ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORTOF KVK, VYARA, NAU, TAPI-2020
(1st January-2020-31st December-2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Website address & No. of visitors (hits)
	Office	FAX		
Krishi Vigyan Kendra Navsari Agricultural University Bhenskatri Road, Panvadi Vyara, Dist. Tapi, Gujarat-394 650	(02626) 221869	--	kvkvyara@nau.in kvkvyara@yahoo.co.in	**Website address:**tapi.kvk6.in **No. of visitors:**235429

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

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

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.C. D. Pandya	-	8780434557	akshaydhara@nau.in

1.4.Year of sanction: 2004 (As ZARS KVK – 2000), Full fledged KVK in the year 2006.

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

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Pay Band	Current Grade Pay	Date of joining	
1	Senior Scientist & Head	Dr. C. D. Pandya	Extension Education	89800-211500	--	29/07/2009	NA
2	Scientist	Dr. A. J. Dhodia	Extension Education	57700-182400	--	26/08/2019	NA
3	Scientist	Prof. Arti N. Soni	Home Science	57700-182400	--	04/04/2008	NA
4	Scientist	Dr. J. B. Butani	Animal Science	57700-182400	--	27/08/2019	NA
5	Scientist	Dr. N. K. Kavad	Plant Protection	57700-182400	--	26/11/2020	NA
6	Scientist	Prof. K. N. Rana	Agronomy	57700-182400	--	29/08/2019	NA
7	Scientist	Dr. Dharmishtha M. Patel	Horticulture	57700-182400	--	26/08/2019	NA
8	Programme Assistant	Mr. N.N.Makani	Seed Technolgy	38090 (Fix)	--	13/07/2015	NA
9	Computer Programmer	Smt. Nishita R. Patel	--	39900-126600	--	21/08/2008	--NA--
10	Farm Manager	Vacant	--	39900-126600	--	--	--
11	Accountant/Superintendent	Mrs. S. R. Chaudhari	--	39900-126600	--	25/09/2018	--NA--
12	Stenographer	Vacant	--	--	--	--	--
13	Driver 1	Shri C. I. Patel	--	19900-63200	--	23/08/2007	--NA--
14	Driver 2	Vacant	--	--	--	--	--
15	Supporting staff 1	Vacant	--	--	--	--	--
16	Supporting staff 2	Vacant	--	--	--	--	--

1.6 Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	0.86
2	Under Demonstration Units	0.38
3	Under Crops	4.33
4	Horticulture	2.23
5	Pond	0
6	Others (specify),	0

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expen-diture (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	31/3/2011	516	--	--	--	--
2	Farmers Hostel	ICAR		248		--	--	--
3	Staff Quarters (5)	ICAR	31/3/2011	348	--	--	--	--
4	Demonstration Units -11	ICAR	--	--	909723=00	--	--	--
5	Fencing	--	--	--	--	--	--	--
6	Rain Water harvesting system	--	--	--	--	--	--	--
7	Threshing floor	--	--	--	--	--	--	--
8	Farm godown	--	--	--	--	--	--	--
9	ICT lab	--	--	--	--	--	--	--
10	Other	--	--	--	--	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2001	3,31,225.00	435 hrs	Working
Motorcycle	2011	48,816.00	5738	Working
Boloro Jeep	2019	6,52,256	9758	Working
Mini Tractor	2019	4,27,370	30 hrs	Working

C) Equipments & AV aids

Sl. No.	Name of Equipments/ Instruments/ Farm Machineries	Date of Purchase	Cost (Rs.)	Present Status
(1)	Furniture (Godrej)			
1	Table T-9	30/3/2001	26636	Working
2	Table T-104	30/3/2001	8515	Working
3	Chair CH-186	30/3/2001	43300	Working
4	Chair PCH-7000 D	30/3/2001	8168	Working
5	Chair CH-7 B	30/3/2001	5692	Working
6	Store Well – Glass Door	30/3/2001	9259	Working
7	Slotted Angel Racks	30/3/2001	4900	Working
(2)	Mahindra Tractor model 575 DI 45 HP & Accessories	30/3/2001	3,31,225	Working
(3)	Photo Copier NP 7160 Canon NPG-1	31/3/2001	117274	Not working
(4)	Furniture (Godrej)			
1	Table –T- 402	27/12/2002	24600	Not good
2	Comp. Table C-6	27/12/2002	5255	Working
3	Store Well – Glass Door	27/12/2002	9330	Working
4	Store Well Plane	27/12/2002	16000	Working
5	Chair CHR-7B	27/12/2002	22350	1-Not good
6	Chair PCH-5000 2 T	27/12/2002	7230	1-Not good
7	Filing Cabinet	27/12/2002	7900	Working
(5)	Computer & Peripherals	28/12/2002	51850	Working
(6)	3 KVA on line UPS	28/12/2002	38000	Not working
(7)	HP Laser Jet 1200 Printer	28/12/2002	20600	Not working
(8)	MSXP standard edition with Indian Longwise Proofing tools	30/12/2002	6450	Not Working
(9) 1	CD writer	28/12/2002	3025	Working
2	HP Scan jet 2300c Scanner	28/12/2002	3700	Not Working
(10) 1	Ceramic steel white writing board 4'x6'	21/2/2003	9000	Working
2	Ceramic chalk writing board 4'x 6'	21/2/2003	9000	Working
(11) 1	Over Head Projector	22/3/2003	27690	Working
2	Plastic screen with tripod stand	22/3/2003	4500	Not Working
(12) 1	LG 29 CA Color TV 29"	21/3/2003	26990	Working
2	Thomson 5 in 1 VCD player	21/3/2003	6990	Not Working
(13)	P.A. System			
1	Amplifier SSA 250	22/3/2003	9400	Working
2	Eco Mixture DMX 40	22/3/2003	3249	Working
3	Full Range Speaker SRX 250 D	22/3/2003	24472	Working
4	Microphone			
	ALD 101 x LR	22/3/2003	1140	Not Working
	ATP 20 M	22/3/2003	489	Not Working
	WM 201	22/3/2003	1615	Not Working
5	Unit Horn Combination UHC 30 x T	22/3/2003	1188	Not Working
6	Micro Phone Stand	22/3/2003		Working
	DGN	22/3/2003	456	Working
	DGT	22/3/2003	285	Working

Sl. No.	Name of Equipments/ Instruments/ Farm Machineries	Date of Purchase	Cost (Rs.)	Present Status
	ATS:5	22/3/2003	100	Working
(14)	A.V. Trolly	22/3/2003	4132	Working
(15)	Laminated Chart with wooden Frame size 20" x 30"	22/3/2003	24420	Not good
(16)	Sony Digital Handy cam	22/3/2003	32750	Not Working
1	Power adapter	22/3/2003		Not Working
2	Battery	22/3/2003		Not Working
3	Remote Control	22/3/2003		Not Working
4	AV Connecting Cable	22/3/2003		Not Working
5	Belt shoulder strap	22/3/2003		Not Working
6	Handy Cam Recording Caset	22/3/2003		Not Working
(17)	Automatic slide Projector	22/3/2003	13695	Working
(18)	Portable Generator EXK 2000 AC	24/3/2003	38200	Working
(19)	Education Exhibition Panel System	25/3/2003	13500	Working
1	News Paper Stand	25/3/2003	3500	Working
2	Displayer/Book/ Magazine Stand	25/3/2003	3500	Working
3	Notice Writing Board with Acrylic Shutter	25/3/2003	4450	Working
(20)	Stainless steal Vessels	28/3/2003	19450	Working
(21)	Modem	31/3/2003	2020	Working
(22)	Laminated Charts with Plywood Framing size 24"x30"	12/3/2004	3000	Not good
(23)	Colour Enlargement charts	29/3/2004	24420	Not good
(24)	Jeep Mahindra & Mahindra Bolero D.I.	2/12/2004	430500	Working
(25)	Bolero Accessories	2/12/2004	21650	Working
(27)	Whirlpool freeze	27/3/2006	15800	Working
(28) 1	Electronic Automatic Kel Pus Microprocessor based eight place macro block digestion system model KES-08L	27/3/2006	88120	Not Working
2	Electronic Kel plus micro processor based Automatic Distillation system model distil EM	27/3/2006	142300	Not Working
(29)	Double still with thermo sensor hr (All glass) cat No 2348	27/3/2006	33924	Working
(30)	Nova Rotary shaking machine			
1	(a)Capacity 16 flasks of 250 ml	28/3/2006	24500	Not Working
2	(b)Capacity 25 flasks of 250 ml	28/3/2006	29750	Not Working
3	Nova Hot plate Rectangular model NV-8535 stainless steel			
	(a) Size 12" x 20"	28/3/2006	8500	Not Working
	(b) Size 18" x 24"	28/3/2006	11250	Not Working
4	Nova willy mill stain lese steel camber Size 10.0 x 50 mm	28/3/2006	31900	Not Working
(31)1	Laboratory Table	27/3/2006	34400	Working
2	Racks	27/3/2006	9000	Working
3	Stools	27/3/2006	5400	Working
4	Steel cupboard	27/3/2006	19200	Working

Sl. No.	Name of Equipments/ Instruments/ Farm Machineries	Date of Purchase	Cost (Rs.)	Present Status
	storewell			
5	Steel cupboard storewel	27/3/2006	14000	Working
6	Steel racks	27/3/2006	8600	Working
7	Partition racks	27/3/2006	22500	Working
8	Office chair	27/3/2006	4000	Working
(32)	Systronics make			
1	Micro controller based Digital spectrophotometer model -106	27/3/2006	26800	Not Working
2	Systronics make micro controller based flame photometer compressor model-128	27/3/2006	35200	Not Working
3	Systronics make micro controller based PH meter	27/3/2006	10900	Not Working
4	Systronics make micro processor based conductivity meter	27/3/2006	12800	Not Working
(33)	Hot air oven	27/3/2006	21200	Working
(34) 1	Chemical Balance	27/3/2006	75000	Working
2	CENTRO FIX WATERBATH	27/3/2006	10800	Not Working
3	CENTRO FIX – Muffle furnace	27/3/2006	29500	Not Working
4	Automatic autoclave	27/3/2006	21000	Working
(35)	City weigh balance model ST-10 Cap- 10 kg	27/3/2006	10640	Working
(36) 1	LG AC-1.5 ton	31/3/2006	23740	Not Working
2	Micro kjeldahl Assembly	31/3/2006	10700	Not Working
(37)	Burner maker type with stop coke	31/3/2006	2000	Not Working
(38)	Voltas make water cooler	31/3/2006	26500	Working
(39) 1	Soft Pin up Board	29/11/2007	96250	6-not good
2	Single Pole Stand	29/11/2007	35360	Working
(40)	Microscope for Computer	17/3/2008	294028	Working
(41) 1	SDZ – TR – PL – HL Microscope controlled Transformer	15/3/2008	209444	Working
2	OP – 150 R Fibre Optic Illumivater	15/3/2008		Working
3	GMTV – 33 H High Resolution Coloured CCTV system	15/3/2008		Working
(42)	Colony Counter – MSW – 408	15/3/2008	5668	Working
(43)	Oven Universal – MSW – 213	15/3/2008	65788	Working
(44)	Insect Rating Case	17/3/2008	14000	Working
(45)	LG A/C machine 2.0 Ton Split AC with Remote	17/3/2008	58680	Not Working
(46)	LG Refrigeration–280 Lit. Model - 295TMG4	25/3/2008	18000	Working
(47)	Phillips Grinder – 1618	25/3/2008	6000	Working
(48)	Sony Cyber Shot – DSC – W 90	25/3/2008	14800	Working
(49) 1	Pressure Cooker – 8 lit.	24/3/2008	4500	Working
2	S/A/S Tope – 17''	24/3/2008		Working

Sl. No.	Name of Equipments/ Instruments/ Farm Machineries	Date of Purchase	Cost (Rs.)	Present Status
3	S/A/S Tope – 21''	24/3/2008		Working
4	S. S. Cover	24/3/2008		Working
(50) 1	Insect Display show cases	24/3/2008	17420	1-Not Working
2	Insect Show cases cabinet	24/3/2008		Working
(51) 1	Compaq Computer – 3250 IL	25/3/2008	28950	Working
2	MS XP Professional Vista License Copy	25/3/2008	6000	Working
(52)	Top Loading Balance – BH 200 H	19/3/2008	28120	Working
(53)	Digital Conductivity TDS Meter Model – 307	24/3/2008	11648	Working
(54)	Digital PH meter Model - 802	24/3/2008	7006	Working
(55)	Distillation Apparatus (5 – Lit)	24/3/2008	15912	Not Working
(56)	H/P Laser Jet Printer - 1022	25/3/2008	10990	Working
(57)	Steel Rack KV-110 78''x36''x15''	25/3/2008	9844	Working
(58) 1	Steel Cupboard – 78''x36''x19''	23/3/2008	11100	Working
2	Computer Table	23/3/2008	3300	Working
3	Computer Chair	23/3/2008	5200	Not Working
(59)	Shaking Incubator – 24 BL	25/3/2008	95387	Working
(60)	CentriFuge – R – 24 Voltage stabilizer 3.0 KVA	25/3/2008 25/3/2008	32025 6630	Working
(61)	Double Pan Balance Analytical Weight Box	24/3/2008	3640	Working
(62)	Gas Cylinder, Regulator, Gas Stove	13/3/2008	1930	Working
(63)	B.O.D. Incubator – 270	22/3/2008	90534	Not Working
(64)	KLENZFLO Horizontal laminar clean air work station – 1500c	28/3/2008	138320	Working
(65)	Crompton Greaves Fans	28/3/2008	6800	1-Not Working
(66)	Humidifier (S.S. Body)	30/3/2008	11034	Working
(67)	ASPEE Tractamount Bloover fro Intranational	30/3/2008	99960	Working
(68)	Panasonic Multifunctional Device Copy/Print/Scan/Fax	28/03/2010	14900	Working
(69)	Eco Display Unit Size : 6' x 2'	28/03/2010	9625	Working
(70)	DIM System size : 36'' x 24''	28/03/2010	19250	Working
(71) 1	Podium	28/03/2010	4200	Working
2	Podium	28/03/2010	4200	Working
(72) 1	LCD Projector - Mo.D.832 Mx	06/01/2011	66305	Not Working
2	VIVITEK Dongel	06/01/2011	16910	Not Working
3	WALTOP 6'' Interactive RF Pod	06/01/2011	14863	Not Working
4	Motorized Screen size – 5'x7'	06/01/2011	12905	Working
5	Impact 65 T (PA system)	06/01/2011	17800	Working

Sl. No.	Name of Equipments/ Instruments/ Farm Machineries	Date of Purchase	Cost (Rs.)	Present Status
(73) 1	23'' – LCD Computer	15/10/2010	33420	Working
2	Branded CPU E-Machine	15/10/2010	''	Working
3	Printer – Canon	15/10/2010	8500	Working
4	UPS – Umax 600 VA	15/10/2010	1850	Not Working
5	HP Scanner	15/10/2010	4500	Working
6	Q.H. Internet Security	15/10/2010	1150	Working
(74)	Crystal EPABX system set and accessories	11/02/2011	49219	Working
(75) 1	Power Tiller	18/02/2011	149430	Working
2	Multi crop Thresher	18/02/2011	23100	Working
		18/02/2011	26000	Working
3	Power Sprayer	18/02/2011	24850	Working
4	Winnower	18/02/2011	24150	Working
5	Seed cum Ferti. drill	18/02/2011	28880	Working
(76) 1	Steel Cupboard 18"X 36"X 78"	8/1/2011	58977	Working
2	Visitor Chair	8/1/2011	48475	2-Not Working
3	Rack- 6 X 3 X 1 foot	8/1/2011	43170	Working
4	Rivolving Chair	8/1/2011	21810	3-Not Good
***(77)**1	Gayatri two-way Leveller Heavy Duty	11/3/2011	12600	Working
2	Gayatri Cultivator Heavy Duty	11/3/2011	20700	Working
***(78)**	Plough & Harrow	17/2/2011	19000	Working
***(79)**1	Rotavator- 5.25	13/3/2011	60380=95	Working
2	Hydrolic trailor	13/3/2011	102380=90	Working
(80)	Varoon Vinowing Monoblock Electric Fan	25/3/2011	6900	Working
(81)	Splender Pro Kick Spoke	31/3/2011	41860	Working
(82)	Sub-mersible pump set 2 H.P. with accessories	28/3/2011	14600	Working
(83) 1	Steel Cupboard	28/12/2012	71500	Working
2	Table (4 X 2.5) rek	28/12/2012	35000	Working
3	Steel Coat (6 X 3.5)	28/12/2012	40000	Working
4	Sofa set- Tipoi	28/12/2012	17500	Working
5	Chair-Table-Tipoi	28/12/2012	7500	Working
6	News paper stand	28/12/2012	3150	Working
7	Computer Table-Chair	28/12/2012	12558	Working
8	Water cooler	28/12/2012	84000	Working
9	Post weigh balance	28/12/2012	2100	Working
10	Steel cupboard	28/12/2012	37000	Working

Sl. No.	Name of Equipments/ Instruments/ Farm Machineries	Date of Purchase	Cost (Rs.)	Present Status
(84)1	Sofa three seater waiting chair	13/01/2012	62980	Working
2	Fix Chair	13/01/2012	23090	Working
(85)	10 H.P. 4 stage falkan sub-mersible pump set with accessesories	04/02/2012	64125	Working
(86) 1	Electronics media Microprocessor – PH meter model – 1012	23/03/2012	13000	Working
2	Electronics media Microprocessor – Spectrophoto meter model – 2305	23/03/2012	33950	Working
3	NOVA fermentor (Digital Microprocessor Pid control)	23/03/2012	360000	Working
4	Swisser Table top balance model – swit – 105 10 kg	23/03/2012	8775	Working
5	NOVA digital hot air oven 24"x24"x36"	23/03/2012	36900	Not Working
(87) 1	HD Handy cam (video camera)	27/03/2012	71025	Working
2	Digital Camera HD (15-30 mega pixel)	27/03/2012	66660	Working
3	Double distilled water RO plant for lab use	27/03/2012	24860	Working
4	Refrigerator 310 lit with stb 1 KVA	27/03/2012	29035	Working
(88)	2 HP 8 Stage Neck Motor	20/12/2014	8500	Working
(89)	Photocopier machine (Digital Colour Multi function office machine (Richo) MP (2004SP))	21/3/2017	1,50,000	Working
(90)	AVECO E-GURU Interactive white Board- Model-1R80, size-1816mmX1410X36mm, Projection Size-656mmX1250mm, Aspect Ratio:4:3	24/3/2017	41,975	Working
(91)	Voltas AC-1.5 tonType-Split	18/3/2017	72,000	Working
(92)	Carrier Split AC-2.0 ton- 3 star, Model-24 k Superia	24/3/2017	84,000	Working
(93)	Chaff cutter power operated, BKV2HPCFAT, 3 Blades, 1440 RPM, 50H, 220V, 12A	17/3/2017	22491	Working
(94)	Information Kiosk thin client based free standing-Type Model SK-19-T	10/3/2017	90250	Working
(95)	Lenovo Computer-All in One	14/03/2017	92398	Working
(96)	Paddy Thresher with Motor	20/03/2017	23500	Working
(97)	RO with water cooler -50 LPH with 100 litre LPH SS storage	02/03/2017	79000	Working
(98)	Laser Printer-Brother Model No. 2321 D	21/03/2017	14760	Working
(99)	Colored Laser Printer-CP 1025	21/03/2017	18000	Working
(100)	Scanner-Canon	21/03/2017	8476.20	Working
(101)	Maize Dhusker cum sheller-1000 kg/cobs/hour capacity	14/03/2017	182000	Working

Sl. No.	Name of Equipments/ Instruments/ Farm Machineries	Date of Purchase	Cost (Rs.)	Present Status
(101)	7.5 HP Motor	24/03/2017	18200	Working
(102)	1.5 HP 10 stage motor ISI with accessories	24/03/2017	19688	Working
(103)	Winnowing Fan	24/03/2017	35000	Working
(104)	Haier Deep Freezer-588 litre capacity	24/03/2017	66000	Working
(105)	Pulvarizer Machine	24/03/2017	35675	Working
(106)	Soyabean Processing Unit	24/03/2017	325248	Working
(107)	PKV Custard Apple pulper Machine-0.5 HP Single Phase Motor-Capacity 70 kg/hour	24/03/2017	78775	Working
(106)	PKV Mini Dall Mill	28/03/2017	93000	Working
(107)	Model; captain 250DI 4WD Regular Model (tyre Size 8×18)+Insurance charge	31/3/2019	381570	Working
	Tyre size 8.3×20 Extra Amount		20000	
	Power steering Extra Amount		20000	
	Oil immersed Brake Extra Amount		5800	
(108)	Rotavetor 3ft L type blade	31/3/2019	51480	Working
(109)	Reversible Plough	31/3/2019	23520	Working
(110)	land leveler	31/3/2019	18724	Working
(111)	Cultivator 7 tyn	31/3/2019	21346	Working
(112)	Seed cum fertilizer drill	31/3/2019	41664	Working
(113)	Multi crop Thresher (CS-01)	31/3/2019	214999	Working
(114)	Cultivator (LEW-9)	31/3/2019	33600	Working
(115)	Resersible MB Plough (Hydrulic, reversible-TAI-25)	31/3/2019	67200	Working
(116)	View Sonic Multimedia Projector	31/3/2019	115700	Working
(117)	Laptop-HP	31/3/2019	49999	Working
(118)	Paddy Thresher	31/3/2019	15000	Working

***77, 78 and79 purchased from University Grant not from ICAR**

1.8. A). Details SAC meeting* conducted in the year

First SAC meeting

Date	Name and Designation of Participants	Salient Recommendations	Action taken
31/01/2020	1. Dr. Dr. G. R. Patel, Chairperson, Hon'bleDirectorate of Extension Education, Navsari Agricultural University, Navsari 2. Dr. Ankush I. Kamble, Member, Scientist-ATARI, Zone-VIII, ICAR, Pune, Maharashtra 3. Dr. C. D. Pandya, Member Secretary & Senior Scientist & Head, KVK, Vyara 4. Dr. V. P. Patel, Member, Associate Research Scientist, Regional Rice Research Station, Navsari Agricultural University, Vyara 5. Mr. J. B. Vasave , Member, Assistant Professor, (Agronomy Expert), Polytechnic in Agril., NAU, Vyara 6. Dr. J. M. Patel, Member, Associate professor, Veterinary college, NAU, Navsari 7. Shri Prafulbhai R. Chaudhari, Member, Project Director, ATMA-Tapi 8. Shri S.B.Gamit, Member, District Agriculture Officer, Department of Agriculture, District Panchayat, Vyara, Tapi 9. Shri Nikunj Patel, Member, Deputy Director of Horticulture, Tapi district,Vyara 10. Dr. C. M. Rana, Member, Deputy Director of Animal Husbandry, District Panchayat,Tapi District, Vyara 11. Shri Samir Ardesana, Member, Assistant Director (Fisheries), Near CRPF Campus, Ukai, Dist. Tapi 12. Jayaben Mahendrabhai Chaudhari, Member, Progress farm-women, At & Po. Unchchamala Ta. Vyara 13.Mr. Kantibhai Desai, Member, Agri-Enterpreneur, Sardar Agro Centre, APMC, Vyara 14. Harshidaben S. Chaudhary, Member, RFO, Vyara, Dist. Tapi 15. Shri Sureshbhai M. Chaudhary, Member,Chairman of APMC, Vyara	1.GR-17 (Sardar) variety of paddy crop should be included in the action plan for the year-2020-2021 2.Turmeric crop should be introduced in the FLDs of Horticulture under Adaptive Trial programme 3.Pigeon pea variety GT-104 should be given in the CFLDs of Pulses under NFSM-Pulses programme	Incorporate in Annual Action Plan:2020

Date	Name and Designation of Participants	Salient Recommendations	Action taken
	16. Shri D.T.Desai, Invitee Member, Private Agro Dealer & Invitee Member, Patidar Agro Centre, APMC, Vyara 17. Mr. Dharmesh Vani, Invitee Member,Press Reporter-Gujarat Raksha, Vyara 18. Shri Anup Bhatt, Invitee Member, Press Reporter- Dhabkar & Sandesh News TV 19. Shri Tulsibhai Mavani, Invitee Member, Ambedkar Vanavasi Kalyan Trust-Surat 20. Shri Ramkumar Sinh, Invitee Member, Suruchi Vasahat trust Bardoli 21. Shri Mansukhabhai S. Gamit, Progressive Farmer & Invitee Member, At & Po. Nani Chikhali, Ta. Vyara 22. Shri Nareshbhai B. Patel, Invitee Member, Aagakhan Foundation, Vyara 23. Shri N. M. Gajre, Invitee Member, IFFCO Bardoli, Vyara 24. Smt. Anjanaben N. Gamit, Invitee member, Progressive farmer –Mushrom grower at Nani Chikhli, Vyara 25. Shri Subhashbhai Bhagabhai Gamit, Invitee member, Progressive farmer, Dabari amba village, Kukarmunda 26. Shri Anandbhai Jikabhai Padvi, Invitee member, Progressive farmer, Dabariamba village, Kukarmunda 27. Smt. Rakshaben Jigneshbhai Chaudhary, Invitee member, Progressive farmer, Borakhadi village, Vyara 28. Smt. Hasumatiben Sanmukhbhai Gamit, Invitee member, Progressive farmer, Borakhadi village, Vyara 29. Smt. Shilaben Amrutbhai Chudhari, Invitee member, Progressive farmer, Borakhadi village, Vyara 30. Shri Ranjitbhai Hirjibhai Gamit, Invitee member, Progressive farmer, Unchamala village, Vyara 31. Shri Anandbhai Bhanabhai Gamit, Invitee member, Progressive farmer, Unchamala village, Vyara 32. Smt. Induben Gamit, Invitee member, Entrepreneur, Kapura village, Vyara		

Date	Name and Designation of Participants	Salient Recommendations	Action taken
	33. Dr. A. J. Dhodia, Special invitee, Scientist (Extension), KVK,Vyara 34. Shri. K. N. Rana, Special invitee, Scientist (Crop Production), KVK, Vyara 35. Dr. J. B. Butani, Special invitee, Scientist (Animal Science), KVK, Vyara 36. Dr. Dharmishtha M. Patel, Special invitee, Scientist (Horticulture), KVK, Vyara 37. Dr.S.M.Chavan, Special invitee, Scientist (Plant Protection), KVK, Vyara 38. Prof.A.N.Soni, Special invitee, Scientist (Home Science), KVK,Vyara		

**** Copy of SAC proceedings along with list of participants is attached in -Annexure-I***

Second SAC meeting

Date	Name and Designation of Participants	Salient Recommendations	Action taken
08/12/2020	1. Dr. Z. P. Patel, Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari. 2. Dr. C. K. Timbadia,Hon'bleDirectorate of Extension Education, Navsari Agricultural University, Navsari 3. Dr. C. D. Pandya, Member Secretary & Senior Scientist & Head, KVK, Vyara 4.Dr. S. R. Chaudhari, Special invitee, Director of Research, Navsari Agricultural University, Navsari. 5. Dr. V. P. Patel, Member, Associate Research Scientist, Regional Rice Research Station, Navsari Agricultural University, Vyara 6. Dr. A. H. Patel, Member, Assistant Professor, (Horticulture Expert), Polytechnic in Agril., NAU, Vyara 7. Dr. J. M. Patel, Member, Associate professor, Veterinary college, NAU, Navsari 8. Shri Prafulbhai R. Chaudhari, Member, Project Director, ATMA-Tapi	1. FLDs on prevention of Mastitis in dairy animals should be taken 2. FLDs on Organic farming should be conducted 3. FLDs on Paddy variety *Devlicolum* should be conducted 4. Awareness and Training programme on MIS (Micro Irrigation System) should be organized	Incorporate in Annual Action Plan: 2021

Date	Name and Designation of Participants	Salient Recommendations	Action taken
	9. Shri S.B.Gamit, Member, District Agriculture Officer, Department of Agriculture, District Panchayat, Vyara, Tapi 10. Shri Nikunj Patel, Member, Deputy Director of Horticulture, Tapi district,Vyara 11. Dr. C. M. Rana, Member, Deputy Director of Animal Husbandry, District Panchayat,Tapi District, Vyara 12. Shri Samir Ardesana, Member, Assistant Director (Fisheries), Near CRPF Campus, Ukai, Dist. Tapi 13. Jayaben Mahendrabhai Chaudhari, Member, Progress farm-women, At & Po. Unchchamala Ta. Vyara 14.Mr. Kantibhai Desai, Member, Agri-Enterpreneur, Sardar Agro Centre, APMC, Vyara 15. Harshidaben S. Chaudhary, Member, RFO, Vyara, Dist. Tapi 16. Shri Sureshbhai M. Chaudhary, Member,Chairman of APMC, Vyara 17. Shri D.T.Desai, Invitee Member, Private Agro Dealer & Invitee Member, Patidar Agro Centre, APMC, Vyara 18. Mr. Dharmesh Vani, Invitee Member,Press Reporter-Gujarat Raksha, Vyara 19. Shri Anup Bhatt, Invitee Member, Press Reporter- Dhabkar & Sandesh News TV 20.Shri Tulsibhai Mavani, Invitee Member, Ambedkar Vanavasi Kalyan Trust-Surat 21. Shri Ramkumar Sinh, Invitee Member, Suruchi Vasahat trust Bardoli 22. Shri Mansukhabhai S. Gamit, Progressive Farmer & Invitee Member, At & Po. Nani Chikhali, Ta. Vyara 23. Shri Nareshbhai B. Patel, Invitee Member, Aagakhan Foundation, Vyara 24. Shri N. M. Gajre, Invitee Member, IFFCO Bardoli, Vyara 25. Smt. Anjanaben N. Gamit, Invitee member, Progressive farmer –Mushrom grower at Nani Chikhli, Vyara 26. Shri Subhashbhai Bhagabhai Gamit, Invitee member,		

Date	Name and Designation of Participants	Salient Recommendations	Action taken
	Progressive farmer, Dabari amba village, Kukarmunda 27. Shri Anandbhai Jikabhai Padvi, Invitee member, Progressive farmer, Dabariamba village, Kukarmunda 28. Smt. Rakshaben Jigneshbhai Chaudhary, Invitee member, Progressive farmer, Borakhadi village, Vyara 29. Smt. Hasumatiben Sanmukhbhai Gamit, Invitee member, Progressive farmer, Borakhadi village, Vyara 30. Smt. Shilaben Amrutbhai Chudhari, Invitee member, Progressive farmer, Borakhadi village, Vyara 31. Shri Ranjitbhai Hirjibhai Gamit, Invitee member, Progressive farmer, Unchamala village, Vyara 32. Shri Anandbhai Bhanabhai Gamit, Invitee member, Progressive farmer, Unchamala village, Vyara 33. Smt. Induben Gamit, Invitee member, Entrepreneur, Kapura village, Vyara 34. Dr. A. J. Dhodia, Special invitee, Scientist (Extension), KVK,Vyara 35. Shri. K. N. Rana, Special invitee, Scientist (Crop Production), KVK, Vyara 36. Dr. J. B. Butani, Special invitee, Scientist (Animal Science), KVK, Vyara 37. Dr. Dharmishtha M. Patel, Special invitee, Scientist (Horticulture), KVK, Vyara 38. Dr.S.M.Chavan, Special invitee, Scientist (Plant Protection), KVK, Vyara 39. Prof.A.N.Soni, Special invitee, Scientist (Home Science), KVK,Vyara		

2. DETAILS OF DISTRICT /JURIDICTION AREA OF KVK

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

S. No.	Farming system/enterprise
1.	Agriculture and Animal Husbandry along with an Agro forestry
2.	Agriculture and horticulture
3.	Agro-forestry

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

1. Agro-climatic zones

S. No.	Agro-climatic Zone	Characteristics
1.	South Gujarat Heavy Rainfall Zone-I	• It consists of three talukas of Tapi district i.e. Songadh, Vyara and Valod taluka • It has an intensive rainfall over 1500 to 2200 mm per annum • Rain mostly received during month of July- August • The zone has clay soil with normal pH and EC, medium organic Carbon and phosphorous and high in potash
2.	South Gujarat Rainfall Zone-II	• It consists of two talukas i.e. Uchchhal and Nizar. • Rainfall of the area varying between 1000 to 1500 mm per annum • This zone has black soil of medium to heavy texture • 75 per cent of the area is rainfed.

