp farming	1	12	8	20	0	0	0	12	8	20	
Fish processing and value	1	3	32	35	1	5	6	4	37	41	
addition											
Off-season vegetables	1	84	85	169	0	0	0	84	85	169	
Training & Pruning	1	22	10	32	0	0	0	22	10	32	
Leadership development	2	42	39	81	0	0	0	42	39	81	
Integrated Pest Management	1	0	0	0	13	50	63	13	50	63	
TOTAL	11	207	203	410	35	57	92	242	260	502	

Sponsored training programmes

	No. of			1	No. of	Particip	pants			
Area of training	Cours	General			SC/ST			Gı	rand To	tal
g	es	Male	Femal e	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity	1	5	40	45	0	0	0	5	40	45
of crops										
Commercial production of field crops	1	0	0	0	0	30	30	0	30	30
Production and value addition										
Soil health and fertility management	1	9	33	42	0	0	0	9	33	42
Total	3	14	73	87	0	30	30	14	103	117
Plant Protection										
Integrated Disease Management	2	63	1	64	28	38	66	91	39	130
Bio-control of pests and diseases	2	0	27	27	34	4	38	34	31	65
Total	4	63	28	91	62	42	104	125	70	195
Livestock and fisheries										
Fisheries Management	1	15	0	15	0	0	0	15	0	15
Total	1	15	0	15	0	0	0	15	0	15
Home Science										
Value addition	1	0	0	0	0	20	20	0	20	20
Total	1	0	0	0	0	20	20	0	20	20
Agricultural Extension										
Capacity Building and Group Dynamics	2	32	40	72	0	0	0	32	40	72
Total	2	32	40	72	0	0	0	32	40	72
GRAND TOTAL	11	124	141	265	62	92	154	186	233	419

Details of trainings organized under ASCI

	No of	No. of Participants									
Area of training No. of Courses		General			SC/ST			Grand Total			
	Male	Female	Total	Male	Female	Total	Male	Female	Total		
Organic grower	1	14	6	20	0	0	0	14	6	20	
Assistant gardener	1	10	5	15	1	4	5	11	9	20	
	2	24	11	35	1	4	5	25	15	40	

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	1	5691	12	5703
Diagnostic visits	26	94	5	99
Field Day	16	632	4	636
Group discussions	21	408	6	414
Kisan Ghosthi	8	1176	77	1253
Film Show	33	1263	12	1275
Self -help groups	3	51	3	54
Kisan Mela	1	712	10	722
Exhibition	10	8301	15	8316
Scientists' visit to farmers field	50	325	7	332
Farmers' seminar/workshop	3	391	6	397
Method Demonstrations	3	27	6	33

Celebration of important days	8	5358	12	5370
Exposure visits	20	512	15	527
Others (pl.specify)				0
Awareness Programme	5	1080	10	1090
Guest lecture	81	5216	44	5260
Field Visit	80	585	18	603
Khedut Shibir/Mahila Shibir	13	2315	28	2343
Farmer's visit to KVK Farm	144	855	10	865
Soil & water sample analysis	143	140	5	145
Educational Tour	1	75	2	77
Workshop/Seminar/Meeting	55	0	0	
attended				0
Organic farming pak parisanvad	2	310	8	318
Dignitaries visit to KVK	12	0	0	0
Dial out conference	3	145	6	151
Krishi Mahotsav	3	1778	15	1793
Swachhata hi seva	11	441	10	451
Total	756	37881	346	38227

Details of other extension programmes

Particulars Particulars	Number
Electronic Media (CD./DVD)	3
Extension Literature	22
Newspaper coverage	35
Popular articles	10
Radio Talks	3
TV Talks	4
Animal health amps (Number of animals treated)	-
Others (pl. specify)	
Research Paper published	4
E-KVK serviced	62
Total	143

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	-	102.4	3,04,545.00	55
		NAUR-1	-	25.70	81,400.00	15
Pulses						
	Pigeon pea	Vaishali	-	7.37	61,955.00	20
	Green gram	GM-6	-	0.75	6750.00	5
	Pigeon pea (Seed hub)	Vaishali	-	252.60	2117859	115
		Total		388.82	2267964	210

Production of Planting Materials by the KVK

Crop	Name of the	Name of the	Name of the	Number	Value (Rs.)	Number of
	crop	variety	hybrid			farmers
Vegetable seedlings	Brinjal	Gulabi	-	3650	2190.00	56
	Tomato	S-22	-	1540	924.00	24
	Chilli	-	-	465	279.00	10
	Cabbage	-	-	225	135.00	6
	Total			5880	3528	96

Vegetables and other crop produced at KVK, Navsari

Sr.	Name of crop	Qty. (kg)	Income	Sr.	Name of crop	Qty. (kg)	Income		
No.			generated	No.			generated		
			(Rs.)				(Rs.)		
1	Brinjal	170	3400	14	Onion	3	60		
2	Tomato	53.75	1075	15	Brocoli	18	360		
3	Cabbage	23	460	16	Castor	72	3600		
4	Ridge gourd	128.75	2575	17	Red beet	32	80		
5	Smooth gourd	251	5020	18	Drum stick	290	483		
6	Okra	77.75	1555	19	Watermelon	2377.6	59440		
7	Bitter gourd	12.5	250	20	Cauli flower	2	40		
8	Guvar	4.75	95	21	Raddish	86	215		
9	Indian bean	16.25	325	22	Green leafy	823	4115		
					vegetables				
10	Bottle gourd	69	1380	23	Tur	2.5	50		
11	Little gourd	15	300	24	Green gram	310	24800		
12	Pointed gourd	6.25	125	25	Mango	420	16800		
13	Chick pea	280.5	1402.5	26	Red Cabbage	6	120		
	TOTAL	1108.5	17962.5	TOTAL 4442.1 1101					
	Grand total = 128125.5.00 i.e. One lakh twenty eight thousand one hundred twenty five								

Production of livestock materials:

Live stock / Fishery	Name of the breed	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Fishery	Catla, Rohu, Grass carp	1425 kg.	142500.00	159
	Total	1425 kg.	142500.00	159

- 4. Literature Developed/Published (with full title, author & reference)
- A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

B. Literature developed/published

Item	Title	Authors name	Number
Research	-	-	4
papers			
Technical	APR, AAP, SAC, ZREAC, MPR, QPR,	-	25
reports	AGRESCO,QRT		
Popular	RKVY yojana antagrat chiku ni safal	Dr. C.K.Timbadia	Swadesh swapan
articles	varta		
	Siyalu kathol pakoni kheti padhdhati	Dr.K.A.Shah	Krishi Jivan
		Dr.Sumit Salunkhe	
		Shri R.A.Gurjar	
		Dr. C.K.Timbadia	
	Siyalu kathol pakoni kheti padhdhati	Dr.K.A.Shah	Krishi Vigyan
		Dr.Sumit Salunkhe	
		Shri R.A.Gurjar	
		Dr. C.K.Timbadia	
	Chana ni safal varta	-	Krishi Vigyan
	Kitchen Garden	-	Divya Bhaskar
	Gramya vistar bad have shaheroma pan	-	Sandesh
	kitchen garden banavvu sambhav		
	Samprat samayma khetini vastvikta and	Dr. C.K.Timbadia	Financial Express
	shasvat khetini Jaruriyat		_
Extension			22
literature			
Others (Pl.			
specify)			
	TOTAL		58

C. Details of Electronic Media Produced

Sr. No.	Type of media (CD / VCD / DVD/ Audio-Cassette) and Video Clippings developed	Title of the programme	Number
1	CD / DVD	Farmer's Meet	2
2	CD	Khedut shibir	1
3	CD	Kisan Diwas	2
4	CD	ASCI Training	2
5	CD	PM Kisan Sanmman nidhi	5

D. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs:

:Success stories:

Successful Case or Success Story of Paddy (GNR-7) (2019-20)

Profile								
Name	:	Nanubhai Chhimabhai Gavit	Age	:	54			
Village	:	Chaundha	Education	:	10 th Pass			
Taluka	:	Vasda	Land holding	:	4 Vingha			
Dist.	:	Navsari	Farming	:	22 year			
			Experience					
Mo. no	••	9586561315	Crops grown	:	Paddy, Pigeon pea, Chick pea,			
					Vegetable and Black Gram			

BEFORE CONTACT WITH KVK

Since more than 30 year back, he is cultivated paddy traditionally and uses hybrid variety as results of this, the cost of cultivation is increased and potential yield is not obtained.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	0.10 ha.
Variety	-	Paddy (GNR-7)
Spacing	-	20 x 15 cm
Seed	-	Thairum @ 3 gm/kg seed Azosrillum,
Treatment		PSB and KMB each @ 10-20 ml/kg seed
Seed rate	-	25-30 kg/ha
Nutrient		120:30:00 kg NPK/ha
management		
Weeding	-	1 time weeding



• After KVK intervention

- ➤ Adaption of improve and moderate resistance to pest and disease medium durations high yielding variety
- > Integrated nutrient management in crop
- Scientific method of cultivation practices adopted

• Area of adaptive of technology

> Started chickpea cultivation 0.10 ha

• Result of this technology

- ✓ Seed and chemical fertilizers requirement are reduced
- ✓ Yield is increased
- ✓ Cost on seed purchasing on every is reduced
- ✓ More than 34.57 % additional income

• Yield performance of Paddy (GNR-7) Plot

Yield	(kg/ha)	% increase over
Demo.	Check	check
5534	4589	20.59

Income from this

Total income of Rs. 83310 /ha during 115 days only.

