REPORT ON 13th SCIENTIFIC ADVISORY COMMITTEE MEETING

TO BE HELD ON

16-12-2020 AT 10:00 A.M.

KRISHI VIGYAN KENDRA

Navsari Agricultural University

Navsari – 396450

SCIENTIFIC ADVISORY COMITTEE
OF KRISHI VIGYAN KENDRA, NAVSARI

Sr. No	Name	Designation	Committee status
1	Dr.Z.P.Patel	Hon. Vice-Chancellor, NAU, Navsari.	Chairperson
2	Dr. C.K.Timbadia	Director of Extension Education, N.A.U., Navsari.	Member
3	Dr. Lakhan Singh	Director, ICAR- ATARI, Zone-VIII, College of Agriculture Campus, PUNE - 411005 (Maharastra)	Member
4	Dr. Sunil Chaudhary	Director of Research, N.A.U., Navsari. (Representative of ICAR)	Member
5	Dr. J. D. Thanki	Professor & Head (Agronomy), NMCA, NAU, Navsari	Member
6	Dr. P.K.Shrivastav	I/C Principal, ASPEE College, NAU, Navsari	Member
7	Dr. N.B.Patel	Research Scientist (LRS), NAU, Navsari	Member
8	Dr. R.V. Borichangar	Associate Professor, College of Fisheries Science, NAU, Navsari	Member
9	Dr.Atul Gajera	District Agriculture Officer, Dist. Navsari	Member
10	Mr.B.K. Rai Samant	Assistant General Manager, NABARD, Navsari	Member
11	Dr. Dineshbhai Padaliya	Deputy Director of Horticulture, Dist. Navsari	Member
12	Mr. Rajendra Rathod	Exe. Eng. (Drainage), Ambika Division, Dist. Navsari	Member
13	Dr. D.B.Thakur	Deputy Director of Animal Husbandry, Dist. Navsari	Member
14	Mr. Mohit Sangani	Assistant Director of Fisheries, Dist. Navsari	Member
15	Shri. C.K. Patel	Progressive Farmer, Village- Bhinar, Ta.Vansda	Member
16	Smt.Alpanaben M. Patel	Progressive Farm Woman, Village- Vasan, Ta.Gandevi	Member
17	Shri Amitbhai Naik	Director, Dhanori Piyat mandali and Seva sahakari Mandali, Village - Dhanori, Ta.Gandevi, Dist : Navsari	Member
18	Shri Surajbhai D. Savalia	Agri-entrepreneur, Village : Ganesh Sisodra, Dist : Navsari.	Member
19	Shri Kiranbhai M. Patel	Progressive farmer and Director, Navsari Taluka Sangh and Deputy Director Adada seva sahakri mandali, Village : Adada, Ta.Gandevi, Dist : Navsari	Member
20	Dr. C.K. Timbadia	Senior Scientist & Head, KVK, Navsari	Member Secretary

Agenda for 13th Scientific Advisory Meeting of Krishi Vigyan Kendra

Schedule to be held on 16th December 2020 at 10:00 am

Item No.	Agenda
12.1	Review of previous SAC Meeting Minutes.
12.2	Review of KVK activities held during January-2020 to November-2020.
12.3	Presentation on Action Plan of April-2021 to March-2022.
12.4	Presentation of Budget Position.
12.5	Suggestions and discussion to make Krishi Vigyan Kendra, Navsari more effective.
12.6	Any other related matters with the permission of the chairperson.

11.1 Action Taken Report on minutes of 13th SAC meeting held on 16/12/2020

Action Taken Report on minutes of 12th SAC meeting held on 25/01/2020		
Sr. No	**Suggestions**	**Action taken**
1. During scientific Advisory committee meeting following suggestions are made by the experts		
12.2.1	Organize Workshop on script writing and presentation for scientist and officers of the university.(ACTION :DEE)	Script writing workshop will be organize next year.
12.2.2	Organize Training on Impact Studies of KVK	One impact assessment training with beneficiaries' farmers of various discipline has been organized collected feedbacks and benefits of the technologies.
12.2.3	Organize ; values addition training with the help of line department	Value addition on Horticulture crops such as Mango Juice, Pickles, Fish Sticks have been conducted at KVK
12.2.4	More use of ICT tools in KVK activity	Intensive application of ICT tools to convey technological demonstration messages and training during pandemic covid-19 situation using various social media platforms and webinar
12.2.5	Establishment of IFS demonstration at KVK farm	Different horticulture plant has been planted on the bunds of fish ponds shortly there will be installation of Ducking/poultry in the fish pond.
12.2.6	Organize demonstration and awareness programmer on fodder production	Two trainings and 15 demonstrations of fodder sorghum variety were conducted in adopted village.
12.2.7	Organize ornamental fish farming demonstration under cage fish farming	Looking to the demand of current scenario cage farming is important, Hence pangesius fish demonstration has been arranged. Moreover ornamental fish farming demonstration will be arranged.

મુદ્દા નં.૧	બેઠક દરમ્યાન સભ્યશ્રીઓ દ્વારા નીચે મુજબનાં સૂચનો કરાયા.	
મુદા નં ૧૨.૨.૧	વૈજ્ઞાનિકો અને યુનિવર્સિટીના અધિકારીઓ માટે સ્ક્રિપ્ટ લેખન અને રજુઆર પર એક દિવસની તાલીમ અથવા વર્કશોપ ગોઠવો. (વિ.શિ.નિ.શ્રીની કચેરી)	• સ્ક્રીપ્ટ રાઈટીંગ માટેનાં વર્કશોપનું આયોજન આવતા વર્ષે યોજવામાં આવનાર છે.
મુદા નં ૧૨.૨.૨	કેવિકેની અસરકારકતાના અભ્યાસ અંગે તાલીમ કાર્યક્રમનું આયોજન કરવું.	• જુદા જુદા વિષયનાં તાલીમાર્થી ખેડૂતો માટે એક અસરકારકતા મૂલ્યાંકન તાલીમનું આયોજન કરી તેમના પ્રતિભાવો અને તાંત્રિકીઓના ફાયદા મેળવ્યા.
મુદા નં . ૧૨.૨.૩	જીલ્લાના વિવિધ વિભાગોની મદદથી/નાં સંયુકત ઉપક્રમે મૂલ્ય વર્ધનની તાલીમો કરવી.	• બાગાયતી પાકોના મૂલ્ય વર્ધન પર કેરીના રસ, અથાણાં, ફીશ સ્ટીક બનાવટની તાલીમો કેન્દ્ર ખાતે કરવામાં આવી.
મુદા નં ૧૨.૨.૪	કેવિકેની પ્રવૃતિઓમાં ICT માધ્યમોનો વધુમાં વધુ ઉપયોગ કરવો.	• કોરોના કોવિડ–૧૯ ની પેન્ડેમીક પરિસ્થિતિમાં દશ્ય ગ્રાહય સાધનોનાં મહતમ ઉપયોગ દ્વારા તાંત્રિકીનો પ્રચાર,પ્રસાર, સંદેશાઓ મોકલવામાં ડીજીટલ સોશીયલ મીડીયાનાં માધ્યમ દ્વારા તાલીમો અને વેબિનાર યોજવામાં આવ્યા છે.
મુદા નં ૧૨.૨.૫	કેવિકે ફાર્મ ખાતે સંકલિત ખેતી પધ્ધતિના નિદર્શનનું આયોજન કરવું.	• ફાર્મ ખાતે મત્સ્ય તળાવની બોર્ડર પર પાકોનાં નિદર્શનો યોજાયેલ છે. તેમજ મરઘાંપાલન નિદર્શન પણ ટૂંક સમયમાં યોજવામાં આવશે.
મુદા નં ૧૨.૨.૬	ઘાસચારાના પાકોનાં ઉત્પાદન માટેના નિદર્શનો અને જાગૃતતા કાર્યક્રમોનું આયોજન કરવું.	• બે તાલીમ કાર્યક્રમો અને ૧૫ નિદર્શનો જુવારની જી.એન.જે.–૧ જાતનાં કેવિકેનાં દત્તક ગામોમાં ગોઠવવામાં આવેલ છે.
મુદા નં ૧૨.૨.૭	પાંજરામાં મત્સ્યપાલનના નિદર્શન અંતર્ગત સુશોભિત માછલીપાલનનાં નિદર્શનોનું આયોજન કરવું.	• વર્તમાન સમયમાં પાંજરામાં મત્સ્યપાલનનું પંગસીયસ માછલીનું કેજ ફાર્મીંગના નિદર્શન કેવિકે પર લેવામાં આવેલ છે. ઉપરાંત ઓર્નામેન્ટલ (શોભામાં વપરાતી) માછલીના નિર્દશન પણ મૂકવામાં આવશે.

11.2 Review of KVK Activities held during January-2020 to November-2020

(A) Training :

1. Farmers, Farm Women and Rural Youths

Subject	On Campus				Off Campus				Total			
	No.	Beneficiaries			No.	Beneficiaries			No.	Beneficiaries		
		M	F	T		M	F	T		M	F	T
(A) Practicing Farmers /Farm Women												
Crop Production	10	190	217	407	8	68	199	267	18	258	416	674
Horticulture	4	170	28	198	5	72	60	132	9	242	88	330
Plant Protection	4	63	68	131	5	63	85	148	9	126	153	279
Home Science	1	41	100	141	7	74	188	262	8	115	288	403
Extension Education	4	148	78	226	3	23	52	75	7	171	130	301
Fisheries	3	50	8	58	2	51	25	76	5	101	33	134
Total	**25**	**694**	**502**	1196	**31**	**473**	**570**	1043	**56**	1167	1072	2239
(B) Rural Youth												
Crop Production	1	12	21	33	2	73	3	76	3	85	24	109
Horticulture	1	22	10	32	2	22	17	39	3	44	27	71
Extension Education	2	82	84	166	0	0	0	0	2	82	84	166
Total	**4**	**116**	**115**	**231**	**4**	**95**	**20**	**115**	**8**	**211**	**135**	**346**
Total A+B	**29**	**810**	**617**	**1427**	**35**	**568**	**590**	**1158**	**64**	**1378**	**1207**	**2585**

2. Sponsored Training :

Sr. No.	Subject	Date	Beneficiaries			Agency
			Male	Female	Total	
1	Agronomy	5/10/20	39	3	42	Dept. of Agri., Navsari
2		8/10/20	34	0	34	
3		9/10/20	30	15	45	
4		12/10/20	9	0	9	BOB, Satem & RSETI, Navsari
5		12/10/20	34	0	34	Dept. of Agri., Navsari
6		13/10/20	43	6	49	
7		13/10/20	10	1	11	
8		14/10/20	19	11	30	
9		19/10/20	24	4	28	
10		19/10/20	20	4	24	
11	Home Science	25-26/2/2020	0	27	27	ATMA,Navsari
12		19/8/2020	0	13	13	BSVS,Navsari
	Total		**262**	**84**	**346**	

3. Virtual In-service Training :

Sr. No.	Subject	Date	Beneficiaries		
			Male	Female	Total
1	Plant protection	21/7/2020	63	2	65

B. Frontline demonstrations:

Old FLD Results

Sr. No.	Season	Crop	Variety	Objective	Area (ha)	No. of farmers	Average Production q/ha		% increase
							Demo.	L.C.	
Crop Production									
1	Kharif-2019-20	Turmeric	GNT-2	To popularize the new high yielding variety	0.4	40	224.53	198.31	13.22
2	Kharif-2019-20	Pigeon pea	Vaishali	To popularize the new high yielding variety	35.0	323	9.19	7.56	21.56
3	Kharif-2019-20	Pigeon pea	GNP-2	To popularize the new high yielding variety	20.0	125	10.71	8.94	20.47
4	Kharif-2019-20	Chick pea	GG-5	To popularize the new high yielding variety	20.0	200	13.78	10.93	26.08
5	Kharif-2019-20	Green gram	Co-4	To popularize the new high yielding variety	1.6	12	7.74	5.93	22.06
6	Kharif-2019-20	Indian bean	G.Indian bean-2	To popularize the new high yielding variety	4	45	8.19	6.71	30.52
Plant Protection									
8	Kharif-19	Paddy	Available	Integrated pest & disease management	10	20	48.34	42.26	14.39
9	Kharif-19	Pigeon pea	Vaishali	Use of bio pesticide in pest & disease management	5	10	11.87	10.98	8.11
10	Kharif-19	Paddy	Available	Use of bio agent	10	20	38.59	34.12	13.10
11	Rabi-20	Mango	Available	Fruit fly Management (Nauroji-stein house fruit fly)	30	150	98.40	84.80	16.04

Horticulture									
Sr. No.	**Season**	**Crop**	**Variety**	**Objective**	**Area (ha)**	**No. of farmers**	**Average Production q/ha**		**% increase**
							Demo.	**L.C.**	
12	Kharif-19	Mango	PSB, KMB, Azoto	biofertilizer	130	325	101	92	9.783
13	Kharif-19	Mango	Novel spray	Novel spray	35	140	106	94	12.77
14	Kharif-19	Little gourd	GNLG1	New variety	1	44	170	150	13.33
15	Kharif-19	Pointed gourd	GNPG1	New variety	0.2	15	92	80	15
16	Rabi-19	Sapota	Available	Novel spray	8.4	21	140	125	12
17	Kharif-19	Sweet potato	C-71	New variety	0.3	3	112.5	100	12.5
18	Kharif-19	Mango	Sonpari	New variety	5	500	Continue		
19	Kharif-19	Sapota	Available	Novel spray	35	20	139.5	125	11.58
20	All Season	Kitchen garden	Available	Kitchen garden	7.2	722	3.5	1.6	118.8
Fisheries									
21	Oct-19 to Nov-20	Fresh water fish farming	IMC (Catla, Rohu, Mriagal) Grass carp, fresh water prawn (*Macrobrachium rosenbergii*)	• To encourage fish farming activities in village tanks and khet talavadi, so employment opportunities and nutrition security in rural area can be evolved. • To demonstrate fish farming technologies such as fish stocking density and species ratio along with fish nutrition for higher	26.24 ha	112	26.30 (Village tank)	17.80	47.75
							11.40 (Kherland)	6.90	65.22

				production.					
22	Oct-19 to Nov-20	Fresh water fish farming	Pangasius fish	To encourage Pangasius cage farming in IMC pond	2 cage (4 x 6m)	12	2200/c age	-	-
					358.1	**2859**			