2. Topography

Sr. No.	Agro ecological situation	Characteristics
1.	Situation I	• The total geographical area is about 5.57 lack ha. Which is 58 per cent of the zone and of which 53 Per cent is under forest • Cultivated area is 15.29 per cent as it is a heavy rainfall situation • 5 per cent area is under doubled crop • Major Field crops grown are paddy, minor millets, pulses, sorghum and oilseeds like ground nut and soybean.
2.	Situation III	• The total geographical area is about 2.22 lack ha, which is 25.21 per cent of the zone and 59.3 Per cent is under cultivation • Cultivated area is 1.64 lakh ha. • 14.5 per cent area is under doubled crop. Soil of this situation is deep and fine Textured.

2.3 Soil types

S. No.	Soil type	Characteristics	Area in ha
1.	Hilly Area – Light soil	Lateritic and eroded shallow soil with high infiltration rate	130023
2.	Plain area- Heavy Black soil	Heavy Black to medium black with medium to poor drainage, in some area it is water logged and salt affected.	208779

2.4 Area, Production and Productivity of major crops cultivated in the district (2019-20)

Sr. No	Crop	Area (ha)	Production (MT.)	Productivity (Qtl/ha)
Year– 2019-20				
1	Paddy	52371	162350	31.00
2	Kharif – Sorghum	11786	14966	13.50
3	Kharif – Maize	1678	2467	14.70
4	Soybean	14341	16492	11.50
5	Kharif – Pigeon pea	18489	20338	11.00
6	Kharif – Green gram	138	97	70.00
7	Black gram	1357	1018	75.00
8	Kharif Groundnut	1573	2831	18.00
9	Cotton	7269	18263	26.50
Year-2019-20				
1	Wheat	3560	10876	30.55
2	Rabi Sorghum	2402	3603	15.00
3	Maize	954	1288	13.50
4	Gram	2592	2722	10.50
5	Sugarcane	28108	2192424	780.00
6	Indian bean (Val)	385	366	09.50

Source: District Agriculture Department – Tapi

Horticultural Crops: (2019-20)

Sl. No	Crop	Area (ha)	Production (MT)	Productivity (kg/ha)
A	**Fruits**			
	Mango	5745	52854.00	9200
	Sapota	115	1288.00	11200
	Citrus	115	1322.00	11500
	Ber	5	22.00	4400
	Banana	1580	94500.00	59810
	Guava	25	255.00	10200
	Pomegranate	50	561.00	11220
	Date palm	7	27.00	3860
	Papaya	2090	129371.00	61900
	Custard apple	47	258.50	5500
	Aonla	20	147.00	7350
	Cashew nut	197	169.00	860
	Coconut	65	536.00	8250
	Others Fruits	340	2737.00	8050
B	**Vegetables**			
	Brinjal	3760	70124.00	18650
	Cabbage	126	2948.00	23400
	Okra	9960	135954.00	13650
	Tomato	665	15295.00	23000
	Cauliflower	331	6421.00	19400
	Cluster bean	780	7409.00	9500
	Cowpea	795	6352.00	7990
	Cucurbits	3830	63324.00	16530
	Others Vegetables	2305	30794.00	13360

Sl. No	Crop	Area (ha)	Production (MT)	Productivity (kg/ha)
C	**Creepers**			
	Bottle Gourd	543	9774.00	18000
	Bitter Gourd	513	5130.00	10000
	Muskmelon	173	3633.00	21000
	Sponge Gourd	183	2287.50	12500
	Ridge Gourd	123	1599.00	13000
	Cucumber	123	1537.50	12500
	Pointed Gourd	783	12528.00	16000
	Watermelon	276	8736.00	31650
	Pumpkin	168	4032.00	24000
	Little Gourd	643	9645.00	15000
	Spine Gourd	56	560.00	10000
	Any additional crop (Valod Papadi)	246	3862.00	15700
D	**Spices**			
	Chilli-Dry	1165	1980.00	1700
	Ginger	38	760.00	20000
	Turmeric	73	1503.00	20590
	Fenugreek	108	205.00	1900
	Ajawain	77	58.00	750
E	**Flowers**			
	Rose	50	450.00	9000
	Marigold	250	2475.00	9900
	Jasmine (Mogra)	73	635.00	8700
	Lily	10	83.00	8300
	Others	137	1201.00	8770

Source: District Horticulture Department — Tapi

2.5 Weather data (2020)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January-2020	0	30.1	14.0	89.4	85.5
February-2020	0	31.8	15.7	80.3	76.6
March-2020	0	36.2	20.2	87.3	86.3
April-2020	0	40.1	24.2	85.4	85.3
May-2020	0	40.3	36.3	90.3	83.2
June-2020	123.5	36.3	24.3	--	--
July-2020	305.5	35.2	24.6	--	--
August-2020	1293.0	31.3	23.8	--	--
September-2020	169.0	35.5	25.5	--	--
October-2020	46	37.1	23.3	--	--
November-2020	0	35.5	18.6	--	--
December-2020	47	31	16.6	--	--

Source:DAO-Tapi **Average rainfall: 1797 mm**

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

Category	Population	Production ('000 tones)	Productivity (kg/day)
Cattle			
Crossbred	45123	92.28	6.780(Milk)
Indigenous	169421	25.72	2.500(Milk)
Buffalo	176458	98.02	4.910(Milk)
Sheep	1000	1.17 metric tones	1.090 kg wool/sheep
Goats	96599	3.13	0.450 (Milk)
Pigs	2723	--	--
Rabbits	1576	--	--
Poultry			
Desi	433300	147.76 lakh egg	118 eggs per layer/year
Improved	139600	303.71 lakh egg	324 eggs per layer/year
Donkey	1943	--	--

Source:*DISTIRCT INDUSTRIAL POTENTIALITY SURVEY REPORT OF TAPI DISTRICT 2016-17*

2.7 Details of Operational area / Villages (2020-21)

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Vyara	Vyara	Chhirama	Paddy, Sugarcane, Gram, Groundnut, Okra, Cucurbitaceous vegetables, Animal Husbandry	• Lack of knowledge about scientific package of practices among farmers/ Farm women • Lack of awareness about organic farming • Lack of irrigation facility • Lack of Knowledge about value addition of Agril. produce • Low milk production • Poor livestock management • Drudgery among farm women during Agril. practices • Lack of knowledge about Health & Nutrition • Sickle cell Anemia	• Integrated Crop Management (ICM) and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Crop diversification • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Low cost green house and small scale Nursery Management • Off-season cultivation of high valued crops • Capacity building and Group dynamics
		Malotha	Paddy, Sugarcane, Gram, Groundnut, Okra, Cucurbitaceous vegetables, Animal Husbandry	• Lack of knowledge about scientific package of practices among farmers/ Farm women • Lack of awareness about organic farming • Lack of irrigation facility • Lack of Knowledge about value addition of Agril. produce • Low milk production • Poor livestock management	• Integrated Crop Management (ICM) and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				• Drudgery among farm women during Agril. practices • Lack of knowledge about health & nutrition • Sickle cell Anemia	• Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Low cost green house and small scale Nursery Management • Off-season cultivation of high valued crops • Capacity building and Group dynamics
Dolvan	Dolvan	Chakdhara	Paddy, Sugarcane, Gram, Groundnut, Okra, Cucurbitaceous vegetables, Animal Husbandry	• Lack of technological knowledge(ICM, INM,IPDM) among farmers/ Farm women • Lack of awareness towards animal disease management • Lack of Knowledge about value addition of Agril. produce • Undulated land and poor fertility status of soil • Drudgery among farm women during Agril. practices • Lack of knowledge about health & nutrition • Sickle cell Anemia • Low milk production per animal	• Integrated Crop Management (ICM and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Low cost green house and small scale Nursery Management • Off-season cultivation of high valued crops • Capacity building and Group dynamics
		Dholaka	Paddy, Sugarcane, Gram, Groundnut, Okra, Cucurbitaceous vegetables,	• Lack of technological knowledge(ICM, INM,IPDM) among farmers/ Farm women	• Integrated Crop Management (ICM and precision Farming • Organic farming • Integrated Nutrient Management

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
			Animal Husbandry	• Undulated land and poor fertility status of soil • Lack of awareness towards animal disease management • Poor economic condition • Lack of Knowledge about value addition of Agril. produce • Drudgery among farm women during Agril. practices • Lack of knowledge about health & nutrition • Sickle cell Anemia • Low milk production	• Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Low cost green house and small scale Nursery Management • Off-season cultivation of high valued crops • Capacity building and Group dynamics
Valod	Valod	Beldha	Paddy, Sugarcane, Gram, Pigeon pea, Okra, Brinjal, Cucurbitaceous vegetables, Animal Husbandry	• Lack of technological knowledge about crop production • Injudicious use of pesticides in vegetables • Lack of awareness about organic farming • Lack of knowledge about fruits & vegetable preservation • Lack of knowledge about insect – pest identification & their management • Poor animal management • Drudgery among farm women during Agril. practices • Lack of knowledge about	• Integrated Crop Management (ICM and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Low cost green house and small scale

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				health & nutrition	Nursery Management • Off-season cultivation of high valued crops • Capacity building and Group dynamics
		Titva	Paddy, Sugarcane, Gram, Pigeon pea, Okra, Brinjal, Cucurbitaceous vegetables, Animal Husbandry	• Lack of technological knowledge about crop production • Injudicious use of pesticides in vegetables • Lack of awareness about organic farming • Lack of knowledge about fruits & vegetable preservation • Lack of knowledge about insect – pest identification & their management • Poor animal management • Drudgery among farm women during Agril. practices • Lack of knowledge about Health & Nutrition • Poor food grain storage	• Integrated Crop Management (ICM and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Low cost green house and small scale Nursery Management • Off-season cultivation of high valued crops • Capacity building and Group dynamics
Songadh	Songadh	Ozar	Paddy, Sugarcane, Sorghum, Gram, Groundnut, Pigeon pea, Okra, Cucurbitaceous vegetables, Animal Husbandry	• Lack of knowledge about new agricultural technology • Lack of awareness about scientific rearing of Animal Husbandry & poultry • Scarcity of water • Lack of awareness about organic farming	• Integrated Crop Management (ICM and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				• Poor food grain storage practices • Lack of awareness about Health & Nutrition • Drudgery among farm women during Agril. practices • Lack of Knowledge about value addition of Agril. produce • Sickle cell Anemia • Poor economic condition	groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals & poultry management • Off-season cultivation of high valued crops • Capacity building and Group dynamics
		Ghachikuva	Paddy, Sugarcane, Sorghum, Gram, Groundnut, Pigeon pea, Okra, Cucurbitaceous vegetables, Animal Husbandry	• Lack of knowledge about new agricultural technology • Low adoption of new technology • Lack of awareness about scientific rearing of Animal Husbandry • Scarcity of water • Lack of awareness about organic farming • Poor food grain storage practices • Lack of awareness about Health & Nutrition • Drudgery among farm women during Agril. practices • Lack of Knowledge about value addition of Agril. produce • Poor economic condition	• Integrated Crop Management (ICM) and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Off-season cultivation of high valued crops • Capacity building and Group dynamics
Uchchhal	Uchchhal	Fulvadi, Thuti	Paddy, Sugarcane, Cotton, Sorghum, Pigeon pea, Soybean,	• Lack of knowledge about scientific package of	• Integrated Crop Management(ICM) and precision Farming

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
			vegetables, Animal Husbandry	practices of different crops • Lack of knowledge about insects — pests & diseases • Injudicious use of chemical pesticide in cotton • Lack of awareness about organic farming • Scarcity of water • Poor food grain storage practices • Lack of awareness about Health & Nutrition • Drudgery among farm women during Agril. practices • Lack of Knowledge about preservation of Agril. produce • Inadequate intake of fruits & vegetables • Sickle cell Anemia • Poor livestock management • Poor economic condition	• Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Dry land horticulture • Capacity building and Group dynamics
		Navi Kachali	Paddy, Sugarcane, Cotton, Sorghum, Pigeon pea, vegetables, Animal Husbandry	• Lack of knowledge about scientific package of practices of different crops • Lack of knowledge about insects — pests & diseases • Injudicious use of chemical pesticide in cotton • Lack of awareness about organic farming • Scarcity of water • Poor food grain storage practices • Lack of awareness about	• Integrated Crop Management(ICM) and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				Health & Nutrition • Drudgery among farm women during Agril. practices • Lack of Knowledge about preservation of Agril. produce • Sickle cell Anemia • Poor livestock management • Poor Socio-economic condition	women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Dry land horticulture • Capacity building and Group dynamics
Kukarmunda	Kukarmunda	Maulipada, Balambha	Paddy, Sugarcane, Wheat, Cotton, Sorghum, Pigeon pea, vegetables, Animal Husbandry	• Lack of technological knowledge(ICM, INM,IPDM) among farmers/ Farm women • Lack of knowledge about insect — pest identification & their management • Injudicious use of chemical pesticides • Lack of awareness about organic farming • Poor marketing facility • Lack of availability of Agril. inputs • Poor grain storage practices • Lack of Knowledge about preservation of Agril. produce • Poor Livestock management	• Integrated Crop Management(ICM and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management • Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Dry land horticulture • Capacity building and Group dynamics
Nizar	Nizar	Kherva, Vedpada	Paddy, Wheat, Cotton, Castor, Sorghum, Pigeon pea, vegetables, Animal Husbandry	• Poor marketing facility • Lack of technological knowledge about crop production practices • Injudicious use of chemical	• Integrated Crop Management(ICM and precision Farming • Organic farming • Integrated Nutrient Management • Integrated Pest and Disease Management

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				pesticide/ fertilizers • Lack of awareness about organic farming • Viral disease problem in fruits & vegetables • Weed management in black soil is a big problem • High production cost due-to lift irrigation • Poor grain storage practices • Lack of Knowledge about preservation of Agril. produce • Poor Livestock management • Sickle cell anemia	• Soil and Water conservation • Women empowerment and self reliability through Entrepreneurial development • Health & Nutrition for vulnerable groups, Malnutrition and Sickle cell anemia awareness • Drudgery reduction technology for farm women • Value addition in Agricultural crops • Breeding, Feeding & Dairy management of milch animals • Dry land horticulture • Capacity building and Group dynamics

2.8 Priority/thrust areas:

1. Introduction of improved variety
2. Balanced fertilizers and eco-friendly pest and disease management
3. Ration balancing for dairy animals
4. Health & Nutrition for vulnerable groups among farm women
5. Drudgery reduction technology for farm women
6. Women/youth empowerment through Entrepreneurial development

3. TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		No. of farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
5	5	31	31	Crop based-ha	223.58		752
				Farm Implements-2 SHGs	2 SHGs		175
				Mushroom cultivation-1	1		25
				Animal Science-6	6		160
				Vermicomposting-1	1		10

Training					Extension Programmes			
3					4			
Number of Courses			Number of Participants		Number of programmes		Number of participants	
Targets		Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers-43		**120**	1195	4495	460	714	19256	26025
Rural youth- 5		**10**	110	283				
Extn. Functionaries- 3		**17**	100	640				
Total	**51**	**147**	**1405**	**5418**	**460**	**714**	**19256**	26025

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
208.7	131.005	161700	186450

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
0	0	0	**5376**

3.1. B. Operational areas details during 2020

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise/ Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Paddy, Sugarcane, Gram, Groundnut, Okra, Cucurbitaceous vegetables, Animal Husbandry	• Lack of knowledge about scientific package of practices among farmers/ Farm women • Lack of awareness about organic farming • Lack of irrigation facility • Lack of Knowledge about value addition of Agril. produce • Low milk production • Poor livestock management • Drudgery among farm women during Agril. practices • Lack of knowledge about Health & Nutrition • Sickle cell Anemia	Chhirama, Malotha	Intervention is given below
2	Paddy, Sugarcane, Gram, Pigeon pea, Okra, Brinjal, Cucurbitaceous vegetables, Animal Husbandry	• Lack of technological knowledge about crop production • Injudicious use of pesticides in vegetables • Lack of awareness about organic farming • Lack of knowledge about fruits & vegetable preservation • Lack of knowledge about insect – pest identification & their management • Poor animal management • Drudgery among farm women during Agril. practices • Lack of knowledge about health & nutrition	Beldha, Titva	
3	Paddy, Sugarcane, Sorghum, Gram, Groundnut, Pigeon pea, Okra, Cucurbitaceous vegetables, Animal Husbandry	• Lack of knowledge about new agricultural technology • Lack of awareness about scientific rearing of Animal Husbandry & poultry • Scarcity of water • Lack of awareness about organic farming • Poor food grain storage practices • Lack of awareness about Health & Nutrition • Drudgery among farm women during Agril. practices • Lack of Knowledge about value addition of Agril. produce • Sickle cell Anemia • Poor economic condition	Ozar, Ghachikuva	
4	Paddy, Sugarcane, Cotton, Sorghum, Pigeon pea, Soybean, vegetables, Animal Husbandry	• Lack of knowledge about scientific package of practices of different crops • Lack of knowledge about insects — pests & diseases • Injudicious use of chemical pesticide in cotton	Navikachali, Fulvadi, Thuti	

		• Lack of awareness about organic farming • Scarcity of water • Poor food grain storage practices • Lack of awareness about Health & Nutrition • Drudgery among farm women during Agril. practices • Lack of Knowledge about preservation of Agril. produce • Inadequate intake of fruits & vegetables • Sickle cell Anemia • Poor livestock management • Poor economic condition		
5	Paddy, Sugarcane, Wheat, Castor, Cotton, Sorghum, Pigeon pea, vegetables, Animal Husbandry	• Lack of technological knowledge(ICM, INM,IPDM) among farmers/ Farm women • Lack of knowledge about insect — pest identification & their management • Injudicious use of chemical pesticides • Lack of awareness about organic farming • Poor marketing facility • Lack of availability of Agril. inputs • Poor grain storage practices • Lack of Knowledge about preservation of Agril. produce • Poor Livestock management • Viral disease problem in fruits & vegetables • Weed management in black soil is a big problem	Kherva, Bedpada	

* Support with problem-cause and interventions diagram

Interventions: ON FARM TESTING

S.N.	Particulars	Technology Intervention
1	**Assessment of Rice varieties (First year)**	Use of varieties GNR-7, GAR-13 and Mahisagar
2	**Assessment of foliar application of different organic inputs on mango (Second Year)**	Use of organic inputs and Scientific cultural practices
3	**Assessment of foliar application of different organic inputs on Okra (First year)**	Use of organic inputs and Scientific cultural practices
4	**Effect of Compound cattle feed with ASMM on milk production of buffalo (Third year)**	1 bag of 50 Kg Compound cattle feed and 1 kg ASMM
5	**Effect of calf starter feeding on growth performance of female calves (First)**	Calf starter feed

***Interventions to be undertaken**

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials, *etc*.
1	ICM	Paddy, Sugarcane, Wheat	Use of private hybrid and lack of awareness about proper varieties of crops	Assessment of Paddy variety	ICM in paddy, Sugarcane, and Wheat	Integrated crop management in major crops (Paddy, Cotton, Soybean, Pigeon pea, Groundnut, Wheat, sugarcane)	Productivity enhancement in field crops	Field visit, FLD Visit, Field Day, diagnostic visit, FLD visit, Khedutshibir, News paper coverage, Exhibitions, *etc*.	Improved seed
2	INM	Paddy, Pea,	Lack of awareness about proper varieties of rice hybrid and use of bio-fertilizers	-	INM in paddy	Integrated Nutrient management in Paddy, Integrated nutrient management in little gourd	Integrated Nutrient management in Paddy	Field visit, Field Day, diagnostic visit, FLD visit, Khedutshibirs, News paper coverage, Exhibitions, Method demonstration, *etc*.	Improved seed and bio-fertilizers
3	Organic farming	Organic farming	Low awarness about Organic farming, no use of organic inputs	Assessment of foliar application of different organic inputs on mango and okra	Effect of Novel organic liquid nutrient in mango, Okra and little gourd	Effect of novel organic liquid fertilizer in little gourd and mango	Preparation of different organic inputs, Scientific cultivation of different crops	Field visit, Field Day, diagnostic visit, fld visit, Khedut shibirs, News paper coverage, Film show, Exhibitions, *etc* .	Novel organic liquid nutrient *like* novel organic feed supplements, Waste decompose, Panchgavya
4	IPDM	Paddy, Pigeonpea,	Injudious use of pesticides	-	IPM & IDM in paddy,	IPDM in Kharif crops (Paddy,	IPDM in major kharif	Field visit, Field Day, diagnostic	Pheromone traps, Bio &,

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials, *etc*.
		okra, gram, Mango			Pigeonpea okra, gram	Cotton, Pigeon pea, Gram), IPDM in Vegetables and fruits (Brinjal, Okra, Cucurbits, Mango, Papaya), IPDM in *rabi* crops (Okra, Gram, Sugarcane) Ecofriendly use of Agrochemicals in Agriculture, Role of bio-agents and bio-pesticides in IPDM	and rabi crops	visit, FLD visit, Khedut shibirs, News paper coverage, Exhibitions,Method Demonstration *etc*.	Chemical pesticides
5	Mushroom production	Mushroom Cultivation	Mal nutrition in tribal people, low family income from other enterprise	--	Mushroom Cultivation	Mushroom Cultivation	--	Field visit, Field Day, diagnostic visit, FLD visit, Khedut shibirs, News paper coverage, Exhibitions,Method Demonstration *etc*	Spawn, Formaline, carbendazim, Plastic bags

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials, *etc*.
6	Drudgery reduction technologies for farm women	Paddy, Pulses, Vegetables & concerned crop	Lack of awareness about improved farm implements	-	Farm implements to reduce women drudgery	Location specific Drudgery reducing tech. for farm women	-	Method demo., Mahila shibir, meeting, FLD visit, Field day, film show, *etc*.	Paddy thresher with winnowing fan, Twin wheel hoe weeder, Stalk puller, Rake
7	Nutritional kitchen gardening	kitchen gardening	Mal nutrition in tribal people	--	Nutritional kitchen gardening	Kitchen gardening	--	Field visit, Field Day, diagnostic visit, FLD visit, Khedut shibirs, News paper coverage, Exhibitions,Method Demonstration *etc*.	Seeds & seedlings of vegetables, Novel-organic liquid nutrients, Fruit fly trap, Yellow sticky trap
8	Nutrition Management	Cattle	Poor growth performance due to insufficient feeding	Effect of calf starter feeding on growth performance of female calves	--	Feed and fodder management in dairy animals, Health management in dairy animals, Calf rearing management	--	Field visit, Field Day, diagnostic visit, FLD visit, Pashupalan & Khedut shibirs, News paper coverage, Exhibitions,Method Demonstration *etc*	Calf starter feed
9	Disease Management	Goat	Higher mortality due to diarrhea and parasitic	--	Narrow-spectrum Anthelmentic	--	--	Field visit, Field Day, diagnostic visit, FLD visit,	Triclabendazole tablets

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials, *etc*.
			load, lower growth		for Fluke			Pashupalan & Khedut shibirs, News paper coverage, Exhibitions *etc*	
10	Feed Management	Buffalo	Mineral deficiency and hormonal imbalance	Effect of Compound cattle feed on milk production of buffalo	Infertility cure in Buffalo	Management practices for higher milk production in dairy animals	--	Field visit, Field Day, diagnostic visit, FLD visit, Pashupalan & Khedut shibirs, News paper coverage, Exhibitions *etc*	Trace elements bolus and Clomiphen tablets
11	Nutrition Management	Buffalo	Higher productivity leads to increased energy requirements	--	Correction of negative energy balance in buffaloes.	Prevention of infectious diseases in dairy animals	--	Field visit, Field Day, diagnostic visit, FLD visit, Pashupalan & Khedut shibirs, News paper coverage, Exhibitions *etc*	Bypass fat supplement
12	Feed Management	Cattle	Insufficient green fodder availability in summer season	--	Silage feeding	Feed and fodder management in dairy animals	-	Field visit, Field Day, diagnostic visit, FLD visit, Pashupalan & Khedut shibirs, News paper coverage,	Silage bag

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials, *etc*.
								Exhibitions, Method Demonstration *etc*	
13	Nutrition Management	Cattle	Lower feed utilization	---	Increase in production performance of Cattle	Feeds and fodder management in dairy animals	---	Field visit, Field Day, diagnostic visit, FLD visit, Khedut shibirs, News paper coverage, Exhibitions,Method Demonstration *etc*.	Probiotic powder for three month
14	Disease Management	Buffalo	Prevention of Mastitis in lactating buffalo	--	Prevention of Mastitis in lactating buffalo	Disease management in dairy animals	--	Field visit, Field Day, diagnostic visit, FLD visit, Khedut shibirs, News paper coverage, Exhibitions,Method Demonstration *etc*.	Potasium permanganate ($KMNO_4$) Solution, Teat dipper

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

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	-	-	-	-	1	1	-	-	-	**2**
Varietal Evaluation	1	-	-	-	-	-	-	-	-	**1**
Integrated Pest Management	-	-	-	-	-	-	-	-	-	
Integrated Crop Management	-	-	-	-	-	-	-	-	-	
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-	-	-	-	-	-
Farm Machineries	-	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction										
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Total	**1**	**-**	**-**	**-**	**1**	**1**	**-**	**-**	**-**	**3**

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	2	-	-	-	-	**2**
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-

Small Scale income generating enterprises	-	-	-	-	-	-
TOTAL	**2**	**-**	**-**	**-**	**-**	**2**

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	Mango	Foliar application of different organic inputs on mango (Second Year)	05	05	0.20 ha
	Okra	Use of organic inputs in Okra (First Year)	10	10	0.10 ha
Varietal Evaluation	Paddy	Assessment of Paddy varieties (First)	05	05	0.25 ha
	--	--	--	--	--
Integrated Pest Management		--	--	--	--
	--	--	--	--	--
Integrated Crop Management	--	--	--	--	--
	--	--	--	--	--
Integrated Disease Management	--	--	--	--	--
	--	--	--	--	--
Small Scale Income Generation Enterprises	--	--	--	--	--
	--	--	--	--	--
Weed Management	--	--	--	--	--
	--	--	--	--	--
Resource Conservation Technology	--	--	--	--	--
	--	--	--	--	--
Farm Machineries	--	--	--	--	--
	--	--	--	--	--
Integrated Farming System	--	--	--	--	--

	--	--	--	--	--
Seed / Plant production	--	--	--	--	--
	--	--	--	--	--
Value addition	--	--	--	--	--
	--	--	--	--	--
Drudgery Reduction	--	--	--	--	--
	--	--	--	--	--
Storage Technique	--	--	--	--	--
	--	--	--	--	--
Mushroom cultivation	--	--	--	--	--
	--	--	--	--	--
Total	**-**	**--**	**20**	**20**	**0.55**

B.2.Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds	--	--	--	--
Nutrition management	Buffalo	Compound cattle feed and Mineral Mixture	06	06
	Female calves	Calf starter feed	05	05
Disease management	--	--	--	--
Value addition	--	--	--	--
Production and management	--	--	--	--
Feed and fodder	--	--	--	--
Small scale income generating enterprises	--	--	--	--
		Total	**11**	**11**

C1.Results of Technologies Assessed

Results of On Farm Trial

C1.1 Results:Assessment of Rice varieties (First year)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Data on 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
Paddy – *kharif*-2021 (First year)	Irrigated	Use of private hybrid and lack of awareness about proper varieties of crops	Assessment of Rice varieties	5	T1 : GNR-7 T2 : GAR-13 T3 : Mahisagar	- No.of effective Tillers - No. of grain / panicle, - Length of Panicle - No. of grain/plant - Days to maturity - Grain yield kg/ha - Fodder yield kg/ha	T-3 was found better with highest yield, net return and BC ratio	Mahisagar variety gave highest yield and net return	-	-

Contd....

Technology Assessed	Source of Technology	Production (Yield kg/ha)	Cost of Cultivation (Rs./ha)	Gross Income (Rs.)	Net Return (Profit) in Rs. / ha	BC Ratio
12	13	14	15	16	17	18
T1 : GNR-7	NAU, Navsari	5190	51620	109572	57952	2.12
T2 : GAR-13	AAU,Anand	5250	51921	114460	62539	2.20
T3 : Mahisagar	AAU,Anand	5595	52120	117186	65066	2.24

Vegetative growth and yield attributing characters

Treatments	No of Effective tillers	No of Grain/Panicle	Length of Panicle (cm)	No of grain/plant	Days to maturity	Grain Yield (Kg/ha)	Fodder Yield (Kg/ha)
T1 : GNR-7	12	223	20	2699	125-135	5190	5421
T2 : GAR-13	12	219	24.5	2722	125-130	5250	5829
T3 : Mahisagar	14	227	25.5	3366	121-125	5595	5808

C1. 2-Results: Assessment of foliar application of different organic inputs on mango (Summer-2020) (Second year)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Data on 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
Mango (Summer-2020)	Irrigated	Excess and uneven use of chemical fertilizers, Lack of awareness about time and methods of fertilizer application	Assessment of foliar application of different organic inputs on mango	10	T1 –Jeevamrut 2% T2-Panchgavya 2% T3- Novel organic liquid nutrient 2%	Number of fruits per plant, avg. fruit weight (kg), yield (kg/plant) and yield (kg/ha)	T-3 was found better with highest yield, net return and BC ratio	Novel Organic Liquid Nutrient gave highest yield and net return	-	-

Contd....

Technology Assessed	Source of Technology	Production (Yield kg/ha)	Cost of Cultivation (Rs./ha)	Gross Income (Rs.)	Net Return (Profit) in Rs. / ha	BC Ratio
12	13	14	15	16	17	18
T1 – Jeevamrut 2%	SAU	6141.60	54791.43	245664	190872.57	4.48
T2- Panchgavya 2%	SAU	6109.20	57291.43	244368	187076.57	4.27
T3- Novel organic liquid nutrient 2%	NAU, Navsari	6744	59291.43	269760	210468.57	4.55

Yield and yield attributing characters

Treatments		No. of fruits/plant	Avg. fruit weight (kg)	Yield (kg/plant)	Yield (q/ha)
T1	Jeevamrut 2%	65.10	0.24	15.35	61.42
T2	Panchgavya 2%	64.70	0.24	15.27	61.09
T3	Novel organic liquid nutrient 2%	68.80	0.25	16.86	67.44

C1.3 Results:Use of organic inputs in okra (2019-20) (First year)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Data on 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
Okra (Rabi-2019)	Irrigated	Higher cost of cultivation	Use of organic inputs in okra	10	T1-Novel Organic Liquid Nutrient 1% T2- Novel Organic Liquid Nutrient plus 1% T3- Waste decomposed 5%	Plant height, no. of branches, no. of pickings, production per picking, yield	T-1 was found better with highest yield, net return and BC ratio	Novel Organic Liquid Nutrient gave highest yield and net return	-	-

Contd....

Technology Assessed	Source of Technology	Production (Yield kg/ha)	Cost of Cultivation (Rs./ha)	Gross Income (Rs.)	Net Return (Profit) in Rs. / ha	BC Ratio
12	13	14	15	16	17	18
T1 – Novel Organic Liquid Nutrient 1%	NAU, Navsari	10882	81523.47	272050	190526.54	3.34
T2 - Novel Organic Liquid Nutrient plus 1%	NAU, Navsari	10014	81523.47	250350	168826.54	3.07
T3 - Waste decomposer	Gaziabad	10097	77223.47	252425	175201.54	3.27

Yield and yield attributing characters

Treatments	No. of pickings	Production (kg)/ picking/ha	Yield (q/ha)
T1-Novel Organic Liquid Nutrient 1%	40.70	268	108.82
T2-Novel Organic Liquid Nutrient plus 1%	38.90	257	100.14
T3-Waste decomposer 5%	39.10	258	100.97

Vegetative growth characters

Treatments	Plant height at 30 DAS (cm)	Plant height at 60 DAS (cm)	No. of branches at 30 DAS	No. of branches at 60 DAS	No. of leaves 30 DAS	No. of leaves 60 DAS
T1-Novel Organic Liquid Nutrient 1%	16.49	38.55	2.50	3.60	3.90	15.20
T2-Novel Organic Liquid Nutrient plus 1%	15.96	35.50	2.30	3.30	3.80	14.40
T3-Waste decomposer 5%	16.25	37.80	2.40	3.40	3.90	14.70

C.1.4 Effect of Compound cattle feed with ASMM on milk production of buffalo

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
							Milk Production	**Daily Cost of feeding**				
1	2	3	4	5	6	7	8		9	10	11	12
Livestock	Imbalanced feeding	Imbalanced feeding leads to increased cost of feeding with Lower Productivity	Effect of Compound cattle feed with ASMM on milk production of buffalo	06	T1	Milk Yield and Daily Feeding Cost	**5.9**	**133.1**	T-2 Found Better results with Lower cost of feeding	Decreased the cost of feeding with increased the production	---	---
					T2		**6.6**	**98.3**				

Contd..