Horizontal spread

About 66 farm family in the village and surrounding village adopted this technology.





Paddy plot of Nanubhai Chhimabhai Gavit

Successful Case or Success Story of Green gram (2019-20)

Profile							
Name	:	Jasuben Mohan Patel	Age	:	58		
Village	••	Vedacha	Education	:	8 th Pass		
Taluka	:	Jalalpore	Land	:	6 Vigha (1. 5ha)		
			holding				
Dist.	:	Navsari	Farming	:	32 year		
			Experience				
Mo. no	:	9879629329	Crops grown	:	Paddy, Mango, Sugarcane,		
					and Green Gram		

BEFORE CONTACT WITH KVK

Since more than 26 year back, he is cultivated Green gram traditionally, but it affected by Yellow vein mosaic virus after emergence as results of this potential yield is not obtained and the cost of cultivation is increased.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	0.2 ha
Variety	-	Green Gram – GM-6
Spacing	-	45 x10 cm
Seed	-	Thairum @ 3 gm/kg seed Rhizobium,
Treatment		PSB and KMB each @ 10-20 ml/kg
		seed
Seed rate	-	25 kg/ha
Nutrient	-	20:40:00 kg NPK/ha
management		
Weeding	-	2 time weeding



• After KVK intervention

- Adaption of *summer* green gram recently released good yielding variety
- > Integrated nutrient management in crop
- > Scientific method of cultivation practices adopted

• Area of adaptive of technology

> Started Green gram cultivation approximate 1.0 Vigha (0.20 ha)

Result of this technology

- ✓ Seed requirement is decreased
- ✓ Plant growth is improved
- ✓ Yield is increased
- ✓ More than 38.56 % additional income

• Yield performance of Green Gram Plot

Yie	ld (kg/ha)	% increase over
Demo.	Check	check
886	692	28.03

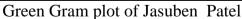
• Income from this

Total income of Rs. 67120/ha during 75-80 days only.

• Horizontal spread

About 39 farm family in the village and surrounding village adopted this technology.







Green Gram plot of Jasuben Patel

Successful Case or Success Story of Chick pea (2019-20)

	Profile									
Name	:	Ramiben Janaksingh	Age	:	52					
		Gavit	_							
Village	:	Dharampuri	Education	:	3 th Pass					
Taluka	:	Vansda	Land	:	2 vigha (0.5 ha)					
			holding							
Dist.	:	Navsari	Farming	:	30 year					
			Experience							
Mo. no	:		Crops	:	Paddy, Chick pea, Okra and					
			grown		Pigeon pea					

BEFORE CONTACT WITH KVK

Since more than 20 year back, she is cultivated Chick pea traditionally but it wilted after emergence as results of this, the cost of cultivation is increased and potential yield is not obtained.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	1 vigha (0.2 ha)
Variety	-	Gujarat Chick Pea - 5
Spacing	-	30 cm
Seed	-	Thairum @ 3 gm/kg seed
Treatment		Rhizobium, PSB and KMB each @
		10-20 ml/kg seed
Seed rate	-	60 – 70 kg/ha
Nutrient	-	20:40:00 kg NPK/ha
management		
Weeding	-	2 time weeding



After KVK intervention

- Adaption of short durations and wilt resistance high yielding variety
- > Integrated nutrient management in crop
- > Scientific method of cultivation practices adopted

Area of adaptive of technology

> Started chickpea cultivation 1 vigha (0.2 ha)

• Result of this technology

- ✓ Seed requirement is decreased
- ✓ Yield is increased
- ✓ Mortality of plant is reduced
- ✓ More than 32.94 % additional income

• Yield performance of Chick Pea Plot (GG-5)

Yield	(kg/ha)	% increase over
Demo.	Check	check
1396	1119	24.75

• Income from this

Total income of Rs. 67970 /ha during 115 days only.

Horizontal spread

About 43 farm family in the village and surrounding village adopted this technology.



Successful Case or Success Story of Pigeon pea (2019-20)

	Profile									
Name	:	Champaben Nanubhai Mahala	Age	:	46					
Village	:	Limzar	Education	:	6 th Pass					
Taluka	:	Vansada	Land	:	4 vigha (1.0 ha)					
			holding							
Dist.	:	Navsari	Farming	:	24 year					
			Experience							
Mo. no	:	9979392945	Crops	:	Paddy, Green Gram,					
			grown		Pigeon pea and					
					Vegetables					

BEFORE CONTACT WITH KVK

Since more than 20 year back, he is cultivated Pigeon pea traditionally, but it wilted after emergence as results of this potential yield is not obtained and, the cost of cultivation is increased.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	1.0 vigha (0.2 ha)	
Variety	-	Gujarat Navsari Pigeon pea-2	
Spacing	-	120 cm	
Seed	-	Thairum @ 3 gm/kg seed Rhizobium,	
Treatment		PSB and KMB each @ 10-20 ml/kg	
		seed	
Seed rate	-	12-15 kg/ha	
Nutrient	-	25:50:00 kg NPK/ha	
management			
Weeding	-	2 time weeding	



After KVK intervention

- Adaption of short durations and wilt resistance high yielding variety
- > Integrated nutrient management and seed treatment with fungicide and bio-fertilizers in crop
- > Scientific method of cultivation practices adopted

Area of adaptive of technology

> Started pigeon pea cultivation 1.0 Vigha

• Result of this technology

- ✓ Seed requirement is decreased
- ✓ Yield is increased
- ✓ Mortality of plant is reduced
- ✓ More than 29.59 % additional income

• Yield performance of Pigeon pea Plot

Yield	(kg/ha)	% increase over		
Demo.	Check	check		
1148	902	27.27		

• Income from this

> Total income of Rs. 74410 /ha during 150-160 days only.

Horizontal spread

About 39 farm family in the village and surrounding village adopted this technology.



Use of novel in Mango

Name	Pinaben Hirjibhai Patel
Address	A-25, Gayatri Sankul Society,
	Vijalpore Road, Navsari
Mobile No	9825760079
Age	50
Education	M.Sc. Microbiology
Land	5 ha
Holding	
Farming	7 Years
Experience	
Crops	Sugarcan, Mango
Grown	
Livestock	Nil
Before	No awareness about use of novel
Contact	banana Sap.
With KVK	
After	She became aware and habituate
KVK	about use of novel banana foliar
Guidance	sap spray at four critical stage of
	reproductive phase.



Production Detail

Result to adopt this technology Puality fruits Minimum fruit drop of Mango

	Mango		
	Check	Banana Novel	
		sap spray	
Area	1.0 ha	1.0 ha	
Yield	65 q	70 q	
Price (q)	3500	3500	
Income	227500	245000	
Cost	38000	40000	
Profit (12	189500	205000	
month)			

New variety of Little gourd GNLG-1

Profile Name : Santubhai Devalbhai Chavaria Address : Ankalachha, Vansada Mo.no : 8141073512		
Address : Ankalachha, Vansada Mo.no : 8141073512	日本 (41759-10	
Mo.no : 8141073512	A STATE OF THE PARTY OF THE PAR	
记录是2000年的		
1 /1 /2 / 1 / 1 / 1 / 2 / 2 / 2 / 2 / 2		
Age : 45 year Education : 8 th Pass	Ten May 3	
	A STATE OF THE PARTY OF THE PAR	
Occupation : Farming	国工社工	
Farming : 20 Year		
Experience		
Land holding : 20 Guntha	The state of the s	
Live stock : No		
Problem : Low yield in Little guard		
Before contact with KVK : • Plants were grown without proper d		
He used to apply fertilizers withou	t soil sample	
analysis.	. 1 . 11.	
He was not aware about new h variety Gujarat Navsari Little Gourge		
Warlety Gujarat Navsari Entire Gould He was not aware about benefits of		
banana sap foliar fertilizer.	use of flover	
After KVK intervention : • He became aware about importa	ance of soil	
analysis based application of		
manure which reduced cost of cultiv		
Proper fertilizer at proper stage &		
liquid organic fertilizers at reproduc		
Proper grading of produce help		
marketing & high remunerative price		
Effect of KVK : Farmers became aware about important points and the second control of th	rtance of soil	
intervention analysis.		
	Farmers became aware about new high yielding	
variety. "Gujarat Navsari Littl	e Gourd-1"	
compared to local variety.		
• Farmer became habituate for		
recommended dose of fertilizer on	basis of soil	
analysis.		
NPK (50:50:50) proper distance as		
biocontrol methods like light trap a	nd biological	
control of fruit fly by culure .		
Economics Check GNLG-1		
AREA 10 Guntha 10 Guntha		
YIELD 1500 Kg 2000 Kg		
PRICE 25 Rs/Kg 25Rs / Kg	25Rs / Kg	
INCOME 37,500 Rs 50,000 Rs		
COST 17,000 Rs 17,000 Rs		
PROFIT 20,500 33,000 Rs		

Use of Pointed gourd: GNPG-1 (Success Story 2019-20)

Name	Niruben Pravinbhai Patel		
Address	Ashram Faliya,		
	AtPo. : Sindhai		
	Ta : Vansda		
	Dist. : Navsari		
	State : Gujarat		
Mobile No	9913691044		
Age	55		
Education	9 th Pass		
Land	4 Acre		
Holding			
Farming	25 Years		
Experience			
Crops	Parval, Paddy, Sugarcan, Brinjal		
Grown			
Livestock	5 Cow and 3 Buffalo		
Before	No information about new		
Contact	released variety of Pointed		
With KVK	gourd : GNPG-1 (Release Year -		
	2014) from NAU, Navsari.		
After	She became aware and habituate		
KVK	about use of Pointed gourd:		
Guidance	GNPG-1 from NAU, Navsari.		