New FLD January to November-2020

Sr. No.	Season	Crop	Variety	Objective	Area (ha)	No. of farmers	Average Production qt/ha		Percent increase
							Demo.	L.C.	
Crop Production									
1	Kharif-2020-21	Paddy	GNR-3	To popularize the new high yielding variety	66	201	40.77	35.23	15.73
2	Kharif-2020-21	Paddy	GNR-5	To popularize the new high yielding variety	83	282	39.62	35.23	12.46
3	Kharif-2020-21	Paddy	GNR-6	To popularize the new high yielding variety	8	42	37.34	33.57	11.23
4	Kharif-2020-21	Paddy	GNR-7	To popularize the bio fortified variety	10	31	36.18	32.92	9.90
5	Kharif-2020-21	Paddy	GR-17	To popularize the new high yielding variety	13	67	41.20	35.23	16.95
6	Kharif-2020-21	Paddy	GRH-2	To popularize the new high yielding variety	13	55	42.84	36.38	17.76
7	Kharif-2020-21	Paddy	Push-2511	To popularize the new high yielding IARI variety	1.0	10	40.89	37.38	9.39
8	Kharif-2020-21	Paddy	Push-1850	To popularize the new high yielding IARI variety	0.5	5	38.74	35.23	9.98
9	Kharif-2020-21	Pigeon pea	GT-104	To popularize the new high yielding variety	10	68	Crop is standing (On going)		
10	Kharif-2020-21	Pigeon pea	Vaishali	To popularize the new high yielding variety	33	500	Crop is standing (On going)		

11	Rabi-2020-21	Chick pea	GG-5	To popularize the new high yielding variety	20	200	Continue.....		
12	Rabi-2020-21	Indian bean	G.Val-2	To popularize the new high yielding variety	4.5	60	Continue.....		
13	Rabi-2020-21	Indian bean	GNIB-22	To popularize the new high yielding variety	3.0	30	Continue.....		
14	Rabi-2020-21	Fodder Sorghum	PC25/ CSV-21F	To popularize the new high yielding variety	1.5	15	Continue.....		
15	Rabi-2020-21	Wheat	HD-2931	To popularize the new high yielding IARI variety	1.0	5	Continue.....		
	Fisheries								
16	Kharif-20	Fresh water fish farming	Catla, Rohu, Mrigal, Grass carp	Stocking density & feeding management	8.75	71	Continue.....		
17	Kharif-20	Fresh water fish farming	Catla, Rohu, Mrigal, Grass carp	Seed rearing	0.5	5	Continue.....		
18	Kharif-20	Fresh water fish farming	*Pungasius*	High stocking density in cage farming	2 cage (6 mt.X4 mt.)	10	Continue.....		
19	Kharif-20	Fresh water fish farming	*Pungasius*	Pond culture High stocking density	0.25	5	Continue.....		
	Plant protection								
20	Kharif-20	Paddy	Available	Use of bio agents to manage pest	10	20	48.74	44.21	10.24
21	Kharif-20	Paddy	Available	IPDM technologies	5	25	45.28	40.22	12.58
22	Kharif-20	Pigeonpea	Vaishali	Use of bio pesticides in pest & diseases	5	20	Crop is standing (On going)		
23	Rabi-20	Mango	Available	Fruit fly management nauroji fruit fly trap	5	20	Continue..... Yet to be conduct		

	Home science						
24	Rabi-20	Pulses crop	Solar Cooker	Natural resource conservation	10	10	Continue.....
25	Rabi-20	Pulses crop	Twin wheel hoe	Twin wheel hoe (Drudgery reduction)	25	25	Continue.....
	Horticulture						
26	Kharif-20	Mango	Available	Use of PSB, KMB, Azato bio fertilizer	38	96	Continue.....
27	Kharif-20	Sapota	Available	Use of PSB, KMB, Azato bio fertilizer	12	33	Continue.....
28	Kharif-20	Little Gourd	GNLG-1	Introduction of new variety	1	36	Continue.....
29	Kharif-20	pointed Gourd	GNPG-1	Introduction of new variety	0.2	6	Continue.....
30	Kharif-20	Drum stick	PKM-1	Introduction of new variety	0.14	28	Continue.....
31	Kharif-20	Dragon fruit	Red	Introduction of new variety	1	96	Continue.....
32	Kharif-Rabi-20	Kitchen garden	Available	pesticide residue free nutritious food	0.1	557	Continue.....
33	Kharif-20	Elephant foot yam (Suran)	Gajendra	Introduction of new variety	0.05	3	Continue.....
				TOTAL	**389.49**	**2637**	

3. Demonstration conducted under NFSM project 2019-20 and 2020-21

NFSM Project:-2019-20

1. FLD Organized

Sr. No	Fld organized			Area (ha)	Beneficiaries		
	Crop	Variety	Season		SC/ST	Others	Total
1	Pigeon pea	GNP-2	Kharif 2019	20	113	12	**125**
2	Chick pea	GG-5	Rabi-2019	20	198	2	**200**
3	Green gram	GM-6	Summer-2020	20	8	92	**100**
		TOTAL		**60**	**319**	**106**	**425**

2. Training on CFLDs on Pulses (2019-20)

Sr. No.	Date	Title of training	No. of Beneficiaries						Grand Total
			SC/ST		Other		Total		
			M	F	M	F	M	F	
A:Kharif pulses (On campus)									
1	1/6/19	Integrated nutrient and weed management in pigeon pea	65	3	3	3	68	6	**74**
2	4/6/19		23	0	0	0	23	0	**23**
3	12/6/19	Scientific cultivation practices of Pigeon pea	0	0	6	12	6	12	**18**
4	26/6/19		14	8	24	34	38	42	**80**
Kharif pulses (Off campus)									
5	9/6/19	Scientific cultivation practices of Pigeon pea	24	0	0	0	24	0	**24**
6	13/6/19		0	2	19	0	19	0	**21**
7	14/6/19		11	20	0	0	11	20	**31**
8	21/6/19		48	11	0	0	48	11	**59**
9	4/9/19		8	26	0	0	8	26	**34**
	Sub-total (A)		**193**	**70**	**52**	**49**	**245**	**117**	**364**
B: Rabi pulses (On campus)									
10	10/10/19	Key steps to increase the production and productivity of chickpea	80	0	0	0	0	0	**80**
11	19/10/19		19	72	0	0	19	72	**91**
12	20/10/19	Scientific cultivation practices of Rabi pulses	15	14	0	0	15	14	**29**
13	8/11/11		15	50	2	0	17	50	67
	Sub-total (B)		**129**	**136**	**2**	**0**	**51**	**136**	**267**
C : Summer pulses (On campus)									
14	24/01/20	Scientific cultivation practices of Summer green gram	0	0	0	14	0	14	14

15	30/01/20	Scientific cultivation practices of Summer green gram	9	3	10	41	19	44	63
16	31/01/20	Important steps to increase the productivity of summer green gram	10	21	2	0	12	21	33
17	01/02/20	Scientific cultivation practices of Summer green gram	0	0	7	13	7	13	20
	Sub total (C)		**19**	**24**	**19**	**68**	**38**	**92**	**130**
	Gran total (A+B+C)		**341**	**230**	**66**	**104**	**327**	**332**	**741**

3. Field visit of CFLDs of Pulses

Sr. No.	Date	Name of village	No. of plots visited	No. of Beneficiaries						Grand total
				SC/ST		Other		Total		
				M	F	M	F	M	F	
	A: Kharif 2019 (Pigeon pea)									
1	4/9/19	Sindhai	2	4	0	0	0	4	0	4
2	4/9/19	Bhinar	4	6	0	0	0	6	0	6
3	18/9/19	Dharampuri	5	1	7	0	0	1	7	8
4	28/9/19	Limazar	7	3	8	0	0	3	8	11
5	28/9/19	Bartad	4	6	3	0	0	6	3	9
6	10/10//19	Kharjai	2	1	1	0	0	1	1	2
7	10/10/19	Kevadi	2	0	2	0	0	0	2	2
	Sub Total-B		**26**	**21**	**21**	**0**	**0**	**21**	**21**	**42**
	B: Rabi 2019 (Chickpea)									
8	06/01/20	Bedmal	2	6	0	0	0	6	0	6
9	23/01/20	Sindhai	4	3	2	0	0	3	2	5
10	23/01/20	Kharjai	6	3	7	0	0	3	7	10
11	25/01/20	Entahl	2	0	0	2	1	2	1	3
12	29/01/20	Dharampuri	4	0	6	0	0	0	6	6
13	29/01/20	Satimal	2	0	3	0	0	0	3	3
	Sub Total-B		**20**	**12**	**18**	**2**	**1**	**14**	**19**	**33**
	Grand total (A+B)		**46**	**33**	**39**	**2**	**1**	**35**	**40**	**75**

4. Field Day organized:-

Sr. No.	Date	Village	Field day organized on crop	SC/ST		Other		Total		Grand Total
				M	F	M	F	M	F	
	A: Summer pulses (2019)									
1	2/4/19	Sindhai	Field day on Greengram	10	9	0	0	10	9	**19**
2	17/04/19	Naranpor	Field day on Greengram	14	18	2	1	16	19	**35**
3	1/5/19	Bartad	Field day on Greengram	26	2	0	0	26	2	**28**
	Sub total-A			**50**	**29**	**2**	**1**	**52**	**30**	**82**
B: Kharif pulses (2019)										
1	19/10/19	Dharampuri	Field day on pigeon pea	11	34	0	0	11	34	**45**
	Sub- Total-B			**11**	**34**	**0**	**0**	**11**	**34**	**45**
C: Rabi 2019 (Chickpea)										
1	29/01/20	Satimal	Field day on Chick pea	0	45	0	0	0	45	**45**
2	29/01/20	Dharampuri	Field day on Chick pea	0	22	0	0	0	22	**22**
3	30/01/20	KVK, Navsari	Field day on Chick pea	9	0	10	35	19	35	**54**
4	31/01/20	KVK, Navsari	Field day on Chick pea	10	21	0	0	10	21	**31**
	Sub total-C			**19**	**88**	**10**	**35**	**29**	**123**	**152**
	Gran Total (A+B+C)			**80**	**151**	**12**	**36**	**92**	**187**	**279**

5. Visit of CFLDs/Study tour

Sr. No.	Date of cluster FLDs visit	Name of Visitor	Designation	FLDs
1	**25-01-2020**	**Dr. Amol Bhalerao**	**Scientist (Ext. Edu.) ATARI, Pune**	**Chick pea Green gram**
2	**11-02-2020**	**Dr. C. K. Timbadia**	**Senior Scientist & Head, KVK, Navsari**	**Gram FLDs visited**

		
Green gram CFDs Plot visited by ATARI Scientist		**Green gram CFDs Plot visited by ATARI Scientist**

6. Technical Parameters:

(A) Performance of Demonstration:

Name of the crop	Demos (No.)	Variety		National average yield (q/ha)	State average yield (q/ha)	District average yield (q/ha)	Potential yield of the demo variety (q/ha)	Yield gap – I (%)	Yield gap – II (%)
		Check	Demo						
Kharif Pulses									
Pigeon pea	125	Local (Deshi)	GNP-2	859	1044	931	1500	28.6	16.53
Rabi Pulses									
Gram (GG-5)	200	Local (Dahod Yellow)	GG-5	951	1330	780	2000	31.1	20.68
Summer Pulses									
Green gram (GM-6)	100	Meha	GM-6	500	439	433	1000	16.4	19.14

(B) Yield performance of CLFDs on pulses

Sr. No.	Name and variety of the crop demonstrated	Yield obtained (q/ha)						% increase in yield
		Check			Demo			
		Max.	Min.	Av.	Max.	Min.	Av.	
1	Pigeon pea (GNP-2)	9.82	6.93	8.94	11.92	9.44	10.71	**20.47**
2	Gram (GG-5)	12.36	8.73	10.93	15.73	11.26	13.78	**26.08**
3	Green gram (GM-6)	7.47	5.86	6.76	9.42	7.04	8.36	**23.67**

(C) Economic parameters of CLFDs on pulses

Sr. No.	Name and variety of the crop demonstrated	Expenditure and returns (Rs./ha)								Net returns increase (%)
		Check				Demo				
		Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	
Kharif pulses										
1	Pigeon pea (GNP-2)	26834	51852	25018	1.93	27590	62118	34528	2.25	38.01
Rabi pulses										
2	Gram (GG-5)	27790	64640	36850	2.33	28580	81613	53033	2.86	43.92
Summer pulses										
3	Green gram (GM-6)	28270	53620	25350	1.90	26950	66286	39336	2.46	55.17

Initial growth stage of pigeon pea


Branching stage of pigeon pea


Flower initiation stage of pigeon pea

CFLDs Plots of Chickpea (GG-5)

CFLDs Plots of Chickpea (GG-5)

CFLDs Plots of Chickpea (GG-5)

CFLDs Plots of Chickpea (GG-5)

CFLDs Plots of Chickpea (GG-5)

CFLDs Plots of Chickpea (GG-5)

Field Day of Chickpea (GG-5)

Field Day of Chickpea (GG-5)

Field Day of Chickpea (GG-5)

Field Day of Chickpea (GG-5)

Field day on Pigeon pea

Field day on Pigeon pea

::- Success story -::

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

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

BEFORE CONTACT WITH KVK

Since 20 years, She is cultivating Pigeon pea traditionally, Wilt was the major problem to hinder her production. Hence more seed was required ti maintain optimum plant population.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	1.0 vigha (0.2 ha)
Variety	-	Gujarat Navsari Pigeon pea-2
Spacing	-	120 cm
Seed Treatment	-	Thiram @ 3 gm/kg seed Rhizobium, PSB and KMB each @ 10-20 ml/kg seed
Seed rate	-	12-15 kg/ha
Nutrient management	-	25:50:00 kg NPK/ha
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 optimized
  - ✓ 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 check
Demo.	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 villages adopted this technology.