Technology assessed	**Source of Technology**	**Production**	**Unit**	**Net Return (Profit) in Rs. Per day**	**BCR ratio**
13	14	15	16	17	18
T1 – It will consist of six animals and fed with farmer's practice (raw materials like cotton seed cake, guar bhardo and maize cake *etc*.)	Farmers Practices	5.9	Daily Milk production In liters	80.21	1.74
T2- It will consist of six animals and will be fed with concentrate (Sumul Dan) and mineral mixture as per recommendations on basis of milk production for ninety days.	ICAR & NDDB	6.6		139.75	1.37

Farmers Feedback:

- Milk production is increased by using compound cattle feed with ASMM
- Milk production cost reduce and saved money

C1.5 Effect of calf starter feeding on growth performance of female calves (First Year)

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
							Body Weight Gain (Kg per 180D)	**Avg. Daily Gain (Kg/Day)**				
1	2	3	4	5	6	7	8		9	10	11	12
Livestock	Improper feeding	Poor colostrum with improper feeding leads to poor growth performance	Effect of calf starter feeding on growth performance of female calves	05	T1	Body Weight Gain	**117.32**	**0.65**	T-2 gives better results with higher Avg. daily weight gain	Increased body weight gain with proper calf starter feeding as per NDDB schedule	---	---
					T2		**145.96**	**0.81**				

Contd.

Technology assessed	**Source of Technology**	**Growth performance**	**Unit**	**Average Daily Weight Gain (Kg/Day)**	**BCR ratio**
13	14	15	16	17	18
T1 – It will consist of five female calves and fed with farmer's practice (mother milk feeding with green and dry roughages etc.)	Farmers Practices	**117.32**	Body Weight Gain (Kg/180 day)	0.65	---
T2- It will consist of five female calves and will be fed Calf starter feed as per recommendations by NDDB for six months	NDDB	**145.96**		0.81	---

Farmers Feedback:

- Growth performance is increased by using calf starter feed for female calves
- Change of Age at puberty became reduce and calves will come in early oestrus period

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

C2.1Assessment of Paddy varieties (*Kharif*-2020) (First year)

1	Title of Technology Assessed	**Assessment of Rice varieties (First year)**
2	Problem Definition	Use of private hybrid and lack of awareness about proper varieties of crops
3	Details of technologies selected for assessment	T1- GNR – 7 (released by NAU, Navsari in the year 2017) T2- GAR – 13 (released by AAU, Anand in the year 2009) T3- Mahisagar (released by AAU, Anand in the year 2015)
4	Source of technology	NAU, Navsari and AAU, Anand
5	Production system and thematic area	ICM
6	Performance of the Technology with performance indicators	Results showed that Mahisagar variety recorded maximum Grain Yield (5595 kg/ha), as well as highest BCR (2.24).
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Higher yield observed in Mahisagar variety due to higher length of panicle and more number of effective tillers. Mite infestation was observed in Mahisagar variety. No major difference observed between Mahisagar and GAR-13 variety in terms of Net profit and BCR.
8	Final recommendation for micro level situation	Mahisagar variety recorded highest yield followed by GAR-13 in Tapi district
9	Constraints identified and feedback for research	Due to lack of technical know- how, farmers are not adopting this technology
10	Process of farmers participation and their reaction	During this trial, five farmers were randomly selected for OFT. Three varieties of Paddy were provided to farmers. To monitor OFT field plot visits were made. The data on yield parameters were recorded. It was found that the Mahisagar variety gave highest yield and net return followed by GAR-13.

C2. 2.Assessment of foliar application of different organic inputs on mango(*Summer*-2020)

(Second year)

1	Title of Technology Assessed	Assessment of foliar application of different organic inputs on mango
2	Problem Definition	Excess and uneven use of chemical fertilizers, Lack of awareness about time and methods of fertilizer application and lack of knowledge about use of organic inputs
3	Details of technologies selected for assessment	T1 –Jeevamrut 2% T2- Panchgavya 2% T3- Foliar application of Novel organic liquid nutrient 2%
4	Source of technology	NAU, Navsari
5	Production system and thematic area	INM
6	Performance of the Technology with performance indicators	Results showed that Novel Organic Liquid Nutrient recorded maximum number of fruits per plant (68.80), yield (16.86 kg/plant), yield (6744 kg/ha) as well as highest BCR (4.55).
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Higher income due to increase number of fruits per plant and ultimately increased yield
8	Final recommendation for micro level situation	Novel Organic Liquid Nutrient recorded highest yield of mango in Tapi district
9	Constraints identified and feedback for research	Due to lack of technical know- how, farmers are not adopting this technology
10	Process of farmers participation and their reaction	During this trial, ten farmers were randomly selected for OFT. Organic inputs were provided to farmers.Visits were made and the fields were monitored. The data on yield parameters were recorded. It was found that the Novel Organic Liquid Nutrient gave highest yield and net return compared to other organic inputs. Some of the farmers have started to adopt this technology.

C.2.3Use of organic inputs in okra (2019-20) (First year)

1	Title of Technology Assessed	**Use of organic inputs in okra**
2	Problem Definition	Higher cost of cultivation
3	Details of technologies selected for assessment	T1- Novel Organic Liquid Nutrient 1% T2- Novel Organic Liquid Nutrient Plus 1% T3- Waste decomposer 5%
4	Source of technology	NAU, Navsari and NORC, Ghaziabad
5	Production system and thematic area	INM
6	Performance of the Technology with performance indicators	Results showed that Novel Organic Liquid Nutrient recorded maximumnumber of pickings (40.70), production per picking (268 kg), yield (10882 kg/ha) as well as highest BCR (3.34).
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Higher income due to reduce flower drop hence increase yield Reduce gall like swelling on fruits hence get more market value
8	Final recommendation for micro level situation	Novel Organic Liquid Nutrient recorded highest yield of okra in Tapi district
9	Constraints identified and feedback for research	Due to lack of technical know- how, farmers are not adopting this technology
10	Process of farmers participation and their reaction	During this trial, ten farmers were randomly selected for OFT. Organic inputs were provided to farmers. To monitor OFT field plot visits were made. The data on yield parameters were recorded. It was found that the Novel Organic Liquid Nutrient gave highest yield and net return compared to other organic inputs. Many farmers have started to adopt this technology.

C.2.4 Effect of Compound cattle feed with ASMM on milk production of buffalo (Third year)

1	Title of Technology Assessed	**Effect of Compound cattle feed with ASMM on milk production of buffalo**
2	Problem Definition	Nutritional Imbalance reduces the productivity and increased the cost of production
3	Details of technologies selected for assessment	T1 –Six animals and fed with farmer's practice (raw materials like cotton seed cake, guar bhardo and maize cake etc.) T2- Six animals and will be fed with concentrate (Sumul Dan) and mineral mixture as per recommendations on basis of milk production for ninety days.
4	Source of technology	ICAR & NDDB
5	Production system and thematic area	Nutritional Management
6	Performance of the Technology with performance indicators	Milk production and Dairy feeding cost
7	Feedback, matrix scoring of various technology parameters	This type of trial will help to promote compound cattle feed and ration balancing

	done through farmer's participation / other scoring techniques	
8	Final recommendation for micro level situation	Balanced compound cattle feed increased nutritional balanced
9	Constraints identified and feedback for research	-NIL- and feedback for research is increased cost of feeding
10	Process of farmers participation and their reaction	Appreciate the technology and ready to adopt

C.2.5 Effect of calf starter feeding on growth performance of female calves (First Year)

1	Title of Technology Assessed	**Effect of calf starter feeding on growth performance of female calves**
2	Problem Definition	Poor colostrum with insufficient mother milk feeding to calf
3	Details of technologies selected for assessment	T_1 - Farmers' practices- Mother milk feeding with green and dry fodder T_2 - Calf starter feeding upto 6 month of age as per NDDB schedule
4	Source of technology	NDDB
5	Production system and thematic area	Nutrition Management
6	Performance of the Technology with performance indicators	Body Weight Gain (Kg/180 days) Avg. Daily Weight Gain (Kg/Day)
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	This type of trial will help to promote using calf starter feed for better growth performance
8	Final recommendation for micro level situation	Calf starter feed increased the good growth performance of calf
9	Constraints identified and feedback for research	-NIL- and feedback for research is increase Age at Puberty in calf
10	Process of farmers participation and their reaction	Appreciate the technology and ready to adopt

3.3 FRONTLINE DEMONSTRATION

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

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

Sl. No.	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Paddy-GRH-2	ICM	Improved variety + Biofertilizers	FLDs Training, Field visit,Fieldday,Khedutshibir,Farmers scientist interaction, News paper coverage	14	60	26
2	Paddy-GNR-6	ICM	Improved variety	FLDs Training, Field visit,Fieldday,Khedutshibir, Farmers scientist interaction,News paper coverage	18	62	38
3	Sugarcane-CON-13073	ICM	New and high yielding variety	FLDs Training, Field visit,Fieldday,Khedutshibir, Farmers scientist interaction,News paper coverage	07	12	10
4	Paddy-Hybrid	IPDM	Pheromone trap, Scipolure, Pseudomonas and Propergite	FLDs Training, Field visit,Field day,Khedutshibir, Farmers scientist interaction,News paper coverage	53	25	08
5	Cotton-G. cot. Hy. 8 B	IPM	Pheromone trap and Pectinolure	FLDs Training, Field visit,Field day,Khedutshibir, Farmers scientist interaction,News paper coverage	44	14	06
6	Pigeon pea-Vaishali	IPDM	Pheromone trap, Helilure and Trichoderma	FLDs Training, Field visit,Field day,Khedutshibir, Farmers scientist interaction, News paper coverage	62	23	05
7	Chick pea-GG 5	IPM	Pheromone trap, Helilure, Emamectin benzoate and Trichoderma	FLDs Training, Field visit,Field day,Khedutshibir, Farmers scientist interaction, News paper coverage	14	32	11
8	Okra- Hybrid (Radhika and Navya)	IPDM	Pheromone trap, Ervitlure, YST, Emamectin benzoate and Pseudomonas	FLDs Training, Field visit,Field day,Khedutshibir, Farmers scientist interaction, News paper coverage	33	25	05
9	Elephant Foot Yam-Gajendra	ICM	New and high yielding variety	FLDs Training, Field visit,Field day,Khedutshibir, Farmers scientist interaction,News paper coverage	65	30	03
10	Indian bean- GNIB 21	ICM	New variety	FLDs Training, Field visit,Field day,Khedutshibir,Farmers scientist interaction, News paper coverage	50	92	05
11	Indian bean- GNIB 22	ICM	New variety	Training, FLDs, FLD visit, Field Visit, Diagnostic visit, Method Demonstration, Scientist visit to farmers field, Plant health clinic, telephonic helpline etc	65	113	06
12	Brinjal-GAOB 2	ICM	New and high yielding variety	FLDs Training, Field visit, Field day, Khedut shibir, Farmers scientist interaction, News paper coverage, Seedling selling	35	81	08
13	Tomato- Arka	ICM	Introduction of new variety	FLDs Training, Field visit, Field day, Khedut shibir,	40	55	07

Sl. No.	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
	Rakshak			Farmers scientist interaction, News paper coverage, Seedling selling			
14	Little gourd- Deshi	INM	Effect of novel liquid nutrients	Training, FLDs, FLD visit, Field Visit, Diagnostic visit, Method Demonstration, Scientist visit to farmers field, Plant health clinic, telephonic helpline etc	39	29	03
15	Mango-Kesar	INM	Effect of Novel organic Liquid nutrient and bio fertilizers in Mango	FLDs, Training, Field visit, Field day, Khedut shibir, Farmers scientist interaction, News paper coverage, Input selling	65	35	05

Thematic areas as given in Table 3.1 (A1 and A2)

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
	Cereals									
1	Paddy (GR-16)	ICM	Improved Variety	*Kharif*-2020	04	02	10	-	10	Un availability of Seed
2	Paddy (GNR-7)	ICM	Improved Variety	*Kharif*-2020	10	10	25	-	25	--
3	Paddy (GR-17)	ICM	Improved Variety	*Kharif*-2020	10	10.5	26	-	26	--
4	Paddy (GRH-2)	ICM	Improved Variety	*Kharif*-2020	10	12	37	-	37	--
5	Finger millet-GN-8(Red)	ICM	Introduction of new variety	*Kharif*-2020	2	2	20	-	20	--
6	Paddy-Hybrid	IPDM	Pheromone trap, Scipolure, Pseudomonas and Propergite	*Kharif*-2020	4	4	10	-	10	--
	Pulses									
7	Pigeon pea-Vaishali	IPDM	Pheromone trap, Helilure and Trichoderma	*Rabi-2019*	4	4	10	-	10	--
8	Chickpea- GG 5	IPM	Pheromone trap, Helilure, Emamectin benzoate and Trichoderma	*Rabi-2019*	4	4	16	-	16	--
	Vegetable crops									
9	Elephant Foot Yam - Gajendra	ICM	Introduction of New Crop	*Kharif - 2020*	1.0	0.16	5	0	5	Unavailability of planting

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
										material
10	Indian bean- GNIB 22	ICM	New & High Yielding variety	*Late Kharif-2020*	2	2.16	54	0	54	--
11	Brinjal-GAOB 2	ICM	New and high yielding variety	*Rabi-2020*	2	2	20	0	20	--
12	Tomato- Arka Rakshak	ICM	Introduction of new variety	*Rabi-2020*	2	2	20	0	20	--
13	Little gourd- Deshi	INM	Effect of Novel Organic Liquid Nutrients	*Rabi-2020*	2	2	10	0	10	--
14	Okra- Hybrid (Radhika and Navya)	IPM	Pheromone trap, Ervitlure, YST, Emamectin benzoate and Pseudomonas	*Rabi-2019*	4	4	16	-	10	--
	Sugarcane									
15	Sugarcane-CON-13073	ICM	Improved Variety	Rabi-2020	02	02	5	-	5	--
	Cotton									
16	Cotton	IPDM	Pheromone trap and Pectinolure	*Kharif-2020*	4	4	10	-	10	--

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy (GR-16)	*Kharif*-2020	Irrigated	Medium Black	L	M	H	Fallow	15th June to 15th July,2020	15th Sept. to 10th Oct.,2020	1797	47days
Paddy (GNR-7)	*Kharif*-2020	Irrigated	Medium Black	L	M	H	Fallow	15th June to 15th July,2020	15th Sept. to 10th Oct.,2020		
Paddy (GR-17)	*Kharif*-2020	Irrigated	Medium Black	L	M	H	Fallow	15th June to 15th July,2020	15th Sept. to 10th Oct.,2020		
Paddy (GRH-2)	*Kharif*-2020	Irrigated	Medium Black	L	M	H	Fallow	15th June to 15th July,2020	15th Sept. to 10th Oct.,2020		
Sugarcane- CON-13073	Rabi-2020	Irrigated	Medium Black	L	M	H	Paddy	15th Nov. to 15th Dec.,2020	15th Feb. to 15th Mar.,2022		
Paddy -Hybrid	*Kharif-2019*	Irrigated	Medium black	L	M	H	Fallow	15th June to 15th July, 2019	15th Sept. to 10th Oct.,2019		
Pigeon pea (Vaishali)	*Kharif-2019*	Rain fed	Medium Black	L	M	H	Fallow	15th July to 30th July, 2019	1st Jan. to 30th Jan., 2020		
Chickpea (GG-5)	*Rabi-2019*	Rain fed	Medium Black	L	M	H	Paddy	15th Oct. to 15th Nov., 2019	15th Feb. to 15th Mar.,2020		
Okra- Hybrid	*Rabi-2019*	Irrigated	Medium black	L	M	H	Paddy	1st Dec. to 15th Dec..,2019	15th Jan., to 15th March, 20		
Cotton- G.Cot.Hy-8 (BG-II)	*Kharif-2019*	Rain fed	Heavy Black Soil	L	M	H	Fallow	15th May to 15st June, 2019	25th Nov.15th Dec, 2019		
Elephant Foot Yam – Gajendra	*Kharif - 2020*	Irrigated	Medium black	L	M	H	Fallow	15th May to 15thJune, 2020	15th March to 30th March 2021		
Indian bean-GNIB 22	*Late Kharif-2020*	Irrigated	Medium black	L	M	H	Paddy	15thOctober-15th November 2020	15th March to 15th April 2021		
Brinjal-GAOB 2	*Rabi-2020*	Irrigated	Light shallow & Medium black	L	M	H	Paddy	15th October- 15th November 2020	15th March to 15th April 2021		
Tomato- Arka Rakshak	*Rabi-2020*	Irrigated	Light shallow & Medium black	L	M	H	Paddy	15th October- 15th November 2020	15th March to 15th April 2021		
Little gourd-Deshi	*Rabi-2020*	Irrigated	Medium black	L	M	H	--	15th July to 15th August 2020	1st November 2020 (2-3 years crop)		
Finger millet-GN-8 (Red)	*Kharif*-2020	Rainfed	Medium Black	L	M	H	Fallow	20th June to 15th July,2017	16th Oct. to 10th Nov., 2020		

Technical Feedback on the demonstrated technologies

Sr. No.	Feedback
1	GNRH-2 rice hybrid variety is high yielding and resistant to pest and disease compare to prevailing private hybrids.
2	High yielding new variety of Sugarcane CON-13073 gave high return compare to old varieties.
3	GR-16 rice variety is suitable high yielding drill variety in rain fed area.
4	A new crop - Elephant foot yam get more profit & required less care and management compared to other crops
5	New variety of Indian Bean (GNIB-22) gave higher yield and quality as well as high returns compare to local varieties
6	Tomato cv. Arka Rakshak gave higher yield due to more in Tapi district
7	Brinjal var. GAOB-2 gave higher yield in Tapi district
8	Awesome result in growth, yield and quality of okra, little gourd, mango by the foliar application of Novel Organic Liquid Nutrient
9	Finger millet (variety: GN-8, red) gave higher yield as well as good fodder yield as compared to local variety.

Farmers' reactions on specific technologies

Sr. No.	Feedback
1	Paddy: GR-17: 15 days Early maturing medium grain variety. An alternative option against Gujarai variety. GRH-2: High yielding, Non lodging, Fertilizer responsive variety. Cheapest source of hybrid against private companies. It makes good quality of Chapati and rice.
2	Sugarcane variety CON-13073 gave higher yield as well as higher return. Number of internode and length of internode is higher. Due to straight growing it facilitates easy interculturing and intercropping and less damage by rodent.
3	Pheromone trap technology in gave good results with low cost.
4	Elephant foot yam get more profit & required less care and management compared to other crops
5	Indian bean Cv. GNIB-21 and GNIB-22 gave good result in terms of yield and quality as well as price compare to katargam papadi.
6	Foliar application of Novel Organic Liquid Nutrient reduce flower drop and increase yield in okra, brinjal and little gourd
7	Novel organic liquid fertilizer application two time at flowering and fruit setting stage gave high fruit setting and yield in Mango.
8	In Brinjal var. GAOB-2, get more profit due to higher yield and fruit skin is smooth & shiny.
9	Tomato var. Arka Rakshak gave higher yield as well as less disease incidence

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	21	17/01/2020, 28/02/2020, 16/03/2020, 08/10/2020, 03/10/2020, 05/10/2020, 13/10/2020, 14/10/2020, 15/10/2020, 16/10/2020, 23/11/2020, 24/11/2020, 26/11/2020	622	-
2	Farmers Training	21	07/01/2020, 08/01/2020, 09/01/2020, 10/01/2020, 12/02/2020, 27/05/2020, 10/06/2020, 11/06/2020, 27/08/2020, 03/10/2020, 06/10/2020, 13/10/2020, 15/10/2020, 21/10/2020, 23/10/2020, 07/11/2020, 09/11/2020, 10/11/2020, 24/12/2020	574	-
3	Media coverage	0	--	--	-
4	Training for extension functionaries	0	--	--	-

C. Performance of Frontline demonstrations

Frontline Demonstrations on Oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut																		
Groundnut (*Summer-2020*)	ICM	Improved seed	TG 37-A	25	10	21.00	14.21	19.80	13.65	45.05	39600	100782	61182	2.54	39000	69479	30478	1.78
Groundnut (*Kharif-2020*)	INM	Improvedseed+Sulphur +Rhizobium+PSB+Novel	TG 37-A	50	20	22.12	16.21	21.18	13.97	51.61	56976	131445	74469	2.30	53124	93340	40216	1.75
Sesamum																		
Sesame (*Summer-2020*)	ICM	Improved seed	GT-5	13	5	6.5	4.38	5.9	--	--	14500	38261	23761	2.6	--	--	--	--
Mustard																		
Niger																		
Linseed																		
Sunflower																		

Soybean																		
Soybean (*Kharif-2020*)	INM	Improvedseed+Sulphur +Rhizobium+PSB+Novel	NRC-37	48	19	23.00	15.31	18.70	13.94	34.14	38096	74356	36260	1.95	37462	55469	18007	1.48
Castor																		

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

** BCR= GROSS RETURN/GROSS COST

(Rs. 60/kg-Groundnut) (Check variety: J-11)

Front Line demonstration on pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Pigeonpea																		
Pigeon pea (*Kharif*-2020)	ICM	Improved seed	Vaishali	50	20	12.32	10.23	11.71	9.62	21.72	19400	67918	48518	3.5	18600	55796	37196	3.0
Pigeon pea (*Kharif*-2020)	ICM	Improved seed + Trichoderma	GT-104	50	20	14.02	10.02	12.48	9.95	21.02	20553	74880	54327	3.6	19840	59700	39860	3.0
Greengram																		
Green Gram (*Summer*-2020)	ICM	Improved seed	GM-6	50	20	9.21	6.50	8.15	6.7	21.64	15700	57458	41758	3.6	15400	47235	31835	3.0
Chickpea																		
Chick pea (*Rabi* -2019)	ICM	Improved seed	GG 5	50	20	13.8	9.1	11.6	8.8	31.8	18700	56550	37850	3.0	17600	42900	25300	2.4

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

** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
					High	Low	Average												
Cereals																			
Paddy (GR-16) *Kharif* 2020	ICM	Improved variety	10	02	39.00	32.40	36.50	29.10	25.4	-	-	31720	78620	46900	2.4	30524	63708	33184	2.0
Paddy (GNR-7) *(Kharif* 2020)	ICM	Improved variety	25	10	57.41	52.17	54.82	51.38	6.69	-	-	52417	115120	62703	2.1	51325	103820	52495	2.02
Paddy (GR-17) *(Kharif* 2020)	ICM	Improved variety	26	10.5	58.60	54.90	56.08	54.20	3.46	-	-	49853	118930	69077	2.38	48520	115396	66876	2.37
Paddy (GRH-2) *(Kharif* 2020)	ICM	Improved variety	37	12	66.20	56.00	62.10	52.31	18.7	-	-	54353	134748	80395	2.47	51210	114342	63132	2.23
Paddy-Hybrid(*Kharif*-2020)	IPDM	IPDM	10	4	43.8	35.4	39.1	34.4	13.66	-	-	34540	54720	20180	1.58	32200	46900	16800	1.46
Millets																			
Finger millet-GN-8 (Red)	ICM	Introduction of new variety	20	2	16.20	14.20	15.20	10.00	52.00	-	-	11530	30400	18870	2.63	9800	20000	10200	2.04
Horticulture																			
Vegetables																			
Ajwain AA-93 (*Kharif*-2019)	ICM	New & high yielding variety	10	3	7.84	4.43	6.43	5.90	8.98	-	-	17928	57828.90	39900.90	3.23	15558	57820	42262	3.72
Elephant foot yam-Gajendra*(Kharif*-2019)	ICM	Introduction of new crop: New & high yielding variety	7	0.0324	258.09	212.96	234.95	-	-	-	-	166542	540378	373836	3.24	-	-	-	-
Greater yam (*Kharif*-2019)	ICM	Introduction of new crop: New &high	7	0.0514	124.68	103.25	115.21	-	-	-	-	197250	748895.26	551645.38	3.80	-	-	-	-

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
					High	Low	Average												
		yielding variety																	
Indian bean GNIB-21 (*Late Kharif*-2019)	ICM	New variety	54	2	37.75	28.50	34.01	27.30	24.58	-	-	38460	119041	80580	3.10	32970	95550	62580	2.90
Indian bean-GNIB-22 (*Late Kharif*-2019)	ICM	New variety	52	2	43.75	31.88	37.32	27.30	36.70	-	-	38460	130636	92176	3.40	32970	95550	62580	2.90
Brinjal (*Rabi*-2019)	ICM	New & high yielding variety	20	2	190.80	162	176.82	150.03	17.87	-	-	81258	176820	95562.01	2.18	73767	150030	76263	2.03
Tomato-Arka rakshak (*Rabi*-2019)	ICM	New & high yielding variety	20	2	257.30	210.60	223.12	195.26	14.27	-	-	76798	223115	146317	2.91	69360	195255	125895	2.82
Little gourd (*Rabi* - 2019-20)	ICM	INM (Novel)	10	2	65.25	53.30	59.25	46.48	27.47	--	--	50380	148112.50	97732.51	2.94	46405	116208	69803	2.50
Mango-Kesar (*Summer*-2020)	ICM	INM (Novel)	10	2	65.00	58.08	61.04	51.14	19.36	--	--	58837.43	244144	185306.57	4.15	53825.21	204544	150718.79	3.80
Okra-Hybrid-Lavanya/Navya (*Rabi-2019*)	IPDM	IPDM	16	4	133.6	106	116.3	103.4	12.47	-	-	103480	348900	245420	3.37	109000	310200	201200	**2.85**
Commercialcrops																			
Sugarcane-(*CoN*-13073) *Rabi* 2019	ICM	Improved Variety	6	2	142.5	115.2	131	112	16.96	-	-	90235	373948	283113	4.1	86415	319200	232785	3.6
Cotton (*Kharif*-2019)	IPM	IPM	10	4	16	13	14.3	13.2	8.33	--	--	31650	71375	39175	2.26	32500	66000	33500	2.03

Frontline Demonstration on Nutri cereals

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Sorghum	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmers	No. of Units (Animal / Poultry/ Birds, etc)	Major parameters (Kg Body weight gain)		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demon.	Check		Demon.	Check	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Cattle																	
Increase in production performance of cattle	Nutrition management	Probiotic powder @ 15 gm /day for 60 days (Oral route)	20	20	7.9	6.9	14.55	--	--	220	312.49	92.49	1.42	205	271.78	66.78	1.33
Silage making for Green fodder conservation	Fodder management	Silage Bag (200 Kg Cap), Jaggery, Salt, Urea	20	20	8.1	6.9	16.74	--	--	219.7	332.19	112.59	1.51	205	272.79	67.79	1.33
Buffalo																	
Infertility management	Disease management	Trace element bolus with Clomiphen tablets	30	30	74	146	50.90	--	--	8902.37	17082.93	8180.57	1.92	17215.33	17082.93	132.40	0.99
Correction of negative energy balance	Nutrition management	Bypass fat @ 50 gm /day for 60 days (Oral route)	20	20	8.4	7.1	18.94	---	--	213.5	335.83	122.33	1.57	205	280.91	75.91	1.37
Prevention of Subclinical mastitis	Disease Management	Sodium Citrate Powder	50	50	8.1	6.8	18.11	--	--	255	358.71	103.71	1.41	205	269.55	64.55	1.31
Buffalo Calf																	
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Dairy																	
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Poultry																	
Sheep & Goat																	
Narrow spectrum anthelmentic for flukes	Disease Management	Triclabendazole tablets	20	80	16.8	14.2	15.20	--	--	12100	18458.55	6358.55	1.53	12000	15653.00	3653.00	1.30
Vaccination																	
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Feed back:

Bypass fat for buffalo- • Milk fat had been increased • Farmers get good sale rate at dairy	Probiotic powder for Cow • Milk fat & SNF was increased as well as milk production also • Farmers get good sale rate at dairy
Narrowspectrum anthelmentic for Goat • Reduce mortality rate • Due to faster growth rate goats were achieved early market weight	Fertility kit for buffalo • Service period was reduced • Reproduction cycle of animals became successfully maintained
Use of Silage bag for Cow • Milk yield was increased • Farmers get good sale rate at dairy	Prevention of Subclinical mastitis in Buffaloes • Milk yield was increased • Chances of mastitis in animals became reduced

FLD on Fisheries –Nil—

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Composite fish culture	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Feed Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

FLD on Other Enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom																
Oyster Mushroom (2019-20)	Oyster Mushroom cultivation	25	25	--	--	--	--	--	500	2125	1625	4.5	--	--	--	--
Button Mushroom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Apiculture	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Maize Sheller	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Value Addition	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Vermi Compost	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vermicompost (Summer: 2020) under Microbial-based agricultural waste management using vermicomposting-SAP	Preparation of Vermicompost with use of vermibed	10	10	4100	-	-	-	-	5470	20500	15030	3.74	--	--	--	---
Sericulture	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
kitchen gardening	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

***Critical input supplied:** Vermibed, earth worm- Eisenia fetida

Farm women's reaction:

1. Vermicompost is 100 percent organic which have no harmful chemicals. As the compost works on the plants, they become healthier and the need for pesticides is reduced.
2. It suppresses disease in plants, improves water retention and aeration.
3. It is highly profitable, both earthworms and compost are saleable.

FLD on Women Empowerment–Nil--

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonst-rated	No. of FW	Season	Major parameters	Field observation (output/man hour)		% change in major parameter	Labor reduction (man days) (man-h/ha)				Cost reduction (Rs./ha/day)	
									Threshing		Weeding		Labour***	
						Demo	Check		Demo	Check	Demo	Check	Demo	Check
Twin wheel hoe weeder for weeding	Vege./ Pulses	Women drudgery reduction	25	*Summer*-2020	-Field observation -Labour requirement -Cost of operation	0.014 ha	0.009 ha	55.55	-	-	71	111	1602	2492
Winnowing fan	conce-rned crops	Women drudgery reduction	5 SHGs/ women Groups (50 FW)	*Summer*-2020	-Field observation -Labour requirement -Cost of operation	705 Kg	99 Kg	612	1.4 man-h/ ton	10 man-h/ ton	-	-	138	712
Stalk Puller for uprooting crop stalks	Pigeon pea	Women drudgery reduction	50	*Summer*-2020	-Field observation -Drudgery parameters like physical hazards, muscle stress, fatigue	0.03 ha	0.019 ha	76.47	33	53	-	-	712	1246

Paddy Thresher	Paddy	Women drudgery reduction	5 SHGs/ women Groups (50 FW)	*Kharif*-2020	-Field observation -Labour requirement -Cost of operation	255Kg	61.0Kg	318.03	3 man-h/ ton	17 man-h/ ton	-	-	274	1551

Twin wheel hoe weeder is recommended by CIAE, Bhopal

*****Stalk puller is recommended by National Research Centre for Women in Agriculture Sub centre, CIAE, Bhopal

*Paddy thresher is recommended by AAU, Anand

**Cost of operation is calculated as per university labour wages and for paddy crop, as per an average yield of Tapi district: 4100kg/ha.

Farm women's reaction:

1. Twin wheel hoe weeder, paddy thresher, stalk puller and winnowing fan increase working efficiency in short period of time i.e. time saving as compared to local sickle/ traditional method.
2. Twin wheel hoe weeder,paddy thresher, stalk puller and winnowing fan reduce fatigue, muscle stress, wrist pain and pain in shoulders as compared to local sickle/ traditional method.
3. Farm women like Twin wheel hoe weeder and stalk puller because it avoids the bending/squatting posture that is generally adopted in traditional method of weeding/ uprooting crop stalks.
4. Additional benefit of earthing up with weeding by use of Twin wheel hoe weeder as compared to local sickle.