Production Detail

Result to adopt this technology

Pullitative bigger size of fruits

High production compared to local variety

	Pointed gourd		
	GNPG-1 Check		
Area	0.2 ha	0.2 ha	
Yield	92 q/ha	80 q/ha	
Price (q)	2000	2000	
Gross cost	55000	50000	
Gross return	184000	160000	
Net return	129000	110000	

Success Story: Home Science

Title: Papad and Papdi making: A venture Adding value to Farm Women's social and economic status.



Name of the women Enterpreneurer: Smt. Jasuben Mohanbhai Patel

Village: Vedchha(Chok Faliya)

Tal: Jalalpor Gujarat.

Dist:Navsari

Mob. 9879629329

Profile			Thematic area: Value Addition
Age	:	59 yrs.	Adoption of technology:
Education	:	8 th pass	Attended 2 days on campus training on
Occupation	:	Housewife	post harvest technology
Marital status	:	Married	
Enterpreneur Experience	:	8 yrs	
Live Stock	:	-	

Introduction and Problems:

This is the story of rural farm women Smt. Jasuben Mohanbhai Patel. Living with her family in village of Navsari district totally dependent on agriculture. Before 10 years she was faced economic crisis due to lack of knowledge and awareness about scientific farming and value addition of farm produce.

Before KVK intervention and KVK contact:

- -She had not any knowledge about value addition.
- -Due to small land area they take only three crop per year.
- -Small scale farming is not enough source for income generation and sustainable livelihood.

KVK intervention:

- -Before 8 year she came in contact with KVK through FTC, Navsari then after three month she had attended **2 days on campus training on post harvest technology**. After this training she become aware about value addition of regional crops. Before KVK contact she prepared home base Papad and Papadi during summer season only. But after that training she decide to develop her skill and apply her knowledge on vocational base then she start making papad and papadi on commercial base. she start to took order from near by her villages. after that till day she could not look back in her busssiness.
- KVK Motivate to start an enterprise.
- Technical guidance for starting the unit.
- Advisory services.
- Follow- up visits.
- Technical back-up in running the unit when required

After KVK Intervention:

- Now a day she sell her product in both Navsari city and neighbour villages
- She prepare 10 kg papad per day.
- She benefitted by market linkages provided by KVK

- Now a days her bussiness not limited to Papad and Papadi but she also produce Mango and Lemon squash, Pulp, Pickle etc.
- They take another 3 vigha land on rent bases
- She scientifically cultivate Sugarcane, Mango, Gram and Green gram, Black gram as intercropping crop in Sugarcane.

Econimic Impact:

- Now a days she sell her product Papad: 300 /-Rs./kg, Rice papadi: 350/- Rs./kg, Mango pulp 150/- Rs./kg.
- She earn 7000 8000/- rupees benefit per month.

Horizontal spread:

Motivated from the above Mentioned Smt. Jasuben M. Patel now a days one another group created in Mohanpur village. One more thing she hire another neighbor 4 to 5 women on 50/rupees per 3 hour base for papad making. Provide them opportunity to earn income at door step. This enterprise will provide skill development to the women dwellers in identified area, rural families will be benefited directly and creating ray of hope for better sources of livelihood, and sustainable life with self- sufficiency and self- reliance.



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

Innovative technologies used for Transfer of Technology

1. Group formation a new approach: The expansion of Indian agriculture is depending on 103 million farm families involved in agricultural activities. It is impossible to reach such a huge number of farmers individually. The effective and efficient diffusion of new technologies to the needy farmers is very much essential for increasing the yield. To deal with this problem, KVK have adopted a new approach that is to involve the leader of the farmer in planning and implementation of



the activities. Under this approach, groups are formed from the entire village. These groups are varying in size, generally 20 to 30 members in each group. Then after 3 to 5 leaders are identified from the same group and they are given the detail guidance and information, so that they can help to group members in better way.

2. Innovative farmers in extension programme

The farmers those are introducing new ideas and technology to their farming system are innovative farmers, such farmers are being identified and information regarding their ideas, adoptive technology are being documented by this centre. Platform in the form of Innovative farmers meet is being provided, so that innovative farmers will display and discuss their

ideas and adoptive technology and become helpful to common farmers. Thus KVK becomes the linkage between innovative farmers and common farmers in agricultural extension activities.

3. Convergence: There are so many government and non government agencies, those are working in interest of farmers in different subject are being converged and provided platform, so they could reach to the farmers field, fulfill the objectives of their project and ultimately achieve their goals/targets in the form of progressive farmers and higher GDP in Agriculture.

4. Diversification in agriculture crops.

New crops varieties those are suitable in the south Gujarat climate and have more demand in market are being introduced, so farmers can earn higher return. American Sweet corn has good market and consumer preference, so it can fetch high price in market and farmers can earn good return too.

TOT through Dial Out Conference: In collaboration with Reliance Foundation, KVK, Navsari organised dial out conference to give the relative subject information to tribal farmers.

6. e- Connectivity at KVK

By using latest information technologies KVK tried to reach to the farmers. KVK has established e-KVK, that enables the farming communities to get regular message regarding different crops, their varieties, climate report, pest and diseases related information. More than 1.5 lakh voice message had been sent and covered about 3200 farmers of the district.



- **7. Demand driven activities:** KVK has started demand driven activities in order to create interest among the farming communities in agriculture through various scheme. KVK has started work for providing marketing facilities of their farm produce. By becoming mediator Several MoU between private companies and farmers have been done for marketing of agricultural produce, so farmers can get assured market and encouraging returns of their farm produce. Thus farmers remain in touch with KVK and get information of latest technologies and new varieties of crops.
- **8. Felicitation of innovative farmer's:** KVK, Navsari identified innovative farmers of the district and they were selected by the scrutinizing committee. They are felicitated during different activities of the KVK. This function brings huge motivation of other farmers. During the function they explain their technology

F. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development.

Sr.	Crop /	ITK Practiced	Purpose of ITK	
No.	Enterprise		-	
1	Pulse&	Farmers are using fly ash to control	To control sucking pest	
	Vegetables	sucking pest		
2	Mango	Farmers apply irrigation in mango	For initiation of flowering	
		during winter		
3	Mango	Smoke of chilly and neem leaves in	To control disease & pest during	
		mango orchard	winter	
4	Mix farming	Banana+chilly+Maize+leafy vegetable	To increase income from per unit	
			ares	
5	Vegetable	Spry cow urine and mixture of cow	To save fertilizer and reduce pest	
		urine and buttermilk in vegetable incidences		
6	Vegetable	Spry Jethropa Leaves ark to control	ves ark to control To control Jassid thrips and hopper.	
		sucking pest.		
7	Animal Science	Farmers fed boiled grains with jiggery For expulsion of placenta and ene		
			supply	
8	Animal Science	Farmers apply used oil on skin of To treat skin diseases		
		animal		
9	Animal Science	Farmers fed fodder as whole	To decrease the wastage of feed	

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

A. Practicing Farmers

- a) PRA
- b) Problem identified from Matrix
- c) Field level observations
- d) Farmer group discussions
- e) ON / OFF campus training

B. Rural Youth

- a) PRA
- b) Problem identified from Matrix
- c) Field level observations
- d) Farmer group discussions
- e) ON / OFF campus training

C. In-service personnel

- a) PRA
- b) Problem identified from Matrix
- c) Field level observations
- d) Farmer group discussions
- e) ON / OFF campus training

5.2. Indicate the methodology for identifying OFTs/FLDs For OFT:

- i) PRA
 - ii) Problem identified from Matrix
 - iii) Field level observations
 - iv) Farmer group discussions
 - v) Others if any

For FLD:

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system
- iv) Others if any

5.3. Field activities

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

Sr.No.	Taluka	Village	Village	Village		
Intensive	Intensive operational area					
1.	Jalalpore	Bodali	Mandir	Pethan		
2.	Navsari	Adada	Kachhol	Unn		
3.	Gandevi	Changa	Dhanori	Vagalvada		
4.	Chikhali	Soldhara	Bamanvada	Gholav		
5.	Vansada	Nani Valzar	Unai Charvi	Kharjai		
6.	Khergam	Naranpur	Bahej	Bhervi		