Chick pea plot of Champaben Nanubhai Mahala


Chick pea plot of Champaben Nanubhai Mahala

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

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

BEFORE CONTACT WITH KVK

Since 20 years back, she is cultivating Chick pea traditionally but seedling mortality was occurred due to wilt 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 Treatment	-	Thiram @ 3 gm/kg seed Rhizobium, PSB and KMB each @ 10-20 ml/kg seed	
Seed rate	-	60 – 70 kg/ha	
Nutrient management	-	20:40:00 kg NPK/ha	
Weeding	-	2 time weeding	

- **After KVK intervention**
  - Adaption of short durations and wilt tolerant 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 optimized
  - ✓ 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 check
Demo.	**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 villages and surrounding village adopted this technology.

Chick Pea plot of Ramiben Janaksingh Gavit

Chick Pea plot of Ramiben Janaksingh Gavit

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

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

BEFORE CONTACT WITH KVK

Since 26 years, he is cultivatingGreen 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 Treatment	-	Thiram @ 3 gm/kg seed Rhizobium, PSB and KMB each @ 10-20 ml/kg seed
Seed rate	-	25 kg/ha
Nutrient management	-	20:40:00 kg NPK/ha
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**

Yield (kg/ha)		% increase over check
Demo.	**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 villages adopted this technology.

Green Gram plot of Jasuben Patel

Green Gram plot of Jasuben Patel

NFSM Project:-2020-21

1. FLD Organized

Sr. No	Fld organized			Area (ha)	Beneficiaries		
	Crop	Variety	Season		SC/ST	Others	Total
1	Pigeon pea	GT-014	Kharif 2020	10	40	28	**68**
2	Chick pea	GG-5	Rabi-2020	20	157	43	**200**
		TOTAL		**30**	**197**	**71**	**268**

2. Training on CFLDs on Pulses (2020-21)

Sr. No.	Date	Title of training	No. of Beneficiaries						Grand Total
			SC/ST		Other		Total		
			M	F	M	F	M	F	
A: Kharif pulses (Off campus)									
1	09/06/20	Scientific cultivation practices of Pigeon pea crop	0	23	0	0	0	23	**23**
2	09/06/20		9	12	0	0	9	12	**21**
3	19/06/20		0	0	17	19	17	19	**36**
4	19/08/20	Webinar on Scientific cultivation practices of Pigeon pea crop	08	02	14	06	22	08	**30**
	Sub-total (A)		**17**	**37**	**31**	**25**	**48**	**62**	**110**
B : Rabi pulses (On campus)									
4	20/10/20	Key steps to increase the production and productivity of chickpea	2	70	0	0	2	72	**72**
5	21/10/20		4	62	0	0	4	62	**66**
6	22/10/20	Scientific cultivation practices of Rabi pulses	29	36	0	0	29	36	**65**
7	26/10/20		17	4	0	2	17	6	23
8	29/10/20		0	0	8	26	8	26	34
9	04/11/20		22	0	0	0	22	0	22
	Sub-total (B)		**74**	**172**	**8**	**28**	**82**	**202**	**282**
	Gran total (A+B)		**83**	**207**	**25**	**47**	**108**	**256**	**362**

3. Field visit of CFLDs of Pulses

Sr. No.	Date	Name of village	No. of plots visited	No. of Beneficiaries						Grand total
				SC/ST		Other		Total		
				M	F	M	F	M	F	
	A: Summer 2020 (Green gram)									
1	01/4/20	Mandir	2	0	0	0	2	0	2	2

2	11/5/20	Vedacha	3	0	0	1	2	1	2	3
3	11/5/20	Aat	2	0	0	0	2	0	2	2
4	13/5/20	Mohanpor	2	0	0	1	2	1	2	3
5	15/4/20	Hansapor	2	0	0	0	2	0	2	2
	Sub Total-A		**11**	**0**	**0**	**2**	**10**	**2**	**10**	**12**
	B: Kharif 2020 (Pigeon pea)									
6	15/09/20	Chundha	3	3	0	0	0	0	0	3
7	19/09/20	Limzar	6	0	6	0	0	0	0	6
8	28/09/19	Limazar	5	0	5	0	0	0	5	5
9	28/09/19	Bartad	3	0	3	0	0	0	3	3
10	29/09/20	Bhinar	4	5	0	0	0	5	0	5
11	02/10/20	Sindhai	1	1	0	0	0	1	0	1
	Sub Total-B		**22**	**9**	**14**	**0**	**0**	**6**	**8**	**23**
	Grand Total (A+B)		**33**	**9**	**14**	**2**	**10**	**8**	**18**	**35**

CFLDs Plots of Green gram (GM-6) (2020)


CFLDs Plots of Green gram (GM-6) (2020)


CFLDs Plots of Green gram (GM-6) (2020)


CFLDs Plots of Pigeon pea (GT-104) (2020)


CFLDs Plots of Pigeon pea (GT-104) (2020)


CFLDs Plots of Pigeon pea (GT-104) (2020)

Seed Hub Project:

Creation of Seed Hubs for Increasing Indigenous Production of seeds of pulses in India

1. **Separate account opening date as per guidelines: 18/8/17**
2. **Transfer/deposit of money by host institute (Mention date):**
3. **Details of seed production and budget allocation for Seed hubs at KVK, Navsari**

State	Nam of the centre	Seed production target (q)			Budget allocation (Rs. In Lakh)		
		2016-17	2017-18	2018-19	Seed processing & storage Infrastructure under (2016-17)	Revolving und	
						2016-17	2017-18
Gujarat	KVK, Navsari	450	700	1000	50.00	35.00	65.00

4. Target of quality seed production o pulses by seed-hub (KVK, Navsari) during 2016-17 to 2018-19 is a under

State	Name of the centre	District	Crop / Variety	Quantity of seed production (q)			
				2016-17	2017-18	2018-19	Total
Gujarat	KVK, Navsari	Navsari	Mung bean	150	300	350	**2150**
			Pigeon pea	300	400	650	
Total				**450**	**700**	**1000**	

5. 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	29.00	6.00
2	Seed processing machinery equipment	15.00	6.55	8.45
	Total	**50.00**	**35.52**	**14.48**

Latest photograph of infra-structure development


Seed hub godown


Seed processing machinery plant

6. Crop wise seed production

Season (s)	Crop(s) / Variety	Seed prod. target (in q)	Seed prod. Achievement (in q)	At KVK/ SAUs/ Institute farm		At farmers field in participatory mode		Seed certification agency	Type of seed (breeder / TFL etc.)
				Area (ha)	Qt. (q)	Area (ha)	Qt. (q)		
Summer -2020	Green gram (GM-6)	300	3.0	0	0	1.0	3.00	GSCA, Ahmadabad	Certified
Kharif - 2020	Pigeon pea (GT-104)	650	200*	0.5	5.0	15	195	GSCA, Ahmadabad	Certified

7. Expenditure details

Year	Fund allocation (Rs. In Lakh)	Opening Balance (Rs. In Lakh)	Expenditure (Rs in lakh)	Remaining	Remarks
2016-17	85.00	85.00	35.02	49.98	-
2017-18	53.00	102.98	2.24	100.74	
2018-19	12.00	112.74	9.74	103.00	
2019-20	0	103.00	24.42	78.58	14.19 income and interests
2020-21	0	92.77	3.61	89.16	

8. Seed hub field plots visit

Sr. No.	Place visited	Date	Crop	No. of Baneberries		Total
				M	F	
2020-21						
1	Sadadvel	26/05/20	Green gram	3	0	3
2	Sadadvel	30/5/20	Green gram	2	0	2
3	KVK/farmer Field	5/9/18	Pigeon pea (Vaishali)	2	0	2
4	Karmad	10/9/18	Pigeon pea (Vaishali)	2	0	2
	Total			**9**	**0**	**9**

Photograph of Seed production of Green gram and Pigeon pea under seed hub project

Seed production of green gram at farmers field

Pigeon pea seed production at KVK Farm

Pigeon pea seed production at farmers field
Village:- Karmad Ta.-Jambusar Dist. Bharuch

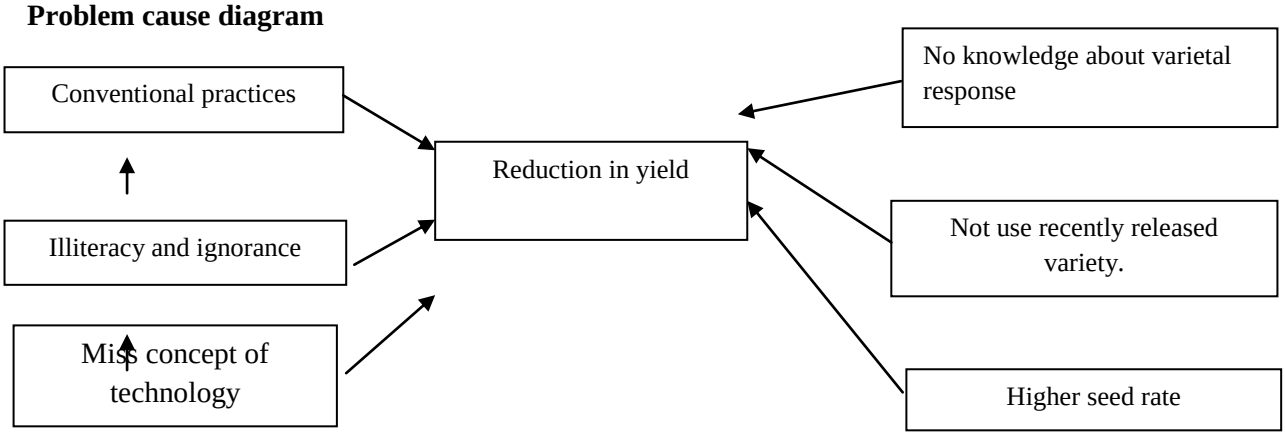
C. <u>On Farm Testing :</u>

Sr. No.	Particulars	No.	Number of Farmers
	Agronomy		
1	New Variety in hybrid rice GRH-2	1	8
2	Use of Liquid Consortia NPK-1(KRIBHCO Polyculture) In Sugarcane Crop.	1	6
	Horticulture		
3	New variety in Brinjal (NSRP 1)	1	6
4	Use Of Liquid Consortia NPK-1(KRIBHCO Polyculture) In Mango Crop.	1	6
	Plant protection		
5	Sucking pest management in chilli	1	6
	Fisheries		
6	To assess stocking density of pangasius (*Pangasius hypophthalamus*) fish in pond based culture system.	1	20

OFT-1

Title of OFT	:	Assessment of newly released hybrid rice variety GRH-2
Description about the problem	:	Farmers of south Gujarat are not adopting recommended rice GRH-2. Generally farmers are sowing new improved rice varieties which are susceptible to many diseases an d low yielding hence farmers get very low yield
Causes of problem	:	Lack of knowledge about hybrid rice which are low yielding as compact to hybrid rice
Treatment	:	T1 : Hybrid Rice (Private) Us-312/6444
		T2: GR 3/NAUR-1 (5000 kg/ha)
		T3: rice GRH-2 Long cylindrical, 1000 seeding 25 gm yield 6000-6500 kg/ha.
Methodology	:	The above assessment will be conducted during kharif-2020. Six numbers of farmers will be selected randomly from adopted villages. The required data will collect and analysis will be done to draw conclusions. The result of OFT will be disseminate to the farmers. All the statistical procedures will be followed in OFT
Observation	:	1. Height of the plant
		2.Numbers of tillers and length of spike
		3. Yield kg/ha

Problem cause diagram



Socio-economic **Bio-physical**

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Irrigated	Farmers of south Gujarat are not adopting university recommended rice variety. Generally farmers are sowing new improve variety rice varieties which are susceptible to many diseases an d low yielding hence farmers get very low yield	Assessment of newly released hybrid rice variety GRH-2	8	US-312/ 6444 Private company Variety	No. of tillers and yield	16/ hill	4431 kg/ha	New hybrid variety is good yield but susceptible to pest and diseases	--	---
					GR 17/ NAUR-1	No. of tillers and yield	15/ hill	4106 kg/ha	--		
					Hybrid rice GRH-2	No. of tillers and yield	18/ hill	4763 kg/ha	New hybrid variety is very good yield and moderate tolerance against pest and disease		

1. **Results of Technologies Assessed**

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	B C Ratio
13	**14**	**15**	**16**	**17**	**18**
US-312/6444	Private company technology	4431	kg/ha	49491	2.23
GR 17/ NAUR-1	Navsari Agricultural University technology	4106	kg/ha	42037	2.06
Hybrid rice GRH-2	Navsari Agricultural University technology	4763	kg/ha	55013	2.33