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
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FLD on Demonstration details on crop hybrids --Nil—

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Oilseed crop													
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Pulse crop													
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Cereal crop													
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Vegetable crop													
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Fruit crop													
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Other (specify)													
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3.4 Training Programmes

Farmers' Training including sponsored training programmes (On campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	2	0	0	0	38	65	103	38	65	103
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	1	0	0	**0**	43	7	**50**	43	7	**50**
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	2	0	0	0	34	61	95	34	61	95
Micro Irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	14	1	0	1	136	228	364	137	228	365
Soil & water conservatioin	0	0	0	0	0	0	0	0	0	0
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Water Management	2	0	0	0	38	5	43	38	5	43
Total	**21**	**1**	**0**	**1**	**289**	**366**	**655**	**290**	**366**	**656**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	8	0	120	120	57	79	136	57	199	256
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Household food security by kitchen gardening and nutrition gardening	5	1	16	17	0	213	213	1	229	230
Others (pl specify) Integrated Croping System	2	0	0	0	16	31	47	16	31	47

Total (a)	**15**	**1**	**136**	**137**	**73**	**323**	**396**	**74**	**459**	**533**
b) Fruits										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
c) Ornamental Plants										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)										
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0

Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Vermicompost production	0	0	0	0	0	0	0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**15**	**1**	**136**	**137**	**73**	**323**	**396**	**74**	**459**	**533**
III Soil Health and Fertility Management										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	2	0	0	0	18	22	40	18	22	40
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Balance use of fertilizers	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**0**	**0**	**0**	**18**	**22**	**40**	**18**	**22**	**40**
IV Livestock Production and Management										
Dairy Management	1	0	0	**0**	21	0	**21**	21	0	**21**
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	1	0	0	**0**	19	1	**20**	19	1	**20**
Disease Management	0	0	0	0	0	0	0	0	0	0
Feed & fodder technology	3	0	0	0	34	44	78	34	44	78
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**5**	**0**	**0**	**0**	**74**	**45**	**119**	**74**	**45**	**119**
V Home Science/Women empowerment										

Household food security by kitchen gardening and nutrition gardening	3	0	0	0	0	65	65	0	65	65
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing and cooking	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Women empowerment	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	4	0	0	0	5	126	131	5	126	131
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	**0**	0	0	**0**	0	0	**0**
Others (pl specify) Income generation activities for empowerment of rural women	1	0	4	**4**	0	26	**26**	0	30	**30**
Total	**8**	**0**	**4**	**4**	**05**	**222**	**227**	**05**	**226**	**231**
VI Agril. Engineering										
Farm Machinary and its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	1	0	0	0	9	2	11	9	2	**11**
Integrated Disease Management	1	4	0	4	7	0	7	11	0	**11**

Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Mushroom Production	4	5	0	5	71	133	204	76	133	209
Total	**6**	**9**	**0**	**9**	**87**	**135**	**222**	**96**	**135**	**231**
VIII Fisheries										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	1	0	0	**0**	0	10	**10**	0	10	**10**
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0

Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**1**	**0**	**0**	**0**	**0**	**10**	**10**	**0**	**10**	**10**
X Capacity Building and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Marketing	1	0	0	**0**	30	10	**40**	30	10	**40**
Others (pl specify)Storage loss minimization techniques	1	0	0	**0**	16	34	**50**	16	34	**50**
Others (pl specify) Climate Change	1	0	0	**0**	10	53	**63**	10	53	**63**
Total	**3**	**0**	**0**	**0**	**56**	**97**	**153**	**56**	**97**	**153**
XI Agro-forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**61**	**11**	**140**	**151**	**602**	**1220**	**1822**	**613**	**1360**	**1973**

Farmers' Training including sponsored training programmes (Off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	0	0	0	13	3	16	13	3	16
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0

Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Micro Irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	2	0	0	0	16	31	47	16	31	47
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	10	0	0	0	154	90	244	154	90	244
Soil & water conservatioin	0	0	0	0	0	0	0	0	0	0
Integrated nutrient management	3	0	0	0	168	98	266	168	98	266
Production of organic inputs	1	0	0	0	29	13	42	29	13	42
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**17**	**0**	**0**	**0**	**380**	**235**	**615**	**380**	**235**	**615**
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops	1	0	0	0	0	16	16	0	16	16
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Integrated Crop Management	2	0	0	0	51	44	95	51	44	95
(Others)Household food security by kitchen gardening and nutrition gardening	1	0	166	166	0	13	13	0	179	179
Total (a)	**4**	**0**	**166**	**166**	**51**	**73**	**124**	**51**	**239**	**290**
b) Fruits										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0

Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
c) Ornamental Plants										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

GT (a-g)	**4**	**0**	**166**	**166**	**51**	**73**	**124**	**51**	**239**	**290**
III Soil Health and Fertility Management										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	2	0	0	0	37	0	37	37	0	37
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Balance use of fertilizers	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**0**	**0**	**0**	**37**	**0**	**37**	**37**	**0**	**37**
IV Livestock Production and Management										
Dairy Management	4	0	0	0	100	89	189	100	89	189
Poultry Management	1	0	0	0	71	17	88	71	17	88
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Disease Management	5	0	0	0	61	89	150	61	89	150
Feed & fodder technology	10	0	0	0	165	63	228	165	63	228
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**20**	**0**	**0**	**0**	**397**	**258**	**655**	**397**	**258**	**655**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	35	35	0	10	10	0	45	45
Design and development of low/minimum cost diet	1	0	0	**0**	0	28	**28**	0	28	**28**
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0

Processing and cooking	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	1	0	0	**0**	0	35	**35**	0	35	**35**
Women empowerment	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	2	0	0	0	0	100	100	0	100	100
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	4	0	0	0	0	184	184	0	184	184
Others (pl specify) Income generation activities for empowerment of rural women	0	0	0	0	0	0	0	0	0	0
Others- Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
Total	**09**	**0**	**35**	**35**	**0**	**357**	**357**	**0**	**392**	**392**
VI Agril. Engineering										
Farm Machinary and its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	3	0	0	0	86	20	106	86	20	106
Integrated Disease Management	0	0	0	0	0	0	0	0	0	0
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Mushroom production	1	7	2	9	52	14	66	59	16	75

Total	**4**	**07**	**02**	**09**	**138**	**34**	**172**	**145**	**36**	**181**
VIII Fisheries										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	1	0	0	0	44	0	44	44	0	44
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	1	0	0	0	40	100	140	40	100	140
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**0**	**0**	**0**	**84**	**100**	**184**	**84**	**100**	**184**
IX Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0

Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X Capacity Building and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others (pl specify) ICM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	1	3	1	4	164	108	272	167	109	276
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**1**	**3**	**1**	**4**	**164**	**108**	**272**	**167**	**109**	**276**
GRAND TOTAL	**59**	**10**	**204**	**214**	**1251**	**1057**	**2308**	**1261**	**1261**	**2522**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	3	0	0	0	51	68	119	51	68	119
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	1	0	0	0	43	07	50	43	07	50
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	2	0	0	0	34	61	95	34	61	95
Micro Irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	2	0	0	0	16	31	47	16	31	47
Nursery management	0	0	0	0	0	0	0	0	0	0

Integrated Crop Management	24	1	0	1	290	318	608	291	318	609
Soil & water conservatioin	0	0	0	0	0	0	0	0	0	0
Integrated nutrient management	3	0	0	0	168	98	266	168	98	266
Production of organic inputs	1	0	0	0	29	13	42	29	13	42
Others (pl specify) Water Management	2	0	0	0	38	05	43	38	05	43
Total	**38**	**01**	**0**	**01**	**669**	**601**	**1270**	**670**	**601**	**1271**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	9	0	120	120	57	95	152	57	272	329
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Integrated Crop Management	4	0	0	0	67	75	142	67	75	142
Others (pl specify) Household food security by kitchen gardening and nutrition gardening	6	1	182	183	0	226	226	1	408	409
Total (a)	**19**	**1**	**302**	**303**	**124**	**396**	**520**	**125**	**755**	**880**
b) Fruits	0	0	0	0	0	0	0	0	0	0
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
c) Ornamental Plants										
Nursery Management	0	0	0	0	0	0	0	0	0	0

Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**Total**	**19**	**1**	**302**	**303**	**124**	**396**	**520**	**125**	**755**
III Soil Health and Fertility Management										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	2	0	0	0	37	0	37	37	0	37
Production and use of organic inputs	2	0	0	0	18	22	40	18	22	40
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0

Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Balance use of fertilizers	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**4**	**0**	**0**	**0**	**55**	**22**	**77**	**55**	**22**	**77**
IV Livestock Production and Management										
Dairy Management	5	0	0	0	121	89	210	121	89	210
Poultry Management	1	0	0	0	71	17	88	71	17	88
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	1	0	0	0	19	1	20	19	1	20
Disease Management	5	0	0	0	61	89	150	61	89	150
Feed & fodder technology	13	0	0	0	199	107	306	199	107	306
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**25**	**0**	**0**	**0**	**471**	**303**	**774**	**471**	**303**	**774**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	4	0	35	35	0	75	75	0	110	110
Design and development of low/minimum cost diet	1	0	0	0	0	28	28	0	28	28
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing and cooking	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	1	0	0	0	0	35	35	0	35	35
Women empowerment	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	6	0	0	0	5	226	231	5	226	231
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	4	0	0	0	0	184	184	0	184	184

Others (pl specify) Income generation activities for empowerment of rural women	1	0	4	4	0	26	26	0	30	30
Total	**17**	**0**	**39**	**39**	**5**	**574**	**579**	**5**	**613**	**618**
VI Agril. Engineering										
Farm Machinary and its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	4	0	0	0	95	22	117	95	22	117
Integrated Disease Management	1	4	0	4	7	0	7	11	0	11
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Mushroom Cultivation	5	12	2	14	123	147	270	135	149	284
Total	**10**	**16**	**2**	**18**	**225**	**169**	**394**	**241**	**171**	**412**
VIII Fisheries										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	1	0	0	0	44	0	44	44	0	44
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0

Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	1	0	0	0	40	100	140	40	100	140
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**0**	**0**	**0**	**84**	**100**	**184**	**84**	**100**	**184**
IX Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	1	0	0	0	0	10	10	0	10	10
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**1**	**0**	**0**	**0**	**0**	**10**	**10**	**0**	**10**	**10**
X Capacity Building and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Marketing	1	0	0	**0**	30	10	**40**	30	10	**40**
Others (pl specify)Storage loss minimization techniques	1	0	0	**0**	16	34	**50**	16	34	**50**

Others (pl specify) Climate Change	1	0	0	**0**	10	53	**63**	10	53	**63**
Total	**3**	**0**	**0**	**0**	**56**	**97**	**153**	**56**	**97**	**153**
XI Agro-forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	1	3	1	4	164	108	272	167	109	276
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	1	3	1	4	164	108	272	167	109	276
GRAND TOTAL	**120**	**21**	**344**	**365**	**1853**	**2277**	**4130**	**1874**	**2621**	**4495**

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

Nursery Management of Horticulture crops										
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	1	2	3	3	16	19	4	18	22
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Mushroom Production	5	37	15	52	44	86	130	81	101	182
Bee-keeping	1	0	0	0	17	0	17	17	0	17
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0

Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify) Health & Nutrition	0	0	0	0	0	0	0	0	0	0
Other (women and child care)	1	4	0	**4**	0	18	**18**	4	18	**22**
TOTAL	**8**	**42**	**17**	**59**	**64**	**120**	**184**	**106**	**137**	**243**

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

Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0

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

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

Nursery Management of Horticulture crops										
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	1	2	3	3	16	19	4	18	22
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Mushroom Production	5	37	15	52	44	86	130	81	101	182
Bee-keeping	1	0	0	0	17	0	17	17	0	17
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0

Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify) Health & Nutrition	0	0	0	0	0	0	0	0	0	0
Other (women and child care)	1	4	0	**4**	0	18	**18**	4	18	**22**
TOTAL	**8**	**42**	**17**	**59**	**64**	**120**	**184**	**106**	**137**	**243**

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

Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	2	11	2	13	39	7	46	50	9	59
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0

Women and Child care	11	0	0	0	7	432	439	7	432	439
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	1	0	0	0	10	1	11	10	1	11
Any other (pl.specify) Integrated Crop Management (Crop production)	1	6	2	8	34	6	40	40	8	48
Any other (pl.specify) Integrated Crop Management (Horticulture)	1	0	0	0	10	1	11	10	1	11
TOTAL	**16**	**17**	**4**	**21**	**100**	**447**	**547**	**117**	**451**	**568**

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

Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	1	19	0	19	35	18	53	54	18	72
Management in farm animals	0	0	0	0	0	0	0	0	0	0

Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	**1**	**19**	**0**	**19**	**35**	**18**	**53**	**54**	**18**	**72**

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

Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	2	11	2	13	39	7	46	50	9	59
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	11	0	0	0	7	432	439	7	432	439
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	1	19	0	**19**	35	18	**53**	54	18	**72**
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	1	0	0	0	10	1	11	10	1	11
Any other (pl.specify) Integrated Crop Management (Crop production)	1	6	2	8	34	6	40	40	8	48
Any other (pl.specify) Integrated Crop Management (Horticulture)	1	0	0	0	10	1	11	10	1	11
TOTAL	**17**	**36**	**4**	**40**	**135**	**465**	**600**	**171**	**469**	**640**

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	1	0	0	0	10	30	40	10	30	40
Commercial production of vegetables	6	0	120	120	38	33	71	38	153	191
Production and value addition										
Fruit Plants	0	0	0	0	0	0	0	0	0	0
Ornamental plants	0	0	0	0	0	0	0	0	0	0
Spices crops	0	0	0	0	0	0	0	0	0	0
Soil health and fertility management	0	0	0	0	0	0	0	0	0	0
Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Methods of protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (pl. specify) Household food security by kitchen gardening and nutrition gardening	4	0	0	0	0	203	203	0	203	203
Others (pl. specify) Integrated farming system	1	3	1	**4**	164	108	**272**	167	109	**276**
Total	**12**	**3**	**121**	**124**	**212**	**374**	**586**	**215**	**495**	**710**
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify) Mushroom production	4	6	0	6	43	141	184	49	184	233
Total	**4**	**6**	**0**	**6**	**43**	**141**	**184**	**49**	**184**	**233**
Farm machinery										
Farm machinery, tools and implements	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Livestock and fisheries										
Livestock production and management	3	0	0	0	70	70	140	70	70	140
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Animal Disease Management	0	0	0	0	0	0	0	0	0	0
Fisheries Nutrition	0	0	0	0	0	0	0	0	0	0
Fisheries Management	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)Fish processing & Value addition	1	0	0	**0**	40	100	**140**	40	100	**140**
Total	**4**	0	0	**0**	**110**	**170**	**280**	**110**	**170**	**280**
Home Science										
Household nutritional security	0	0	0	0	0	0	0	0	0	0
Economic empowerment of women	0	0	0	0	0	0	0	0	0	0
Drudgery reduction of women	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Agricultural Extension										
CapacityBuilding and Group Dynamics	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)Storage loss minimization techniques	**1**	0	0	**0**	16	34	**50**	16	34	**50**

Others (pl. specify)Marketing	**1**	0	0	**0**	30	10	**40**	30	10	**40**
Others (pl. specify)Climate Change	**1**	0	0	**0**	10	53	**63**	10	53	**63**
Total	**3**	0	0	**0**	56	97	**153**	56	97	**153**
GRAND TOTAL	**23**	**9**	**121**	**130**	**421**	**779**	**1200**	**430**	**900**	**1330**

Name of sponsoring agencies involved: ATMA-Tapi, ATMA-Navsari, SPARSH-Songadh, DAO-Tapi, FTC-Vyara, Kamdhenu University-Gandhinagar

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Commercial vegetable production	0	0	0	0	0	0	0	0	0	0
Integrated crop management	0	0	0	0	0	0	0	0	0	0
Organic farming	1	0	0	0	12	8	20	12	8	20
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	**1**	**0**	**0**	**0**	**12**	**8**	**20**	**12**	**8**	**20**
Post harvest technology and value addition										
Value addition	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Livestock and fisheries										
Dairy farming	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Poultry farming	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Income generation activities										
Vermicomposting	1	0	0	0	9	11	20	9	11	20
Production of bio-agents, bio-pesticides,	0	0	0	0	0	0	0	0	0	0

bio-fertilizers etc.	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery	0	0	0	0	0	0	0	0	0	0
and implements	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Mushroom cultivation	0	0	0	0	0	0	0	0	0	0
Nursery, grafting etc.	0	0	0	0	0	0	0	0	0	0
Tailoring, stitching, embroidery, dying etc.	0	0	0	0	0	0	0	0	0	0
Agril. para-workers, para-vet training	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	**1**	**0**	**0**	**0**	**9**	**11**	**20**	**9**	**11**	**20**
Agricultural Extension										
Capacity building and group dynamics	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	**2**	**0**	**0**	**0**	**21**	**19**	**40**	**21**	**19**	**40**

Details of trainings organized under ASCI: ---

1	**Title**	Organic Growers
	No. of candidates admitted	20
	No. of candidates assessed and qualified	18
	No. of hours	200 hours
	Important activities carried out	Lectures, Method demonstration, Film Shows, Exposure tour, Group meeting

2	**Title**	Vermicompost Producer
	No. of candidates admitted	20
	No. of candidates assessed and qualified	18
	No. of hours	200 hours
	Important activities carried out	Lectures, Method demonstration, Film Shows, Exposure tour, Group meeting

3.5 Extension Programmes

Activities	No. of programmes	No. of farmers			No. of Extension Personnel	TOTAL
		Male	Female	Total		
Advisory Services	128	1910	684	2594	12	2606
Diagnostic visits	40	61	24	85	17	102
Field Day	21	262	360	622	14	636
Group discussions	143	396	720	1116	32	1148
Kisan Ghosthi	06	150	88	238	16	254
Film Show	49	378	1323	1701	22	1723
Self Help Groups	0	0	0	0	0	0
Kisan Mela	0	0	0	0	0	0
Exhibition	0	0	0	0	0	0
Scientists' visit to farmer's field	50	247	146	393	14	407
Plant/Animal health camps	2	66	17	83	4	87
Farm Science Club	0	0	0	0	0	0
Ex-trainees Sammelan	0	0	0	0	0	0
Farmers' seminar/workshop	2	77	80	157	10	167
Method Demonstrations	77	582	892	1474	14	1488
Celebration of important days						
Celebration of Constitution Day (20/01/2020)	1	22	44	66	8	74
International Women's Day	1	0	180	180	**6**	186
Celebration of Vigilance Awareness week-2020 (27/10/2020 to 2/11/ 2020)	1	6	11	17	4	21
Celebration of World soil day (05/12/2020)	1	20	55	75	4	**79**
Celebration of KISAN DIWAS (23/12/2020)	1	0	20	20	4	**24**
Celebration of KISAN AND VIGYAN DAY (25/12/2020)	1	4	36	40	6	**46**
Special day celebration						
Mahila Kisan Divas (15/10/2020)	1	2	30	32	6	**38**
Women in Agriculture Day (04/12/2020)	1	0	26	26	8	**34**
Celebration of National Consumer Day (24/12/2020)	1	0	25	25	5	**30**
Exposure Tour	8	31	162	193	4	**197**
Total	**535**	**4214**	**4923**	**9137**	**210**	**9347**
Others (pl. specify)						
Guest lecture	37	4553	6920	11473	08	**11481**
Farmer's visit to KVK	118	1896	2328	4224	18	**4242**
Khedut shibir	08	277	224	501	14	**515**
Mahila shibir	04	5	157	162	6	**168**
Pashupalan Shibir	0	0	0	0	0	**0**
Farmers-Scientists Interaction	3	49	66	115	6	**121**
Extension literature distributed	9	69	70	139	12	**151**
Total	**179**	**6849**	**9765**	**16614**	**64**	**16678**
GRAND TOTAL	**714**	**11063**	**14688**	**25751**	**274**	**26025**

Details of other extension programmes

Particulars	Number
Electronic Media (CD/DVD)	00
Extension Literature (Folder)	00
News paper coverage	150
Popular articles	08
Radio Talks	01
TV Talks	01
Animal health camps (Number of animals treated)	83
Others (pl. specify)	00
Book chapter	01
Research papers	13
Research paper abstracts	00
Total	**257**

(Annexure –II is attached)

3.6 Online activities during year 2020

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webexetc)	Title of Program	No. of Programmes	No. of Participants/ Views
A	**Farmers/Farm women training**				
		Audio Conferencing	Scientific cultivation of Groundnut-NFSM-Oilseed-summer 2020 (Dial-out conference)	1	29
1		Audio Conferencing	Importance of Soil Testing (Dial-out conference)	1	49
2		Audio Conferencing	Importance of Soil Testing in field crops NFSM-Oilseed & Pulses-2020) Soybean-Groundnut, pigeon pea (Dial-out conference)	1	188
3		Audio Conferencing	Organic Farming (Dial-out conference)	1	42
4		Audio Conferencing	Scientific cultivation of green gram-NFSM-Pulses-Summer 2020 (Dial-out conference)	1	50
5		Audio Conferencing	Scientific cultivation of Indian bean (Dial-out conference)	1	64
6		Audio Conferencing	Terrace gardening (Dial-out conference)	1	179
7		Audio Conferencing	IPDM in summer vegetables (Dial-out conference)	1	64
8		Audio Conferencing	Mushroom cultivation (Dial-out conference)	1	75

9		Audio Conferencing	Dairy management in Summer (Dial-out conference)	1	49
10		Audio Conferencing	Feed and fodder management for dairy animals (Dial-out conference)	1	42
	Extension Functionarries Training				
		Audio Conferencing	Use of Information and Communication Technology in agriculture (Dial-out conference)	1	72
	Total			**11**	**903**
B	**Farmers scientist's interaction programme**				
	Total			**0**	**0**
C	**Farmers seminars**				
	Total			**0**	**0**
D	**Expert lectures**				
	Total			**0**	**0**
E	**Any other (Pl. specify)**				
	Khedut Shibir				
1		Audio Conferencing	Awareness about COVID-19 among farmers and Integrated pest and Disease management in sugarcane	1	120
2		Google meet	Awareness and Training programme on mushroom cultivation (Collaboration with KVK, Surat and CoA, Waghai)	1	110
				2	**230**
	Kisan Goshthi				
3		Google meet	Awareness regarding Farmers' bill 2020 among VLWs of Tapi	1	50
4		Google meet	Awareness regarding Farmers' bill 2020 (with collaboration of ATMA-Tapi)	1	73
	Total			**2**	**123**
	Grand Total (A+B+C+D+E)			**15**	**1256**

:Mega Events:

1. Celebration of Constitution Day (Date 20-01-2020 and 24-02-2020)

Celebration of Constitution Day programme organized on date 20th January, 2020 at Krishi Vigyan Kendra-Vyara (Tapi). Total 66 farmers of Tapi district and Officials were remain present during programme. At the beginning Dr. C. D. Pandya, Senior Scientist & Head, gave welcomed speech and guided farmers about importance of constitution. Dr. V. K. Panday Deputy Director, Udaybhansinhji regional Institute of co-op. management, Dr. Alok Sharma, Lecturer, Udaybhansinhji regional Institute of co-op. management, Shree Kailash Naik, Advocate and Shree Purvesh Chaudhari, Advocate and all KVK Scientist remain present and explain about important amendment act and Agriculture acts in post WTO era. At the end of programme reading of preamble and taking pledge by all the participants and officials were taken.

Constitution Day celebrated at Krishi Vigyan Kendra, Vyara (Tapi) on the date 24th Febuary, 2020 at training hall, Krishi Vigyan Kendra, Vyara (Tapi). Dr. C. D. Pandya, Senior Scientist & Head, explained importance of Constitution Day. Shree Kailash Naik, Advocate-Vyara explained about Constitution and Citizen duties and Land legislation. All the KVK Scientists were remain present during program. Total 49 Farmers of Mohini, Karod, Titva, Beldha, Dholka, Chalkdhara Village of Tapi district were remain present in program. Total 57 participants present during Celebration of Constitution Day at KVK, Vyara, Tapi.

2. Workshop On "Bagayat ek Udhyog"

A one day workshop and awareness programme was organized at KVK-TAPI (VYARA) on 20th February, 2020 in collaboration with National Horticulture Board-Ahmedabad in presence of chief Guest Hon'ble Sub District Magistrate- Tapi, Shri. Hitesh Joshi. Dr. C. D. Pandya, Senior Scientist & Head, KVK-TAPI,Shri. Lakshman Singh, Deputy Director-NHB, Ahmedabad, Shri. Nikunj Patel, DDH-TAPI, Shri.Anil Purohit, DDM-NABARD, Dr. Sanjeev Kumar, Assistant professor, ACHF, NAU, Navsari, Shri.Sandip Panchal, Officer-GGRC, Shri. V. Phanidhar, BoB, Branch Manager, Kanpura and Shri. B. D. Chaudhri, BoB, Bank Manager, Vyara were remained present. Total 135 farmers of Tapi district were actively participated in the workshop.

3. Dial-out Conference during Lockdown

During lockdown situation due to COVID-19, it is not possible for farmers to visit Krishi Vigyan Kendra, Vyara. Therefore, Krishi Vigyan Kendra-Vyara, Dist. Tapi (Gujarat) with collaboration of Reliance foundation and under the guidance of **Dr. G. R. Patel, Director of Extension Education,** NAU, Navsari organized dial-out conference (online off campus training) to provide agricultural information for farmers.

Krishi Vigyan Kendra-Tapi in collaboration with **Reliance Foundation** organized total **15 dial-out conference** (online off campus training) from date 23rd March 2020 to 30th June 2020 regarding scientific cultivation of groundnut, scientific cultivation of green gram, scientific cultivation of Indian bean, IPDM in summer vegetable crops, importance of soil sampling, dairy management for milking animals in summer season, community health and nutrition and basic protective measures against corona virus, mushroom cultivation, organic farming, Scientific management in poultry farming, Scientific cultivation of paddy and benefited total **1231 farmers** of **Tapi district**. Krishi Vigyan Kendra-Tapi organized dial-out conference for **72 Village Level Extension Workers** (*Gram Sevak*) of Tapi on the Use of Information and Communication Technology (ICT) during the lockdown period.

Krishi Vigyan Kendra, Vyara guided farmers during lockdown period by **14text messages through m-kishan portal***like* the plant protection measures in groundnut crop, scientific cultivation of watermelon, dairy management in summer season, COVID-19 situation for live

stock handler, Aarogya setu and Kishan Rath application, Helpline numbers issued by Government of India, importance of pheromone trap in fruit crops to **142506 farmers of Tapi** district.

Krishi Vigyan Kendra, Vyara in the collaboration with Reliance Foundation sent total **4 audio messages** on prevention measures of corona virus, Importance of Aarogya Setu application and Kishan Rath application and Information related to Animal Health to **19560 farmers of Tapi** district and through whatsapp sent same messages in 6 groups and benefited total 235 progressive farmers.

4.Farmers Scientist Interaction

A Farmer Scientist Interaction was held on 4th March, 2020 at FTC, Vyara in collaboration with KVK Scientists. Dr. A. J. Dhodia, Scientist (Agricultural Extension) interact with farmers on farmers oriented activities by KVK and encourage farmers to adopt advanced technologies in agriculture. Dr. J. B. Butani, Scientist (Animal Science) interacts with farmers on different steps to be followed in dairy farming and dairy management practices for increase milk production. Total 55 farmers of Songadh, Valod, Dolvan and Vyara block were remaining present.

5. Celebration of International Womens Day

KVK, Tapi has celebrated 'International Women's Day' at Dolvan on 8th March, 2020. Total 180 tribal farm women from Dolvan block were actively participated in programme. Smt. Jasuben Chaudhari, Field officer, Dakshin Gujarat Vikash Sanstha (DGVS) gave presidential address and encouraged tribal women to join with KVK for their agricultural, social and economic upliftment. Dr. C. D. Pandya, Senior Scientist & Head, KVK, Tapi gave valuable speech on importance of International Women's day and role of women in agriculture. Prof. Arti N. Soni, Scientist (Home Science) delivered lecture on 'Nutritional kitchen gardening and sickle cell anemia & its control measures. Dr. S. M. Chavan, Scientist (Plant protection) guided farm women to generate income through mushroom cultivation. At end of the programme, vote of thanks given by Dr. A. J. Dhodia, Scientist (Extension Education). The said programme was anchored by Prof. K. N. Rana, Scientist (Agronomy).

6. State level Webinar on 'Kitchen garden and Terrace garden'

Krishi Vigyan Kendra, NAU, Vyara, Dist. Tapi has organized State Level Webinar on 'Kitchen garden and Terrace garden' through Google meet on 20th August, 2020 in collaboration with *RASHTRA SEVIKA SAMITI*, Vyara & Navsari. Total 45 urban and rural women were actively participated in programme. During the programme, Shri. Prabhubhai Vasava, Hon'ble MP-Bardoli gave presidential speech on importance of kitchen garden/ Terrace garden along with medicinal plants at household level in COVID-19 situation. Dr. K. A. Patel, Director of Extension Education, NAU, Navsari gave valuable speech on benefits of kitchen garden on human health. Dr. C. D. Pandya, Senior Scientist & Head, KVK, Tapi gave welcome address and said the advantages of State Level Webinar regarding kitchen & terrace gardening in present COVID -19 condition.

During technical session, Dr. C. K. Timbadia, Senior Scientist & Head, KVK, NAU, Navsari explained the importance of organic kitchen garden and gave detail information on vermicompost, castor cake, *Neem* oil, goat manure, *PANCHGAVYA*, cow urine. Prof. Arti N. Soni, Scientist (Home Science), KVK, Tapi gave detail information on importance of vegetables in daily diet, seasonal fruits & vegetable crops, NAU kitchen garden layout, *GANGAMA* kitchen garden model and explained about negative effect of excessive use of chemical fertilizers & pesticides on human health, organic liquid fertilizers such as Azotobactor, PSB, Potash mobilizer, Novel organic liquid nutrients as well as fruit fly trap and yellow sticky trap for pest & disease management. Dr. Dharmishtha M. Patel, Scientist(Horticulture), KVK, Tapi elaborated the advantages of terrace gardening, different

types of pot, polybag, tools & equipments, growing media, media preparation, raising of seedlings at home, nutrient management and pest & disease management.

Smt. Kalyaniben D. Pandya, Social worker, RSS, Tapi emphasized on kitchen garden and terrace garden for inspiring women participants towards use of chemical free and fresh vegetables at their home. At the end of programme, vote of thanks was proposed by Prof. Arti N. Soni, Scientist (Home Science).

7. KVK, Tapi and Animal Husbandry department jointly organized an Animal Treatment Camp at Ghuntvel village of Songadh block

Krishi Vigyan Kendra, Navsari Agricultural University, Vyara, Dist. Tapi in collaboration with Animal Husbandry department jointly organized an animal treatment camp at Ghuntvel village of Songadh block on 21st October, 2020. Total 37 livestock keepers from Ghuntvel village were enthusiastically participated in this camp. Moreover, different types of treatment for about 107 dairy animals, such as reproductive defects, pregnancy diagnosis, ecto-parasitic problems, reduction in milk production etc was successfully resolved by Dr. V. K. Parmar, Veterinary Officer, Songadh block and his team. During this camp, Dr. J. B. Butani, Scientist (Animal Science) discussed in detail with villagers about the importance of this type of veterinary treatment camp and its benefits. As well as calling for more and more livestock keepers to join such type of animal treatment camps. This whole camp was successfully managed by the village leader and chairman of village dudh Mandali, Shri Thakorbhai Gamit.