- ii. No. of farm families selected per village: 125
- iii. No. of survey/PRA conducted: 12
- iv. No. of technologies taken to the adopted villages 20
- v. Name of the technologies found suitable by the farmers of the adopted villages:
 - ♦ Eco-friendly management of pest
 - ♦ Need based insecticide application
 - ♦ Introduction of bio-pesticide
 - Use of Methyl eugenol trap to control fruit fly
 - ♦ Urea treatment of paddy straw
 - Use of bypass fat during transition period
 - Use of chillated minerals and vitamins
 - fish seed stocking density and species ration in village tanks
 - ♦ Composite fish culture in village tank
 - Importance of variety, use of bio fertilizer and land configuration
 - High yielding variety and balance use of fertilizer
 - High yielding variety and balance use of fertilizer
 - Recommended spacing & seed rate and recommended dose of fertilizer
 - ♦ System Rice Intensification
 - ♦ Introduction of new variety
 - Use of Pre emergence herbicide

- ◆ Spraying of CaNo3 & Boron at 50% flowering
- ♦ Spray novel liquid fertilizer
- ♦ Popularized canopy management
- ♦ Introduction of Scientific- Economic- Nutritional kitchen garden

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

Specific technology/skill transferred	No. of beneficiaries	Per cent knowledge
Popularize new variety of paddy-NAUR 1 and GNR-3	3123	95
Green manuring	2963	75
New variety of Green gram- Meha	1213	81
Adoption of inter cropping in sugarcane	2912	73
INM in paddy	2689	42
Adoption of new tur variety	2364	74
Replacement of paddy through vegetables	1412	52
Use of bio fertilizer in sapota	2798	70
INM in vegetables	1110	76
New variety in Mango	1032	37
Kitchen gardening	3102	92
Control of fruit fly in mango	4098	93
Awareness regarding pesticide	3712	51

Horizontal spread of technologies

Crop	Technologies	No. of village	No. of farmers	Area in ha.
Paddy	Introduction of New variety	165	6700	2800
raddy	SRI	45	380	160
Pigeon pea	New variety	135	3900	1600
Green gram	New variety	115	2851	898
Gram	New variety	28	1247	174
Sugar cane	Inter cropping	220	5500	3500
Indian bean	New variety	32	225	49
	Fruit fly control	179	7650	3124
Mango	Bio fertilizers	48	1280	482
	New variety	86	1250	892
Sapota	INM	39	4220	1750
Okra	Off Season cultivation	88	1280	550
Vegetable	INM	39	793	351
Brinjal/ Okra	IPDM/ Yellow sticky trap	72	1900	290
Kitchen garden	Nutritional	168	5100	90
Fisheries	Inland aquaculture	54	387	76

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

5.4 . No. and Name of villages adopted for Doubling Farmers Income. Indicate whether benchmark survey of the villages are done or not.

Sr.No.	Name of District	Name of village	No.of Farmers	Whether survey completed
1	Navsari	Chaudha	150	100 % per completed
2	Navsari	Vadi-chaudha	150	100 % per completed
3	Navsari	Bedmal	150	100 % per completed
4	Navsari	Kavdej	150	100 % per completed
5	Navsari	Mankuniya	150	100 % per completed

6. LINKAGES

A. Functional linkage with different organizations

S.N.	Name of the Organization	Nature of Linkage
1.	N.A.U., Navsari	Provides administrative and technical support
2.	Central Government	RKVY Project, Seed village project
3.	Department of Animal Husbandry, Navsari	Collaborative training, extension programmes
4.	Bank of Baroda	Collaborative training programmes
5.	Gandevi Co-operative Multipurpose	Organizing Khedut shibirs
	Society, Gandevi	
6.	Department of Agriculure, Navsari	Collaborative training, extension programmes
7.	Forest Department	Collaborative training programmes on Agro-Forestry
8.	Department of Horticulture, Navsari	Collaborative extension programmes
9.	Department of Fisheries, Navsari	Collaborative training, extension programmes
10.	Veterinary College of Navsari	Collaborative training, extension programmes
11.	State Bank of India	Collaborative extension programmes
12.	Cohesion foundation Navsari, NABARD	Collaborative extension programmes
13.	ATMA, Tapi, Valsad, Surat, Navsari,	Collaborative training and extension programmes
	Chikhali, Jalalpore	
14.	Tribal Sub plan, Vansda	Collaborative extension programmes
15.	Ramkrishna Cheritable Trust, Surat	Kitchen garden kit
16.	P.P.Savani group, Surat	Collaborative extension programmes
17.	Shri D.L.Patel	Meals of labours of KVK
18.	Tarsadiya foundation	Collaborative training and extension programmes
19.	Brahmakumaries, Navsari	Collaborative training and extension programmes
20.	JCI, Navsari	Collaborative training and extension programmes
21.	Lioness club Navsari	Collaborative training and extension programmes

22.	Manav Kalyankari Trust, Navsari	Collaborative training and extension programmes
23.	Lok Seva Trust, Kharel	Collaborative training and extension programmes
24.	Sneh-setu cheritable trust	Collaborative training and extension programmes
25.	Gujarat State Water Shed Management,	Collaborative training and extension programmes
	Gandhinagar	
26.	ASPEE foundation, Mumbai	Collaborative training and extension programmes
27.	JCB, Mumbai	Collaborative training and extension programmes
28.	Gandhi Memorial project, Gujarat	Collaborative training and extension programmes
	Vidyapeeth, Ahmedabad	
29.	FAI, New Delhi	Collaborative training and extension programmes
30.	IFFCO, Surat	Collaborative training and extension programmes
31.	ASCI, New Delhi	Skill training programmes
32.	New Holland FIAT New Delhi	Collaborative training and extension programmes
33.	Samarpan Dhyan Kendra, Navsari	Collaborative training and extension programmes
34.	Senior Citizen Trust, Navsari	Collaborative training and extension programmes
35.	Anavil Sanskar Trust, Navsari	Collaborative training and extension programmes
36.	Gender Resource Center, Gandhinagar	Collaborative training and extension programmes
37.	Navsari Jilla Panchayat, Navsari	Collaborative programmes
38	Rotary club of Navsari	Collaborative programmes

B. List of 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.)
Establishment of demonstration-cum-training	12943	State Govt.	23.30
center for inland fisheries			
Strengthening and testing of universities	12306-A	State Govt.	11.0
technologies on farmer's field through			
adoptive trials, Phase-II			
Cluster frontline demonstrations of Rabi	2105/00	Central Govt.	4.50
pulses 2017-18			
Development, Demonstration and awareness	18172-2	State Govt.	44.10
programme of Organic farming in South			
Gujarat region			
Creation of seed hub for increasing	2704-02-A	Central Govt.	-
indigenous production of pulses in India Seed			
Hubs			

RKVY-Skill development	02113/02	Central Govt.	3.60
	2126		
Turmeric	18930-В	Central Govt.	0.30
Mega seed project	2068/C	Central Govt.	0.15
ARYA Project	18191/00	Central Govt.	17.88
PKVY	2125/02	Central Govt.	3.30
Tree plantation	2130/03	Central Govt.	0.10
Microbial based agril. waste management using vermi composting under (SAP)	2132/03	Central Govt.	22.70
Implementation animal disease	2128/03	Central Govt.	0.15

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

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

Coordination activities between KVK and ATMA

Sr. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
1	Meetings	4	4		
2	Research projects		N	IL	
3	Training programmes	4	370	3	
4	Demonstrations	NIL			•
5	Extension Programmes				
6	Kisan Mela	1	1000	3	
7	Exposure visit	4	302	3	
8	Exhibition	1	1200	1	
9	Farmers Field School	3	50	2	
10	Publications		N	IL	
11	Other Activities (Pl.specify)		N	IL	

D. Give details of programmes implemented under National Horticultural Mission

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

E. Nature of linkage with National Fisheries Development Board

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

F. Details of linkage with RKVY

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

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

8. Innovator Farmer's Meet

Sr.No.	Particulars	Details
1	Have you conducted Farm Innovators meet in your district?	Yes
2	Brief report in this regard	

9. Farmers Field School (FFS)

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

10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed: Farmers' reactions on specific technologies

Sr.	Feed Back
No	
1	Banana sap highly performed and gave good results
2	Increase seed availability for newly released varieties at village level timely and in small
2	packing (pulses, vegetables etc.).
3	Introduction of IPDM technology becomes helpful in reducing pests and disease
4	NAUR-1 is found susceptible to false smut & also loading.
5	Grain discoloration was found in GNR-3.
6	Profuse tillering but more pest incidence was found in GNR-4 after penical initiation.
7	The wastage of paddy straw is reduced and milk yield is increased by feeding of urea treated
,	paddy straw.
8	Optimized inter calving period in buffalo
9	More number of complication around parturition in animals.
10	Inland aquaculture variety is good
11	Fish production increased with less expenditure.
12	Improve in the interest and initiation to bring village tanks for fish culture activities.