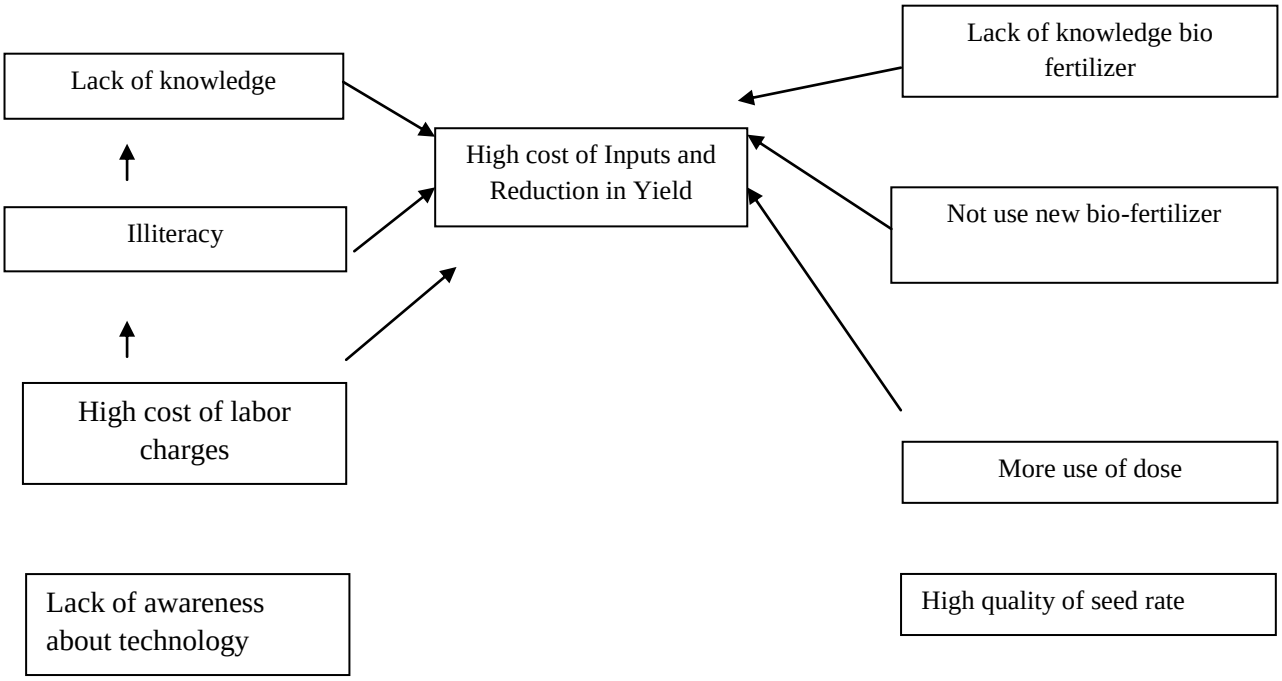
OFT plot of Paddy GRH-2 Village:-Limzar

OFT plot of Paddy GRH-2 Village:-Chundha

OFT- 2

Title Of OFT	Use of Liquid Consortia NPK-1(KRIBHCO Polyculture) In Sugarcane Crop.
Description About The Problem	Farmers Of South Gujarat Are Not Use Of Polyculter Which Is New Research; Generally Farmers Are Use only Single Culture of Bio Fertilizer Due to that High Cost Of Inputs And Low Production Of Yield.
Cause Of Problem	Lack of Knowledge about the liquid consortia NPK-1(KRIBHCO Polyculture) (NCOF Ghaziabad)
Treatment	T1-Farmers practice
	T2- Sugarcane Bud Setts Treatment In Prepared Solution Of Azotobacter In 10 Ltr Of Water Deep For 30 Minutes And Drenching Of Azotobancter, PSB And KMB With Normal Irrigation @ 1 Ltr/Acre
	T3 : PSB, Azato, KMB 2 lit/ha at 30 DAS & 90 days soil
Methodology	Above Assessment Conducted During Kharif-2020. With Six Number Of Farmers Will Selected Randomly From Adopted Villages
Observation	1. Height Of Plant
	2.Yield /Acre

Problem cause diagram



Socio-economic **Bio-physical**

Crop / enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Sugar cane	Irrigated	Farmers of south Gujarat are not adopting university recommended rice variety. Generally farmers are sowing new improve variety rice varieties which are susceptible to many diseases an d low yielding hence farmers get very low yield	Use of Liquid Consortia NPK-1(KRIBHCO Polyculture) In Sugarcane Crop.	6	Farmers practice	Height of plant Yield	Crop is standing (On going)			--	---
					Sugarcane Bud Setts Treatment In Prepared Solution Of Azotobacter In 10 Ltr Of Water Deep For 30 Minutes And Drenching Of Azotobancter, PSB And KMB With Normal Irrigation @ 1 Ltr/Acre PSB, Azato, KMB 2 lit/ha at 30 DAS & 90 days soil						

OFT plot of Sugarcane Village:-Bodali

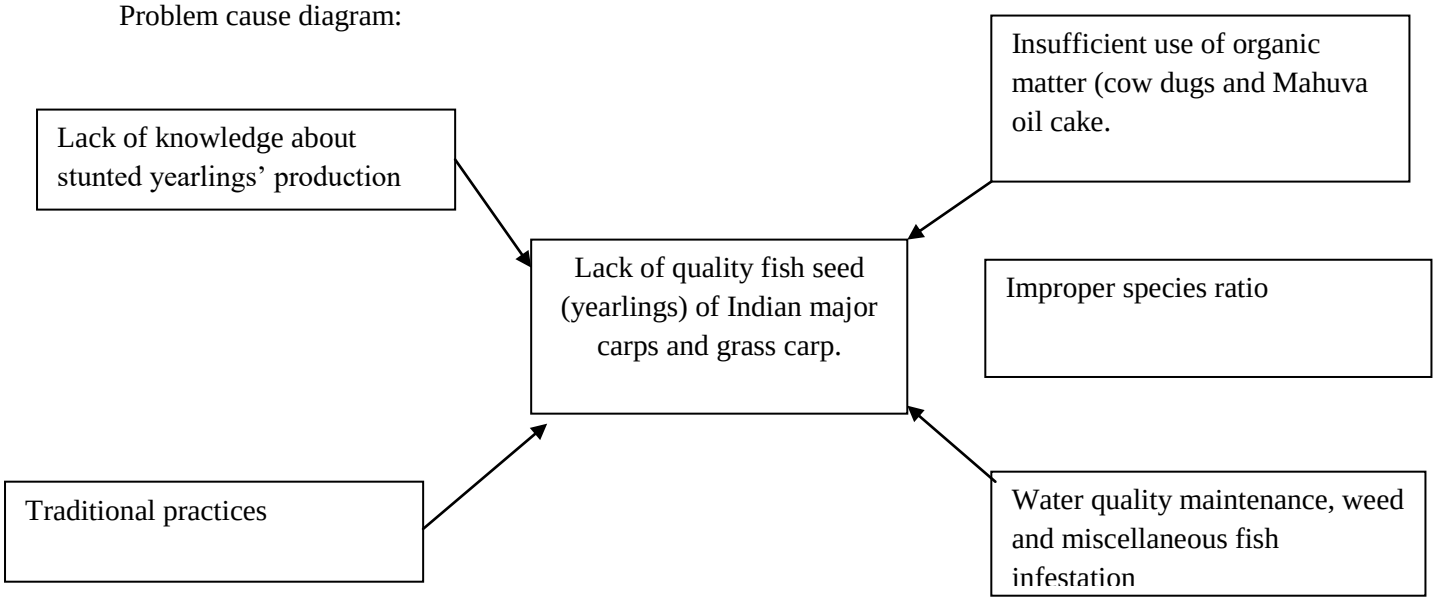
OFT plot of Sugarcane Village:-Kharjani

1	**Title of OFT**	:	To assess the stocking density of fingerlings (Catla, Rohu, Mrigal and Grass carp) for production of stunted yearlings in cage culture system
2	**Description**	:	India is renowned as the 'carp country' and Indian major carps (IMC) form the mainstay of culture fishery sector. This sector contributes as much as 87% of the total national aquaculture production. IMCs contributed to the total aquaculture production of India to the tune of 2.8 million metric t during the year 2008 (FAO, 2008). Since carps are known to grow faster during their second year, so there is a demand of 8-12 month-old stunted fishes of 100 -150 g, instead of fry or fingerlings as practiced in the traditional system. Stunted yearlings are better stocking material for carp culture because of their higher survival rate. They are less vulnerable to predation and diseases and are more tolerant to environmental fluctuations; require less time to reach marketable size leading to higher production. Stunted yearlings have higher demand as they utilize seasonal grow-out ponds efficiently and the fishes can be sold at a higher price too (Radheysham and Saha, 2009). Cage culture system was found better to produce stunted yearlings in big and vast water bodies. Navsari Agricultural university recommended cage rearing stunted yearlings with density of 166 per cubic meter for better result. It requires assessing in village tanks.
3	**Cause of problem**	:	1. Lack of knowledge for stunted yearlings production system.
4	**Treatments**	:	T-1= Farmers Practices (stunted yearlings production in nursery tanks of 0.1 ha. T2- 166 fingerlings per cubic meter in net cage.
5	**Season**	:	12 months (September to August)
6	**Location**	:	Village ponds of Mohanpur and Ancheli No of farmers = 4 farmers
7	**Mehotodology**	:	Assessment will be conducted in village ponds of 0.1 ha of size and net cage of the size 3 m x 2 x 1m. Fish seeds Indian Major carps and grass carps (Fingerlings 30 to 40 mm size) will be stocked @ 500 numbers per 100 sq meter and 166 number per cubic meter in nursery rearing tanks and net cage respectively in the ratio of 2:4.5:2.5:1:: Catla: Rohu:Mrigal:Grass carp. Net cage will be installed in village tanks of 0.5 ha size. Manuring with cow dung will be done @ 10 ton per ha in both the cases. In both the cases fish will be fed with low protein (12-15%) feed at too much lower rate. Average growth in terms of length and weight will be recorded. The result of OFT will be disseminated to the farmers. All statistical procedure will be followed in OFT.
8	**Observation to be recorded**	:	Fish Length (mm), Fish weigh (g) and survival (%), Production per ha in terms of numbers stunted yearlings. Economics
9	**Observation**	:	Table-I
10	**Conclusion**	:	Survival: 32.85% higher in cage rearing than pond rearing system. Mean length of of Catla, Rohu, Mrigal and Grass carp is 20.48, 26.12, 30.58 & 57.90% less in cage rearing respectively than pond rearing system. Mean weight of of Catla, Rohu, Mrigal and Grass carp is 42.87, 70.80, 17.54 and 126.98% less in cage rearing respectively than pond rearing system.

TABLE-I

Sr. No	Village	Stocking numbers		Mean Survival (%)		Average length (mm)		Average weight (g)	
1		Pond (0.1ha)	Cage 3 m x 2mx 1 m	Pond (0.1ha)	Cage 3 m x 2mx 1 m	Pond (0.1ha)	Cage 3 m x 2mx 1 m	Pond (0.1ha)	Cage 3 m x 2mx 1 m
	Ancheli	5000	996	69.20	86.35	Catla-220	172	180	110
						Rohu-267	210	168	90
						Mrigal-193	138	68	54
						Grass carp-205	135	142	70
	Mohanpur	5000	996	62.00	87.95	Catla-180	160	120	100
						Rohu-240	192	122	80
						Mrigal-170	140	66	60
						Grass carp-215	130	144	55
	Mean	5000	996	65.60	87.15	Catla- 200	166	150	105
						Rohu-253.5	201	145	85
						Mrigal-181.50	139	67	57
						Grass carp-210	133	143	63

Problem cause diagram:



D. Other Extension Activities:

Sr. No.	Activity	No.	No. of Beneficiaries (Farmers/Rural Youth)			No. of Extension Functionaries			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Field Day	9	282	200	482	10	3	13	292	203	495
2	Field / FLD visit	61	257	226	483	12	4	16	269	230	499
3	Kisan Mela	1	12	700	712	12	3	15	24	703	727
4	Khedut Shibir/ Mahila shibir	13	633	445	1078	18	8	26	651	453	1104
5	Kisan Gosthi / Mahila Gosthi	2	100	233	333	8	4	12	108	237	345
6	Film Show	23	456	364	820	15	5	20	471	369	840
7	Agricultural Exhibition	10	2622	4040	6662	25	9	34	2647	4049	6696
8	Educational Tour	1	25	28	53	5	1	6	30	29	59
9	Workshop / Seminar / Meeting attended	59									
10	Group Meeting / Farmer's meeting / Mahila meeting	17	166	105	271	24	6	30	190	111	301
11	Lecture Delivered/ Guest lecture	37	2201	615	2816	18	4	22	2219	619	2838
12	Newspaper Coverage	34									
13	Popular Articles	5									
14	Extension Literature (Training Manual)	1	(50 COPY)								
15	Radio Talk	2									

16	TV Talk	9									
17	Telephonic helpline		Mass (5296 Farmers are benefited)								
18	E-KVK Service	39	482252 Farmers are benefited								
19	Scientist Visit to Farmers Field	90	954	725	1679	26	8	34	980	733	1713
20	Dignitaries visit to KVK	21									
21	Farmers Visit to KVK	237	1054	859	1913	21	8	29	1075	867	1942
22	Diagnostic Visit	18	22	5	27	12	2	14	34	7	41
23	Exposure visit	6	137	33	170	15	0	15	152	33	185
24	Soil & water samples analysis	56	35	21	56	2	1	3	37	22	59
25	SHG meeting	1		20	20	1	2	3	1	22	23
26	Farmer seminar & workshop	2	267	183	450	5	1	6	272	184	456
27	Awareness Programme	1	212	257	469	19	4	23	231	261	492
28	Rawe Programme	2	8	2	10	5	1	6	13	3	16
29	Day Celebration	12	1883	3609	5492	26	12	38	1909	3621	5530
30	Method Demonstration	2	5	15	20	3	2	5	8	17	25
31	Dial out Conference	5	45	68	113	7	1	8	52	69	121
32	Organic Farming pak parisanvad	2	156	250	406	5	2	7	161	252	413
	Total	778	11532	13003	24535	294	91	385	11826	13094	24920

Literature Published:

Sr. No.	Items	Number of Publications	Number of copies
1.	Technical Reports	24	170
2.	Extension Literature/Training Manual	31/1	50
3.	Research Papers	5	3
4.	Popular Articles	5	3
5.	Newspaper Coverage	34	25

E. Functional linkages with different Organization

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 Society, Gandevi	Organizing Khedut shibirs
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, Chikhali, Jalalpore	Collaborative training and extension programmes
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, Gandhinagar	Collaborative training and extension programmes
26.	ASPEE foundation, Mumbai	Collaborative training and extension programmes
27.	JCB, Mumbai	Collaborative training and extension programmes
28.	Gandhi Memorial project, Gujarat Vidyapeeth, Ahmedabad	Collaborative training and extension programmes
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 programme
39	Shakti Foundation,Surat	Collaborative programme

(F) Special programmes undertaken by the KVK, during reporting period.