8. Celebration of 'World Fisheries Day' in collaboration with COE, Kamdhenu University and Fisheries Dept., Tapi

On the occasion of 'World Fisheries Day', a one-day seminar on 'Potential of Ornamental backyard fish culture in Ukai' was jointly organized by Centre of excellence, Kamdhenu University, Ukai, Office of Assistant Director of Fisheries, Ukai and Krishi Vigyan Kendra, NAU, Vyara, Dist-Tapi on 21st Nov.2020. Shri Sameerbhai Ardeshana, Assistant Director of Fisheries, who presided over the program, gave information about the schemes related to fisheries run by the Central and State Governments under Pradhanmantri Matsya Sampada Yojana. The chief guest of the program, Dr. C. D. Pandya, Krishi Vigyan Kendra, Vyara urged the fishermen to attend such programs and take maximum advantage of the schemes of the Government. At the beginning of the program, Dr. Smit Lende, Assistant Professor, Kamadhenu University welcomed the guests and explained the importance of the programme. Mr. Ashokbhai Gamit, a progressive fisherman from Selud village, shared his experiences of the fishery business with the fishermen. In this event, KVK Scientist Dr. J. B. Butani was also present and guided the fishermen. Mr. Rajendra Shingala, Fisheries Superintendent proposed the vote of thanks and the program was declared complete. 60 fishermen from different villages of Tapi district were enthusiastically participated in the program.

9. Celebration of 'National Milk Day' by organizing Animal Health Camp in Maiyali village

26th November is celebrated all over India as 'National Milk Day' to mark the Birth Anniversary of Dr. Varghese Kurien, Father of White Revolution. In this regards Krishi Vigyan Kendra, NAU, Vyara, Dist.-Tapi organized Animal Health Camp in collaboration with Mahila Samakhya-Tapi and Veterinary Hospital, Songadh at Maiyali village of Songadh block. Total 46 livestock keepers from Maiyali village were enthusiastically participated in this camp. Moreover, different types of treatment such as reproductive defects, pregnancy diagnosis, ecto-parasitic problems, reduction in milk production etc for about 132 dairy animals were successfully resolved by Dr. V. K. Parmar, Veterinary Officer, Songadh block and his team. In addition, about 40 goats were also given deworming drugs. The *Sarpanch* of

the village Mrs. Ankitaben Gamit was present in this camp and encouraged livestock keepers to participate in the camp. During this camp, Dr. J. B. Butani, Scientist (Animal Science) discussed in detail with villagers about the importance of this type of animal health camp and its benefits. Mrs. Kanaklataben Rana, District Coordinating Officer, Mahila Samakhya-Tapi and her team worked hard to make this animal health camp successful.

10. Farmers' Bill 2020

To create the awareness and understanding about the benefits of **Farmers' Bill 2020** among the farmers of Tapi district, Krishi Vigyan Kendra Tapi organized total **7** different extension programmes namely Webinar, Kishan Goshthi, film show, Guest lecture, Khedut shibir, Mahila Shibir and **total 306** (Male:171, Female:135) participants were actively participated in above said programmes during the month of **November** 2020. One Short Text message regarding Farmers' Bill 2020 was sent through m-Kisan portal to the 11113 farmers of Tapi district.

11. Technology Week Celebration-2020"

(1st December to 7th December 2020)

Krishi Vigyan Kendra, Tapi Organized Technology week during 1st December to 7th December 2020. Sr. Scientist and Head Dr. C. D. Pandya inaugurate the "Technology Week Celebration-2020" programme and explained the importance of programme. All the Scientists of KVK Tapi involve in Technology Week Celebration and provide guidance to farmers of Tapi district about various topics *i. e.*Ideal Dairy Management, Farmers' Bill 2020, Nursery Management in Rabi Crops, Role of Women in Agriculture, Soil Health Management and IPDM in Rabi Crops. Total 232 farmers of Tapi districts were actively participated in Technology Week Celebration 2020.

12. Celebration of *Swachhata Pakhwada*

KVK, Tapi was celebrated '*Swachhata Pakhwada*' from 16th December, 2020 to 31st December, 2020. Awareness programmes, meeting, *MahilaGoshthi* were organized on various subjects such as community health, sanitation & hygiene, vermicompost preparation, water harvesting for agriculture, kitchen gardening and Swachhata Shramdan, cleaning of KVK premises, cleaning of KVK farm, mask distribution and taking Swachhata pledge during celebration. Deputy DDO-Tapi, DEE-Kamdhenu university, Secretary-Dr.Ambedakar Vanvasi Kalyan Trust, Senior Scientist & head, KVK, Tapi and all Scientists of KVK, Tapi were present and gave valuable guidance to farmers/ farm women in different activities during celebration. Total 686 tribal farmers, farm women and Anganwadi workers were actively participated in programme.

3.7PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs.)	Number of farmers
Cereals	Paddy*(Summer -2020)*	GNR-3	--	26.555	82836	106
	Paddy (*Kharif*-2020)	GNR-6	--	12.85	40092	--
		GNR-7	--	7.40	23088	--
		GNR-3	--	29.50	92040	20
		Jaya	--	13.80	43056	09
		Sardar (GR-17)	--	23.10	72072	54
		Mahisagar	--	0.30	936	--
Oilseeds	Mustard	--	--	0	0	
Pulses	Chickpea (*Rabi-2019-20*)	GG-5	--	15.00	105000	60
	Greengram (*Summer-2020*)	GM-7	--	2.50	22500	55
	Blackgram	--	--	0	0	
			Total	**131.005**	**481620**	
Commercial crops	Sugarcane (*Rabi-2019*)	CoN13073	--	21 tonnes	63000	08
Vegetables	--	--	--	--	--	--
Flower crops	--	--	--	--	--	--
Spices	--	--	--	--	--	--
Fodder crop seeds	--	--	--	--	--	--
Fiber crops	--	--	--	--	--	--
Forest Species	--	--	--	--	--	--
Others	--	--	--	--	--	--

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial	-	-	-	-	-	-
Vegetable seedlings	Brinjal	GAOB-2		48022	44697	699
	Tomato	Arka Rakshak		36808	36808	711
	Chilli green	Eagle		39486	39486	660
	Cabbage	Pusa Drumhead		11440	10937.5	235
	Cauliflower	Doctor, Dhaval	--	36699	23014.5	81
	Broccoli			7845	7845	239
	Bittergourd	Local	--	395	1580	366
	Bottlegourd	Local	--	498	1992	35
	Little gourd	Local	--	3305	40265	320
	Pointed gourd		--	2	20	2
	Ridge gourd	Local		58	232	26
	Sponge gourd	Local		50	200	25
	Drumstick	PKM-1, ODC-3	--	543	9755	53
			Total-A	**185151**	**216832**	**3452**
Fruits	Cashew	Vengurla-4		4	80	3
	Mango	Epicotyl Grafting	--	51	2550	4
	Dragon fruit	Red x White		128	5120	26
	Guava	Local		1	20	1
	Lemon	Seedless		3	120	1
			Total-B	**187**	**7890**	**35**
Ornamental plants	-	-		1079	3490	38
Medicinal and Aromatic	Brahmi, Ajwain	-	-	23	184	8
Plantation	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Tuber	-	-	-	-	-	-
Fodder crop saplings	-	-	-	-	-	-
Forest Species	Saptparni	-	-	10	50	1
Others	-	-	-	-	-	-
			Total-C	**1112**	**3724**	**47**
			Total (A + B+ C)	**186450**	**11614**	**3534**

Production/supply of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilizers	Novel	903	117390	277
	Novel Plus	104	13520	22
	Azatobactor	49	5880	18
	PSB (Phosphorus Solubilising Bacteria)	245	29400	215
	KMB (Potash Mobilizing Bacteria)	37	4440	12
	Azospirilum	4	480	3
	Rhizobium	218	26160	206
Bio-pesticide	Pseudomonas	257	17990	210
Bio-fungicide	Trichoderma	275	33000	77
Others	Vermicompost	5376	32256	20
	Earthworm	89.5	26850	43
	Methyl Eugenol Trap	6	300	1
	Culure trap	605	42350	108
	Culure block	22	1100	3
	Waste Decomposer	10	210	10
	Trichocard	165	2475	165
Total		**8355.5**	**353591**	**1390**

Table: Production of livestock materials

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

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

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

B. Literature developed/published

Item	Title	Authors name	Number
Research papers	**Details of Publications are given in *Annexure-II***		13
Technical reports			10
News letters			00
Technical bulletins			00
Popular articles			08
Extension literature (Folder)			00
Others (Pl. specify)			0
Research paper abstracts			0
Book chapter			1
Newspaper coverage			150
TOTAL			**181**

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
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D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel	**KVK VYARA**	**1170**
2	Facebook page/ Account	**KVK Tapi**	**5000**
3	Mobile Apps	--	--
4	WhatsApp groups	**6**	**238**
5	Twitter Account	**TAPI KVK**	**38**
6	Any other (Pl. Specify)	--	--

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

SUCCESS STORIES:

1 Entrepreneurship development through Herbal hair oil: A case of tribal woman

Introduction:

Women play an important role in the development of Nation. As per our constitution men and women both are treated equally. However, in reality women lag behind socially as well as economically. Poor economic condition is responsible for this. Not only that illiteracy, malnutrition, low income are also inhibiting to remove the drudgery reduction in general and in tribal areas particular. If we want to empower the women in proper way the key features-work potential, knowledge and skill should be the utmost priority. This will facilitate the tribal women work force with effective remuneration. As a result the livelihood will be secured. In this alarming situation the implementation of need based activities should be emphasized as per the availability of local resources. Its fact that in tribal areas, the resources are always scarce. In this type of situation women bound to work with low wages, migrating in search of job etc.

In view of this there are various programmes and schemes being implemented by the government as well as private sector agencies. Krishi Vigyan Kendra, NAU, Vyara, Dist.Tapi also organized various training programmes, Front line demonstrations and awareness programmes to improve the knowledge and skill of the tribal women for their socio-economic empowerment.

KVK Intervention:

In the year 2008-09 the village Kapura, block:Vyara, Dist.Tapi was adopted to organize various extension activities. In this village a tribal woman named Smt.Induben Ramanbhai Gamit lived in Devalpada Street. She is illiterate but confident and courageous lady.She has land of 0.24 ha with Animal husbandry occupation (Three cows). Her economic condition was not enough to secure their livelihood. At that time she and her family members were compel to go for labour work. During this period she visited the Krishi Vigyan Kendra and came to know about the various activities of the KVK and discussed about her problems with KVK Scientists.

After that she joined training programmes on the subject of Animal husbandry, Crop production, Home Science etc. These training programmes were enough to motivate her to do something new to improve their economic condition. As a result she decided to start some work with the utilization of available resources. The Scientist of Home Science suggested her to make herbal hair oil. So she joined a three days off campus training programme at their Kapura village during March, 2017 which was organized by KVK, Tapi. After participating in training programme she started to make Ayurvedic Herbal hair oil by using ingredients such as Coconut oil, Gingelly seed oil, Castor oil, Amla, Bottle gourd, *Bhrungraj, Brahmi,* various Ayurvedic *Churan (Jatamasi, Ghodavaj, Nagarmotha, Jethimadh, Anantmul,),* curry leaves, *Jharan,* Alovera, Neem leaves, Hibiscus, Henna leaves. The details of ingredients used in herbal hair oil and their beneficial effect on health are as under.

Details of Herbal hair oil ingredients and their beneficial effect

Sr. No.	Ingredientsfor Herbal hair oil				Beneficial effect on human health
	Gujarati Name	English Name	Botanical Name	Parts Used	
1	તલનુંતેલ	Sesame oil	*Sesamum indicum*	Seed kernel oil	Promotes hair growth, treats premature graying, protects hair from harmful UV rays, soothing properties, combats hair loss due to stress
2	કોપરેલ	Coconut oil	*Cocos nucifera*	Seed kernel oil	Coconut oil contains anti-fungal and anti-bacterial properties that help protect against any bacterial problems that can inhibit hair growth. It helps provide overall nourishment to your hair and scalp. Coconut oil is known to act as a natural conditioner that helps keep your hair soft and shiny.
3	દિવેલ	Castor Oil	*Ricinus communis*	Seed kernel oil	Prevents hair fall, it contains ricinoleic acid and omega-6 fatty acids and therefore when massaged onto the scalp it helps in increasing the blood circulation which improves hair growth.

Sr. No.	Ingredientsfor Herbal hair oil				Beneficial effect on human health
	Gujarati Name	English Name	Botanical Name	Parts Used	
4	આંબળા	Indian Gooseberry (Amla)	*Emblica officinalis Linn Pennel*	Fruit	Strengthen hair follicles &condition hair, promote hair growth and help treat dry, itchy scalp and dandruff.
5	દૂધી	Bottle gourd	*Lagenariasic eraria*	Fruit	It is actually excellent for maintenance and improvement of hair. Known for its natural cooling effect and Promote hair growth,beneficial f or controlling hair fall. It is a good source of many nutrients like zinc, iron, copper, iron, Vitamin E etc. that provides nourishment to our scalp and hair follicles.
6	ભાંગરો	Bhringraj	*Eclipta alba*	Plant	Helps in treating dry scalp &baldness, Promoting hair growth, help in reducing stress and stress-related hair loss, prevents greying of hair
7	બ્રાહ્મી	Thyme leafed gratiola)Brahmi(	*Bacopa monnieraPe nnel*	Entire Plant	It is an excellent hair growth promoter. It has regenerative properties help repair hair follicles as well as strengthen the scalp tissue to encourage healthy hair growth and reduces hair loss.
8	કડવાલીમડાનાંપાન	Neem	*Azadirachtai ndica*	Leaves	Promotes hair growth, conditions dry- undernourished hair, anti-fungal properties, keeps your scalp healthy.
9	મહેંદીના પાન	Henna	*Lawsoniaine rmis*	Leaves	Improves scalp health, conditions your hair, repair damage and strengthens hair, promotes hair growth and curbs hair loss.
10	જટામાંસી	*Jatamansi*	*Nardostachy s jatamansi*	Plant	Promote hair growth, helps for smooth, silky and healthy hair, reduce stress
11	જેઠીમધ	*Jethimadh*	*Glycyrrhiza glabra*	Root	Promotes regeneration processes and supports wound healing, help in soothing the scalp.
12	અનંતમૂળ	*Anantmool*	*Hemidesmus indicus*	Leaves	Hair growth, hair fall and adds nutrition to it.
13	નાગરમોથ	*Nagarmoth a*	*Cyperusrotu ndus*	Leaves	Helps in washing off dandruff, cleanses the dirt and dust from the scalp. It supplies the proper amount of nutrients to

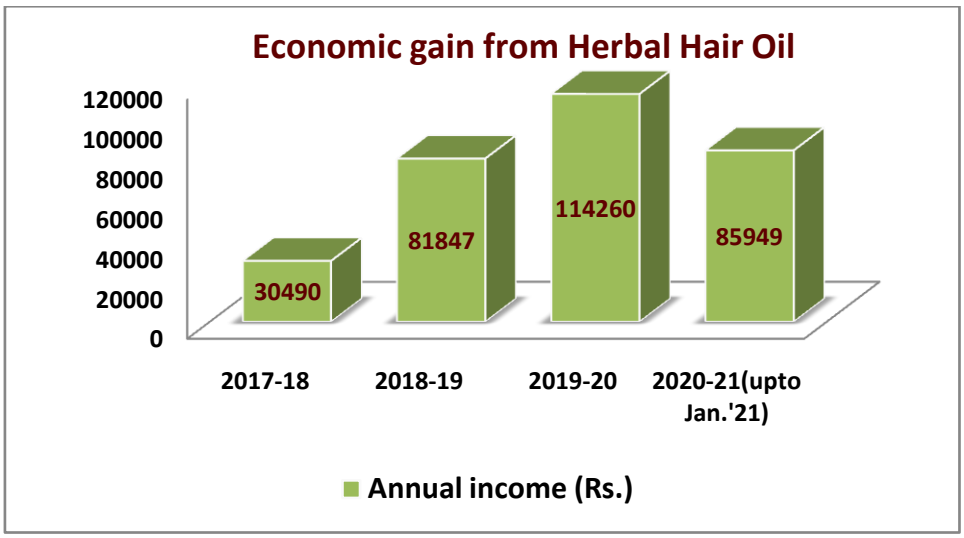
Sr. No.	Ingredientsfor Herbal hair oil				Beneficial effect on human health
	Gujarati Name	English Name	Botanical Name	Parts Used	
					the hair and the scalp and helps in the healthy growth of hair.
14	ઘોડાવજ	Vacha	*Acoruscalmus*	Roots	Improve blood circulation and mitigates the inflammation
15	જાસુદ	*Jasud*	Hibiscus rosa-sinensis	Flowers	Improves the blood circulation under the scalp to stimulate healthy hair growth, makes hair smooth and shiny, cleanses hair, deep conditions hair, treats dandruff and itchiness in the scalp, combats hair loss
16	કુંવારપાઠું	Aloes	*Aloeavera*	Leaf	It contains proteolytic enzymes which repairs dead skin cells on the scalp. It also acts as a great conditioner and leaves your hairsmooth and shiny. It promotes hair growth, prevents itching on the scalp, reduces dandruff and conditions your hair.
17	જરણ	*Jharan*	-	Hair oil fragrance compound	Pure quality, non-toxic and smoothing & mystique fragrance
18	મીઠાલીમડાનાપાંન	Curry Leaves	*Murrayakoenigii*	Leaves	Curry leaves are rich source of beta-carotene and proteins,which can reduce hair loss and increase hair growth. They also contain amino acids and antioxidants which strengthen the hair follicles and moisturise the scalp.

Output:

Smt.Induben Gamit has started selling herbal hair oil since April, 2017 with use of local market/ religious contact/ social contact/ Self Help Groups or Sakhi Mandal members.From April, 2017 to January, 2021 she earned Rs. **3,12,546**/- from selling the herbal hair oil. Details are as under.

Economic gain through Herbal hair oilpreparation

Details	Year				
	2017-18	2018-19	2019-20	2020-21 (upto Jan.'21)	Grand Total
Total Production (Liter)	102.5	200.0	220.0	149.9	**672.4**
Gross income (Rs.)	66800	142110	190350	140194	**539454**
Total cost (Rs.)	36310	60263	76090	54245	**226908**
Net income (Rs.)	30490	81847	114260	85949	**312546**



To enhance the marketing platform, KVK,Tapi and KVK, Navsari has provided counter selling support at KVK campus itself on behalf of Smt. Induben Gamit. On the *Megha* event such as *Khedut shibir*, *Mahila shibir*, *Krishi Mela*, Agri. Exhibition, *Sammelan*, Seminar etc. KVK, Tapi always allots stall for selling and marketing of herbal hair oil to her. To give the vast marketing support in the society for organic growers, Hon.Collector, Tapi has allotted open shops (Tants) at the entrance of Jilla Sewa Sadan, Tapi thrice in a week (Monday, Thursday and Saturday) to motivate, to encourage, to develop further entrepreneurship in the organic product field. On request of KVK, Tapi to Hon.Collector of Tapi, Smt. Induben Gamit has given counter selling support at the above mentioned place.

Impact (Horizontal spread):

Smt. IndubenRamanbhaiGamit is now self employed and her family do not need to go for labour work anymore. She has proved herself a successful entrepreneur. She is the member of KVK SHG and also associated with *SHAKTIKANUNI SAHAY KENDRA-Songadh*, *KHEDUT* Co-operative Society, AADIVASI SARVANGI VIKAS SANGH-Vyara and other line department of Tapi district. She is working as Farmer's friend in ATMA, Tapi. Her success inspired other tribal women to start employment generating activities. Not only that some of women help her in marketing the herbal hair oil in villages. After positive results of Smt. Induben R. Gamit, total **76** tribal women from different villages of Tapi district has trained by KVK, Tapi and from that **38** tribal women have started to make herbal hair oil. Details regarding income generation are as under.

Income generation by tribal women through Herbal Hair Oil preparation

Sr. No.	Village	Block	No. of Women Entrepreneur	Total Herbal Hair Oil Production (Liter)	Total Income (Rs.)
1	Borakhadi	Vyara	8	41	32800
2	Dhat	Vyara	4	191	152800
3	Mirpur	Vyara	1	10	8000
4	Ukai	Songadh	1	12	10800
5	Songadh	Songadh	10	265	265000
6	Gatadi	Songadh	7	25	20400
7	Hiravadi	Songadh	7	16	12800
		Total	**38**	**560**	**502600**

- ✓ The success of Smt.IndubenRamanbhaiGamit was also appreciated by**Smt. Smruti Irani, Hon'ble Minister for Textiles, Govt. of India, New Delhi**during her visit on 21st September, 2018. Hon'ble Minister Smt. Smruti Iranijishared her inspiring story on social media also.
- ✓ **Dr. Lakhan Singh, Director, ATARI, ICAR, Pune** visited her home on 22nd September, 2018 and motivated her.
- ✓ **Dr. G. R. Patel, Director of Extension Education**, Navsari Agricultural University, Navsari felicitated her with shawl in SAC meeting at KVK, Tapi on 31st January, 2020.
- ✓ ***AKHIL BHARATIYA VIDYARTHI PARISHAD***, Tapi also appreciated her entrepreneurial activities and felicitated her with shawl during celebration of *NARI SHAKTI DIN* at Tarankund hall, Vyara on 19th November, 2020.

2: Increased Income through Dairy and Vermicompost

1	**Name**	Mrs. Jasuben Chhakabhai Chaudhari	
2	**Address**	Ramaji Faliyu, Village: Unchamala, Ta: Vyara, Dist: Tapi	
3	**Education**	10th Pass	
4	**Mobile No.**	9328832093, 9638610108	
5	**Age**	59 Yrs	
6	**Total Land**	2.0 ha.	
7	**Crops Cultivated**	Sugarcane, Paddy and Mango	
8	**Situation analysis/Problem statement:**	Like other farmers, animal husbandry along with agriculture is the inherited agribusiness of Jashuben's family. In agriculture, paddy and sugarcane are preferred as cash crops. While mango is cultivated in about 1.0acres as a horticultural crop. Before adopting the new system, she raised only one cow as a livestock keeper. The main purpose was to use milk and manure as fertilizer in agriculture for home consumption. Thus, before adopting the new system, farming and animal husbandry were disorganized as well as conventional.	
9	**Plan, Implement and Support**:	KVK, Tapi conducts training and extension activities for the tribal farmers of Tapi district to increase their income through farming and animal husbandry. Accordingly, Jashuben also came in contact with Krishi Vigyan Kendra, Tapi through ATMA, Tapi and was inspired to abandon conventional dairy practices and adopt animal husbandry in a scientific manner as per the guidance of scientists. KVK, Tapi's scientists are frequently visited on the spot and they get guidance according to their work from time to time. During 2018-19, she also joined **200 hrs (27 days-01/12/2018 to 26/12/2018)** training programme of '**Organic Grower**" at KVK, Tapi sponsored by Agricultural Skill Council Of India (ASCI) under RKVY.	
10	**Outcomes**:	Starting animal husbandry with only one cow, Jashuben had around 15 small and large cattle. But due to his ill health, he has kept only 5animals at present. While through their own experience they have been making vermicompost manure and vermiwash from animal dung for the last three years. It is also used for home farming and retail as organic inputs. In addition, during year 2019-20, she has earned a total income of Rs. 84900 by selling 83 Kg earthworm at the rate of 300 Rs. Per Kg. In the same way, She has earned a total income of Rs. 25000 by selling 1000 litre Jivamrut at the rate of 25 Rs. Per Kg.	
11	**Impact**:	➢ Now Jashuben has also mastered in the art of animal husbandry and organic farming and has become known as an ideal farming woman for the farmers of her village as well as the surrounding villages. ➢ During the year 2013-14, she has received the Taluka Level Best Atma Farmer Award in the field of Animal Husbandry. ➢ Similarly, during the year 2015-16, she has received the District Level Best Atma Farmer Award in the field of Animal Husbandry. ➢ She has been awarded a certificate by Hon'ble Collector-Tapi on the occasion of "Mahila Svavlamban Divas" on Dt. 08-08-2018.	

Table 1: Details of expenditure and income from dairy

Year	Total no. of Milking Animals	Total no. of Lactating Milking Animals	Gross total income (Rs.)	Total Expenditure (Rs.)	Net income (Rs.)	Net income per Lctating Income (Rs.)
2016-17	12	08	842854	545000	297854	37231
2017-18	11	07	806940	557000	249940	35705
2018-19	07	05	742459	576000	166459	33291
2019-20	05	02	228077	167289	60788	30394

NB :- (1) Animal Feed/Labour would be include in Total cost (Rs.)

Table 2: Details of expenditure and income from Vermicompost and Vermiwash

Year	No. of vermibed	Vermicompost production (Kg)	Income (Rs.)	Vermiwash Production (Lt.)	Income (Rs.)	Total Income (Rs.)	Total Expenditure (Rs.)	Net Income (Rs.)
2016-17	02	6000	30000	-	-	30000	4500	25500
2017-18	10	30000	150000	-	-	150000	21000	129000
2018-19	16	48000	240000	2000	10000	250000	33600	217400
2019-20	18	54000	270000	-	-	270000	118800	151200

NB :- (1) Vermicompost selling rate Rs. 5/kg
(2) Vermiwash selling rate Rs. 5/kg

3. Organic Farming of Tuber Crops to Improve Economic Status

1	**Name**	Shri. Sureshchandra Dinubhai Gamit
2	**Address**	Village: Ghata, Veljipura falia, Ta: Vyara, Dist. Tapi
3	**Education**	B. Com.
4	**Mobile No.**	9979391533
5	**Age**	50
6	**Total Land Holding**	6 ha
7	**Cultivated Crops**	Sugarcane, Paddy, Pigeon pea, Maize, Mango, Brinjal, Elephant Foot Yam, Greater yam and Other vegetable crops
8	**Situation Analysis & Problem Statement**	In Tapi district, farmers are mainly cultivating the vegetable crops like okra, brinjal, chili, tomato and cucurbits on a commercial basis. In our daily diet, tuber crops play an important role after cereal and pulse crops. However, the farmers of Tapi district were deprived of cultivation of tuber crops for many years. Elephant Foot Yam (EFY) and greater yam is a tuber crop. In general, most of the vegetable crops are perishable in nature, hence spoil quickly & cannot be stored. EFY and greater yam has long shelf life, hence it can be stored for a long time and can be sell the produce when market rate is

		high. The cost of EFY and greater yam cultivation is too less. Therefore, the demonstrations of EFY and greater yam were organized in Tapi district with the objectives that the farmers can earn good income by cultivating the tuber crops along with other vegetable crops.
9	**Plan, Implement and Support**	KVK, Vyara conducts training programme and extension activities for the tribal farmers and farm women of Tapi district to improve their economic level through farming. Hence, the demonstrations of EFY cv. Gajendra and greater yam var. Shri Neelima, Shri Swati, Shri Nidhi were given to 7-7 farmers of Tapi district with the aim that farmers can earn good income by adopting this technology of cultivating tuber crops at low cultivation cost. Training on its scientific cultivation was also given to the farmers. From which, one demonstration was also organized in 2019-20 at Sureshchandra Dinubhai Gamit's farm in Ghata village of Vyara taluka. Sureshbhai had planted EFY and greater yam in 10 guntha area on May, 2019 at a dist. of 90 x 90 cm with ridge and furrow method. In which, EFY was planted in an area of 6 guntha and greater yam was planted in an area of 4 guntha. Maize crop was also planted as an intercrop. Demonstration plots were frequently visited by KVK scientists and technical guidance was also given as per need. Field day was also organized at demonstration plot.
10	**Outcome**	For the cultivation of EFY and greater yam, Sureshbhai had invested Rs. 3970. The crop wise detail information are given in the below table. After planting, he got the first year EFY corm production 350 kg and greater yam tuber 110 kg on February-2020. Out of which, Sureshbhai kept 200 kg of EFY corm and 20 kg of greater yam tuber for next/second year planting. He earned Rs. 4000 from selling of 150 kg EFY corm and Rs. 9800 from selling of 90 kg greater yam tubers. Hence, he earned total Rs. 13800 from selling of the produce. He got market price of Rs. 20-40 per kg EFY corm and Rs. 70-120 per kg greater yam tuber for the selling. After deducting the total expenses, he got net profit of Rs. 9830 and also saved estimated cost of EFY & greater yam planting material Rs. 10400 for the next year planting.
11	**Impact**	Sureshbhai earned more income by growing tuber crops organically with other vegetable crops. From this successive result, he has extended EFY cultivation in an area of 25 Guntha and greater yam in an area of 10 Guntha in this year (2020-21) at a dist. of 90 x 90 cm with ridge and furrow method. In which, maize, cowpea, cluster bean and bottle gourd have also been planted as mixed crop. From the

		inspiration of Sureshbhai's success, Shantilal Naginbhai Gamit of Ghata village has also planted EFY this year. Thus with less care & labor cost, the income of farmer has increased by tuber crop cultivation and around 20-25 farmers has started its cultivation in Tapi district.
12	**Farmers Feedback**	1. Less cost of cultivation due to negligible pest & disease infestation 2. Good market price due to less no. of daughter corm in EFY cv. Gajendra 3. Can get more income by less effort due to less care & management require compared to other vegetable crops 4. Due to long storage life, it can be sell at any time or when market price is high

Cost of cultivation of EFY (6 Guntha)		
Sr. No.	**Particulars**	**Cost (Rs.)**
1	Ploughing	300
2	Pit digging & Corm planting	350
3	FYM (1000 kg)	500
4	Irrigation	500
--	--	--
5	Labor charges & other cost	520
A	Expenses incurred by Sureshbhai	**2170**
B	EFY corm (By KVK)	1200
	Total Cost of Cultivation (A+B)	**3370**
	Gross Income	**12000**
	Net Income	**8630**
	B:C Ratio	**3.56**

Cost of cultivation of Greater yam (4 Guntha)		
Sr. No.	**Particulars**	**Cost (Rs.)**
1	Ploughing	300
2	Pit digging & tuber planting	200
3	FYM (800 kg)	400
4	Irrigation	500
5	Support	200
6	Labor charges & other cost	200
A	Expenses incurred by Sureshbhai	**1800**
B	Greater yam tuber (By KVK)	1400
	Total Cost of Cultivation (A+B)	**3200**
	Gross Income	**12200**
	Net Income	**9000**
	B:C Ratio	**3.81**

4. Successful Women Entrepreneur in Mushroom cultivation- Smt. Anjanaben Gamit

1	Name	Smt. Anjanaben Nileshbhai Gamit	
2	Address:	Village:NaniChikhali, Block: Vyara	
3	Education	Diploma (Civil Engineering)	
4	Mobile no.	9898916768	
5	Age	34 year	
6	Total land	1.2 ha	
7	Crops Cultivated	Sugarcane, Mango, Watermelon, Wheat	
8	Situation analysis/ Problem statement:	Mushrooms can play an important role in contributing to the livelihoods of rural & peri-urban dwellers, through food security & income generation. Mushroom cultivation can represent a valuable small–scale enterprise option.	