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

Technical Feedback on the demonstrated technologies

Sr.	Feed Back
No	
1	Terrace gardening, Box gardening and hanging pot kitchen gardening / availability of
1	vegetables throughout the year on season basis.
2	Cost of feeding animals to be reduced
3	Experiment on amur common carp need to be conducted
4	Experiment on cage culture in big village tanks need to be conducted
5	Preparation and testing of amrutmitti, amrutjal, jivamrut and panchgavya for different crops.
6	Preparation and testing of herbal pesticide for controlling pests and diseases.
7	Testing of cow dung and cow urine for enhancing growth and controlling pests and diseases.
8	Module for pesticide free productions.
9	Availability of country seeds.
10	Develop salt reclamation bio fertilizers.
11	To develop new variety of hybrid vegetables.
12	Develop early maturing and high yielding pigeon pea variety.
13	Branches of mango or sometime mango plant die in month of September-October.
14	Stem cracking or bark splitting was found in mango.

11. Technology Week celebration during 2019-20: NO

Period of observing Technology Week: Nil

Total number of farmers visited : -

Total number of agencies involved : -

Number of demonstrations visited by the farmers with in KVK campus: -

Other Details

Types of Activities	No. of Activities	Number of Farmers
Gosthies	-	-
Lectures organized	-	-
Exhibition	-	-
Film show	-	-
Farm Visit	-	-
Diagnostic Practicals	-	-
Supply of Literature (No.)	-	-
Supply of Seed (q)	-	-
Total number of farmers visited the technology week	-	1

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

13. IMPACT

A. Impact of KVK activities

Name of specific technology/skill	No. of	% of	Change in income (Rs.)	
transferred	participants	adoption	Before	After
			(Rs./Unit)	(Rs./Unit)
Mango Bio fertilizer	226	60%	134000	196800
Brinjal Novel spray	25	45%	175000	220000
Mango Fruit fly management	200	22%	154770	165690
Introduction of new variety Paddy	498	68%	75934	88439
(NAUR-1, GNR-3,GNR-2, S-25114 SRI)				
Fish seed stocking density and species	92	72%	72000	168000
ratio carps culture				
Fish seed rearing (Fry to yearlings)	5	100%	85000	178000
Fish nutritions & feeding management in	118	70%	70000	174000
carps culture				

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

B. Cases of large scale adoption- full cases may be given at the end as Annexure.

- 1. Newly released variety of paddy NAUR- 1 is adopted in large scale in tribal area of Navsari district. Farmers are growing NAUR-1 variety instead of hybrid paddy variety. During this year, more than 2000 farmers have adopted NAUR-1 variety covering more than 500 ha.
- 2. Vaishali variety of Tur was adopted by farmers. This variety used for dual purpose, for dal and green vegetable purpose. In Navsari district, 1891 farmers have adopted this variety.
- 3. Yellow vein mosaic resistant variety, Meha of green gram is largely adopted by farmers. Total 467 ha area was covered by this variety. This variety produced 21% higher yield than old variety but farmers get higher price of Meha.
- 4. New short duration high value crop sweet corn is adopted by farmers. Nearly 130 ha. area are covered under this crop. Nearly 700 farmers are cultivating sweet corn because this crop earn more profit during short duration.
- 5. Farmers are aware about soil health. They are using bio compost from the sugar factories. Near about 1 lakh ton of Bio compost was used by the farmers.

C. Details of impact analysis of KVK activities carried out during the reporting period Out Put of Trainings: On basis of pre and post evaluation of trainings

Agronomy:

- Technology Benefits: Old varieties has been replaced by new varieties/newly released SAU varieties. by increase in per cent yield.
- Economic Benefits: Due increase in yield farmers obtained higher return over expenditure.
- Environment benefits: New varieties are tolerant to many pest and disease, there by reduction in use of pesticides and production of residue free food grains.

Horticulture:

- The knowledge level of farmer about use of bio fertilizer in mango increased by 62% as a result of KVK intervention which was earlier 25%
- More than 48% farmer adopted novel spray fertilizer in brinjal after intervention of KVK which was earlier only 20%
- After initiative of sonpari mango variety 35% farmers started interest in growing of few sonpari plants in their farm.
- Regarding little gourd, the crop is still in cultivation & total production of crop has not reported but farmer were happy by growing little gourd in their farm. Because growing are long and slanderous well as higher in yield compared to local variety.

Plant protection:

- Technology Benefits: After adopting this technology lot of area has been transformed into use of fruit fly traps not only in mango and sapota also.
- Economic Benefits: Change in the income status of farmers income for unit are has been increased
- Environment benefits: Residue free fruits are available and no of sprays to control fruit fly in mango has nearer to nil.

Home Science

- Through training on nutrition education more than 70% women of adopted villages are become conscious about the health of their family.
- With the help of training on kitchen garden, around 70-80% farmers and farm women have adopted kitchen garden concept at their own backyard and around 20-30% farmers are making kitchen garden on large scale and got additional income through selling the excess vegetables.
- Farm women are now preparing mango pulp, jam, and masalas at their home rather than buying it from the market.
- Farm women prepared value added products like masalas, gulkand, rose water, rose syrup. pickles, farsan, biscuits, ragi papad, flour, ragi biscuits etc., and sold it near market their own from home, Krishi Mela as well as in different stall programmes of KVK, Navsari
- Moreover best out of west products like doormats, napkin, decorative diyas (Kodiya), decorative flower pot, sathiya, bamboo, wall piece, toys, flower pot etc. prepared by farm women and also after selling all products socio- economic status will increase.
- Exposure visits organised by KVK at different food industry and places to aware and educate farm women.

Extension

- Enriched the knowledge level of field functionaries.
- Increased convergence among different department through strong coordination with line departments.
- Because of linkages, it became possible to conduct various extension activities.
- Due to the follow-up by the functionaries, demonstration and technologies have become effective.
- In general, the area, production, and productivity increased in the district.

Fisheries

- Fresh water culture activities in village tanks/khet talavadi increased by 200 % in Navsari district.
- Fish production yield increased by 48-17% in villages tanks.
- Farmer's visits and enquiries are increased by 400% for fish farming activities & related issues.
- Now there enquiries from farmers for implementing latest modern aquaculture technologies such as RAS, BIOFLOC, Aqua ponies & cage farming.
- Fish farming activities are becoming effective tools for employment generation. Livelihood nutrition security for poor & active rural youth.

- Fish consumption rate per capital increased by 300 % in the home holds these encouraged by KVK through training & demonstration of fish farming.
- Fish farming activities in villages tanks by rural youth not only increase the income but rural development works such as sports ground, water tanks for cattle, street lights & roads have been done.

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS	No. of feedback / query on SMS
		was sent	sent
April 2019	1	2062	6
May	5	69102	15
June	-	-	-
July	7	35070	21
August	7	8199	14
September	5	6372	8
October	7	4126	9
November	5	8230	13
December	7	18532	25
January 2019	6	6374	12
February	6	11378	20
March	6	2066	11
Total	62	171511	154

NT 6	3.6	Type of Messages						
Name of KVK	Message Type	Crop	Livesto ck	Weath er	Marke- ting	Aware- ness	Other enterprise	Total
	Text only	25	2	2	3	20	10	62
	Voice only	0	0	0	0	0	0	0
KVK,	Voice & Text both	0	0	0	0	0	0	0
Navsari	Total Messages	25	2	2	3	20	10	62
	Total farmers Benefitted	68954	3564	6591	6120	45628	40654	171511

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sr.	Sr. Demo Year of		Details of production		on	Amoun				
No.	Unit	Establishment	Area (ha)	Vaniety	Produce	Otre	Cost of	Gross	Remarks	
NO.	UIIIt	Establishment	(IIa)	Variety	Produce	Qty.	inputs	income		
	NIL									

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

Name Date of D	Date of 🛛 🤻 🥆	Details of produ	ection Amount (Rs.	.) Remark
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of the crop	sowing	harvest		Variety	Type of Produce	Qty.	Cost of inputs	Gross income	S
Cereals									
Paddy	July-19	Oct-19	2	GNR-3	Seed Pro.	90.00		252000	
Paddy	July-19	Oct-19	0.5	GNR-7	Seed Pro.	19.00		60000	
Sweet	Oct-19	Jan-20	0.3	S-75	General	1.0		20000	
Pulses				•		•			
Pigeo n pea	July-19	Feb-20	0.5	GT- 104	Demo.	5.00		30000	
Gram	Dec-19	March-20	0.5	GG-5	Demo.	4.50		31500	
Green gram	Oct-19	Jan-20	0.1	CO4	Demo.	1.0		10000	
Fruits									
Waterme lon	Dec-19	March-20	0.3	Sugar queen	Demo.	42. 0		105000	
Vegetable	es .					•		•	
Vegetabl es	-	-	0.2	-	Demo.	-	-	10000	-