Sr. No	Name of the scheme	Date/ Month of initiation / B.H	Funding agency	Amount received (Rs. in Lakh)
1	Establishment of demonstration-cum-training center for Inland fisheries	12943	State Govt.	23.10
2	Strengthening and testing of universities technologies on farmer's field through adoptive trials, Phase-II	12306-A	State Govt.	9.00
3	Cluster frontline demonstrations of Rabi pulses	2105/00	Central Govt.	14.86
4	ARYA Project	18191	Central Govt.	12.35
5	Scheme for Organic farming	18172/02	State Govt.	29.23
6	Creation of seed hub for increasing indigenous production of Pulses in India Seed Hubs	2704-02-A	Central Govt.	37.64
7	PKVY - Skill development	02113/02	Central Govt.	0.38
8	Turmeric	18930-B	Central Govt.	0.45
9	Mega seed project	2068/C	Central Govt.	0.50
10	ASCI-Organic grower	2126	Central Govt.	1.80
11	ASCI-gardener	2125/02	Central Govt.	1.80
12	Pradhan Mantari Kisan Sanmman Nidhi (PM KISHAN)	18207	Central Govt.	5.65
Total				**136.76**

ACTIVITIES UNDER ORGANIC PROJECT "AWARENESS DEVELOPMENT AND DEMONSTRATION OF ORGANIC FARMING IN SOUTH GUJARAT"

Webinar/ Virtual Meetings

Date	Name of the Topic	Participants
27/07/2020	Organic farming and its scope in south Gujarat	65
30/07/2020	Organic farming and farm certification	170

Certification process:

Total: 23 farmers obtained C-1 certificate

On 5/08/2020 about 06 farmers certification is renewed for C-2 certification

Vermibed Distribution under Demonstration:

Date	Name of the Village	Awareness programme Training/farmers Shibir/ farmers Seminar/	Total number of Vermibed Distributed
11/08/2020	Ichhapore	Women Shelp help group	10
13/08/2020	Aat	Progressive farm women group	27
17/08/2020	Mandir/Hansapore	Progressive farm women group (Organic farmers)	06
18/08/2020	Abrama	Progressive farm women group (Organic farmers)	10
02/09/2020	Syada	Progressive farm women group (Organic farmers)	10
10/09/2020	Talavchora	Farmers group	205
25/09/2020	Desara (Gandevi)	Organic farm women	02
28/09/2020	Dambhar/Posara	Progressive farm women group (Organic farmers)	35
13/10/2020	Bhutsad	Progressive farmers group (Organic farmers)	05
15/10/2020	Abrama	Progressive farmers and farm women group (Organic farmers)	105
21/10/2020	Abrama	Progressive farmers and farm women group (Organic farmers)	22
10/11/2020	Mohanpur	Progressive farmers and farm women group (Organic farmers)	150
-	Pathri, kacholi, kalthan, Gandeva	farmers and farm women	13
TOTAL NUMBER OF VERMIBED DISTRIBUTED			**600**

TRAININGS OFF CAMPUS

NADEP COMPOST		
Date	**Name of the village/ Training**	**Total number of participants**
29/10/2020	Navsari District farmers	50
07/11/2020	Navsari District farmers	38
USE OF BIO-PESTICDES *(Trichoderam viridae, Beauria bassiana, Metarhizium anisoplae, Lecanicillium Lecani)*		
27/11/2020	Kukada, Kelkach, Dharampuri	58
28/11/2020	Mahuvas, Unai, Bartad, Godhabari	35

GOPCA C-1 Certification

Sr.No.	Farmer's Name	Village	Mobile No.
1.	Rajanikanth Baghubhai Patel	Alura	9429486139
2.	Bharatbhai Ramanbhai Patel	Alura	9825356072
3.	Bhratkumar Indravadan Patel	Alura	9825361764
4.	Kiranbhai Khandubhai Naik	Amalsad	9898933403
5.	Arvindbhai B.Jadhav	Bedmal	7874140098
6.	Rameshbhai R.Desai	Bhuhari	9909678909
7.	Balubhai Tintubhai Patel	Kamrej	9898448262
8.	Manthanbhai Sureshbhai Patel	Kamrej	9978941188
9.	Maheshbhai Balubhai Patel	Aethan	9427166584
10.	Girishchandra Shantilal Naik	Hansapore	9409418173
11.	Manharbhai M.Patel	Jokha	9426841915
12.	Mahendrabhai Pandya	Kadodara	9824463280
13.	Kantibhai Dajibhai Patel	Kharakhat	9726073462
14.	Jitendra Jamubhai Patel	Kasad	7600785600
15.	Mohanbhai Jamsubhai Gavit	Khanpur	9726204512
16.	Sejalkumar Devdattabhai Patel	Kumbhar Faliya	9426131269
17.	Maheshbhai Vanbalibhai Patel	Olpad	9427425310
18.	Dileepbhai Parsottambhai Patel	Olpad	9925022977
19.	Vinodbhai Rameshbhai Patel	Sevani (Kamrej)	9998875108
20.	Sachinbhai Navinbhai Patel	Talavchora	9925367405
21.	Satishchandra Naik	Talavchora	9824181370
22.	Amruthbhai Dajibhai Patel	Vanzana	9428159817
23.	Sureshbhai K.Patel	Vanzana	9909530953

GOPCA C-2 Certification

Sr.No.	Farmer's Name	Village	Mobile No.
1.	Amruthbhai Dajibhai Patel	Vanzana	9428159817
2.	Mohanbhai Jamsubhai Gavit	Khanpur	9726204512
3.	Satishchandra Naik	Talavchora	9824181370
4.	Sachinbhai Navinbhai Patel	Talavchora	9925367405

GOPCA Certification New Form

Sr.No.	Farmer's Name	Village
1.	Udaybhai Shankarbhai Desai	Abarma
2.	Jayeshbhai Hasmukhbhai Naik	Kharsad
3.	Mangiben Ratanjibhai Patel	Khergam
4.	Manilal Jivabhai Patel	Khata amba
5.	Vijaybhai Zinabhai Patel	Nanikarod
6.	Babubhai Dayaljibhai Naik	Dhamdacha
7.	Rakeshbhai Nanubhai Patel	Talavchora
8.	Mineshbhai Nanubhai Patel	Talavchora
9.	Lalbhai Bhanabhai Patel	Onjal
10.	Yagneshchandra Ramanlal Naik	Ghanghor
11.	Pareshbhai Balubhai Naik	Ghanghor
12.	Jagubhai Babajibhai Choudhari	Bartad
13.	Sureshbhai Hirabhai Garasiya	Khanpur

GOPCA Certification (New)

Sr.No.	Farmer's Name	Village	Mobile No.
1.	Kanubhai Kalyanjibhai Patel	Kharoli	
2.	Chimanbhai Keshavbhai Patel	Sadadvel	
3.	Thakorbhai Laljibhai Rathod	Ganghor	
4.	Kantilal Ramanbhai Patel	Aat	9512259222
5.	Fakrubhai Maharubhai Kamdi	Ghodmal	
6.	Ishvarlal Chhganlal Patel	Aat	8140892439
7.	Dipakkumar Ratanjibhao Patel	Khergam	
8.	Harshadray Ratanjibhai Patel	Khergam	
9.	Atulkumar Ratanjibhai Patel	Khergam	
10.	Mangiben Ratanjibhai Patel	Khergam	
11.	Ashokkumar Ratanjibhai Patel	Khergam	
12.	Harshkant Ratanjibhai Patel	Khergam	
13.	Mineshbhai K.Patel	Vedchha	9825176006
14.	Jitendra Ramanlal Patel	Antliya	
15.	Rameshchandra Dhirubhai Naik	Khakhavada	9376666865
16.	Sumanbhai Dhirubhai Naik	Ganghor	9427868956
17.	Gopalbhai Lallubhai Patel	Aachhvani	
18.	Maganbhai Panjibhai Deshmukh	Bedmal	
19.	Raichandbhai Devjbhai Deshmukh	Bedmal	
20.	Dharmeshbhai Bhagubhai Patel	Chijgam	9824825273
21.	Pramodbhai Rambhai Patel	Kolasana	
22.	Parimal Girishchandra Desai	Mandir	9724308044
23.	Premjibhai Babubhai Patel	Rajsthali	
24.	Vipinbhai Kandubhai Naik	Khakwada	9925578142
25.	Ishwarbhai Kalpabhai Bagaliya	Umarkui	
26.	Vijaykumar Chaganlal Patel	Aat	
27.	Rameshbhai Ratilal Desai	Umarkuchh	
28.	Gulabhbhai Jeevanlubhai Bhagariya	Umarkui	

EXPOSURE VISIT

NAVSARI FARMERS TO VISIT- INDIA'S FIRST ORGANIC STATE SIKKIM

About 41 selected organic farmers took a trip to Sikkim, India's first organic state. The government is funded educational trip/exposure visit wherein farmers, observers and representatives would get an opportunity to interact with the Sikkim farmers and learn intricacies of organic farming. A special project has been initiated by Government of Gujarat "Awareness, development, demonstration of organic farming in South Gujarat" to Krishi Vigyan Kendra, Navsari Agricultural University, Navsari to promote Navasri as one of the organic district in the state. Budget of 44.10 lakh has been allotted for the purpose. "To encourage the usage of organic farming and use of organic manure, 900 vermicompost units and 100 NADEP would be set up in the district. Government of Gujarat would extend 50% subsidy to farmers in setting up NADEP units," informed Dr. C.K.Timbadia, Senior Scientist and Head, KVK, Navsari, Further, the farmers covered under the project would also be given mini kits including bio-fertilizers, bio-pesticides. Efforts would also be undertaken to develop a market so that the farmers would make profits by selling their organic produce, Dr. C.K.Timbadia said. On Wednesday 4/03/2020 farmers started their journey by train "Avantika Express" and may reach on 7/03/2020. Progressive farmers and other Organic growers were present and convey the best wishes to famers.

Places Visited at Sikkim

1. National Organic farming Research Institute (NOFRI), Gangtok, Sikkim.	6. Progressive farmer visit Near Lachung & FPO Lachang
2. Progressive Farmer Visit Near East Sikkim Village Savreni and Kamrey	7. Progressive Farmer visit Neat village Katao & Sarchok
3. East Sikkim KVK Ranipol, Farm Visit FPO Ranipol and Lal market Gangkot	8. North Sikkim KVK, Mangam farm visit and progressive farmer visit village Bojogari
4. South Sillim KVK, Namthang and progressive farmer visit village Bikmat payuram	9. Yumthang valley
5. North Sikkim KVK, Mangam farm visit and progressive farmer visit village Bojogari	10. Tsongmo lake, Two Lahmo lake and other site seeing places as per your convenient


Exposure visit at Sikkim for Organic Growers

Exposure visit at Sikkim for Organic Growers


Distribution of Vermi bed


Distribution of Vermi bed


Preparation, process of Panchgavya, Jivamrut and Bijamrut


Preparation of vermicompost and NADEP Compost




Note : NADEP and Vermi composting at Farmer's field

Demonstration Unit at KVK, Navsari

- ✓ Low cost Green house
- ✓ Kitchen Garden
- ✓ Mushroom Unit
- ✓ Water harvesting structure
- ✓ Tubewell recharge by building water harvesting.
- ✓ Fish pond
- ✓ Fish aquarium

- ✓ Mulching
- ✓ Organic Cell
- ✓ Seed production plot.
- ✓ Drip irrigation & mulch

Seed produced at KVK, Navsari

Sr. No.	Name of crop		Qty. (Kg)	Income generated (Rs.)
1	Paddy	GNR-3	6650	To be sell in Kharif-21
2	Paddy	GNR-7	1960	
	Total		**8600**	

Saplings produced at KVK, Navsari

Sr.No.	Name of crop	Qty. (no.)	Income generated (Rs.)
1	Brinjal	2035	1225
2	Tomato	250	150
3	Chilli	350	210
4	Cabbage	200	120
5	Mari gold	275	275
	TOTAL	**3110**	**1980**

Vegetables and other crop produced at KVK, Navsari

Sr.No.	Name of crop	Qty. (kg)	Income generated (Rs.)	Sr.No.	Name of crop	Qty. (kg)	Income generated (Rs.)
1	Brinjal	194	3880	13	Carrot	80	200
2	Tomato	126.5	2530	14	Cabbage	12	240
3	Ridge gourd	62.75	1255	15	Drum stick	24	40
4	Sponge gourd	80	1600	16	Watermelon	4151.3	103783
5	Okra	125	2500	17	Fish	2714	271400
6	Bitter gourd	10.75	215	18	Little gourd	22	440
7	Indian bean	10	200	19	Green leafy vegetables	771	3855
8	Bottle gourd	24.5	490	20	Pumpkin	25.5	510
9	Raddish	86	215	21	Green gram	37	3330
10	Pointed gourd	33.75	675	22	Cauli flower	9.5	190
11	Sweet corn	993.5	19870	23	Tuver	139	9730
12	Gram	434	30380	24	Beet root	64	160
	TOTAL	2180.75	63810		**TOTAL**	8049.3	393878
Grand total = 457688.00 i.e. Four Lakh Fifty Seven Thousand Six Hundred Eighty Eight only							

Inputs availability and Marketing help to the farmers.

Sr. No	Name of Input Marketing through KVK	Qty.
1	Honey	256 kg
2	Turmeric powder	130 kg
3	Ginger powder	40 kg
4	Gulkand	100 bottle
5	Garam Masala	165 Packet
6	Tea Masala	298 Packet
7	Hair Oil	140 bottle
8	Rose Water	50 bottle
9	Face Pack	28 Packet
10	Coriander & cumin powder	10 Packet
11	Nagali Biscuit	147 Packet
12	Groundnut oil	50 bottle
13	Aachar masala	32 Packet
14	Simple Diya (Kodiya)	18 dozen
15	Decorated diya (Kodiya)	10 dozen

(H)Remarkable activities carried out during reporting period

[1]

Agriculture Fair at FTC Navsari (Date : 10/01/2020)

KVK, Navsari & ATMA organized Agriculture fair at FTC Navsari Hon Dr Amitaben Patel District president inaugurated and said use of technologies are need of the day in agriculture and emphasized 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.