		Civil Engineer (Diploma) lady Mrs. Anjanaben Gamit, building/construction is her main occupation. She is extremely talented, hard worker & skilled lady. It was one dream of Mrs. Anjanaben Gamit to do something without land/marginal land for securing livelihood in general and tribals particular. She wanted to be independent and carve out and identify for herself. Meanwhile, she read an article on Oyster Mushroom cultivation published by Krishi Vigyan Kendra- Tapi in Agro-Sandesh dated 20th February, 2017. Then she visited KVK and decided to go for Mushroom cultivation under the guidance of KVK Tapi and joining with KVK, proved to be a boon for her. India rank second in world after China in total population. It is challenge for our scientist to provide bulk food for this increasing population. In developing country like India malnutrition is the major health constraints due to deficiency of protein. Presently, India is very back in using protein sources as compared to other countries. Second thing is that, India produces approximately 350 crore tonne agricultural residues/waste like paddy straw, wheat straw, cotton waste etc because of 70% Indian population depend upon Agriculture. Off which fifty percent quantity remain as such due to its unused. This is also a big constraint to destroy them. Dr. M.S.Swaminathan, founder of Green Revolution in India also advised to use such type technologies in which each and every agricultural waste should be recycled to increase agricultural production. The mushroom cultivation may solved these two constraints in which we can use major agricultural waste for production of nutritious food i.e mushroom. Smt. Anjanaben is the first rural farm women who can successfully produce mushroom in South Gujarat especially in Tapi district. Mushroom plays a major role of nutritious component of rural and urban people's daily diet. Paddy is the major food crop in India and also in Gujarat and paddy straw is also available as by-products in large quantity. Farmers generally used this paddy straw as animal feed. Farmers will get additional income with agriculture and animal husbandry, if they this paddy straw for mushroom cultivation. There is also good demand in market for mushroom and south Gujarat climate is also favorable for mushroom cultivation. But there are very few mushroom growers. As per the opinion of Scientists, South Gujarat is the very good zone in India for mushroom cultivation. Paddy straw or wheat straw and mushroom spawn are the major requirement in mushroom cultivation and if mushroom grower can take appropriate care during cultivation, they will earn maximum profit with satisfaction. By considering all this, Anjanaben adopted mushroom cultivation.
9	Plan, Implement and Support:	Krishi Vigyan Kendra, Vyara have been made an effort to disseminate mushroom cultivation technology through various extension activities in different villages of Tapi district. After training programme, farmers also started the mushroom cultivation which is indoor practices without land and sunlight. Anjanaben joined four days (19.09.2017 to 22.09.2017) training programme on "Entrepreneurship development through Mushroom Cultivation" at KVK, Tapi and decided to initiate the mushroom cultivation during 2017 at available resources with the technical guidance from KVK, Vyara. During 2018-19, she also joined 200 hrs (27 days-01/12/2018 to 26/12/2018) training programme of 'Mushroom

		Grower" at KVK, Tapi sponsored by Agricultural Skill Council Of India (ASCI) under RKVY to update her knowledge. Consequently, near his home there was a parking shed and she had decided to grow mushroom production at small scale in this parking shed. KVK, Vyara has been supported her for paddy straw cutting in chaff cutter demonstration unit. She prepared mushroom growing house in his parking shed by using bamboo and green shade net along four sides. All the inputs *viz*., spawn (mushroom seed), polythene bags, seeds and chemicals (Carbendazim & formalin) has been supplied by KVK, Tapi. Follow up visit, diagnostic visit has also been made by Scientists of KVK-Tapi. Regular guidance on telephone has also been provided.
10	Output:	During 2017-18, she started mushroom cultivation first time in October 2017 and harvest about 140 kg Mushroom with a value of Rs.28000/- in a simple small low cost shed (Size 15' x 10') within 2.5 months by investing Rs.11000 as production cost (Table.1) This encouraging results motivated her to start mushroom cultivation on regular basis and design a structure (Size 30' x 20') based on one time expenditure of Rs.1,00,000/-(Table 2). From April 2018 to March 2019, she harvested total 1079 kg of mushroom with a value of Rs.3,77,650/- (Table 3). She got prevailing market price of Rs. 350/- per kg. She was benefitted in a good way. By this way, she proved her dream true with the adoption of mushroom cultivation and enough to convey a message to secure livelihood in tribal areas without land /marginal land. Anjanaben's success in mushroom production from October 2017 to March 2019 and 18 months experience in mushroom cultivation motivate herself to extend mushroom production unit. So, she enlarged his mushroom house (size of 23'x80') by investing additional Rs. 172000/- during 2019-20 (Table. 2). From April-2019 to December 2019, she used 250 kg spawn and produced 1234 kg of mushroom with a gross income of Rs.3,08,500/- . Total cost of production was Rs. 88,350/-. By this way she get net profit of Rs.2,20,150/- during 2019-20 (Table.4). The monthly details of cost of cultivation, mushroom production and profit earn during 2017-18, 2018-19 and 2019-20 was mentioned in Annexure-1, Annexure-2 and Annexure-3, respectively Marketing: With the help of relatives, social contacts and based on demand she packed 100 to 200 gram packet and sold in Vyara town through Anganwadi worker, retail shopkeepers, and vegetable vendors. Consumers also have been booked mushroom on telephone. That approach makes marketing very easy. She also stared mushroom selling from the "Organic market desk- selling organic produce from organic producer to direct consumer" commenced by Hon. Collector, Tapi district.
11	Outcomes	Anjanaben also shares her experience as mentioned below about benefits of adopting new enterprise-mushroom cultivation than the traditional agricultural practices. 1. Mushroom cultivation is short duration practices as compared to field crops (viz., cereals, pulse, oilseeds, vegetables and fruits). It takes only 45-50 days to complete a crop cycle. 2. The problems of pest and diseases also found less in mushroom cultivation as compared to field crops. Ultimately, production cost decreases.

		3. There is no any effect of natural calamities on mushroom production and their by no any chances of crop loss. 4. Mushroom cultivation is possible without soil or sunlight, so landless people can earn more profit by using vertical cultivation method.
12	Impact:	1.Now, Anjanaben is a successful mushroom grower as he totally trained in mushroom cultivation. She is also well known progressive mushroom grower for the farmers of nearby villages and rural youths. 2.By seeing the results of her success, farmers of nearby villages, rural youths, students, scientists and also the dignitaries visited her mushroom unit. She also feels delighted when other farmers in the area visit their home to see her endeavor. She inspired and facilitated many farmers to start mushroom farming. 3. Five to six unwaged youths also get employed through Anjanaben's mushroom production unit 4.She also inspired by Hon.VC and Hon.DEE of NAU Navsari. She also share his experience in "Innovative Farmers Meet Programme" of KVK, Vyara and KVK, Navsari during 18th June, 2018 at KVK, Tapi 5.Due to outstanding contribution in Mushroom cultivation, Mrs. Anjanaben also honoured by Smt. Smriti Irani, Hon. Union Textile Minister, Govt. of India at KVK, Tapi during 21st Sept., 2018. 6.Her success story was also telecasted in DD Girnar news channel and in Dhartiputra programme of TV-9 Gujarati channel during 11th February, 2019 and 13th March, 2019, respectively. 7.She also shared his experience of mushroom cultivation in"Khedut Mela" programme jointly organized by ATMA and FTC Tapi during 12th January, 2020.

Table 1: Details of expenditure and income from mushroom cultivation (2017-18)

SN	Cost of Cultivation (Rs.)		Total Production (Kg)	Gross Income (Rs.)	Net Income (Rs.)
A	**Non recurring expenditure**				
1	Mushroom house (bamboo for making racks, gunny bags)	2500	140 kg	28000 (Rs.200/kg)	**17000**
2	Spray pump	2000			
3	Other miscellaneous exp. (tubs and drums)	600			
	Total	**5100**			
B	**Recurring expenditure (cost of raw material)**				
1	Paddy straw	800			
2	Sugarcane Bagas	300			
3	Polythene bags (Rs.4 per bag)	420			
4	Spawn 24 kg (Rs.120/- per kg)	2880			
5	Formaline 5.2 lit (Rs.100/- per lit)	520			
6	Carbendazim 0.3 kg(Rs.600/- per kg)	180			
7	Other	800			
8	**Total**	**5900**			
	Total Production cost (A+B)	**11000**			

Table 2: Details of expenditure for preparation of well designed *pucca* mushroom house (2018-19 and 2019-20)

SN	Particulars	Cost of Cultivation (Rs.)		
		2018-19	**2019-20**	**Total**
1	Mushroom house	40000 **(20'x30')**	130000 **(23'x80')**	170000
2	Bamboos for preparation of side wall and racks	22000	13000	35000
3	Spray pumps, gunny bags	7000	3000	10000
4	Sprinkler/Fogger system	15000	16000	35000
5	Irrigation Tank with motor	7000	8000	15000
6	Tubs and drums and other miscellaneous	9000	2000	7000
	Total (A)	**1,00,000**	**172000**	**272000**

Table 3: Expenditure for upgrading mushroom house and economics of mushroom cultivation (Year 2018-19)

SN	**Particulars with Cost of Cultivation (Rs.)**		**Total Production (Kg.)**	**Gross Income (Rs.)**	**Net Income (Rs.)**
1	Mushroom house	100000	1079 kg	**3,77,650.00** (Selling price @ 350/- per kg)	**2,11,495.00**
2	Paddy straw 6400 no.@ Rs.3/-per no.	19200			
3	Sugarcane Bagas 2.0 ton	5000			
4	Polythene bags 1350 no@ Rs.2 per bag	2700			
5	Spawn (260 kg @ 120/- per kg)	31200			
6	Formaline 50 lit @ 100/- per lit	5000			
7	Carbendazim 4.0 kg @ 600/- per kg	2400			
8	other miscellaneous exp.	1000			
	Total	**166500**			

Table 4: Expenditure and economics of mushroom cultivation (2019-20)

SN	**Particulars with Cost of Cultivation (Rs.)**		**Total Production**	**Gross Income (Rs.)**	**Net Income (Rs.) within 19 months**
1	Paddy straw 6000 nos @ Rs.3/-per no.	18000	**1234 kg**	**3,08,500.00** (Selling price @ Rs. 250/- per kg)	**2,20,150.00**
2	Sugarcane Bagas 2.0 ton	5000			
3	Wheat straw 1500 kg	1500			
4	Polythene bags 1000 no.@Rs.2 per bag	2000			
5	Spawn 250 kg @ 120/- per kg	30000			
6	Formaline 40 lit @ 100/- per lit	4000			
7	Carbendazim 4.0 kg @ 600/- per kg	2400			
8	Labour charges and other	25450			
	Total (B)	**88350**			

Table 5: Expenditure and economics of mushroom cultivation (2020-21)

SN	Particulars with Cost of Cultivation (Rs.)		Total Production	Gross Income (Rs.)	Net Income (Rs.) within 19 months
1	Autoclave and shed	200000			
1	Paddy straw 3500 nos @ Rs.3/-per no.	10500	**1760 kg**	**5,28,000.00** (Selling price @ Rs. 300/- per kg)	**1,67,000.00**
2	Wheat straw 400 kg	4000			
3	Polythene bags 3000 no.@Rs.2 per bag	6000			
4	Spawn 587 kg @ 120/- per kg	70440			
5	Labour charges and other	50000			
6	LPG gas for Autoclave	19800			
	Total (B)	**360740 = 361000**			

Annexure-1

Month wise economics of mushroom cultivation (2017-18)

S.N.	Month	Production (Kg)	Expenditure (Rs.)	Gross income (Rs.)	Net income (Rs.)
1	October-17	50	3500	10000	6500
2	November-17	40	3500	8000	4500
3	December-17	50	4000	10000	6000
	Total	**140**	**11000**	**28000**	**17000**

Annexure-2

Month wise economics of mushroom cultivation (2018-19)

S.N.	Month	Production (Kg)	Expenditure (Rs.)	Gross income (Rs.)	Net income (Rs.)
1	April-18	60	9240	21000	11760
2	May-18	85	13090	29750	16660
3	June-18	0	0	0	0
4	July-18	80	12320	28000	15680
5	August-18	80	12000	28000	16000
6	Seppember-18	90	13860	31500	17640
7	October-18	130	20075	45500	25425
8	November-18	150	23100	52500	29400
9	December-18	165	25410	57750	32340
10	January-19	127	19560	44450	24890
11	February-19	82	12700	28700	16000
12	March-19	30	5145	10500	5355
	Total	**1079**	**166500**	**377650**	**211150**

Annexure-3

Month wise economics of mushroom cultivation (2019-20)

S.N.	Month	Spawn used (Kg)	Mushroom Production (Kg)	Expenditure (Rs.)	Gross income (Rs.)	Net income (Rs.)
1	April-19	23	91	8050	22750	14700
2	May-19	30	123	10500	30750	20250
3	June-19	50	225	17500	56250	38750
4	July-19	0	0	0	0	0
5	August-19	0	0	0	0	0
6	September-19	0	0	0	0	0
7	October-19	40	200	14000	50000	36000
8	November-19	70	350	24500	87500	63000
9	December-19	35	245	13800	61250	47450
	Total	**248**	**1234**	**88350**	**308500**	**220150**

5 A young farmer becoming motivation and model to rural youths- Rs. 1.55 lakh net profit earned by a farmer from 0.5 ha watermelon during lockdown period of COVID-19

Pravinbhai Kishanbhai Gamit, a progressive farmers of village Balpur, Block: Vyara, Dist. Tapi (Gujarat). 12th pass Pravinbhai interested in agriculture and he is extremely talented, hard worker & skilled farmer even at 42 years age. He has total 2.0 ha land. He traditionally grows different crops *viz*., paddy, brinjal, pointed gourd, bottle gourd, bitter gourd and watermelon since 10 years back. He thought to do something new because his income was very less from traditionally farming practices. Due to his live contact with KVK scientists, he inspired to apply different new technologies in his farm. He started his new journey of technology by the installation of drip irrigation system during 2015. He has also been used plastic paper mulching, INM, IPM *etc*. He also learned different agricultural practices by participating in training programmes, different extension activities at KVK, Tapi. By seeing his success, KVK also invited to Pravinbhai as a progressive farmer in different programmes to share his experience and ultimately to inspire other marginal farmers.

Pravinbhai sowed 200 grams of watermelon seed (Cost- Rs. 10,000) in 0.5 ha land on 27/02/2020. Initially, he invested Rs. 5500/- for land preparation. With drip irrigation system (which was installed 5 years back with cost of Rs. 30,000/- with subsidy) he also used plastic paper mulching (Cost- Rs. 5240/-). Timely guidance from KVK, scientists and by using his own experience of 4 years he had used different bio-fertilizers, water soluble fertilizers, bio-pesticides etc. he also used 'NAUROJI' fruit fly trap recommended by Navsari Agricultural University, Navsari for ecofriendly management of fruit flies. By this way he harvested total **8000 kg** watermelon by investing Rs. 41,460/- as production cost.

Table 1: Details of total cost of production

Sr.No.	Particular	Cost (Rs)
1	Land preparation	5500
2	Mulching	5240
3	Seed	10000
4	Pesticides	6230
5	Fertilizers	6040
6	harvesting	8450
	Total	**41460**

Table 1: Details of economic

Production (kg)	Price (Rs./kg)	Gross income (Rs.)	Expenditure cost (Rs)	Net Income (Rs.)	Profit earned by selling watermelon purchased from merchants	Total net profit (Rs.)
8000	20.00	1,60,000	41,460	1,19,540	36,000	1,55,540

But, due to present situation of COVID-19, all public of the country is in lock down. Market, transport facilities was also closed. In this worst situation, a big question of marketing of his produce was raised in front of Pravinbhai. His hard working capacity would help to built up his confidence. He sold all the watermelon by retail marketing (Price-Rs.20/- per kg) in nine days (from 8:00 am to 6:00 pm) by installing a shop along roadside in hot spots of public places near Balpur and Jeysingpur villages. By this way of marketing of 8000 kg watermelon in nine days, he earned Rs. 1,60,000/- as gross income. By reducing the cost of cultivation, he earned net profit of Rs. 1,19, 540/-. The quality of watermelon sold by Pravinbhai is very good (average weight of single watermelon is 5 to 6 kg). The consumers were attracted towards Pravinbhai's shop for purchasing high quality watermelon. He learned more from his marketing experience. After successful marketing of his own produce, he thought to purchase more watermelon (Purchase price of Rs. 12/- per kg) from nearby merchants and sold them with price of Rs. 20/- per kg. he sold 5000 kg watermelon and earned Rs. 40,000/-. By reducing the transport cost of Rs.4000/- he got net profit of Rs. 36000/-. By retail marketing of his own produce and other watermelon he got total net profit of Rs. 1,55,540/-.

Pravinbhai's message to farming community:

Farmers will get more production and earned more profit and also improve their standard of living if they adopt timely cultivation practices, adopt new technologies *viz.*, drip/sprinker irrigation, mulching, Integrated Nutrient management (INM), ecofriendly pest management practices (use of bio-pesticides, bioagents, pheromone traps, light traps), need based application of chemical pesticides *etc.*

6 Successful quality seed producer of Greengram (Variety- GM 6)- Mr.Digambarbhai H. Valvi

1	**Name**	**Mr. Digambarbhai Huryabhai Valvi**
2	**Address:**	Village:Itvai, Block: Kukarmuda, Dist: Tapi
3	**Education**	8th Pass
4	**Mobile no.**	9978087397
5	**Age**	53
6	**Total land**	20 acre
8	**Area under Greengram**	6.0 acre (*Summer*-20)
9	**Situation analysis/Problem statement:**	Seed is a vital component for harvesting good yields from any crop by way of ensuring optimum plant population, proper crop health and growth. Ins pulses, quality seed supply always remains a major constraint limiting production and productivity. Pulses are known as cheap source of protein for largely agrarian population worldwide, particularly in India. Realizing importance of protein from plant sources, the consumption is becoming more popular in different parts of the globe. Accordingly, demand for pulses has gone up internationally. To make India self-sufficient in pulses production through productivity enhancement, availability of quality seed needs special attention of the policy makers and

		researchers. There is need of about 25- 30 lakh quintals of quality seed every year to achieve 30% seed replacement rate to enhance production and productivity of these crops. Mr. Digambarbhat is a social worker and acts as a Sarpanch of Group Grampanchayat of Dabriamba and nearby six villages. He is sincere, hard worker and also a progressive farmer. He cultivated different crops on his own land and also on leased land. He joined with KVK for seed production programme.
10	**Plan, Implement and Support**:	Government of India is fully aware of its responsibility to increase quality seed supply in major pulse growing regions of the country. Department of Agriculture, Cooperation and Farmers Welfare (DAC&FW), Ministry of Agriculture and Farmers Welfare, Government of India (GoI) has approved project namely "Creation of seed hubs for increasing indigenous production of pulses in India" under the aegis of Indian Council of Agricultural Research (ICAR) for increasing supply of quality seeds to boost pulses production and productivity. Krishi Vigyan Kendra, Vyara is one of the Seed Hub center under this project. KVK, Vyara has been started seed production of pulse crops *viz*., pigeonpea, chickpea and greengram in *kharif*, *rabi* and *summer* season, respectively. Mr. Digambarbhai joined the training programme on quality seed production at KVK, Tapi. KVK, supplied 95 kg foundation seed of Greengram -variety-GM 6. Registration procedure of seed producer shri. Digambarbhai was also followed in collaboration with Gujarat State Seed Certification Agency. But due to situation of Covid 19 other pre-requisites *viz*., field inspection, regular monitoring visits were not followed. Regular telephonic guidance with the help of photographs was followed. **Technology adopted** ➢ Adoption of the right agronomic package of practices ➢ Followed the need based plant protection measures.
11	**Output**	By adoption of scientific package of practices of greengram, Digambarbhai harvested good quality seeds of greengram. He invested Rs.29,100/- as total cost of cultivation and produced 2888 kg greengram seed.
12	**Outcome**	KVK, Vyara had bought all the seeds as per the price (Rs. 9,000/- per quintal) finalized by Gujarat State Seed Corporation, from Digambarbhai under the Seed Hub Project. By this way, he got gross income of Rs.2,59,920.00/-. The Government has declared the seed price @ Rs. 90/ kg for the year 2019-20. Had they produced the commercial grain crops, and sold as grain only, they would have received Rs. 70.00/- per kg only. Thus by going for seed production, Digambarbhai earned almost **28.57 per cent more** rate of the greengram by selling these seeds. The total revenue for the Digambarbhai was 2,30,820/- while as grain, their revenue would have been Rs.1,73,060/- only.
13	**Impact**:	Mr. Digambarbhai was fully satisfied by this seed production programme. He also urged to nearby farmers to join with KVK for seed production programme.

Table1: Economics of seed production by Mr. Digambarbhai

Cost of Cultivation (Rs.)	Total Production (Kg)	Sold as seed (Kg)	Price (Rs,/Qt)	Gross income (Rs.)	Net income (Rs.)	B:C ratio
29,100.	2,888	2,888	9,000.00	2,59,920.00	2,30,820.00	8.93

Prevailing market price of greengram (2020)	Rs. 7000/- per Qt
Price fixed by Gujarat Seed Certification Agency	Rs. 9,000/- per Qt

Table2: Details of Cost Of cultivation

Sr.No.	Particular	Cost (Rs.)
1	Land preparation	5100.00
2	Sowing (with the help of bullocks)	1000.00
3	Weeding (30 labour)	3600.00
4	Fertilizer	5400.00
5	Irrigation (Total 3)	3000.00
6	Pesticide cost including labour	0.00
7	Harvesting	4200.00
8	Threshing	1800.00
9	Transportation	3000.00
10	Other miscellaneous exp.	2000.00
	Total	**29,100**.00
	Seed supplied by KVK at free of cost	

7. Success Story on CFLD Oilseeds: Crop: Soybean (*Kharif* 2020)

Name of KVK	TAPI
Crop and Variety	Crop: Soybean Variety: NRC-37
Name of farmer & Address	Shri Jatubhai Margiyabhai Vasava At & Post: Mohini Ta. Uchchhal
Background information about farmer field	Land is medium black with low in N, medium in P, high in K content.
Details of technology demonstrated	Improved variety
Institutional Involvement	Technical guidance & inputs supply
Success Point	High yielding Variety, less incidence of insect-pest
Farmer Feedback	More flowering, more pods, High yield, Bold seed size. Less incidence of insect-pest
Outcome Yield (q/ha) - Demonstration - Potential yield of variety/technology - District average - State average	 23.00 25.00 11.50 9.40

The non-availability of good quality seeds of high-yielding varieties in the desired quantities is a major problem. It has been observed that erratic rainfall and scarcity of irrigation water at later/critical stage is one of the major reasons for low productivity. Besides, poor economic status of the tribal farmers inhibits them to purchase major input *like* fertilizers as well as to perform important operation timely.

Soybean is a traditionally cultivated at Uchchhal and nizar block of Tapi district. Farmers are cultivating desi variety of soybean and having lake of awareness about soybean varieties. So,KVK-Tapi has conducted CFLDs on Soybean (NRC-37) in 19 ha area covering48 numbers of farmers in Tapi. This is remunerative crop in undulating land of heavy rainfall area instead traditional drill paddy grower in this area. Thus, this crop fetches good income. So, we had given improved variety- NRC-37.Most soil in this area has deficiency of Sulphur element. So, along with promotion of Basal dose we supplied sulphur as an input material. We also demonstrated Rhizobium, PSB and Novel organic liquid for better growth and yield.

Performance of technology vis-à-vis Local check (Increase in productivity and returns)

Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha	B:C ratio
Farmer practices	15.30	38120	61364	23244	1.6
Demonstration	23.00	39250	91240	39250	2.3
% Increase	53.3				

The result showed that Shri Jatubhai Margiyabhai Vasavahad got the yield of 23.00 q/ha. He sold his some of his produce to other farmers of his villge for seed purpose and rest of produce to APMC-Uchchhal Dist.-Tapi and gotan average Rs. 760/ 20 kg. Thus, including fodder per ha income was Rs. 91,240 which resulted in Rs. 39,250 net income with B:C ratio 2.3. Earlier, Shri Jatubhai has grown desi variety of Soybean. But KVK-Tapi has convinced him to grow NRC-37 variety instead of Desi variety. He got a good income from this crop as compared to Desi variety. Shri Jatubhai is a motivator for the farmers of nearby villages. They also visited the field of Shri Jatubhai and decided to cultivate NRC-37 variety in next season.

The extension gap was 7.7 q/ha and technology gap was 2.0 q/ha. The technology index was observed 8.0 percent. The technology index shows the feasibility of the variety at the farmer's field. The lower value of technology index more is the feasibility of technology. This indicates that a gap existed between technology evolved and technology adoption at farmer's field.

Therefore, the results clearly indicate that the use of improved varieties and package of practices with scientific intervention under frontline demonstration programme contribute to increase the productivity and profitability of pulses as compared to local check.

Soybean field- Shri Jatubhai Margiyabhai Vasava

FieldDay onSoynean-Variety-NRC-37 atShri Jatubhai Margiyabhai Vasava's field

8. Success Story on CFLD Pulses: Crop: Green gram (*Summer* 2020)
Technology Module:

Name of KVK	TAPI
Crop and Variety	Crop: Green gram Variety: GM-6
Name of farmer & Address	Shri Veljibhai Ukadiyabhai Gamit At & Post: Thuti Ta. Uchchhal
Background information about farmer field	Land is medium black with low in N, medium in P, high in K content.
Details of technology demonstrated	Improved variety
Institutional Involvement	Technical guidance & inputs supply
Success Point	Yellow Vein Mosaic resistant variety, less incidence of insect-pest. Reduced shattering of pods.
Farmer Feedback	Good quality pod, High yield, low disease-Pest
Outcome Yield (q/ha) - Demonstration - Potential yield of variety/technology - District average - State average	 9.21 20.00 6.29 5.28

The non-availability of good quality seeds of high-yielding varieties in the desired quantitiesis a major problem. It has been observed that scarcity of irrigation water at later/critical stage is one of the major reasons for low productivity. Besides, poor economic status of the tribal farmers inhibits them to purchase major input *like* fertilizers as well as to perform important operation timely.

Due to the shortage of irrigation water in post summer, Green gram is one of the most remunerative crop in Tapi district. The most farmers are facing problem of Yellow mosaic virus along with low productivity in gram. Tribal farmers of tapi distric are not well aware about proper varieties. So, KVK-Tapi has conducted CFLDs on Greengram variety-GM-6 in 20 ha area and given to 50 numbers of farmers in Tapi.

Performance of technology vis-à-vis Local check (Increase in productivity and returns)

Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha	B:C ratio
Farmer practices	7.3	17000	51456	34456	3.02
Demonstration	9.21	17500	64930	47430	3.70
% Increase	26.16				

The improved package and practices is more important with technological intervention for productivity and profitability of pulses. The results of CFLDs revealed that the average yield of demonstrated plot of Shri Veljibhai Ukadiyabhai Gamit is 9.21 q/ha as compared to farmer practices *i.e.* 7.3 q/ha. The net income was also high in demonstrated plots *i.e.* Rs. 47430/-, while in farmer's field net income was Rs. 34456/-. It was observed that benefit cost ratio (B:C) of recommended practices (CFLDs) were 3.70 as compared to 3.02 in farmer's practice. In desi variety 40% of crop found affected by yellow mosaic virus while GM-6 found completely resistant against yellow mosaic virus.The extension gap was 1.91 q/ha and technology gap was10.79 q/ha. The technology index was observed 53.95. The technology index shows the feasibility of the variety at the farmer's field. The lower value of technology index more is the feasibility of technology. This indicates that a gap existed between technology evolved and technology adoption at farmer's field.

Therefore, the results clearly indicate that the use of improved varieties and package of practices with scientific intervention under frontline demonstration programme contribute to increase the productivity and profitability of pulses as compared to local check. Technology Index was higher due to scarcity of water during later stage of crop.

Field Visit of Green Gram (GM-6) at Shri Veljibhai Ukadiyabhai Gamit's Field

Case study

1. Entrepreneurship development of *Sakhi Mandal* through preparation of Decorative Articles from coconut fibers

1.	Name of *Sakhi Mandal*	:	*Kaival Krupa Sakhi Mandal*
2.	Village	:	Nani Kundan street, Borakhadi
3.	Block, District & State	:	Vyara, Tapi, Gujarat
4.	Total Members	:	14 tribal women
5.	Name of President	:	Chaudhari Shilaben Amrutbhai
6.	Contact Number	:	9537568008
7.	Details regarding participation in Vocational/ Skill Development Training	:	**Title:** 'Preparation of decorative Articles from coconut fibers and doormats making' **Duration:** 10th September-2019 to 9th October-2019 (**30 days**)
8.	Training and technical guidance	:	Krishi Vigyan Kendra, NAU, Vyara, Tapi and *GUJARAT MATIKAM KALAKARI ANE RURAL TECHNOLOGY SANSTHAN*, Govt. of Gujarat, Centre: Bajipura
9.	Activities of Tribal Farm women before Training	:	Works regarding Agriculture & Animal Husbandry, Farm labour
10.	Family income (Annual) of each member	:	App. Rs.45000/- to 70000/-
11.	Total members involved in income generating activities after Training	:	1. Chaudhari Shilaben Amrutbhai 2. Chaudhari Jayshreeben Chandrakantbhai 3. Chaudhari Falguniben Jigarbhai 4. Chaudhari Induben Sanjaybhai 5. Chaudhari Ranjanben Devsinghbhai 6. Chaudhari Ilaben Dipakbhai 7. Chaudhari Krutikaben Urveshbhai 8. Chaudhari Nirmalaben Hasmukhbhai 9. Chaudhari Shilaben Pravinbhai
12.	Raw materials purchased from	:	Stipend*
13.	Supplementary income by selling decorative articles	:	**Rs. 25200/-** (starting from January-2020)
14.	Marketing arrangement	:	Use of local market/ Sakhi Mandal/ Social contact/ SHG/ Festival fair/ Press Media

*After participation in training, *GUJARAT MATIKAM KALAKARI ANE RURAL TECHNOLOGY SANSTHAN*, Govt. of Gujarat, Centre: Bajipura has given stipend of **Rs. 1500/-** to each trainee.

2 Entrepreneurship development of tribal women through preparation of Decorative Articles from coconut fibers

1.	Name of tribal women	:	1. Chaudhari Jayshreeben Nitinbhai 2. Chaudhari Raxaben Jigneshbhai
2.	Village	:	Nani Kundan street, Borakhadi
3.	Block, District & State	:	Vyara, Tapi, Gujarat
4.	Membership details	:	President and Secretary in *Sneha Sakhi Mandal* respectively
5.	Contact Number	:	9586024303

6.	Details regarding participation in Vocational/ Skill Development Training	:	**Title:** 'Preparation of decorative Articles from coconut fibers and doormats making' **Duration:** 10th September-2019 to 9th October-2019 (**30 days**)
7.	Training and technical guidance	:	Krishi Vigyan Kendra, NAU, Vyara, Tapi and *GUJARAT MATIKAM KALAKARI ANE RURAL TECHNOLOGY SANSTHAN*, Govt. of Gujarat, Centre: Bajipura
8.	Activities of tribal women before Training	:	Agriculture & Farm labour work
9.	Family income (Annual)	:	App. Rs.50000/- to 60000/-
10.	Activities of tribal women after Training		Income generating activities of 'Different types of decorative Articles making from coconut fibers'
11.	Raw materials purchased from	:	Stipend*
12.	Supplementary income by selling decorative articles	:	**Rs. 35750/-** (starting from January-2020)
13.	Marketing arrangement	:	Use of *Haat* bazaar/ Sakhi Mandal/ Social contact/ SHG/ Tribal fair/ Festival fair/ Press Media

*After participation in training, *GUJARAT MATIKAM KALAKARI ANE RURAL TECHNOLOGY SANSTHAN*, Govt. of Gujarat, Centre: Bajipura has given stipend of **Rs. 1500/-** to each trainee.

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

- Following are the innovative methodology or innovative technology of Transfer of Technology developed and used during the year:

1. Accessibility of mushroom spawn
2. Preparation of mushroom with organic practices
3. Plug tray nursery
4. Accessibility of novel organic novel liquid nutrient
5. Accessibility of phoromone trap/ sticky trap
6. Decorative items from coconut coir
7. Vermicomposting and selling of earth worm

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

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	All crops	3 kg of Jathropa leaves is taken in 20 liters of water and boiled at a temperature of 60 to 70^0 C until it becomes 5 liters. Take 250 ml and add it to 15 liters and spray.	For controlling sucking pests
2.	All crops	Farmers are using mixture of cow dung, urine and buttermilk for the control of sucking pest.	For controlling sucking pests
3.	Cotton	One farmer used black ants for the control of cotton insect pests. For the purpose, the used to put jaggery at the base of plant (5-10) grams) and release black ants which are reared in tank.	To control cotton pests
4.	Okra	Growing okra in winter with high seed rate and closer spacing	To get more number of tender fruits per plant

			which fetch more prices in market.
5.	Pulse crops	Use of ash for storage of Tur, Beans, Gram	To control storage gram pests
6.	Jowar	Use of dry neem leaves for sorghum storage	To control storage gram pests
7.	Animal	Use of wild plants with sand and pest it on neck of the animal	To control HAEMORRHAGIC SEPTICEMIA **(HS)**
8	Animal	Bind creeeper of Kambadiyu in neck of Animals/ Useful for relieving stomach swelling problems in Animals	To control Gastritis
9	Animal	Whole plant of *Kuvadiya* Plant (Cassia tora) with its root bind in Neck of animal	Within 2-3 hours it helps animal for retention of placenta.
10	Animal	To feed Dudheli Plant (Euphorbia hirta) to Animal with other fodders	Feed 5-10 plants with other fodders in daily diet of animal
11	Paddy	Placed stem of Nffatiyu (Ipomoea Carnea) at four corner and centre of Paddy field. Specially placed where more infestation of rice stem borer	It controls the rice stem borer infestation in effective manner

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

A. Practicing Farmers

a) PRA
b) group discussion
c) eye to eye contact and eye observation

B. Rural Youth

a) Group discussion with youth at the time of field visit
b) Feed back from Agricultural schools
c**)** Feed back from BRS/MSW/MRS Colleges
d) Feed back from NGOs

C. In-service personnel

a)Discussion with extension workers, line department officials, field extension functionaries and NGOs staff along with feedback of SAC, ZREAC and Scientific community.