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

Sr.	Name of the	04	Amou	D 1	
No.	Product	Cost of inputs C		Gross income	Remarks
-	-	-	-	-	-

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

Sr.	Name	Details of production			Amour		
No	of the animal /	Breed	Rreed Type of		Cost of	Gross	Remarks
	bird / aquatics	Dreed	Produce	Qty.	inputs	income	
1	Rohu, Catla,	-	Fish	1425		142500	-
	Mrigal, Grass			kg			
	carp						

E. Utilization of hostel facilities

Accommodation available (No. of beds): 12

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2019	-	-	
May 2019	2	7	
June 2019	8	5	
July 2019	1	40	
August 2019	22	17	
September 2019	1	56	
October 2019	-	-	
November 2019	1	40	
December 2019	2	19	

January 2020	3	5	
February 2020	2	10	
March 2020	1	5	

F. Database management: NIL

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

$Rain\ Water\ recharge\ structure\ of\ KVK. Building\ which\ has\ capacity\ of\ 37000\ liter$

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

Farmers who come to KVK, are exposed to Rainwater Harvesting Demonstration Unit

16. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank	Name of	Location	Branch	Account	Account	MICR	IFSC
account	the bank		code	Name	Number	Number	Number
With Host	State Bank	Agriculture	3889	Senior	30043864605	396002062	SBIN0003889
Institute	of India,	campus,		Scientist			
With	Navsari	Eru char		& Head,			
KVK		rasta		KVK,			
				NAU,			
				Navsari			

B. Utilization of KVK funds during the year 2019-20 (Rs. in lakh)

Sr. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	ecurring Contingencies			
1	Pay & Allowances	99.50	99.50	94.72
2	Traveling allowances	1.00	1.00	0.98
3	Contingencies	12.00	12.00	11.98
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
В	POL, repair of vehicles, tractor and equipments	-	-	-
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	-	-	-
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	-	-	-
Е	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	-	-	-
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	-	-	-
G	Training of extension functionaries	_	_	_
Н	Maintenance of buildings	_	_	_
I	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-
J	Library	-	-	_
	TOTAL (A)	112.50	112.50	107.68
B. No	on-Recurring Contingencies			
1	Works			
2	Equipments including SWTL & Furniture	8.00	8.00	7.91
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
	TOTAL (B)	8.00	8.00	7.91
C. RI	EVOLVING FUND	-		-
	GRAND TOTAL (A+B+C)	120.5	120.5	115.59

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 2017 to	5,17,198	6,84,662	9,05,080	2,96,780
March 2018				
April 2018 to	2,96,198	9,55,529	7,50,924	* 5,01,385
March 2019				
April 2019 to	5,30,366	8,40,393	6,64,364	# 6,77,414
March 2020				

^{* 5,30,366-5,01,385 = 28,981} EMD + SD GF ~15IF BFTFDF\ HDF CTFP

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.K.A.Shah	Scientist (Agronomy)	QRT meeting & presenatation attended	Anand	25-26/11/19
Dr.Sumit R. Salunkhe Dr.Prabhu Nayaka	Scientist (Extension Education) Scientist (Plant protection)	ISEE National seminar	Bikaner	14/11/19 to 16/11/19
Dr.C.K.Timbadia	Scientist (Senior Scientist & Head)	Annual zonal workshop of KVKs, Maharashtra Gujarat & goa	Goa	14-15/6/19
Dr.C.K.Timbadia	Scientist (Senior Scientist & Head)	ARYA review meeting	Kolhapur	12/12/19
Prof R.A. Gurjar	Scientist (Horticulture)	Agricultural education entrepreneurship and field development in india	Manipur, Imphal	27/8/19 to 16/9/19
Dr.Sumit R. Salunkhe	Scientist (Extension Education)	Agripreurship current & future	Aspee collage, Navsari	26/12/19 to 28/12/19
Dr.K.A.Shah	Scientist (Agronomy)	Review workshop on creation of seed hub project	Bhopal	10-12/2/2020
Dr.K.A.Shah	Scientist (Agronomy)	Pulses as the climate smart crops : Challenges and opportunities	Bhopal	10-12/2/20
Dr.C.K.Timbadia	Scientist (Senior Scientist & Head)	Review cum action plan workshop on CFLD oilseeds and pulses in Gujarat	Ahmadabad	13-14/2/20

 $^{\# 6,77,414-7,06,395 = 28,981 \}text{ EMD} + \text{SD GF} \sim 15 \text{IF NAU Fund DF} \setminus 8 = \text{Fg;OZ SIF"} \text{[P]}$

18. List the other collaborative research/ extension projects and also write brief key achievements of the projects.

- Pro SOIL
- NARI (Please indicate the name of one adopted village and give the activities carried over on nutri sensitive agriculture)
- VATICA

Seed Hub Project:

- 1. Separate account opening date as per guidelines: 18/8/17
- 2. Transfer/deposit of money by host institute (Mention date):
- 3. Infrastructure created:

Sr. No.	Name of items (Like Godown, Processing equipment)	Allotted Fund (in Lakh)	Expanse Fund (in Lakh)	Unutilized Fund (in Lakh)
1	For godown construction the fund was transfer to executive engineer	35.00	30.67	4.33
2	Seed processing machinery equipment	15.00	6.57	8.43
	Total	50.00	37.24	12.76

4. Details of seed production and budget allocation for Seed hubs at KVK, Navsari

State	Nam of	Seed production target (q)			Budget allocati	on (Rs. In Lakh)		
	the centre	2017-18	2018-19	2019-20	Seed processing & storage Infrastructure	Revolv	ing und	
					under (2016-17)	2016-17	2017-18	
Gujarat	KVK, Navsari	700	1000	1000	50.00	35.00	65.00	

5. Quality seed production of pulses by seed-hub (KVK, Navsari) during 2016-17 to 2018-19 is a under

State	Name of the						Quantity of seed produced (q)			
	centre		Variety	(FS/CS)	2017-18	2018- 19	2019- 20	Total		
Gujarat	KVK, Navsari	Navsari	Mung bean	CS	15	00*	3	18		
			Pigeon pea	CS	80	300	00**	380		
Total					95	300	3	398		

Note: * Due to unavailability of foundation/breeder seeds of newly released variety target was not achieved.

^{**} Due to high rainfall (more than 2100 mm) during 2019-20 and unavailability of foundation/breeder seeds of newly released variety target were not achieved.

ARYA Project Attracting and Retaining Rural Youth in Agriculture

Sr. No.	Project Title	Subject	Group	Trained people
1	Establishment of mango processing training centre	Horticulture	06	283
2	Entrepreneurship development through Mango nursery	Horticulture	02	92
3	Entrepreneurship development in rural youth through fish farming in village tanks	Fisheries	2	50

Project No. 1 Entrepreneurship development through Mango nursery

D	Different activities of ARYA									
Sr. No.	Date	Details	Village	Total						
1	31/05/2019	ARYA project information meeting	Abrama	4						
2	07/06/2019	ARYA orientation programme	Navsari	74						
3	21/06/2019	ARYA mango processing training	Navsari	85						
4	25/06/2019	ARYA mango pulp bottling training	Navsari	59						
5	15/06/2019	ARYA mango processing at farmers house	Abrama	5						
6	12/07/2019	ARYA Mango kernel mouth freshener training	Bodali	56						
7	21/08/2019	ARYA Mango Nursery Management	Doldha	31						
8	23/08/2019	ARYA Mango Nursery Management	Charanvada	61						
			Total	283						

Project No. 2 Entrepreneurship development through Mango nursery

	Different activities of ARYA						
Sr. No.	Date	Details	Village	Total			
1	21/08/2019	ARYA Mango Nursery Management	Doldha	31			
2	23/08/2019	ARYA Mango Nursery Management	Charanvada	61			
			Total	92			

Case studies of individual youth/group related to ARYA intervention

Jagaruti Mango Pulp Centre.

Few years ago Jagarutiben started making of pulp from mango. She was not able to sell it confidently because it was not made by scientific methods. Last year with approach of ARYA project she made a group of women & now she runs her busines successfully with scientific method with proper hygienic conditions.

Vulnerability: She was not aware about proper scientific method. Even she was not aware about safety cautions, hygiene, cleanliness, registration process in food & drug department for selling in market.

Needs/Problems Identified: Marketing registration process

Technological intervention: Earlir during pulping burning of pulp was magor issue. After intervention of kvk they became aware about proper temperature for processing & proper use of preservatives.

Efforts made by KVK

KVK played very good role for bringing needful people to technical by expert people & youth got proper training.

Output Farmers/ youth started to work with proper methods & scientific way.

Similarly, now they became aware about registration in food & drug

department before selling of product in market

Outcome Farmer/youth became successful entrepreneur by obtaining 30000 Rs/ year

income.

Impact More mumber of womens are interested to join this project to make their own

mango processing unit.