[2]

Mango Seminar Programme (Date : 17/01/2020)

Krishi vigyan Kendra organized mango seminar at KVK Navsari in collaboration of Horticulture department Navsari. Hon MLA Nareshbhai Patel, DEE Dr G R Patel, Dr C K Timbadia, Ex principal ASPEE collage, Dr N L Patel and scientists 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 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 programme.


[3]

25 Days Skill Training on Organic Grower and Assistant Gardner

(Date :27/01/2020 to 20/02/2020)

Krishi vigyan kendra organized on campus 25 days skill training 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 farming. 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.


[4]

Khedut Shibir Programm on Organic Farming (Date : 07/02/2020)

Khedut Shibir on organic farming 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 Yoga, 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 Newzealand, Dr C K Timbadia, Parimal Patel Dandi and Champaben. More than 160 farmers are participated in this programme.

[5]

Pradhan Mantari Kisan Sanmman Nidhi (PM KISHAN) Programme (Date : 24/02/2020)

Pradhan Mantari Kisan Sanmman Nidhi (PM KISHAN) Programm, 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 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. Mr. Rupala, Hon'ble agriculture minister of state, GOI, 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.


[6]

Health Awareness Seminar Programme (Date: 5/3/2020)

Krishi vigyan Kendra organized on campus program in Swasthay Jagruti Shibir 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 Timbadia More than 119 senior citizen participated in this programm.


[7]

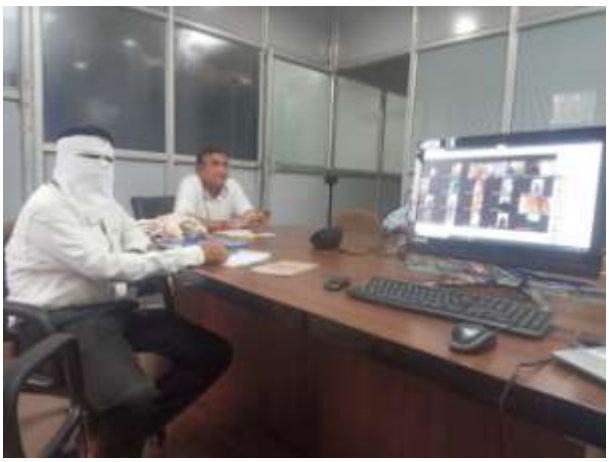
International Woman's Days Programme (Date : 08/03/2020)

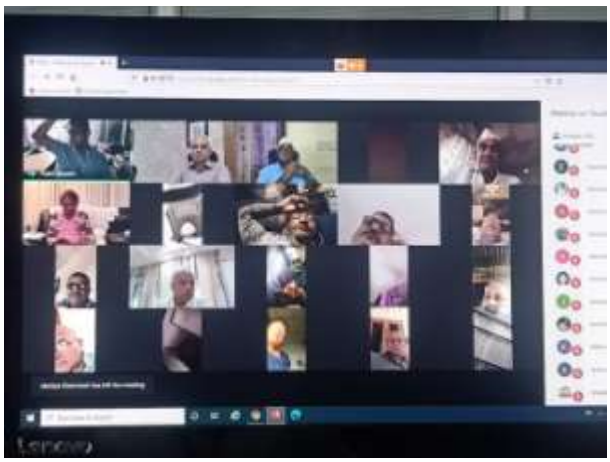
Krishi vigyan Kendra organized on campus program in International Woman's day was celebrate in auspicious presence of Hon district president Amitaban Patel, Prafulaben Desai board members NAU, Deisiben Bodhanwala president Rotary club navsari, Rishida Thakur president Tapasya Nari seva sansthan and trustees 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. More than 106 woman participated in this programme.

[8]

State level webinar (Date: 17-8-2020)

State level webinar organized on covid-19 and Agriculture for Innovative Farmers of different District of Gujarat state. in this webinar 110 farmers were participated and share their farming knowledge feedback experience during pandemic situation.





[9]

District Development Officer Navsari Visit (Date : 21-8-2020)

District Development Officer Navsari Visit Krishi Vigyan Kendra, Navsari. Dr. C.K.Timbadia Senior Scientist and Head KVK, Navsari briefed the on going the center, DDO. Navsari interacted with KVK.Scientist and known about the in detailed activities. Later DDO Navsari took part in the off campus training at village "Vada" which has been organized by KVK, Navsari Scientist farmer interaction on sugarcane, paddy and mango, scientific cultivation and management practices were discussed. DDO Navsari gave advice to farmers about the agriculture schemes. About 92 farmers were present during the off campus trainiing.


[10]

Inauguration of Academic and Administrative Building of Rani Lakshmi Bai Central Agriculture University Jhansi (Date: 29-8-2020)

Live telecast programme of Hon PM Shree Narendra Modi from Zanshi Bundelkhand were organized by KVK Navsari at ABM building NAU campus. Farmers were exposed about government schemes and promoted for organic farming particularly for cow based agriculture by Dr. C. K. Timbadia, Senior Scientist and Head KVK, More than 43 farmers are participated in these programmers.


[11]

Celebration of National Nutrition Week (Date : 04-09-2020)

Poshan jagruti shibir organized at KVK adopted village Dambhar in presence of sarpanch Ashaben, Deputy sarpanch Prafulbhai, Dairy chairman Ketanbhai of Dhambhar village and Dr. C. K. Timbadia, Senior Scientist and head, KVK Navsari. Recipe competition organized on the occasion poshan month celebration. Were 50 participated enthusiastically prize farm woman gave to best 1 to 3 recipe and consolidation prize also gave all 19 participation .

[12]

National Nutrition Abhiyan-2020 (Date: 17-9-2020)

Krishi Vigyan Kendra, Navsari and IFFCO jointly organized National Nutriation Abhiyan-2020 at central examination hall, Navsari Agriculture University in presence of Hon. Vice Chancellor Dr. Chaudhary sir, Hon. Dr. Amitaben, Present of Navsari district panchayat, Hon. Prafulaben Desai, member of board of management , Hon. Dr K. A Patel, director of Extention Education and Dr C. K Timbadia sir, Senior Scientist and Head, KVK, Navsari. Moreover Dr. Nitalben (Home Scientist), Dr. K. A Shah, scientist (Agronomy) gave lecture on this occasion. More than 83 woman are participated in this programm.

[13]

Online Dish Contest (Date : 06-09-2020)

Online dish contest was organized among KVK Navsari woman leader group on the occasion of celebration of nutrition week under the president of Hon Prafulaben Desai Member of BM of NAU. In total 43 food dishes were prepared and put in contest within given time from 10:00 AM TO 3:00 PM by woman leaders and show their potentiality and great efficacy from the rural area. Judges were Mrs Arti Soni and Mrs Minaxi Scientist from KVK Vyara and Dediapada and was organized by active participation of Mrs Nital Patel from KVK Navsari. All participant have show very good performance.

[14]

Swachhata abhiyan and farm woman shibir (Date : 29-9-2020)

On the eve of 150th Birthday anniversary of Mahatma Gandhi " Swachhata Abhiyan" and one day mahila shibir was organized on 29-09-2020 at Krishi Vigyan Kendra, Navsari Agricultural University Navsari. During the programme lecture were delivered on Gandhiar philosophy and this values by experts. Dr. K. A. Patel Director of Extension Education NAU, Navsari graced the function. Gandhian philosopher Shri Kalubhai Dangar thrown light on the Gandhi and his values. Smt Jayaben Barewadiya also the gathering on Gandhi's lifestyle. Dr C. K. Timbadia Senior Scientist and Head welcomed all the dignitaries and official vote of thanks. More than 83 farmers are participated in this training.

[15]

Celebration of Mahila Kisan Divas (Date : 15-10-2020)

KVK, Navsari organized mahila kisan divas at Abrama village in presence of Dr. Amita Patel, District president Navsari, Res. Prafulaben, Board of Management member, Navsari Agricultural University, Navsari and Dr. C. K. Timbadia, Senior Scientist and Head KVK Navsari and also distribution of vermibed.Three progressive farm woman also felicitated in this event. Moreover 200 farm woman were participated in this programm.

[16]

Farmers Shibir on Vermicompost (Date : 10-09-2020)

Farmers Shibir on Vermicompost Krishi Vigyan Kendra, Navsari Agriculture University, Navsari organized one day farmers shibir on " Vermicompost" at Talavchora village about 204 vermibed is distributed among the farmers. 300 farmers were attended the shibir and interacted with the KVK, Scientist Already 6 farmers of the village obtained "GOPCA" organic certificate which has been processed through KVK, Navsari, Hon'ble MLA Chikhli and Navsari were remain present during shibir.

[17]

World Food Day Celebration (Date :16-10-2020)

Krishi Vigyan Kendra organized world food day celebration. Hon'ble new vice chancellor, NAU, Navsari Dr. Z. P. Patel, Board member, NAU, Navsari, Mr. Lalit Thummer, Dr. C. K. Timbadia, Senior Scientist and Head, KVK, Navsari were present and shared valuable knowledge to farm woman. There were 74 farm woman participated in this event.

Activities carried out under Soil Testing Laboratory 2020-21 at KVK, Navsari

Month	Soil samples analyzed in KVK Lab	Water samples analyzed in KVK Lab
January-20	31	9
Februry-20	17	18
March-20	9	9
April-20	0	0
May-20	0	5
June-20	51	46
July-20	31	2
August-20	5	4
September-20	0	0
October-20	0	0
November-20	29	3
Grand total	**173**	**96**

Success stories:

Successful Case or Success Story of Paddy GNR-5 (2020-21)

Profile					
Name	**:**	Chaganbhai Mangabhai Pavar	**Age**	**:**	52
Village	**:**	Chundha	**Education**	**:**	3rd Pass
Taluka	**:**	Vansda	**Land holding**	**:**	15 Guntha
Dist.	**:**	Navsari	**Farming Experience**	**:**	35
Mo. no	**:**	**9638400899**	**Crops grown**	**:**	Paddy, Mango, Chickpea , Pigeon pea, and Green Gram

BEFORE CONTACT WITH KVK

Since 35 years back, he is cultivating Paddy traditionally, every year purchases seed also found pest and disease incidence as a result of this getting low yield hence potential yield is not obtained and the cost of cultivation is increased

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	10 Guntha
Variety	-	Paddy – GNR-5
Seed Treatment	-	Thiram 3gm/kg seed at the time of nursery raising
Seed rate	-	25-30 kg/ha
Nutrient management	-	Azospirullum and PSB each @ 10 ml/l water for seedling treatments 5 t FYM/ha +100:30:00 kg NPK/ha
Weeding	-	2 time hand weeding
Seed Treatment	-	Thiram 3gm/kg seed at the time of nursery raising

- **After KVK intervention**
  - Adaption of *Rainy* Paddy recently released good yielding variety
  - Integrated nutrient management in crop
  - Scientific method of cultivation practices adopted

- **Area of adaptive of technology**
  - Started Paddy cultivation approximate 0.5 Vigha (0.10 ha)

- **Result of this technology**
  - ✓ Seed requirement is optimized
  - ✓ Plant growth is improved
  - ✓ Pest incidence is low
  - ✓ Yield is increased
  - ✓ About 28.80 % additional income obtained

- **Yield performance of Paddy Plot**

Yield (kg/ha)		% increase over check
Demo.	**Check**	
3986	**3432**	**16.14**

- **Income from this**
  - Total income of Rs. 79620/ha during 110-120 days only.
- **Horizontal spread**
  - About 43 farm family in the village and surrounding villages adopted this technology.


Paddy plot of Chaganbhai Mangabhai Pavar

Successful Case or Success Story of Paddy GNR-5 (2020-21)

Profile					
Name	**:**	Kabirbhai Kuvarjibhai Gavit	**Age**	**:**	48
Village	**:**	Unai Charvi	**Education**	**:**	10th Pass
Taluka	**:**	Vansda	**Land holding**	**:**	40 Guntha
Dist.	**:**	Navsari	**Farming Experience**	**:**	28
Mo. no	**:**	**9979199370**	**Crops grown**	**:**	Paddy, Mango, Chickpea , Pigeon pea, and Green Gram

BEFORE CONTACT WITH KVK

Since 28 years back, he is cultivating Paddy traditionally, every purchases seed and also found pest and disease as a result of this getting low yield and lower rate thus potential yield is not obtained and the cost of cultivation is increased.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	20 Guntha
Variety	-	Paddy – GNR-5
Spacing	-	20*15 cm
Seed Treatment	-	Thiram 3gm/kg seed at the time of nursery raising
Seed rate	-	25-30 kg/ha
Nutrient management	-	Azosipullum and PSB each @ 10 ml/l water for seedling treatments 5 t FYM/ha +100:30:00 kg NPK/ha
Weeding	-	2 time hand weeding

- **After KVK intervention**
  - Adaption of *Rainy* Paddy recently released good yielding variety
  - Integrated nutrient management in crop
  - Scientific method of cultivation practices adopted
- **Area of adaptive of technology**
  - Started Paddy cultivation approximate 1.0 Vigha (0.20 ha)
- **Result of this technology**
  - ✓ Seed requirement is optimized
  - ✓ Plant growth is improved
  - ✓ Pest incidence is low
  - ✓ Yield is increased
  - ✓ About 32.37% additional income obtained

- **Yield performance of Paddy Plot**

Yield (kg/ha)		% increase over check
Demo.	**Check**	
3896	**3326**	**17.14**

- **Income from this**
  - Total income of Rs. 78940/ha during 110-120 days only.
- **Horizontal spread**
  - About 36 farm family in the village and surrounding villages adopted this technology.