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) PRA
ii) Problem identified from Matrix
iii) Field level observations
iv) Farmer group discussions

For FLD:

i) New variety/technology
ii) Poor yield at farmers level
iii) Existing cropping system

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) – **As per Serial No. 2.7**
ii. No. of farm families selected per village :**25**

iii. No. of survey/PRA conducted :**12**

iv. No. of technologies taken to the adopted villages:**8 (As per Serial No. 3.3-B)**

v. Name of the technologies found suitable by the farmers of the adopted villages: **8 (As per Serial No. 3.3-B)**

vi. Impact (production, income, employment, area/technological–horizontal/vertical): **Impact is given in Serial No. 13.C**

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

6. LINKAGES

A. Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	Dept. of Agriculture	Participation * *Khedut Shibir* * *Training* * Extension Activities
2.	Dept. of Horticulture	Participation * Khedut Shibir * Training * Extension Activities, NHB & NHM
3.	ATMA (Tapi/Navsari/Kheda/Vadodara/Narmada)	Participation * Khedut Shibir / Mahila Shibir * Extension Activities * Training Programmes, FLDs
4.	Mahila Samakhya-Tapi	* Training * FLDs * Extension Activities
5.	DGVS-Vyara	* Khedut Shibir * Frontline demonstration * Extension Activities
6.	Research Stations, NAU	Participation – * Extension activities * Seeds * FLDs & OFT
7.	FTC, Vyara	Joint implementation – Farmers visit and guest lectures, Trainings
8.	Govt. of Gujarat	Collaboration – *Krishi Mahotsav*, ATMA Convergence
9.	State Bank of India / Bank of Baroda	SHG work – Finance for entrepreneurship-development
10.	Integrated Child Development Services	* For technical guest lecture for ICDS Training Centre * Training programme
13.	NAU, Navsari	For Technical products, technical guidance and supports.
14.	SEWA, Vyara	* Training Programmes, * Extension activities & technical support * FLD
15	*JIVAN DEEP*AADIVASI	* For Trainings, FLDs, extension

Sl.No.	Name of organization	Nature of Linkage
	*MAHILA*BACHAT ANE DHIRAN KARNARI SAHAKARI MANDALI, Bardipada	activities
16.	Dr. Ambedkar Vanvasi Kalyan Trust, Surat	∗ Trainings
17.	*GUJARAT MATIKAM KALAKARI ANE RURAL TECHNOLOGY SANSTHAN*-Bajipura	Vocational training/ Skill development training for rural youth and farm women
18.	*Vedrunaniketan Nari Shakti Mahila Co-operative Society, Unai*	Extension activities
19.	*UTTHAN MAHILA* BACHAT ANE DHIRAN KARNARI SAHAKARI MANDALI, Vyara	For Trainings, FLDs, extension activities
20.	BAIF –Vyara	∗ Training Programme ∗ Extension Activities
21.	Kamdhenu Universiry-Gandhinagar (Centre of Excellance-Ukai)	∗ Training Programme ∗ Extension Activities
22	Aagakhan Trust	∗ Training programme

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

Name of the scheme	Date/ Month of initiation	Funding agency
Adaptive Trials	2013-14	State
Cluster FLDs on Oil Seeds	2015-16	ICAR
Cluster FLDs on Pulses	2015-16	ICAR
PKVY	2019-20	ICAR
Seed Hub Project	2015-16	ICAR
TSP-Mega Seed	2015-16	State
ASCI	2019-20	ICAR
Plug Nursery Under HRT-2 for raising vegetables	2020-21	State
Swachchhata Abhiyan	2019-20	ICAR

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/~~No~~

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

KVK provides full technical support as and when necessary.

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	Monthly interface meeting of PC, KVK and PD, ATMA	3	3	--
02	Research projects	--	--	--	

03	Training programmes	Training on Scientific cultivation of Kharif & Rabi crops, IPDM, Value addition in fruits & vegetables, Organic farming	**6**	**11**	**--**
04	Demonstrations	--	**--**	**--**	**--**
05	Extension Programmes				
	KisanMela	Natural Farming	1 (550 farmers)	1	
	Technology Week	**Pashupalan Shibir, Kisan Goshthi, Khedut Shibir, Mahila Shibir, Celebration of World Soil Day**	7	6 (192 farmers)	
	Exposure visit	Wthin district	0	0	
	Exhibition	-	**0**	**0**	
	Soil health camps	--	0	0	
	Animal Health Campaigns	--	0	0	
	Others (Pl. specify)	Kisan Gosthi	6	1 (73 farmers)	
		Diagnostic visit	0	0	
		farmers Scientist Interaction	2	2 (105 farmers)	
06	**Publications**				
	Video Films		0	0	
	Books		0	0	
	Extension Literature		0	0	
	Pamphlets		0	0	
	Others (Pl. specify)		0	0	
07	**Other Activities** (Pl.specify)				
	Watershed approach		0	0	
	Integrated Farm Development		0	0	
	Agri-preneurs development		0	0	

D. Give details of programmes implemented under National Horticultural Mission-NIL-

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

E. Nature of linkage with National Fisheries Development Board –NIL-

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

F. Details of linkage with RKVY –NIL-

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

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	PKVY	Training and Extension Activities	319220	10780	--

H. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	**NFSM-Oilseed**	CFLDs, Training and Extension Activities	504375	502284	--
2	**NFSM-Pulses**	CFLDs, Training and Extension Activities	241592	129825	--

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

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

7. Convergence with other agencies and departments: Activities may be specifiedd under DAESI, YCMOU study centres and Others: --NIL--

8. Innovator Farmer's Meet

Sl.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	~~Yes~~/ No
	Brief report in this regard	--

9. Farmers Field School (FFS)

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

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

Sr. No.	Feedback
1	GNRH-2 rice hybrid variety is high yielding new variety.
2	High yielding new variety of Sugarcane CON-13073 gave high return compare to old varieties.
3	New variety of Indian Bean GNIB-21 gave higher yield and quality as well as high returns compare to local varieties.
4	Awsame result in growth, yield and quality of watermelon, brinjal and okra by the foliar application of novel organic liquid fertilizer and drenching of Biofertilizers (azotobactor, PSB & potash mobilizer),
5	Tomato cv. Arka Rakshak gave higher yield in Tapi district.
6	Gall *like* symptoms found in okra.

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

Crop production:

1	GNRH-2 rice hybrid variety is high yielding new variety.
2	High yielding new variety of Sugarcane CON-13073 gave high return compare to old varieties.

Horticulture:

Sr. No.	Technical Feedback
1	New variety of Indian Bean GNIB-21 gave higher yield and quality as well as high returns compare to local varieties
2	Awsame result in growth, yield and quality of watermelon, brinjal and okra by the foliar application of novel organic liquid fertilizer and drenching of Biofertilizers (azotobactor, PSB & potash mobilizer)
3	Tomato cv. Arka Rakshak gave higher yield in Tapi district
4	Gall like symptoms found in okra.

Plant Protection:

Sr. No.	Technical Feedback
1	Recommendation should be made on herbal plant pesticide
2	Okra is the major vegetable crop in Tapi district & farmers use chemical pesticide injudiciously and indiscriminately. So, research should be made on Non-pesticidal module against pest and diseases in this ecosystem.

Animal Science:

Sr. No.	Technical Feedback
1	Still need to be improvement in cost of production for compound cattle feed
2.	Increased the efficiency of available fodder utilizations
3	Giving calf starter to calves will improve the body condition of cow and will come early maturity

4	Supplementation of bypass fat of early lactating stage will drop down the negative energy of animals.
5	Use deworming practices in goat became reduce the worm load in goat and mortality become decrease.
6	Clomiphen citrate with other micro-minerals will act as hormone balance in animals and regularize the service period.

11. Technology Week celebrationduring 2020 Yes/~~No~~, If Yes

Period of observing Technology Week: From 01/12/2020 to 07/012/2020
Total number of farmers visited : 252
Total number of agencies involved : 2
Number of demonstrations visited by the farmers within KVK campus: 12

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies/ Shibir	1	35	Kisan Gosthi on Farmers' Bill 2020
Lectures organized	0	0	--
Exhibition	0	0	--
Film show	2	56	• Ideal Dairy Management • Nursey management in vegetable crops
Fair	0	0	--
Farm Visit	0	0	--
Diagnostic Practicals	0	0	--
Supply of Literature (No.)	0	0	--
Supply of Seed (q)	0	0	--
Supply of Planting materials (No.)	0	0	--
Bio Product supply (Kg)	0	0	--
Bio Fertilizers (q)	0	0	--
Supply of fingerlings	0	0	--
Supply of Livestock specimen (No.)	0	0	--
Total	--	**252**	--

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
number of farmers visited the technology week			
Others	0	0	

12. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Reduction of infertility in cases in cattle by use of Estrus synchronizing Hormone (Prostaglandin F2 alpha) and mineral mixture	100	70	400.00	2320.00
Bypass fat feeding to buffaloes for increasing fat% in milk	150	80	32.50	89.00
Better growth rate of calves by concurrent use of mineral mixture and deworming.	90	80	282.00	412.00
IPM in Cotton	325	70	48850	61300
IPM in Paddy	250	65	28560	37985
IPM in Okra	300	60	243940	313610
IPM in Brinjal	140	65	164495	232655
INM in Brinjal	200	60	195000	260000
INM in Okra	220	65	220000	280000
New Crop Cauliflower	50	50	135000	155000
Plant geometry in okra	100	50	220000	246000
INM through Fertigation in papaya	50	45	308000	355000
Mushroom production	415	13	0	15000

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

B. Cases of large scale adoption

Sr. No.	Crop/ Enterprise	Thematic Area	Large scale adoption (%) in adopted villages	
			Before KVK	After KVK
1	Pigeon pea	New Variety	15	85
2	Gram	Irrigation Management	10	87
3	Groundnut	Land Configuration	12	65
4	Paddy	ICM	18	83
5	Soybean	INM	18	88
6	Okra	INM	8	58
7	Brinjal	INM	20	79
8	Tomato	New Variety (ICM)	10	44
9	Cauliflower	New crop	00	4

10	Cotton	IPM	37	55
11	Paddy	IPM	35	67
12	Kitchen Garden	Household food security by kitchen garden	25	78
13	Urea treatment to Paddy Straw	Nutrition Management	20	67
14	By pass fat feeding	Feed Management	15	62
15	Mushroom cultivation	Mushroom production	05	55
16	Herbal hair oil	Entrapreneurship development	76	38

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

Impact of Training programme

1. Title of In-service Training: Different types of Anemia & its control measures and Nutritional Kitchen gardening

Total Training: 04

Sr. No.	Technical practices	No. of Trainees	Knowledge of Anganwadi workers			
			Before Training		After Training	
			No.	Percent	No.	Percent
1	Daily requirement of vegetables in balanced diet.	173	50	28.90	171	98.84
2	Vitamin-A is essential for good vision.		156	90.17	162	93.64
3	Major nutrients available in vegetables.		96	55.49	119	68.78
4	Effect on human health by using excess amount of chemical fertilizers and pesticides in Agri. crops.		108	62.42	163	94.21
5	In addition to minerals & vitamins, protein is also available in drumstick as compared to other vegetables.		146	84.39	152	87.86
6	Deficiency of iron produces the Anemia disease in human beings.		169	97.68	173	100.00
7	Yellow sticky trap is used for IPM in vegetables.		62	35.83	137	79.19
8	Folic acid and Vitamin-B_{12} are responsible for formation of RBC.		28	16.18	145	83.81
9	According to WHO, Vitamin-C is an essential for adequate absorption of iron in body.		113	65.31	163	94.21
10	Normally lifespan of human Red Blood Cell is approximately 120 days.		86	49.71	168	97.10
11	Prenatal testing for sickle cell anemia during pregnancy.		62	35.83	164	94.79
12	Causes of Sickle cell Anemia		29	16.76	100	57.80

Sr. No.	Technical practices	No. of Trainees	Knowledge of Anganwadi workers			
			Before Training		After Training	
13	Haemoglobin is an iron containing protein present in RBC		58	33.52	116	67.05
14	Types of Sickle cell Anemia		14	08.09	123	71.09
15	Control measures of Sickle cell Anemia		18	10.40	76	43.93
	Average			**46.05**		**82.15**

2 Title of On campus Training: Nutritional kitchen gardening

Sr. No.	Technical practices	No. of Trainees	Knowledge of tribal farm women			
			Before Training		After Training	
			No.	Percent	No.	Percent
1	Daily requirement of vegetables in balanced diet.	25	0	0	18	72.00
2	Major nutrients available in vegetables.		2	08.00	12	48.00
3	Iron is available in green leafy vegetables.		5	20.00	20	80.00
4	Fruit fly trap is used for IPM in cucurbitaceous vegetables.		0	0	13	52.00
5	Citrus fruits & vegetables are rich source of Vitamin-C.		4	16.00	21	84.00
6	Effect on human health by using excess amount of chemical fertilizers and pesticides in Agri. crops.		3	12.00	22	88.00
7	Vitamin-A is essential for good vision.		2	08.00	18	72.00
8	In addition to minerals & vitamins, protein is also available in drumstick as compared to other vegetables.		0	0	17	68.00
9	Deficiency of iron produces the Anemia disease in human beings.		5	20.00	15	60.00
10	Calcium is essential for building and maintaining bones & teeth and green leafy vegetables are rich source of calcium.		1	04.00	14	56.00
	Average			**08.80**		**68.00**

3. Title of On campus Training: Drudgery reduction technologies for farm women in farm operations

Sr.No.	Details of major Drudgery reducing tools for farm women	No. of Trainees	Knowledge of tribal farm women			
			Before Training		After Training	
			No.	Per cent	No.	Per cent
1	NAVEEN sickle for paddy harvesting	51	0	0	40	78.43
2	Twin wheel hoe weeder for weeding		9	17.65	47	92.15
3	*Bhindi* plucker		0	0	38	74.50

Sr.No.	Details of major Drudgery reducing tools for farm women	No. of Trainees	Knowledge of tribal farm women			
			Before Training		After Training	
			No.	Per cent	No.	Per cent
4	*Dal* mill		17	33.33	51	100.00
5	Hand maize sheller		0	0	46	90.19
6	Manual Rice Transplanter		0	0	33	64.70
7	Groundnut Decorticator		0	0	42	82.35
8	Paddy Thresher		5	09.80	51	100.00
9	NAVEEN Dibbler		0	0	45	88.23
10	Multifuel cooking stove		0	0	43	84.31
	Average			**06.08**		**85.49**

13. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2020	0	0	-NIL-
Feb 2020	1	10176	-NIL-
March 2020	1	10179	-NIL-
April 2020	5	10179	-NIL-
May 2020	9	10179	-NIL-
Jun 2020	9	10654	-NIL-
Jul 2020	8	10809	-NIL-
Aug 2020	5	10809	-NIL-
Sept 2020	8	11138	-NIL-
Oct 2020	5	11113	-NIL-
Nov. 2020	5	11113	-NIL-
Dec. 2020	5	11113	-NIL-

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
KVK, NAU, Vyara, Dist.Tapi	Text only	24	7	2	0	27	1	61
	Voice only	2	1	--	--	1	--	4
	Voice & Text both	--	--	--	--	--	--	--
	Total Messages	**26**	**8**	**2**	**0**	**28**	**1**	**65**
	Total farmers Benefitted/Message	**11113**	**--**	**--**	**--**	**--**	**--**	**-**

14. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Plug Tray Nursery	2012	0.25	Different variety of Vegetables & fruit crops	vegetable seedlings	186450	--	228446	--

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals	15/02/2020	20/02/2020	0.66	GNR-3	CF	26.555	8580	82836	
	31/08/2020	06/11/2020	0.97	GNR-6	CF	12.85	10000	40092	
	24/06/2020	12/10/2020	0.37	GNR-7	CF	07.40	4500	23800	
	30/06/2020	29/10/2020	1.30	GNR-3	CF	29.50	17000	92840	
	03/07/2020	01/11/2020	0.40	Jaya	CF	13.80	5500	43856	
	18/06/2020	15/10/2020	0.53	Sardar (GR-17)	CF	23.10	7000	72072	
	07/07/2020	09/11/2020	--	Mahisagar	CF	0.30	200	960	
Pulses	26/11/2019	20/03/2020	1.50	GG-5	CF	15.00	10500	105000	
	28/02/2020	10/05/2020	0.13	GM-7	CF	02.50	2100	22500	
Oilseeds	--	--	--	--	--	--	--	--	--
Fibers	--	--	--	--	--	--	--	--	--
Spices & Plantation crops									
Floriculture	--	--	--	--	--	--	--	--	--
Fruits	2010-11	May-2020	2.0	Kesar, Rajapuri, Dasheri, Mix varieties	Fruit	Auction		255000	
	--	--	--	--	--	--	--	--	--

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Vermi Compost	5376 kg	--	32256	benefitted to 20 farmers

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
	--NIL--						

E. Utilization of hostel facilities

Accommodation available (No. of beds): 32

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January 2020	139	32	--
February 2020	15	08	--
March 2020	--	--	--
April 2020	--	--	--
May 2020	--	--	--
June 2020	--	--	--
July 2020	--	--	--
August 2020	--	--	--
September 2020	--	--	--
October 2020	--	--	--
November 2020	73	02	--
December 2020	80	02	--

F. Database management

S. No	Database target	Database created
1	Whole District	175 villages

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

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
--NiL-									

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

If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
900 sq. feet	Vegetable crops	21	179
	Fruit crops	04	
	Others if any- Medicinal	06	

Nutritional Garden developed at Village Level: --NIL--

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

H. Details of Skill Development Trainings organized

S.No.	Name of KVKs/SAUs/ICAR Institutes	Name of QP/Job role	Duration (hrs)	No. of participants					
				SCs/STs		Others		Total	
				Male	Female	Male	Female	Male	Female
1	Tapi	Vermicompost produce	200	12	8	0	0	12	8
2	Tapi	Organic growers	200	9	11	0	0	9	11

15.FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	--	--	--	--	--	--	--
With KVK	State Bank of India	Vyara	0532	NAU KVK's A/c	10716339605	394002013	SBIN0000532
	State Bank of India	Vyara	0532	NAU KVK's Revolving Fund A/c	10716339616	394002013	SBIN0000532
	State Bank of India	Vyara	0532	Seed Hub DAC Funded Project	37145711223	394002013	SBIN0000532
	State Bank of India	Vyara	0532	Senior Scientist & Head, KVK, Vyara	37145729116	394002013	SBIN0000532

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

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	86.50	86.50	**86.38536**
2	**Traveling allowances**	01.50	01.50	**1.67542**
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	15.00	15.00	**15.00**
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)	**101.50**	**103.00**	**16.306078**

B. Non-Recurring Contingencies				
1	**Works**	11.00	11.00	11.00
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)	--	--	--
	TOTAL (B)	**11.00**	11.00	**11.00**
C. REVOLVING FUND		--	--	--
	GRAND TOTAL (A+B+C)	**112.50**	**114.00**	**11.406078**

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

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	95.00	95.00	**78.53010**
2	**Traveling allowances**	2.15	2.15	**0.64900**
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	15.00	15.00	**7.97104**
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)	**112.15**	**112.15**	**87.15014**
B. Non-Recurring Contingencies				
1	**Works**	--	--	--
2	**Equipments including SWTL & Furniture**	--	--	
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	--	--	--
4	**Library** (Purchase of assets like books & journals)	--	--	--
	TOTAL (B)			
C. REVOLVING FUND		--	--	--
	GRAND TOTAL (A+B+C)	**112.15**	**112.15**	**87.15014**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2017 to March 2018	2.38412	14.54898	12.15698	4.77612
April 2018 to March 2019	4.77612	12.98028	11.38977	1.69438
April 2019 to December 2019	1.69438	24.73669	15.21189	11.21918
January 2020 to December 2020	11.21918	14.43276	12.14301	13.50893

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

Name of Scientist	Subject	Date	Place
Dr. C. D. Pandya (Sr. Sci. & Head), Dr. S. M. Chavan (Scientist, Plant Protection)	Attend Dhanuka Innovative Agriculture Award function 2018	9/1/2020	NAS Complex, New Delhi
Dr. S. M. Chavan (Scientist, Plant Protection)	To present the progree report of seed hub and action plan	10/02/2020	Minto Hall, Bhopal, Madhya Pradesh
Dr. S. M. Chavan (Scientist, Plant Protection)	Attend International conference: Pulses as the climate smart crops: challenges & opportunities	10-12/02/2020	Bhopal, Madhyapradesh
Prof. K. N. Rana, Scientist (Agronomy)	Attend Training of Trainer	13-15/02/2020	ATARI, Kanpur
Dr. C. D. Pandya (Sr. Sci. & Head),Prof. Arti N. Soni, (Scientist, Home Science) Dr. A. J. Dhodia, (Scientist, Agril. Extension) Dr. J. B. Butani (Scientist, Animal Science)	To present Research study & new tech. prg.	27/02/2020	NAU, Navsari
Dr. J. B. Butani (Scientist, Animal Science)	Innovative perceptions & tectics for improvement of farm animals fertility	7/3/2020	College of Vety. Science & A. H. NAU, Navsari
Dr. Dharmishtha M. Patel, Scientist (Horticulture)	Attended webinar on " Technology dissemination to boost horticulture sector during post COVID-19.	12/5/2020	KVK, Vyara (Online)
Senior Scientist and all Scientists	Attended webinar on " Agriculture and Impact of COVID-19	15/05/2020	KVK, Vyara (Online)
Senior Scientist and all Scientists	Attend Review meeting of KVKs for months March-April-May-2020	05/06/2020	e-Class NAU (Online Video conferencing)
Dr. A. J. Dhodia, (Scientist, Agril. Extension)	Attended training on "Use of Mass media for transfer of technology"	18-19/06/2020	Google meet (Online video conferencing)
Prof. K. N. Rana, Scientist (Agronomy)	To attend the training of trainer ASCI at Kanpur	13-15/02/2020	Kanpur (ATARI), U.P.
Prof. K. N. Rana, Scientist (Agronomy)	Pre Seasonal (Kharif) workshop	06-07/07/2020	Google meet (Online video conferencing)
Dr. C. D. Pandya (Sr. Sci. & Head)	To present Annual Progress Report of KVK-Tapi	10-12/07/2020	Google meet (Online video conferencing)
Dr. C. D. Pandya (Sr. Sci. & Head), Dr. A. J. Dhodia, (Scientist, Agril. Extension) Dr. J. B. Butani (Scientist, Animal Science)	Online Interface meeting with KVK	4/8/2020	Google meet (Online video conferencing)
Prof. K. N. Rana, Scientist (Agronomy)	Bi-monthly workshop under T&V system of NAU	5/8/2020	Google meet (Online video conferencing)
Dr. S. M. Chavan (Scientist, Plant Protection)	Ensuring food security safely and sustainability through crop protection-Organized by National Institutes of food Technology Enterpreneurship and Management, Sonipat, Haryana	5-6/8/2020	Online
Dr. S. M. Chavan (Scientist, Plant Protection)	Entrepreneurship development through mushroom production and processing technology -Organized by Bihar Agricultural University, Sabour, Bihar	18/08/2020	Online
Dr. S. M. Chavan (Scientist, Plant Protection)	Biopesticide: Green Technology in Sustainable Agriculture	18/08/2020	Google meet (Online video conferencing)
Dr. S. M. Chavan (Scientist, Plant Protection)	Kharif pakoma pak sanrakshan na pravartman prashno ane nirakaran-Organized b PPAG and AAU, Anand	20/08/2020	Google meet (Online video conferencing)
Dr. C. D. Pandya (Sr. Sci. & Head), Dr. J. B. Butani (Scientist, Animal Science)	Fostering freshwater aquaculture technology dissemination through KVK network-Organized by ICAR, CIFA & ICAR, NAARM.	27/08/2020	Syska Webex (online video conferencing)

Name of Scientist	Subject	Date	Place
Dr. C. D. Pandya (Sr. Sci. & Head), Prof. K. N. Rana, Scientist (Agronomy)	Zonal Review workshop on "Gramin Krushi Mosam Sewa Project" :DAMU	3/9/2020	Google meet (Online video conferencing)
Dr. C. D. Pandya (Sr. Sci. & Head), Prof. K. N. Rana, Scientist (Agronomy)	An Awareness Webinar on "Atmanirbhar Kisan" (Sugarcane growers) organized by KVK-Surat	21/10/2020	Google meet (Online video conferencing)
Dr. C. D. Pandya (Sr. Sci. & Head), Dr. J. B. Butani (Scientist, Animal Science)	Launching event of watershed based livelihood programme	28/10/2020	Senior Citizen Hall, Songadh
Dr. C. D. Pandya (Sr. Sci. & Head), Dr. Dharmishtha M. Patel, Scientist (Horticulture), Dr. J. B. Butani (Scientist, Animal Science), Dr. A. J. Dhodia, (Scientist, Agril. Extension), Prof. K. N. Rana, Scientist (Agronomy)	Webinar on "Plant protection in Mango" organized by director of extension education, NAU, Navsari	11/11/2020	Google meet (Online video conferencing)
Dr. C. D. Pandya (Sr. Sci. & Head), Dr. J. B. Butani (Scientist, Animal Science)	Webinar on “Transforming Animal husbandry sector”	28/11/2020	Google meet (Online video conferencing)
Sr. Sci. & Head and all Scientist	Webinar on “Role of women in value addition of Agricultural products”	23/12/2020	Google meet (Online video conferencing)
Sr. Sci. & Head and all Scientist	Scientific interaction between scientific community with different aspects of agriculture	23/12/2020	Google meet (Online video conferencing)
Dr. Dharmishtha M. Patel, Scientist (Horticulture)	Hi-Tech cultivation of vegetable & grafting vegetables (Dutch technologies)	24/12/2020	Google meet (Online video conferencing)

Note: Another information on Seminar/Workshop/Meeting is given in Annexure-II

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

Name of the village	Total No. of families surveyed	Key interventions implemented	No. of farmers covered in each intervention	Change in income (Rs/unit)	
				Before	After
Bedi	492	FLD, Trainng, Extension Activities	15	38900	42790
Aamli	435	FLD, Trainng, Extension Activities	15	31700	34870

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

PKVY

Category and Crop	Thematic area	Name of the technology demon-strated	No. of Farmers	No. of Units/ha	Average Yield (Kg)		% change in yield	Economics of demonstration (Rs./demon.)				Economics of check (Rs./demon.)			
					Demo	Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Sugarcane, Vegetable crops, Forage crops, Pulses along with organic inputs	Organic Farming	NOVEL, NOVEL Plus, PSB, Azatobactor, KMB, Pseudomonas, Vermicompost, Neem oil, Trichoderma, Yellow sticky trap, Waste decomposer	50	20	---continue--										

Villages: Unchamala, Khodtalav, Vadkui, Dhat, Dolara, Kasvav

19. Details of Progress of ARYA Project

Name of Enterprise	No of Training Conducted	No of Beneficiaries	No of Extension Activities	No of Beneficiaries	No of Unit established	Change in income		No. Of Groups Formed
						Before	After	
--	--	--	--	--	--	--	--	--

Seed Hub: "Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India"

1. Name of KVK: Krishi Vigyan Kendra, Tapi

2. Physical Progress:

Season & Year	Crop	Target of Seed Production (q)	Achievement in Seed Production (q)	Variety with year of release	Seed producing centres/Farmer's Field	Area (ha)	Class of seed produced (F/S, C/S)
Kharif, 2016-17	Pigeonpea	150	178.5	BSMR 853 (2007)	Farmers field	20	C/S
Rabi, 2016-17	Chickpea	200	153.6	GJG-3 (2010)	Farmers field	20	C/S
Summer, 2016-17	Greengram	150	151.2	Meha (2007)	Farmers field	20	C/S
Kharif, 2017-18	Pigeonpea	300	137.5	BSMR 853 (2007)	Farmers field	25	C/S
Rabi, 2017-18	Chickpea	200	207.5	GJG-3 (2010)	Farmers field and KVK Farm	23	C/S
Summer, 2017-18	Greengram	300	224.0	Meha (2007)	Farmers field and KVK Farm	20	C/S
Kharif, 2018-19	Pigeonpea	300	125.75[@]	BSMR 853 (2007)	Farmers field	25	C/S
Rabi, 2018-19	Chickpea	400	335	GG-5 (2017)	Farmers field and KVK Farm	20	C/S
Summer, 2018-19	Greengram	300	90*	GM-6 (2017)	Farmers field and KVK Farm	20	C/S
Kharif, 2019-20	Pigeonpea	200	0*	BSMR 853 (2007)	Farmers field	25	C/S
Rabi, 2019-20	Chickpea	400	110	GG-5 (2017)	Farmers field and KVK Farm	20	C/S
			45	GG-3 (2010)			
Summer, 2019-20	Green gram	400	210	GM-6 (2017)	Farmers field and KVK Farm	20	C/S
Kharif, 2020-21	Pigeonpea	300	Seed procurement is in process	GT 104 (2018)	Farmers field	25	C/S
Rabi, 2020-21	Chickpea	500	Crop is standing	GG-5 (2017)	Farmers field and KVK Farm	20	C/S
Summer, 2020-21	Green gram	200	Sowing done	GM-7 (2017)	Farmers field and KVK Farm	20	C/S

[@] Crop was severely affected by rainfall in *Kharif*-2018

* Due to scarcity of water in summer -2019, less quantity of seed was produced

#Seed procured during 2017-18 was sold during 2018-19

*Crop was severely damaged by heavy and prolongs rain during *kharif* 2019-20

#Seed procured during 2018-19 was sold during 2019-20

1. Financial Progress:

1.1 Reolving fund Release Status

Total Allocation (2016-17 to 2018-19)	Release (Rs. In Lakh)						If less release the funds against allocation please provide the reason
	2016-17	2017-18	2018-19	2019-20	2020-21	Total	
100	30.00	36.00	34.00	0	0	100	-

3.2 Revolving Fund Status

Year	Opening Balance (1st April)	Fund Utilized	Fund Earned (by seeds sale)	Interest gained/ Subsidy received if any	Closing Balance (31st March,)	Remarks (if any)
2018-19	76,51,998	18,97,745	6,36,160	2,20,635	1,00,11,048	Rs. 34.00 Lakh Grant received during 2018-19
2019-20	1,00,11,048	11,95,324	11,37,906	3,15,520	1,02,69,150	
2020-21	1,02,69,150	17,97,635	11,95,463	1,52,185	-	Fund utilized and fund earned up to 31-12-2020. Interest gained up to 30-11-2020.