Activities Conducted Under Arya Project Of Carp Fish Farming And Value Addition Components

MALE	FEMALE	TOTAL	OBC	ST
06	44	50	40	10

19. Please include any other important and relevant information which has not been reflected above (write in detail).

Remarkable activities carried out by KVK, Navsari:

[1]

KHEDUT SHIBIR ON COW BASED AGRICULTURE- A STEP TOWARDS ECONOMIC STABLE

Krishi Vigyan Kendra Navsari , Navsari Agriculture University , Navsari has held an Awareness programme on "Cow Based Agriculture- A Step towards Economic Stable" on dated 30th July 2019. The main purpose of this programme was to give information to farmer for cow based agriculture, dairy products and organic farming and its effect on soil health and economic improvement. The inaugural function of this programme was graced by the chief guest chairman National Kamdhenu Ayog, New Delhi, Dr. Vallabhbhai Kathiria, Hon'ble Vice–Chancellor Dr. C.J.Dangaria Navsari Agricultural University, Shree Nareshbhai Patel M.L.A. Gandevi, Dr. G.R.Patel, Director of Extension Education, NAU, Navsari, Dr.C.K. Timbadia, Senior Scientist and Head, Krishi Vigyan Kendra, Navsari. Dr. Vallabhbha Kathiria Chairman, National Kamdhenu Ayog, New Delhi. He motivated to youth for adopt cow's based business like dairy products and waste products businesses. He also told that people's need to aware about cow's benefits in the agriculture, animal husbandry and nutrition.

Honb'le Vice Chancellor Dr. C.J. Dangaria, N.A.U. Navsari, He was also delivered a inspiring lecture on cow based organic farming and its importance and cow based dairy products and improving

economic by cow and cow based organic farming and its importance.





[2] EXPOSURE VISITS FOR FARMERS

Farmers of South Gujarat were taken to different places to visit and make awareness regarding organic farming. These kinds of exposure visits facilitate the farmers and scientists to development demonstration and awareness about organic farming.

Surat, Hat Bazar Visit. on dated: 23/7/2019





AAU, Anand OF farm on dated: 23-27/07-2019





OF in Dang district on dated: 20/07/2019





World Environment Day, Dated 05/06/2019 KVK navsari celebrate world environment day in presence of more than 150 farmers. Dr. C.K. Timbadia and others scientist of KVK navsari were interact farmers





[7] National Nutrition week Programme

Krishi Vigyan Kendra Navsari, organized National Nutrition week (Date-07/09/2019) was inaugurated by B K Gitadidi. More than 55 vanagi were nominated in the competition by farm woman and out of them best five were selected by expert and farm woman were felicitated by Hon VC NAU Dr. C. J. Dangaria sir, Rishida Thakur and 100 farm woman participated in the program. All farm women enriched spiritually and enjoyed day.





[8]

Innovative Farm Woman's Meet

Innovative farm woman meet (Date: 07/06/2019)on organic farming and ARYA orientation programme was organized at KVK Navsari . Shri Prafulbhai Senjalia, Shri Lalitbhai Thumar, Pravinbhai Asondaria and more than 90 farm women were participated. Shri Prafulbhai Senjalia had delivered very good lecture on natural farming and motivated 45 farm woman to adopt it. Mrs Dipal Soni home scientist was honoured by leaders and KVK staffs. Rashmikantbhai Gurjar also organized mango computation among innovative farm woman.





[9] International Yoga Day

International Yoga Day (Date: 21/06/2019) celebrated at KVK, Premises with active participation of 200 participants from school and staff. During this programme the participants were enlightened with importance of the day and yoga for healthy life and society. Few postures were also demonstrated by Dr. Satishkumar Sinha and Dr. C. K. Timbadia sir, Senior scientist and Head, NAU, Navsari.





[10]

Krushi Mahila Divas

KVK, Navsari Celebrated Krushi Mahila Divash (Date: 06/08/2019) in collaboration of District Panchayat at KVK training Hall. Hon District president Dr Amitaben Patel preside over the function and felicitated six farm woman foe their achievement. She also explained her experience about her journey from ground to become president and encouraged farm woman present in the programme. Dr B N Patel principal ASPEE college, Mrs Shital Soni, Director Suraxa Samiti of the state, Rajshreeben Kharadi, Chetanben Birla, Falguniben, Dr Prajapati, Dr Atul Gajera DAO Navsari and Krishna Patil had participated the function Farm woman had expressed their views behind the success more than 200 woman had participated in the programme.





[11] Web telecast of F&M Disease of animal awareness programme

Krishi Vigyan Kendra Navsari, organized Web telecast of F&M Disease of animal awareness programme (Date: 11/09/2019) in collaboration of dept of animal husbandry. Hon MP shri C.R .Patil sir had visited KVK Navsari. Hon. MLA and deputy whip GOG R. C.Patel , Hon. VC NAU Dr. C J Dongaria and DDO shri R.G Gohil graced the function. Dr Prajapati DDAH, veterinarians and livestock owners had participated in the programme. 112 farmers participated in this probramme.





[12] Composting Prepared from Pujapo and Flowers

Krishi Vigyan Kendra Navsari, Prepared from Pujapo and Flowers used for Lord Ganesh utsav are collected by Rotary club, Navsari and Vijalpor nagarpalika and rotary club and deposited at KVK (Date: 13/09/2019). KVK staff and RAWE students took pain for segregation and preparing bed





Fertilizer Application Awareness Program

Krishi Vigyan Kendra organized fertilizer application awareness program (Date: 22/10/2019) in presence of Dr. M.K.Arvadia sir, Principal and Dean, N.M. Collage of agriculture, Navsari. Shri. Gamanbhai Patel, Vasundara dairy Chairman, Chikhali, Dr.S.D.Kavad Association professor, DEE office, Dr.K.G.Patel sir, professor and head, Soil and chemistry, N.M.C.A.NAU. Dr. Rakholia sir association professor, department of plant pathology. Dr.K.A.Shah sir, Scientist KVK Navsari, Pritesh patel, deputy director ATMA Navsari and Shri. Vakeria sir, marketing office, GNFC, Navsari. In this programs 400 farmers were present.





[14]

Natural Farming and Environment Awareness Programme

Krishi vigyan Kendra,Navsari organized off campus programme with TARANG electrical vehicles Surat and Patidar agro Vyara District Tapi sponsored a programme prakrutik kheti and paryavaran jagruti (Date: 16/11/2016) for farmers and farm women at TATA hall Navsari. Hon Dr Amitaben Patel District president has spared valuable time. She emphasized on organic farming to save our planet. Hon VC NAU had honored new appointed BOM NAU Mr Lalit Thumar, Manojbhai shekhpur and Prafulaben Naik Kaccholi and appreciated programme SP Navsari Dr Girish Pandya , DE Dr G R Patel, Dr C K Timbadiasir, Madhubhai, Dipakbhai Naik Amalsad mandali, Satishbhai and many more dignitaries with more than 900 farmers had enjoyed the programme. All experts realized importance of prakriti and its status.





World Soil Day Programme

Krishi vigyan kendra organized off campus programme on celebrated World Soil Day (Date: 05/12/2019)at village Dambhar Ta Jalalpor in collaboration with KRIBHCO Mr P V Kachhadia sir and Dr C K Timbadia sir explain soil management through microbes. Mr Kiranbhai Naik, Dharmesh Patel and Jatinbhai expressed their views and shared effective experience among farmers. All farmers group realize importance of soil health. 53 farmers are participated in this programme.



[16]

Training on Entrepreneurship development through Fish value addition among farm woman

KVK, Navsari organized training programs on Fish value addition (Date: 11/12/2019). To promote pangasius fish farming and sustaining market it is essential to develop value addition options. So fish filleting and its products preparation skill training under ARYA has been conducted. About 45 farm woman participated and prepared various fish dishes such as fish sticks, fish Manchurian, shrimp lollipop, fish cutlets, and shrimp Manchurian farm woman can start their own small scale restaurant of fish products.





Distribution of Organic manure kits Prepared from waste Material of Pujapa collected During Lord Ganeshotsav Programme

KVK,Navsari organized (Date:11/12/2019) distribution of organic manure kits with help of rotary club, navsari in presence of District Governor Sri Shah and Rotary club of Navsari ex President Sri Lalitbhai Thumar, Mrs Desy Bodhanwala and many more Rotarians had participated and distributed organic manure kits (prepared from waste material of pujapa collected during Lord Ganeshotsav)





[18] Innovative Farmers Meet Krishi Sangam 2019

Innovative farmers meet Krishi Sangam 2019 programme (Date:20/12/2019) was sponsored by CII Mumbai and it was organized by KVK Navsari. Hon collector Mrs Adra Agraval graced the function and suggested three importance points to double the farmer's income and assured to meet KVK farmers frequently. DEE Dr G R Patel, Mr Ravindra ARYA , Dean Dr M K Arvadia, Manoj Patel and Kanu Baldania, Dr C K Timbadia sir were on the stage. Five progressive farmers were felicitated for their achievement. Different technical lecture were delivered by NAU scientists. KVK team worked hard for grand success. More than 250 farmers participated in this programm.