Successful Case or Success Story of Paddy GNR-7(2020-21)

Profile					
Name	**:**	Kalpanben Jainitbhai Gamit	**Age**	**:**	32
Village	**:**	Dharampuri	**Education**	**:**	5th Pass
Taluka	**:**	Vansda	**Land holding**	**:**	1.0 ha
Dist.	**:**	Navsari	**Farming Experience**	**:**	12
Mo. no	**:**	**7567534327**	**Crops grown**	**:**	Paddy, Sorghum, Okra, Chickpea, Pigeon pea and Indian bean

BEFORE CONTACT WITH KVK

Since 12 years back, he is cultivating Paddy traditionally and every year purchases seed and also found pest and disease incidence as a result of this getting low yield hence potential yield is not obtained and the cost of cultivation is increased.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	1 Vingha
Variety	-	Paddy – GNR-7
Spacing	-	20*15 cm
Seed Treatment	-	Thiram 3gm/kg seed at the time of nursery raising
Seed rate	-	25-30 kg/ha
Nutrient management	-	Azospirullum and PSB each @ 10 ml/l water for seedling treatments 5 t FYM/ha + 100:30:00 kg NPK/ha
Weeding	-	2 time hand weeding

- **After KVK intervention**
  - Adaption of *Rainy* Paddy recently released good yielding variety
  - Integrated nutrient management in crop
  - Scientific method of cultivation practices adopted

- **Area of adaptive of technology**
  - Started Paddy cultivation approximate 1.0 Vigha (0.20 ha)

- **Result of this technology**
  - ✓ Seed requirement is optimized
  - ✓ Plant growth is improved
  - ✓ Yield is increased
  - ✓ About 29.34 % additional income was obtained.

- **Yield performance of Paddy Plot**

Yield (kg/ha)		% increase over check
Demo.	**Check**	
4287	**36641**	**17.00**

- **Income from this**
  - Total income of Rs. 78120/ha during 110-115 days only.
- **Horizontal spread**
  - About 24 farm family in the village and surrounding villages adopted this technology.


Paddy plot of Kalpanben Jainitbhai Gamit

Successful Case or Success Story of Paddy GRH-2(2020-21)

Profile					
Name	**:**	Urmilaben Jayeshbhai Patel	**Age**	**:**	31
Village	**:**	Sindhai	**Education**	**:**	12th Pass
Taluka	**:**	Vansda	**Land holding**	**:**	20 Guntha
Dist.	**:**	Navsari	**Farming Experience**	**:**	10
Mo. no	**:**	**9723578466**	**Crops grown**	**:**	Paddy, Sorghum, Sweet corn, Chickpea, Pigeon pea and Green Gram

BEFORE CONTACT WITH KVK

Since 10 years back, She is cultivating Paddy traditionally and every year purchases seed and also found pest and disease as a result of this getting low yield and lower rate hence potential yield is not obtained and the cost of cultivation is increased.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	20 Guntha
Variety	-	Paddy - GRH-2
Spacing	-	20*15 cm
Seed Treatment	-	Thiram 3gm/kg seed at the time of nursery raising
Seed rate	-	25-30 kg/ha
Nutrient management	-	Azospirullum and PSB each @ 10 ml/l water for seedling treatments 5 t FYM/ha + 100:30:00 kg NPK/ha
Weeding	-	1 time hand weeding

- **After KVK intervention**
  - Adaption of recently released high yielding paddy variety
  - Seed treatments and integrated nutrient management in crop
  - Scientific method of cultivation practices adopted

- **Area of adaptive of technology**
  - Started Paddy cultivation approximate 1.0 Vigha (0.20 ha)

- **Result of this technology**
  - ✓ Seed requirement is optimized
  - ✓ Plant growth is good
  - ✓ Yield is increased
  - ✓ About 37.56 % additional income

- **Yield performance of Paddy Plot**

Yield (kg/ha)		% increase over check
Demo.	**Check**	
5435	**4682**	**16.08**

- **Income from this**
  - Total income of Rs. 96120/ha during 110-120 days only.
- **Horizontal spread**
  - About 28 farm family in the village and surrounding village adopted this technology.

Paddy plot of Urmilaben Jayeshbhai Patel

Successful Case or Success Story of Paddy GNR-7 (2020-21)

Profile					
Name	**:**	Bhanuben Bhagubhai Gamit	**Age**	**:**	50
Village	**:**	Dharmpuri	**Education**	**:**	-
Taluka	**:**	Vansda	**Land holding**	**:**	3 Vingha
Dist.	**:**	Navsari	**Farming Experience**	**:**	30
Mo. no	**:**	**9638997662**	**Crops grown**	**:**	Paddy, Pigeon pea, Indian bean, Sugarcane, and Green Gram

BEFORE CONTACT WITH KVK

Since 30 years back, he is cultivating Paddy traditionally and every year purchases seed and also found pest and disease incidence as a result of this getting low yield hence potential yield is not obtained and the cost of cultivation is increased.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	1 Vingha
Variety	-	Paddy – GNR-7
Spacing	-	20*15 cm
Seed Treatment	-	Thiram 3gm/kg seed at the time of nursery raising
Seed rate	-	25-30 kg/ha
Nutrient management	-	Azospirullum and PSB each @ 10 ml/l water for seedling treatments 5 t FYM/ha +100:30:00 kg NPK/ha
Weeding	-	2 time hand weeding

- **After KVK intervention**
  - Adaption of *Rainy* Paddy recently released good yielding variety
  - Integrated nutrient management in crop
  - Scientific method of cultivation practices adopted

- **Area of adaptive of technology**
  - Started Paddy cultivation approximate 1.0 Vigha (0.20 ha)

- **Result of this technology**
  - ✓ Seed requirement is optimized
  - ✓ Plant growth is improved
  - ✓ Yield is increased
  - ✓ About 26.56 % additional income obtained

- **Yield performance of Paddy Plot**

Yield (kg/ha)		% increase over check
Demo.	**Check**	
4183	**3647**	**14.70**

- **Income from this**
  - Total income of Rs. 76745/ha during 110-120 days only.
- **Horizontal spread**
  - About 46 farm family in the village and surrounding village adopted this technology.


Paddy plot of Bhanuben Bhagubhai Gamit

Successful Case or Success Story of Paddy GNR-6 (2020-21)

Profile					
Name	**:**	Pinaben Rajnikant Patel	**Age**	**:**	25
Village	**:**	Dhrampuri	**Education**	**:**	3rd Pass
Taluka	**:**	Vansda	**Land holding**	**:**	4 Vigha
Dist.	**:**	Navsari	**Farming Experience**	**:**	8
Mo. no	**:**	**6354642185**	**Crops grown**	**:**	Paddy, Sweet corn, Chickpea , Pigeon pea, Okra, and Indian bean

BEFORE CONTACT WITH KVK

Since 8 years back, he is cultivating Paddy traditionally, every year purchases seed and also found pest and disease incidence as a result of this getting low yield hence potential yield is not obtained and the cost of cultivation is increased.

AFTER KVK GUIDANCE ADOPTED TECHNOLOGY

Area	-	18 Guntha
Variety	-	Paddy – GNR-6
Spacing	-	20*15 cm
Seed Treatment	-	Thiram 3gm/kg seed at the time of nursery raising
Seed rate	-	25-30 kg/ha
Nutrient management	-	Azospirullum and PSB each @ 10 ml/l water for seedling treatments 5 t FYM/ha +100:30:00 kg NPK/ha
Weeding	-	2 time hand weeding

- **After KVK intervention**
  - Adaption of *Rainy* Paddy recently released good yielding variety
  - Integrated nutrient management in crop
  - Scientific method of cultivation practices adopted

- **Area of adaptive of technology**
  - Started Paddy cultivation approximate 1.0 Vigha (0.20 ha)

- **Result of this technology**
  - ✓ Seed requirement is optimized
  - ✓ Plant growth is improved
  - ✓ Yield is increased
  - ✓ About 35.12 % additional income

- **Yield performance of Paddy Plot**

Yield (kg/ha)		% increase over check
Demo.	**Check**	
3956	**3342**	**18.37**

- **Income from this**
  - Total income of Rs. 79340/ha during 110-120 days only.
- **Horizontal spread**
  - About 24 farm family in the village and surrounding villages adopted this technology.

Paddy plot of Pinaben Rajnikant Patel

Horticulture

ARYA Mango Pulp Bottling

Name	**Jyotiben Kishorchandra Patel**
Address	Daman faliya At-Po : Ancheli, Ta : Gandevi Dist : Navsari 396310
Mobile No	98985 63691
Age	46
Education	12 th pass
Land Holding	2 Acre
Farming Experience	20 Years
Crops Grown	Mango Sapota
Livestock	Nil
Before Contact With KVK	• Botle burst, discoloraion and burning effect were major technical issues • Not aware about microbial contamination • Lack of knowledge about adequate use of preservatives. • Never used brix meter, thermometer
After KVK Guidance	• She has received proper technical knowledge about different kinds of value addition products. in mango. • She realized important of hygiene and cleanliness, safety measures • Started use of disinfectants, gloves, mask, hair cap, appron and fire extinguisher • Started use of thermometer of brix meter
	• Due to hygiene & safely precaution trust of people incresed. Started microbial analysis of their product.

Production Detail

Result to adopt this technology	**Economics**	
• Problem of bottle burst, discoloraion and burning effect have been resolved • Qualiy has been improved	Number of Bottles prepared	800
	Selling price	120
	Gross income per year	96,000

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 Holding	5 ha
Farming Experience	7 Years
Crops Grown	Sugarcan, Mango
Livestock	Nil
Before Contact With KVK	No awareness about use of novel banana Sap.
After KVK Guidance	She became aware and habituate about use of novel banana foliar sap spray at four critical stage of reproductive phase.

Production Detail

Result to adopt this technology

- Quality 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 month)	189500	205000

New variety of Little gourd GNLG-1

Profile Name	:	Santubhai Devalbhai Chavaria
Address	:	Ankalachha, Vansada
Mo.no	:	8141073512
Age	:	45 year
Education	:	8th Pass

Occupation	:	Farming	
Farming Experience	:	20 Year	
Land holding	:	20 Guntha	
Live stock	:	No	
Problem	:	Low yield in Little guard	

Before contact with KVK	:	• Plants were grown without proper distance. • He used to apply fertilizers without soil sample analysis. • He was not aware about new high yielding variety Gujarat Navsari Little Gourd-1. • He was not aware about benefits of use of novel banana sap foliar fertilizer.
After KVK intervention	:	• He became aware about importance of soil analysis based application of fertilizer & manure which reduced cost of cultivation. • Proper fertilizer at proper stage & use of novel liquid organic fertilizers at reproducing phase. • Proper grading of produce helped for easy marketing & high remunerative price.
Effect of KVK intervention	:	• Farmers became aware about importance of soil analysis. • Farmers became aware about new high yielding variety. "Gujarat Navsari Little Gourd-1" compared to local variety. • Farmer became habituate for use of recommended dose of fertilizer on basis of soil analysis. • NPK (50:50:50) proper distance among plants. biocontrol methods like light trap and 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
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, At.-Po. : Sindhai Ta : Vansda Dist. : Navsari State : Gujarat
Mobile No	9913691044
Age	55
Education	9th Pass
Land	4 Acre

Holding	
Farming Experience	25 Years
Crops Grown	Parval, Paddy, Sugarcan, Brinjal
Livestock	5 Cow and 3 Buffalo
Before Contact With KVK	No information about new released variety of Pointed gourd : GNPG-1 (Release Year -2014) from NAU, Navsari.
After KVK Guidance	She became aware and habituate about use of Pointed gourd : GNPG-1 from NAU, Navsari.

Production Detail

Result to adopt this technology

- Qualitative 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:** Attended 2 days on campus training on post harvest technology
Education	:	8th pass	
Occupation	:	Housewife	
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.







SUCCESS STORY ON FISH CULTURIST OF RUMALA FALIA AAT VILLAGE

Rumala Falia Yuvak Mandal Group
Leader of Group: Mr Manish Manubhai Patel
At.& Post: Aat
Ta: Jalalpore
Dist: Navsari
Mobile No. 9638811256

1.Profile	:	

Numbers of Members in the group	:	12
Social category (Halpati community)	:	SEBC
Education	:	Most of them are educated unemployed.
Economic status	:	Economically Backward
Land holding	:	Most of them are land less only one of them have 1 to 1.5 acre land.
Fish farming experience	:	Most of them are engaged with agriculture and cattle rearing activities with fish capturing during monsoon flood from
Agricultural Crops grown	:	Paddy
Fish spp. being cultured	:	Indian Major carps along with Grass carp.
2. Technology Adopted	:	• Inspired KVK to start fish culture activity in available unused village pond. • Manuring and fertilization have been done for the natural food production. • Adopted rate of stocking density @ 6000 fingerlings (80 to 90 mm) per ha. pond with 2:4.5:2.5:1 :: Catla:Rohu:Mrigal:Grass carp ratio. • Adopted Grass carp introduction in village pond and reared about 3 to 4 kg of fish with in 18 month. • Fish Farming practiced as per the guidance of KVK Scientist. • Used bag feeding method. • Fish fed with the feed more than 20% protein content and 1% vitamin mineral mixture as per recommended rate after calculating available biomass. • Stocked Seabass fingerlings about 430 numbers when IMC reach to size 300 g . • Being a carnivore sea bass feed on miscellaneous and weed fish those are competing for feed, space and oxygen with IMC
3. Production	:	Harvested about 2900 kg fish from 2 ha area. (1450 Kg/ha), before KVK intervention it was about 4.2 ton/ha (2100 kg/ha). Moreover they also produced 360 kg Seabass.
4. Improvement in productivity/profitability/sustainablity	:	About 44.82% increase in productivity and 68% increase in profit.
5. Income, cost benefit ratio, gross and net income	:	• Gross Income About Rupees 7.32 Lakh. • Net profit. Rs 4.53 Lakh. • About Rs. 37750/- net profit earned by one member. It is long lasting, eco-friendly sustainable, production enhancing livelihood earning activity being adopted by many Halpati and

		poor youth in Navsari District.
6. Training obtained	:	On campus and off campus Training at KVK, Navsari Agricultural University, Navsari
7.Technology dissemination	:	At present Inland aquaculture activities are being carried out through KVK in 17-19 villages. It has encouraged and built up the confidence among farmers of surrounding more than 30 villages and about 60 ponds are actively engaged in fish farming.
		
Fish seed stocking		Sea bass of 7.2 kg harvested from IMC culture pond
Article published by Gujarati News paper Divya Bhasker in' Krishi Bhasker' column about Fish farming In village pond Sadlav		

Impact of extension activities (Trainings/Demonstration)

Agronomy:

- Increased in knowledge and awareness about new varieties of paddy (NAUR-1, GNR-3, GNR-4).
- 79% farmers adopted these new varieties.
- 62% farmers adopted new varieties in gram and Tur crops.
- 16% farmers adopted weed management in sugarcane crop.
- 26% farmers adopted intercrop cultivation in sugarcane crop
- 18% farmers adopted integrated nutrient management technologies.
- 76% farmers shown keen interest in bio-fertilizer, organic manure and green manure.
- 62% farmers adopted yellow vein mosaic resistant variety meha of green gram.
- Increase in income of farmers by 65% adopting sweet corn in tribal region and spread in about 292 ha area.
- Adoption of SRI technologies in paddy and 76% increase in productivity.

Plant protection:

- Increased knowledge of the farmers regarding major insect-pest infestation and its control measure for sugarcane, paddy, mango, sapota, and vegetables.
- Increased awareness of farmers regarding judicious use of pesticide.
- Farmers have realized the importance of bio-control.
- 26% farmers awared about IPDM technology
- Reduced the cost of Plant protection and increased awareness about ill effect of pesticide.
- Farmers are awarded about the importance of healthy seed and seed treatment for reducing seed born diseases.

Home Science:

- Through training on nutrition education, women of adopted villages become conscious about the health of their family.
- With the help of training on kitchen garden, farm women have adopted kitchen garden concept at their own backyard.
- Farm women are now preparing mango pulp, jam, and spices at their home rather than buying it from the market.

Fisheries:

- Increase in grass carp adoption rate in village ponds
- Increase in fish production in village pond fish farming system
- Increase in fresh water prawn fishing capture and Profit using one way trap
- SHG group of women are working well in many villages.
- Fish farming activities have been spread extensively.

Capacity building:

- 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.

Feedback:

Research need:

S. No	Crop	Feed Back
1	Paddy	• High yielding, medium duration varieties/hybrids. • Less irrigation requirement paddy varieties/hybrids there by reduction in soil salinity & maintenance soil health • Reduce cost of cultivation by developing pest & disease tolerant varieties/hybrids.
2	Pigeon pea	• Development organic pest modules for pigeon pea • Increase in yield. • Develop early maturing and high yielding pigeon pea variety.

3	Sapota	• Keeping quality of sapota fruit • Uniformity in size of the fruit • Weight of fruit.
4	Mango	• Branches of mango or sometime mango plant die in month of September-October. • Stem cracking or bark splitting was found in mango
5	Kitchen garden	• Terrace gardening, Box gardening and hanging pot kitchen gardening popularization. And also availability of vegetables throughout the year on season basis. • To develop new variety of hybrid vegetables.
6	Animal Feed	• Cost of feeding animals to be reduced
7	Fish	• Experiment on amur common carp need to be conducted
8	Fish	• Experiment on cage culture in big village tanks need to be conducted
9	Organic farming	• Preparation and testing of amrutmittii, amrutjal, jivamrut and panchgavya for different crops • Preparation and testing of herbal pesticide for controlling pests and diseases • Testing of cow dung and cow urine for enhancing growth and controlling pests and diseases • Module for pesticide free productions • Availability of country seeds • Develop salt reclamation bio fertilizers.

Infrastructure development:

- Mini Bus
- Latest multi media/laptop/tablet equipments for effective transfer of technologies should be provided to each and every scientist.
- Strengthening of farmers hostel with more intake capacity.
- Extension functionaries for effective follow up for technology transfer, impact studies and gaps finding.

Strategies of extension development:

- Identification of leader and capacity build up for effective transfer of technologies.
- Innovative farmers meet.
- Continuous follow up use of latest multimedia technologies and IT tools in extension activities

Line Department:

Line Departments appreciated the works, extension strategies and stands KVK for agricultural development in the district by collecting feedbacks from innovative and successful farmers and the same has been certified.

Farmers and stake holders:

Farmers are most significant clients for our KVK. KVK along with our team members are living in the heart of farmers. Farmers' success and development are the most prime and urgent tasks for KVK. Innovative, successful farmers and stake holders appreciated and happy with the work pattern, style and treatment extended by KVK and accordingly they certified the same.

Status in the District:

Looking to the transparent, farmers' interested and Agriculture development oriented works and activities being carried out by KVK, The District authorities Hon'ble Executive magistrate & Collector, DDO and other main responsible authorities have appreciated KVK efforts and certified the same. They are also interested to implement many agriculture development projects through KVK. Thus KVK becomes the synonyms of Agriculture development in the district

Overview for KVK development:

For strengthening and extending vast working area with new era of development in agriculture and allied sectors efficiently and accurately active and efficient follow up extension functionaries with latest multimedia operation technologies need to be established.

10.3 Presentation on Action Plan of April-2021 to March-2022

A. THRUST AREAS identified by KVK (Approved by competent Authority in meetings/workshop)

THRUST AREA	
I.	Crop production management (Paddy, Sugarcane, Vegetables, Pulses , Mango, Sapota, Banana, Flower crops and Fisheries)
II.	Conservation of natural resources
III.	Cost effective techniques for natural resources conservation and soil health
IV.	Arid horticulture development / Diversification of Agriculture
V.	Low cost technology / Input efficient technology
VI.	Organic farming
VII.	Self employment to Rural youth and farm women
VIII.	Women empowerment
IX.	Management of dairy animals
X.	High tech agriculture
XI.	Freshwater fish farming through cages
XII.	Fish value addition
XIII.	Freshwater fish seed rearing
XIV.	Value addition of local farm produce

B. Adopted Villages

Sr.No.	Taluka	Village	Village	Village
Intensive operational area				
1.	Jalalpore	Dambhar/Posara	Abrama	Bhutsad
2.	Navsari	Posara	Vada	Kachhol
3.	Gandevi	Mohanpore	Kachholi	Undach
4.	Chikhali	Degam	Agasi	Sadakpore
5.	Vansada	Satimal	Kukda	Kureliya
6.	Khergam	Gholar	Chimanpada	Rojavani

C. Training Programmes

S.N.	Discipline	Total On campus Training		Off campus training		EF/Inservice training		Vocational training		GT
		No.	Beni.	No.	Beni.	No.	Beni.	No.	Beni.	
1.	Crop Production	4	100	4	100	1	20	1	20	10
2.	Horticulture	4	100	4	100	1	20	1	20	10
3.	Home Science	4	120	4	120	1	16	1	25	10
4.	Plant Protection	3	60	3	60	0	0	0	0	6
5.	Extension Education	4	100	4	100	1	25	0	0	9
6.	Fisheries	4	100	4	100	1	25	1	30	10
	Total									**55**

D. Frontline Demonstrations

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs with cost (Rs.)	Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified
1	Pulse crop		Drudgery reduction technology	Weed management by twin wheel hoe	40000	Rabi-21	30	30	Labour saving per ha.
2	-	-	Natural resource conservation technology	Solar energy conservation Solar cooker	45000	Rabi-21	25	25	Fuel saving per year
3	Paddy	Available	IPDM	Introduction of IPDM technologies	Pheromone trap, Trichoderma, neem based biopesticide	Kharif-19	10	20	Improved package of practice
4	Pigeon pea	Vaishali	Use of bio pesticides	Use of biopesticide in pest & disease management	B.T., biopesticide, Profenofos, DDVP	Kharif-19	5	10	Introduction of new variety
5	Mango	Available	Fruit fly control	Use of nauroji trap	Nauroji trap	Rabi-20	5	20	Popularized canopy management
6	Little guard	GNLG-1	New Variety	Introduction of new variety	30,000	Kharif-21	4	10	Improved package of practice
7	Pointed guard	GNPG-1	New Variety	Introduction of new variety	15,000	Kharif-21	4	10	Improved package of practice
8	Mango	Sonpari	New Variety	Introduction of new variety	50,000	Kharif-21	20	100	Improved package of practice
9	Suran	Gajendra	New Variety	Introduction of new variety	20,000	Kharif-21	1	8	Improved package of practice
10	Mango	Available	Nutrient management	Novel	48,000	Rabi-21	20	100	Improved package of practice

11	Sapota	Available	Nutrient management	Novel	48,000	Rabi-21	20	100	Improved package of practice
12	Drum stick	PKM-1	New Variety	Plant	1400	Kharif	5	100	Improved package of practice
13	Dragon fruit	Red	New Variety	Plant	2500	Kharif	0.4	50	Improved package of practice
14	Kitchen garden	Available	Residue free vegetable		80000		1	400	Improved package of practice
15	Mango	Bio fertilizer	Available	PSB, KMB, Azto.	75,000	Kharif-21	50	125	Improved package of practice
16	Sapota	Bio fertilizer	Available	PSB, KMB, Azto.	75,000	Kharif-21	50	125	Improved package of practice
17	Fresh water fish farming	Catla, Rohu, Mrigal, Exotic carp	Inland Fisheries	Stocking density & species ratio	Fish fingerling/ yearlings (2,00,000)	Kharif-21	15	150	Fish growth, Survival and production per unit area
18	Fresh water fish farming	Catla, Rohu, Mrigal, Exotic carp	Inland Fisheries	Feeding methods &nutritional management	Fish feed, DORB, GNOC etc., (6,00,000)	Kharif-21	20	200	Fish growth, Survival and production per unit area
19	Fresh water fish farming	*Pungasius*	Inland Fisheries	High stocking density through cage farming in carp pond	Fish seed, fish feed, net cages and netting material (1,50,000)	Kharif-21	5 cages	10	Fish growth, Survival and production per unit area
20	Fresh water fish farming	*Pungasius*	Inland Fisheries	High stocking density in pond	*Pungasius fish seed and feed (40,000)*	Kharif	0.5	10	Fish production per unit area
21	Paddy	GNR-3	INM	Varity + seed treatment with bio fertilizer	22000	Kharif	10	50	Reduction in stem borer infestation and increase in yield
22	Paddy	GNR-7	INM	Varity + seed treatment with bio fertilizer	22000	Kharif	10	50	Reduction in stem borer infestation and increase in yield
23	Paddy	GNR-17	INM	Varity + seed treatment with bio fertilizer	11000	Kharif	5	25	Reduction in stem borer infestation and increase in

									yield
24	Paddy	GNR-6	INM	Varity + seed treatment with bio fertilizer	11000	Kharif	5	25	Reduction in stem borer infestation and increase in yield
25	Paddy	GNR-5	INM	Varity + seed treatment with bio fertilizer	11000	Kharif	5	25	Reduction in stem borer infestation and increase in yield
26	Pigeonpea	GT-104	ICM	Varity + seed treatment with bio fertilizer	25000	Kharif	10	50	Introduction of new variety
27	Chichpea	GG-5	ICM	Varity + seed treatment with bio fertilizer	50000	Rabi	10	50	INM and Increase in yield
28	Greengram	GM-6	ICM	Varity + seed treatment with bio fertilizer	75000	Summer	10	50	INM and Increase in yield
29	Sugarcane	Sugarcan	Intercrop	Variety	15000	Rabi	5	25	Intercropping

E. On Farm Testing

No.	Particulars	Numbers	Area (ha)/Farmers
1	New variety in Brinjal (NSRP 1)	1	6
2	Sucking pest management in chilli	1	6
3	New Variety in hybrid rice GRH-2	1	6
4	Use of Liquid Consortia NPK-1(KRIBHCO Polyculture) In Sugarcane Crop.	1	6

F. Extension Activities (including activities of FLD programmes)

Sr.No.	Nature of Extension Activity	No. of activities
1.	Field Day	6
2.	Kisan Mela	2
3.	Kisan Ghosthi	4
4.	Exhibition	3
5.	Film Show	25
6.	Farmers Seminar	2
7.	Workshop	6
8.	Group meetings	4
9.	Lectures delivered as resource persons	9
10.	Newspaper coverage	10
11.	Radio talks	4
12.	TV talks	4
13.	Popular articles	10
14.	Extension Literature	12
15.	**Advisory Services**	1
16.	Scientific visit to farmers field	32
17.	Farmers visit to KVK	8
18.	Diagnostic visits	8
19.	Exposure visits	4
20.	Ex-trainees Sammelan	1
21.	Soil health Camp	1
22.	Animal Health Camp	1
23.	Agri mobile clinic	1
24.	Soil test campaigns	-
25.	Farm Science Club Conveners meet	1
26.	Self Help Group Conveners meetings	2
27.	Mahila Mandals Conveners meetings	2
28.	Celebration of important days (specify)	7
29.	Krishi Mohostva	1
30.	Krishi Rath	-
31.	Pre Kharif workshop	1
32.	Pre Rabi workshop	1
33.	PPVFRA workshop	1
34.	Any Other (Specify)	-
	Total	**174**

10.4 Presentation of Budget Position

Utilization of KVK funds during the year 2020-21 (January-2020 to November-2020)

S. No.	Particulars	Sanctioned (Lakh)	Released (Lakh)	Expenditure (Lakh)
1	Pay & Allowances	104	69.16	80.60
2	T.A			0.16
3	Recurring Contingencies	13.00	6.76	4.71
4	Non-recurring Contingencies	-	-	-
5	Vehicle	-	-	-
6	Library	-	-	-
	Total	**117**	**75.92**	**85.47**

Status of revolving fund (Rs. in lakhs) (April-2020 to November-2020)

Opening balance as on 1st April	Income during the year	Expenditure during the year	Closing balance
6,77,414	5,15,538	4,14,870	7,78,082

10.5 Suggestions and discussion to make Krishi Vigyan Kendra, Navsari more effective

1) Timely grant should be released.
2) Need of minibus for training purpose.
3) Need of Farm equipments for farm development.
4) Need of infrastructure facilities like Training Hall and more capacity of hostel.
5) One agriculture Assistant on contract basis needed.
6) Laptop and computers as all facilities became old and take more maintenance.

10.6 Any other related matters with the permission of the chairperson