Suvarn Jayanti Mahotsav Programme

Suvarn jayanti mahotsav at village Agasi, Ta Vansda (Date: 21/12/2019) Late Sri Dhirubhai Manibhai Desai Gandhian philosophy follower had established in 1969 Late Sri Jugatram Dave, Ravishankar Maharaj and Morarji Desai had inaugurated. Sri Ashokbhai Desai and many more dignitaries with parents and students participated the programme.





[20] Agriculture Fair at FTC Navsari

Glimpses of today's agri fair (Date: 10/1/2020) at FTC Navsari Hon Dr Amitaben Patel District president inaugurated and said use of technologies are need of the day in agriculture and emphasised on natural farming for health of the society. She also appreciated activities carried out by ATMA, FTC and KVK. Farm woman and farmers shared their experience Naginbhai Gamit, Gabanibhai joint director and many more dignitaries had graced the function with 700 farmers and more than 25 stall holders. Congratulation to Mr C R Patel for organizing the events.





[21] Mango Seminar Programme

Krishi vigyan Kendra organized mango seminar (Date: 17/1/2020) was organized at KVK Navsari in collaboration of horticulture department Navsari. Hon MLA Nareshbhai Patel, DEE Dr G R Patel, Dr C K Timbadiasir, ex principal ASPEE collage, Dr N L Patel and scientist of NAU Dr Kalubhai, Dr Yatin Tandel and Budhabhai Patel with 160 mango growers participated in the programme and interacted with the farmers. Two success mango growers were felicitated by the MLA. MLA Nareshbhai emphasized on water consumption and need of conservation by the farming community and advised to add name in 7-12

records for benefits of government scheme. DDH Shri Padalia had explained dept schemes and practical way of increasing yield of mango. Overall farmers were satisfied about care and measures of mango crop against climate change. More than 190 farmers participated in this programm.





[22]

25 Days Skill Training on Organic Grower and Assistant Gardner

Krishi vigyan kendra organized on campus 25 days skill training (Date: 27/1/2020) on organic grower and assistant Gardner training were inaugurated by Padmsri Mathurbhai Savani. He emphases need of organic agriculture for water conservation and social improvement. He also motivated for village culture and future scope of organic agriculture. Wonderful speech was appreciated by Dr V C Raj, Jayantibhai Patel, Dr Chavlaji, Dr Alka, Dr Durgarani, Dr Dipakbhai Desai, Dr C K Timbadiasir and many more farmers and 40 trainers of two batch assistant gardener and organic growers. Each trainees were introduced themselves and progressive organic success farmers had shared their experiance. Dr Prabhu Nayaka and Rashmikantbhai Gurjar took pain for grand sucess.





[23]

Khedut Shibir Programm in Organic Farming

Awareness programme on organic farming (Date: 7/2/2020) at village Matwad Awda Falia. Hon Hetaldidi from Tejaswini Sanskardham Dist The Dang was chief guest. She explained the theme on role of farmers in process of back to nature. She is engage in Yog, cow based agriculture and diet pattern for improving health. It was sponsored by Harish Patel NRI USA the function was graced by Babu Patel NRI. UK, Hirakaka NRI Newziland, Dr C K Timbadiasir Parimal Patel Dandi and Champaben. Dr Sumit

Salunke, Mrs Nital Patel and team of KVK worked hard for grand success. More than 160 farmers are

participated in this programm.





[24]

Pradhan Mantari Kisan Sanmman Nidhi (PM KISHAN) Programm

Pradhan Mantari Kisan Sanmman Nidhi (PM KISHAN) Programm, Date: 24/2/2020. Hon district president Mrs Amitaben Patel, Hon VC NAU Dr S R Chaudhary, DEE Dr G R Patel, DDO Navsari, SDM MR Tushar Jani, Dr C K Timbadia sir and many more respected dignitaries had graced the function of celebration of anniversary of PM KISHAN schemes at KVK Navsari. Five farmers gave feedback of the scheme. Hon Rupalasir expressed concept of scheme launching at national level and its successful implementation in the country through digital media. Grand success with support of district authority and pain taking capicity of KVK scientist, KVK team, NAU staff ICAR and DAC and FW New Delhi support. The PM-Kisan beneficiaries namely - Shri Kirtibhai Jadhav, Butsad, Jalalpore; Shri Vipin K. Naik Khakwada, Gandevi; Shri Hemanthbhai B. Patel, Sadlav, Navsari and Shri Jayantibhai M. Bhoya, Vansdsa also expressed their gratitude towards the scheme. More than 4750 farmers are participated in this programm. Thanks to all and farmers of the district.





[25] Health Awareness Seminar Programm Date: 5/3/2020

Krishi vigyan Kendra organized on campus program in Swasthay Jagruti Shibir (Date: 5/3/2020) was organized by senior citizen trust vijalpor and NAU Pensioner union at KVK Navsari. Dr Dinesh Vaid expert of snake bite and paralysis from Dungari valsad and Dr Narendra parmar orthopedist were called to provide guidance about health issues. Dr R R Kaswalasir, Dr R T Desaisir, Mrs Prafulaben Desai, Dr H C Pathaksir, Gopalbhai Tandel and Dr V C Rajsir graced the function. Sriti kataria was honoured for her achievement Dr Dinesh vaid, Dr R R Kaswalasir, Dr Narendra parmar and NAU board member Mrs Prafulaben Desai felicitated. Dr V C Raj, Dr Sumanbhaisir, Dr Dungaranisir and Mr Hemant Sadhu, Dr C

K Timbadiasir, Nitalben and KVK staff took pain for organizing the programm. More than 119 senior

citizen participated in this programm.





[26] International Woman's Days Programme

Krishi vigyan Kendra organized on campus program in International Woman,s day (Date:08/03/2020) was celebrate in auspicious presence of Hon district president Amitaban Patel, Prafulaben Desai board members NAU, Deisiben Bodhanwala president Rotary club navsari, Rishida Thakur president Tapasya Nari seva sansthan and trustees of Manav Kalyankari seva sarvajanik trust shri Natukaka, Ramanbhai, Thakorbhai Naik, Valabhbhai Patel and, Dr C. K. Timbadiasir. Amitaben has inspired woman for their agriculture activities. Mrs Anjitaben Naik, Mrs Illaben and Alpanaben were honoured for their achievement in the field of agriculture. Many competition were organized and honored to winner woman farmers. Mrs Nital patel home science and KVK staff took pain for success. Every woman farmers contributed and enjoyed programm. More than 106 woman participated in this programm.





Award received

Sr. No.	Name of the Award	Given by	Name of award	Given for
A	KVK Awards	Society of Extension Education by Society of		Dr. C.K. Timbadia Senior scientist and
		Extension Education Gujarat.	Scientist 7 Ward	Head, KVK Navsari
В	KVK Awards	Indian Society of Extension Education, New Delhi Seminar SK. Rajasthan Agricultural University, Bikaner.	Scientist	Dr. Sumit Salunkhe, Scientist (Extension Education) KVK, Navsari.
C.	KVK Awards		Felicited by District President, Navsari Smt. Amitaben Patel with Sawl	Smt. Nital N. Patel Scientist (Home Science) KVK, Navsari.
D	KVK Awards	KVK, NAU, Navsari on the occasion of 12 SAC Meeting.	Felicited by Dr. Amol Bhalerav Atari Pune with Sawl	`

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	83	1905	2332	4237
Rural youths	11	242	260	502
Extension functionaries	-	-	-	-
Sponsored Training	11	186	233	419
ASCI Training	2	25	15	40
Total	107	2358	2840	5198

2. Frontline demonstrations

Enterprise		No. of Farmers	Area (ha)	Units/Animals
Oilseeds				
Pulses		758	100	
Cereals		930	233.5	
Vegetables		781	8.4	
Other crops				
Fruit crops		1156	243.4	
Spices crops		40	0.4	
Tuber crops		3	0.3	
	Total	3668	586	
Livestock & Fisheries		260	71.5	
Other enterprises				
	Total	260	71.5	
Grand Total		3928	657.5	

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
	Assesseu		
Technology Assessed			
Crops	2	6	12
Livestock/Fisheries			
Various enterprises			
Other			
Total	2	6	12

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	203	25131
Other extension activities	553	13096
Total	756	38227

5. Mobile Advisory Services

	Type of Messages

Name KVI	0 01	Crop	Livesto ck	Weath er	Marke- ting	Aware- ness	Other enterprise	Total
	Text only	25	2	2	3	20	10	62
	Voice only							
	Voice & Text both							
	Total Messages	25	2	2	3	20	10	62
	Total farmers	6895	3564	6591	6120	45628	40654	1715
	Benefitted	4						11

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	388.82	2267964
Planting material (No.)	5880	3528
Bio-Products (kg)		
Livestock Production (No.)		
Fishery production (No.)	1425	142500

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	80	10800/-
Water	63	
Plant		
Total	143	

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	7
2	Conferences	5
3	Meetings	15
4	Trainings for KVK officials	-
5	Visits of KVK officials	-
6	Book published	2
7	Training Manual	-
8	Book chapters	-
9	Research papers	4
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	21
13	Proceedings	-
14	Award & recognition	4
15	Ongoing research projects	-