3.3 Infrastructure Development:

Item	Progress	Remarks
Seed processing unit	Development Completed	Unspent money of Rs. 18, 91,027/- returned
Seed storage structure	Development Completed	

4. Infrastructure Development:

Item	Progress	Remarks
Seed processing unit	Purchasing of seed processing machinery has been completed and their installation is in process and will be completed as soon as roofing and plaster work of seed storage structure/godown is completed	
Seed storage structure	Roofing and Plaster work are completed	

- **Others (if any): --NIL--**

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

19.1 FLDs by Sorghum Research Station-Dhamrod Surat:

S. N.	Season	Technology	Crop	Variety	Area (ha)	No. of demonstrations	No. of Beneficiaries
1	Kharif-2020	Feed and Fodder technology	Fodder Sorghum	CSV 21F, PC-23, CoFS-29	2.7	27	27

19.2 Main Sorghum Research Station-NAU, Surat

S. N.	Season	Technology	Crop	Variety	Area (ha)	No. of demonstrations	No. of Beneficiaries
1	Kharif-2020	Feed and Fodder technology	Fodder Sorghum	GNJ-1	20	50	50

19.3 Adaptive trials: (FLDs)

S. N.	Technology	Crop	Variety	No. of demonstrations	No. of Beneficiaries
1	Introduction of New Crop	Turmeric	Sugandham, GNT 1	25	25
2	Introduction of New variety	Finger millet	GN-8	20	20
3	ICM in Paddy	Paddy	GNR-7	26	26
4	ICM in Paddy	Paddy	GR-17	64	64
5	ICM in Paddy	Paddy	GNR-3	102	102

S. N.	Technology	Crop	Variety	No. of demonstrations	No. of Beneficiaries
6	Scientific cultivation of Fodder Sorghum	Fodder Sorghum	CSV-21F	98	98
7	Scientific cultivation of Fodder Sorghum	Fodder Sorghum	GFS-6	107	107
8	IPDM in Cotton	Cotton	Hybrid (G. Cot. Hy. 8 BG II)	10	10
9	Nutritional Kitchen Gardening	Vegetable seeds	Hybrid	25	25
10	ICM in Indian bean	Indian bean	GNIB-21	24	24
11	ICM in Green gram	Green gram	GM 6	265	265
12	ICM in Green gram	Green gram	Meha	22	22
13	ICM in Gram	Gram	GG 5	304	304
14	ICM in Sugarcane	Sugarcane	CoN 13073	1	1
			Total :	**1093**	**1093**

19.6 Awards:

Sr. No.	Date of Received	Place	For What	Subject	Name of Staff
1	09/1/2020	New Delhi	Best Working Innovative Technology in Agriculture	Best Working Innovative Technology in Agriculture-Institution Award given by *Dhanuka Agritech Ltd.*	KVK-Tapi
2	19/11/2020	Tarankund hall, Vyara	Women empowerment activities	Felicitated with shauel by Akil Bhartiya Vidyarthi Parishad in NARI SHAKTI DIN celebration	Prof. Arti N. Soni
3	19/11/2020	Tarankund hall, Vyara	Entrepreneurial activities through Herbal hair oil preparation	Felicitated with shauel by Akil Bhartiya Vidyarthi Parishad in NARI SHAKTI DIN celebration	KVK-Resource person: Smt. Induben R. Gamit
4	09/1/2020	New Delhi	Organic Farming	Best Innovative Farmers Award given by *Dhanuka Agritech Ltd.*	Shri Jigar Desai **Farmer**-At & Po. Siker Block:Valod

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	97	1444	1721	3165
Rural youths	8	106	137	243
Extension functionaries	17	171	469	640
Sponsored Training	23	430	900	1330
Vocational Training	02	21	19	40
Total	**147**	**2172**	**3246**	**5418**

2. Front Line Demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	136	54	--
Pulses	200	80	--
Vegetables	206	19.0838	--
Other crops	16	06	--
Hybrid crops	0	0	--
Total	**558**	**159.0838**	
Livestock & Fisheries	160	--	220
Other enterprises	210	--	120
Total	**370**	**--**	**--**
Grand Total	**928**	**159.0838**	**340**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	**3**	**20**	**20**
Livestock	**2**	**11**	**11**
Various enterprises	**0**	**0**	**0**
Total	**5**	**31**	**31**
Technology Refined			
Crops	**0**	**0**	**0**
Livestock	**0**	**0**	**0**
Various enterprises	**0**	**0**	**0**
Total	**0**	**0**	**0**
Grand Total	**5**	**31**	**31**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	535	9347
Other extension activities	179	16678
Total	**714**	**26025**

Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
KVK, NAU, Vyara, Dist.Tapi	Text only	24	7	2	0	27	1	61
	Voice only	2	1	--	--	1	--	04
	Voice & Text both	--	--	--	--	--	--	--
	Total Messages	**26**	**8**	**2**	**0**	**28**	**1**	**65**
	Total farmers Benefitted/Message	**11113**	**--**	**--**	**--**	**--**	**--**	**-**

5. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	131.005	481620
Planting material (No.)	186450	228446
Bio-Products (kg)	5376	32256
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

6. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	208	83200
Water	02	100
Plant	84	0
Total		

7. HRD and Publications

Sr. No.	Category	Number
1	Workshops	05
2	Conferences	05
3	Seminar	08
4	Meetings	06
5	Trainings for KVK officials	03
6	Visits of KVK officials	02
7	Book published	00
8	Training Manual	00
9	Book chapters	01
10	Research papers	13
11	Lead papers	00
12	Seminar papers	00
13	Extension folder	00
14	Proceedings	02
15	Award & recognition	04
16	On going research projects	03

Note: Details of HRD and Publications are given in Annexure-II

Annexure-I a

Proceeding of Seventeenth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Vyara held on 31/01/2020 at 10:00 am at Training Hall, KVK, NAU, Vyara

- **List of the members remained present in the meeting:**

Sr. No.	Name	Members/ Invitees	Designation
1	Dr. G. R. Patel	Member	Director of Extension Education Navsari Agricultural University, Navsari
2.	Dr. Ankush I. Kamble	Member	Scientist - ATARI, Zone-VIII, ICAR, Pune, Maharashtra
3	Dr. C. D. Pandya	Member Secretary	Senior Scientist & Head KVK, Vyara
4	Dr. V. P. Patel	Member	Associate Research Scientist, Regional Rice Research Station, Navsari Agricultural University, Vyara
5	Mr. J. B. Vasave	Member	Assistant Professor (Agronomy Expert), Polytechnic in Agril. Navsari Agricultural University, Vyara
6	Dr. J. M. Patel	Member	Associate professor, Veterinary college, NAU, Navsari
7	Mr. Prafulbhai R. Chaudhari	Member	Project Director,ATMA-Tapi, Vyara
8	Mr. S. B. Gamit	Member	District Agriculture Officer, Department of Agriculture, District Panchayat, and Project Director, ATMA-Tapi, Vyara.
9	Mr. Nikunj Patel	Member	Deputy Director of Horticulture, Tapi district,Vyara
10	Dr. C. M. Rana	Member	Deputy Director of Animal Husbandry, District Panchayat,Tapi District, Vyara
11	Mr. Samir Ardesana	Member	Assistant Director (Fisheries), Near CRPF Campus,Ukai, Dist. Tapi
12	Jayaben Mahendrabhai Chaudhari	Member Progress farm women	At & Po. Unchchamala Ta. Vyara
13	Mr. Kantibhai Desai	Member	Agri-Enterpreneur, Sardar Agro Centre, APMC, Vyara
14	Harshidaben S. Chaudhary	Member	RFO, Vyara, Dist. Tapi
15	Shri Sureshbhai M. Chaudhary	Member	APMC, Vyara, Dist. Tapi
16	Shri D.T.Desai	Invitee Member	Patidar Agro Centre, APMC, Vyara
17	Mr. Dharmesh Vani	Invitee Member	Press Reporter-Gujarat Raksha, Vyara
18	Mr. Anup Bhatt	Invitee Member	Press Reporter-Dhabkar & Sandesh News TV
19	Shri Tulsibhai Mavani	Invitee member	Aambedkar trust, Surat

20	Shri Ramkumar Sinh	Invitee Member	Suruchi Vasahat trust Bardoli
21	Shri Manshukhabhai Somabhai Gamit	Invitee Member	Progressive Farmer & Resource Person-KVK, At & Po. Nani Chikhali, Ta. Vyara
22	Shri Nareshbhai B. Patel	Invitee member	Aagakhan Foundation, Vyara
23	Shri N. M. Gajre	Invitee member	IFFCO Bardoli, Vyara
24	Smt. Anjanaben N. Gamit	Invitee member	Progressive farmer –Mushrom grower at Nani Chikhli, Vyara
25	Shri Subhashbhai Bhagabhai Gamit	Invitee member	Progressive farmer, Dabari amba village, Kukarmunda
26	Shri Anandbhai Jikabhai Padvi	Invitee member	Progressive farmer, Dabariamba village, Kukarmunda
27	Smt. Rakshaben Jigneshbhai Chaudhary	Invitee member	Progressive farmer, Borakhadi village, Vyara
28	Smt. Hasumatiben Sanmukhbhai Gamit	Invitee member	Progressive farmer, Borakhadi village, Vyara
29	Smt. Shilaben Amrutbhai Chudhari	Invitee member	Progressive farmer, Borakhadi village, Vyara
30	Shri Ranjitbhai Hirjibhai Gamit	Invitee member	Progressive farmer, Unchamala village, Vyara
31	Shri Anandbhai Bhanabhai Gamit	Invitee member	Progressive farmer, Unchamala village, Vyara
32	Smt. Induben Gamit	Invitee Member	Entrepreneur, Kapura village, Vyara
33	Dr. A. J. Dhodia	Special invitee	Scientist (Extension), KVK, Vyara
34	Shri. K. N. Rana	Special invitee	Scientist (Crop Production), KVK, Vyara
35	Dr. J. B. Butani	Special invitee	Scientist (Animal Science), KVK, Vyara
36	Dr. Dharmishtha M. Patel	Special invitee	Scientist (Horticulture), KVK, Vyara
37	Dr. S. M. Chavan	Special invitee	Scientist (Plant Protection), KVK, Vyara
38	Pro. Arti. N. Soni	Special invitee	Scientist (Home Science), KVK, Vyara

♦ **List of members who could not remain present in meeting :**

Sr. No.	Name and Designation	Members/ Invitees
1	Dr. S. R. Chaudhary, Hon. Vice Chancellor, Navsari Agricultural University, Navsari	Member
2	Dr. Anilbhai Chinchmalatpure, Principal Scientist & Head, Indian Soil Salinity Institute, ICAR-Bharuch	Member
3	Mr. Anil Purohit, DDM, NABARD-Surat & Tapi	Member

Dr. C. D. Pandya, Member Secretary and Senior Scientist & Head welcomed all the members of the house and agenda wise meeting was proceed with the permission of Hon'ble Director of Extension Education Dr. G. R. Patel.

17.1	**Approval of minutes of Sixteenth Scientific Advisory Committee**	
	The action taken on the minutes of Sixteenth Scientific Advisory Committee Meeting of KVK, Vyara held on 16th March, 2019 was presented by Senior Scientist and Head and approved by the house.	
17.2	**Progress made by KVK during 01-03-2019 to 15-01-2020**	
	Dr. C. D. Pandya, Senior Scientist and Head, KVK, NAU, Vyara and all scientists were presented the report on progress made by KVK, Vyara for the period of 01-03-2019 to 15-01-2020 and it was accepted by the house.	
17.3	**Action plan for the period of April-2020 to March-2021**	
	Discussion was made on the Action Plan for the period of April-2020 to March-2021 presented by Senior Scientist and Head, KVK, NAU, Vyara which was approved with following suggestions.	
	17.3.1	GR-17 (Sardar) variety of paddy crop should be included in the action plan for the year-2020-2021
	17.3.2	Turmeric crop should be introduced in the FLDs of Horticulture under Adaptive Trial programme
	17.3.3	Pigeon pea variety GT-104 should be given in the CFLDs of Pulses under NFSM-Pulses programme

As no any more points remained to be discussed, with the permission of Chairman, the meeting was ended with vote of thanks.

Member Secretary
&
Senior Scientist & Head
Krishi Vigyan Kendra,
NAU, Vyara

Chairman
&
Vice Chancellor
Navsari Agricultural University
Navsari

Annexure-I b

Proceeding of Eighteenth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Vyara held on 08/12/2020 at 10:00 am at Training Hall, KVK, NAU, Vyara

- **List of the members remained present in the meeting:**

Sr. No.	Name	Members/ Invitees	Designation
1	Dr. Z. P. Patel	Chairman	Hon. Vice Chancellor Navsari Agricultural University, Navsari
2.	Dr. C. K. Timbadia	Member	Director of Extension Education Navsari Agricultural University, Navsari
3	Dr. C. D. Pandya	Member Secretary	Senior Scientist & Head KVK, Vyara
4	Dr. V. P. Patel	Member	Associate Research Scientist, Regional Rice Research Station, Navsari Agricultural University, Vyara
5	Dr. S. R. Chaudhary	Special Invitee	Director of Research and PD Dean, NAU, Navsari
6	Dr. A. H. Patel	Member	Assistant Professor (Horticulture Expert), Polytechnic in Agril. Navsari Agricultural University, Vyara
7	Mr. Prafulbhai R. Chaudhari	Member	Project Director, ATMA-Tapi, Vyara
8	Mr. Anil Purohit	Member	AGM, NABARD, Surat
9	Mr. S. B. Gamit	Member	District Agriculture Officer, Department of Agriculture,District Panchayat, Tapi
10	Mr. Nikunj Patel	Member	Deputy Director of Horticulture, Tapi district,Vyara
11	Dr. A. J. Shah	Member	Deputy Director of Animal Husbandry, District Panchayat,Tapi District, Vyara
12	Mr. T. R. Chaudhari	Member	Assistant Director (Fisheries), Near CRPF Campus, Ukai, Dist. Tapi
13	Mr. Ghanshyambhai S. Patel	Member	Progressive farmer, At & Po. Bahurupa, Kukarmunda
14	Jayaben Mahendrabhai Chaudhari	Member Progress farm women	At & Po. Unchchamala Ta. Vyara
15	Mr. Kantibhai Desai	Member	Agri-Enterpreneur, Sardar Agro Centre, APMC, Vyara
16	Shri Pravinbhai Gamit	Invitee Member	APMC, Vyara, Dist. Tapi
17	Mr. S. P. Danecha	Invitee Member	District registrar, Co.opertive Societies, Vyara
18	Mr. Rakeshbhai Gamit	Invitee Member	At & Po. Gatadi, Ta. Songadh
19	Shri D.T.Desai	Invitee	Patidar Agro Centre, APMC, Vyara

		Member	
20	Mr. N. B. Savaliya	Invitee Member	BAIF foundation, Vyara
21	Mr. Ashokbhai Gamit	Invitee Member	Press Reporter-SANDESH-Vyara
22	Mr. Dharmesh Vani	Invitee Member	Press Reporter-Gujarat Raksha, Vyara
23	Mr. Anup Bhatt	Invitee Member	Press Reporter-Dhabkar & Sandesh News TV
24	Mr. Satishbhai Bapuravbhai Gayakvad	Invitee Member	Aambedkar trust, Surat
25	Smt. Ramaben Sinh	Invitee Member	Suruchi Vasahat trust Bardoli
26	Shri Manshukhabhai Somabhai Gamit	Invitee Member	Progressive Farmer & Resource Person-KVK, At & Po. Nani Chikhali, Ta. Vyara
27	Shri Ankit Prajapati	Invitee Member	IFFCO Bardoli, Vyara
28	Shri. Vasantkumar Vasava	Invitee Member	Lead bank Manager, Bank of Baroda, Vyara
29	Shri Nareshbhai B. Patel	Invitee Member	Aagakhan Foundation, Vyara
30	Smt. Anjanaben N. Gamit	Invitee Member	Progressive farmer –Mushrom grower at Nani Chikhli, Vyara
31	Mr. Sureshchadra D. Gamit	Invitee Member	Progressive farmer, Ghata village of Vyara
32	Smt. Shilaben A. Chaudhari	Invitee Member	Progressive farmer, Borakhadi village, Vyara
33	Smt. Rakshaben Jigneshbhai Chaudhary	Invitee Member	Progressive farmer, Borakhadi village, Vyara
34	Smt. Induben Gamit	Invitee Member	Entrepreneur, Kapura village, Vyara
35	Jayaben Mahendrabhai Chaudhari	Invitee Member	Progressive farmer, Borakhadi village, Vyara
36	Dr. S. D. Kavad	Invitee Member	Associate Extension Educationist, DEE office, NAU, Navsari
37	Dr. A. J. Dhodia	Special invitee	Scientist (Agricultural Extension), KVK, Vyara
38	Shri. K. N. Rana	Special invitee	Scientist (Crop Production), KVK, Vyara
39	Dr. J. B. Butani	Special invitee	Scientist (Animal Science), KVK, Vyara
40	Dr. Dharmishtha M. Patel	Special invitee	Scientist (Horticulture), KVK, Vyara
41	Prof. N. K. Kavad	Special invitee	Scientist (Plant Protection), KVK, Vyara
42	Pro. Arti. N. Soni	Special invitee	Scientist (Home Science), KVK, Vyara

♦ **List of members who could not remain present in meeting :**

Sr. No.	Name and Designation	Members/ Invitees
1	Director- ATARI, Zone-VIII, ICAR, Pune, Maharashtra	Member
2	Dr. Anilbhai Chinchmalatpure, Principal Scientist & Head, Indian Soil Salinity Institute, ICAR-Bharuch	Member
3	Associate professor, Veterinary college, NAU, Navsari	Member

Dr. C. D. Pandya, Member Secretary and Senior Scientist & Head welcomed all the members of the house and agenda wise meeting was proceed with the permission of the Chairman of the meeting and Hon'ble Vice Chancellor, NAU, Navsari Dr. Z. P. Patel.

18.1	**Approval of minutes of Seventeenth Scientific Advisory Committee**	
	The action taken on the minutes of Seventeenth Scientific Advisory Committee Meeting of KVK, Vyara held on 31st January, 2020 was presented by Senior Scientist and Head and approved by the house.	
18.2	**Progress made by KVK during 16-01-2020 to 30-11-2020**	
	Dr. C. D. Pandya, Senior Scientist and Head, KVK, NAU, Vyara and all scientists were presented the report on progress made by KVK, Vyara for the period of **16-01-2020 to 30-11-2020** and it was accepted by the house.	
18.3	**Action plan for the period of January 2021 to December 2021**	
	Discussion was made on the Action Plan for the period of **January 2021 to December 2021** presented by Senior Scientist and Head, KVK, NAU, Vyara which was approved with following suggestions.	
	18.3.1	FLDs on prevention of Mastitis in dairy animals should be taken.
	18.3.2	FLDs on Organic farming should be conducted
	18.3.3	Awareness and Training programme on MIS (Micro Irrigation System) should be organized

As no any more points remained to be discussed, with the permission of Chairman, the meeting was ended with vote of thanks.

Member Secretary
&
Senior Scientist & Head
Krishi Vigyan Kendra,
NAU, Vyara

Chairman
&
Vice Chancellor
Navsari Agricultural University
Navsari

Annexure-II

1. News paper coverage

S.N.	Subject, News Paper & Date
1	Tapi Jillana Vyara Krushi Vigyan Kendra ma pragatishil khedutonu sammelan. SANDESH. Dt.: (02/01/2020)
2	Krushi Vigyan Kendra, Vyara Khate pragatishil khedutonu sammelan karyakram yojayo. DIVYABHASKAR, Dt. (04/01/2020)
3	Krushi Vigyan Kendra, Vyara Khate pragatishil khedutonu sammelan karyakram yojayo.GUJARAT RAKSHA, Dt.:(06/01/2020)
4	8 Chopdi bhanela khedute Rs. 200 na kharche banavelu yantra khetarma lakhono paak bachavi rahyu che. DIVYA BHASKAR, Dt. (13/01/2020)
5	Krushi VigyanKendra, Vyara Khate bandharan divas ni ujavani karyakram yojayo. GUJARAT RAKSHA, Dt.: (22/01/2020)
6	Krushi Vigyan Kendra, Vyara khate vaigyanik padhdhatithi dhanyano sangrah vishay par talim karyakram yojayo., GUJARAT RAKSHA, Dt.: (23/01/2020)
7	Krushi Vigyan Kendra, Vyara khate terres gardening vishay upar talim karyakram yojayo. GUJARAT RAKSHA, Dt.:(23/01/2020)
8	Krushi Vigyan Kendra, Vyara khate vaigyanik padhdhatithi dhanyano sangrah vishay par talim karyakram yojayo., GUJARAT GARDIAN, Dt.: (23/01/2020)
9	Shehrijano terres gardening dvara sudhdh, taja zer mukt fal ane shakbhaji melvi shake. DHABKAR, Dt.:(23/01/2020)
10	Krushi Vigyan Kendra, Vyara khate Gramin krushi mosam seva antargat khedut talim karyakram yojayo. GUJARAT RAKSHA, Dt.: (23/01/2020)
11	Vyarama jaivik ane sendriya khatarona upyog thi teress gardening ange talim. SANDESH, Dt.:(24/01/2020)
12	Vyara khate 27 mahilao e terress garden ange talim lidhi. DIVYA BHASKAR, Dt.: (24/01/2020)
13	Vyara Krushi Vigyan kendra thaki Ukaima machchaliothi mulya vardhit utpadan vishay upar talim karyakram yojayo. DIVYA BHASKAR. Dt.:(02/02/2020)
14	Krushi Vigyan Kendra, Vyara khate vaignanik salahkar samitini 17 mi bethak mali. DIVYABHASKAR. Dt.: (03/02/2020)
15	Machchaliothi mulyavardhit utpadan vishay upar tridivasiy talim karya kram yojayo. GUJARAT RAKSHA, Dt.:(03/02/2020)
16	Vyara Krushi Vigyan Kendrama vaignanik salahkar samitini 17 mi bethak mali., DIVYA BHASKAR, Dt.:(03/02/2020)
17	Agro-forestry vishay upar tadkuva khate khedut talim shibir yojai.GUJARAT RAKSHA, Dt.:(10/02/2020)
18	Vyarana Panvadima agro forestry vishay upar Shibir. DIVYA BHASKAR, Dt.:(07/02/2020)
19	Vyara: Kheduto mate mushroomni kheti visheni talim yojai. GUJART RAKSHA. Dt.: (24/02/2020)
20	KVK Vyara khate mushroom ni kheti visheni talim karya kram yojai. GUJARAT RAKSHA. Dt.:(24/02/2020)
21	KVK Vyara khate kheduto ni awak vadharva mushroomni kheti dvara udhyog sahsikta vikash visheni talimo yojai. GUJARAT RAKSHA.Dt.:(24/02/2020)
22	Mushroomni kheti dvara kheduto vadharani aavak melvi shake chhe: Dr. C. D. Pandya. SANDESH. Dt.:(20/02/2020)
23	Krushi Vigyan Kendra, Vyara khate bagayat ek udyog vishay upar khedut karyashala yojai. DIVYA SANDESH. Dt.:(21/02/2020)
24	Krushi Vigyan Kendra, Vyara Khate Yojai Khedut Karyashala. GRAMIN TODAY. Dt.:(21/02/2020)
25	Tapi jillana khedutone mushroom ni kheti ange be divas talim aapvama aavi. GUJARAT GARDIAN. Dt.:(22/02/2020)
26	KVK Vyara Khate Bagayat ek udyog vishay upar khedut karyashala yojai. GUJARAT

	RAKSHA.Dt.(24/02/2020)
27	Vyara ma bagayat ek udyog vishay par karya shalama 135 kheduto e bhag lidho. DIVYA BHASKAR. Dt. (23/02/2020)
28	Krushi Vigyan Kendra, Vyara khate Bandharan Diwasni Ujavani Karai. DHABAKAR. Dt.:(26/02/2020)
29	Krushi Vigyan Kendra, Vyara khate Bandharan Divas ni Ujavani Karya kram Yojayo. GUJARAT RAKSHA.Dt.:(02/03/2020)
30	Krushi Vigyan Kendra, Vyara khate 'Mashroomni Kheti' visheni talim yojai. Dhabakar. Dt.: (04/03/2020)
31	Krushi Vigyan Kendra, Vyara khate 'Mashroomni Kheti' visheni talim yojai. Divya Sandesh. Dt.: (04/03/2020)
32	KVK-Vyara khate mashroomni kheti visheni talim yojai. Gujarat Raksha. Dt.:(05/03/2020)
33	Mahila dine Tapi jillama Matrusangam. Divya Bhaskar. Dt. (08/03/2020)
34	Vyarana Krushi Vigyan Kendrane 'Best working innovative technology in agriculture'no award aenayat. Gujarat Gardian. (13/03/2020)
35	Vyara Sthit Krushi Vigyan Kendrane Institutional award .aenayat karayo. Dhabakar. Dt. (13/03/2020)
36	Dolvan ma Vishwa Mahila Din ni Ujavani Karai. Divya Bhaskar. (14/03/2020)
37	Vyara ma 173 Aanganvadi Karyakaro mate Talim Yojai. Divyabhaskar. (14/03/2020)
38	Krushi Vigyan Kendra Vyarane Institutional Award aenayat. Divya Sandesh. (14/03/2020)
39	Krushi Vigyan Kendra Vyarane Institutional Award aenayat. Gujarat Raksha. (14/03/2020)
40	Krushi Vigyan Kendra, Vyara dwara poshan abhiyan antargat aanganvadi karyakaro mate pandurog ane nivaran tatha nutritional kitchen gardening vishay upar inservice talim yojai. Gujarat Raksha. (14/03/2020)
41	Vyara Krushi Vigyan Kendra dwara Dolvan Khate aantar rashtriya mahila din ni ujavani karai. Dhabakar.(14/03/2020)
42	Vyara KVK ne Best working innovative agriculture award. Divya Bhaskar (Krushi Bhaskar). (16/03/2020)
43	Krushi Vigyan Kendra, Vyara dwara Tapi jillana khedutone Halna sanjogo ma kheti pako ange margdarshan. Gujarat Raksha. Dt.(06/04/2020)
44	Krushi Vigyan Kendra, Vyara dwara Tapi jillana khedutone Halna sanjogo ma kheti pako ange margdarshan. Divya Sandesh. Dt.(06/04/2020)
45	Lockdown ni parishthiti ma Krushi Vigyan Kendra dwara khedut talim no navatar prayog. Divya Sandesh. Dt. (12/04/2020)
46	Lockdown ni parishthiti ma Krushi Vigyan Kendra dwara khedut talim no navatar prayog. Gujarat Raksha. Dt. (13/04/2020)
47	Vyara Krushi Vigyan Kendra Dwara lockdown ni sthiti ma online khedut talim no navatar prayog. Divya Bhaskar. (15/04/2020)
48	Tapi jilla ma Shakbhaji Khet pedashona vechan matena suchano. Sandesh. Dt. (18/04/2020)
49	KVK Vyara dwara papadini Vaignanik kheti padhdhati ane unalu shakbhaji pakoma pak sanrakshan vishe dial-out conference dwara marg darshan apayu. Gujarat Raksha. Dt. (20/04/2020)
50	Tapi jillana khedutone dial-out conference thi marg darshanno navatar prayog. Sandesh. Dt.(20/04/2020)
51	Lockdown ni parishthitima mushroom ni mang ma vadharo. Gujarat Raksha. Dt. (27/04/2020)
52	Krushi Vigyan Kendra, Vyara dwara Tapi jillani aadiwasi khedut mahilao ne dial-out conference thaki aarogya vishay upar margadarshan apavano navtar prayog. Gujarat Raksha. (27/04/2020)
53	KVK Vyara dwara Jamin chakashani nu mahatva ane unalama dudhala pashuoni mavajat vishe dial-out conference dwara margdarshan apayu. Gujara raksha. (27/04/2020)
54	Lockdownma KVK Vyara dwara kheduto ne mushroom ni kheti ange online dial-out conference. Gujarat Raksha. (27/04/2020)
55	Vyara Krushi Vigyan Kendra dwara Dial-out conference marfate aadivasi khedut mahilaone xetriy Talim. Gujarat Gardian. (24/04/2020)
56	Lockdownma KVK Vyara dwara kheduto ne mushroom ni kheti ange online dial-out

	conference dwara margdarshan. Divya Sandesh. (24/04/2020)
57	KVK Vyara dwara jamin chakashani nu mahatva ane unalama dudhala pashuoni mavajat ange margdarshan apayu. Divya Sandesh. (25/04/2020)
58	KVK Vyara dwara Tapi jillana Gram sevako mate "Information and communication technologyno krushi xetre upyog" vishay upar dial-out conference dwara margdarshan apayu. Gujarat Raksha. Dt. (04/05/2020)
59	Vyara Krushi Vigyan Kendra dwara Gram sevako mate online Xetriy talim.Sandesh. (03/05/2020)
60	Gujarat rajya mate Rajya kaksha ni krushi margdarshika. Gujarat Raksha. (04/05/2020)
61	Gujarat rajya mate Rajya kaksha ni krushi margdarshika. Hindustan Samachar(daily hunt). (05/05/2020)
62	KVK Vyara dwara lockdown ma online dial-out conferencethi khedut shibir yojai. Divya Sandesh. (06/05/2020)
63	KVK Vyara dwara Sajiv kheti karta khedutone ghar betha margdarshan apayu. Hindustan Samachar(daily hunt). (08/05/2020)
64	Sajiv Kheti ange ghar betha margdarshan apayu. Divya Bhaskar. (10/05/2020)
65	KVK Vyara dwara lockdown ma online dial-out conferencethi khedut shibir yojai. Gujarat Raksha. (11/05/2020)
66	KVK Vyara dwara Sajiv kheti karta khedutone ghar betha margdarshan apayu. Gujarat Raksha (11/05/2020)
67	Krushi Vigyan Kendra Vyara Dwara 42 pashupalakone ghar betha silage visheni mahiti apai. Gujarat Raksha. (12/05/2020)
68	Vyara Krushi Vigyan Kendra Dwara 42 pashupalakone ghar betha silage visheni mahiti apai. Divya Sandesh. (12/05/2020)
69	Krushi Vigyan Kendra Vyara Dwara 42 pashupalakone ghar betha silage visheni mahiti apai.Hindustan Samachar. (12/05/2020)
70	Krushi Vigyan Kendra Vyara dwara 42 pashupalakone ghar betha silage visheni mahiti apai. Dhabakar. (13/05/2020)
71	Krushi Vigyan Kendra Vyara Khate terrece gardening vishay upar dial-out conference yojai. Gujarat Raksha. (15/05/2020)
72	Silage khorak banavava pashupalakone online mahiti aapvama aavi. Divya Bhaskar.(16/05/2020)
73	KVK Vyara dwara Tapi jillani aadivasi khedut mahilaone dial-out conference thaki aarogya vishay upar margdarshan aapvano navtar prayog. Gujara Raksha.(22/05/2020)
74	Aapattine avsarma fervo: Dr. G. R. Patel. Gujarat Raksha. (22/05/2020)
75	Margha Palan Vishay upar Krushi Vigyan Kendra Vyara dwara online Talim. Gujarat Raksha. (22/05/2020)
76	Vyara na Krushi Vigyan Kendrano Dial-out conferencethi aadiwasi mahila khedutone margdarshan no navtar prayog. Gujara Gardian. 23/05/2020.
77	Margha Palan Vishay upar Krushi Vigyan Kendra Vyara dwara online Talim. Divya Sandesh. (24/05/2020)
78	Margha palan babate Vaigyanik padhdhtio ange margdarshan. Divya Bhaskar. (30/05/2020)
79	Tapi ma Kala chokhani safal kheti. Sandesh. (05/06/2020)
80	Tapi jillana Kheduto mate havaman aadharit krushi salah. Gujarat Raksha. (27/07/2020)
81	Be divas bhare varshadni sambhavna: Vyara KVK e kheduto mate 9 august sudhini advisory jaher kari. Divya Bhaskar. (05/08/2020)
82	Krushi vigyan Kendra dwara havaman aadharit krushi salah. Gujarat Raksha. (15/08/2020)
83	Mushroomni Kheti Jagrukata ane Talim karyakramnu online aayojan karayu. Gujarat Raksha. (17/08/2020)
84	Mushroomni kheti ange 110 khedutone online Talim apai. Divyabhaskar. (20/08/2020)
85	Krushi Vigyan Vyara ane Rashtra Sevika Samiti Vyara-Navsari dwara aayojit "Kitchen-Terrace Garden" vishay upar webinar talim yojai. JANADESH. (22/08/2020)
86	Corona Mahamari vachche Krushi Vigyan Kendra dwara online vargo sharu karaya. DIVYA BHASHKAR. (24/08/2020)
87	KVK Vyara ane Rashtra Sevika Samiti, Vyara-Navsari Vibhag dwara aayojit "Kitchen Garden

	ane Terrace Garden" vishaay upar talim karyakram. GUJARAT RAKSHA. (24/08/2020)
88	Vadapradhanano online agriculture universityno karyakram live nihalva khedutone registration karavavu. GUJARAT RAKSHA. (28/08/2020)
89	Kisan Sahay Yojana antargat Tapi jillama Songadh ane Bajipura khate khedut kalyan yojanaono prarambh. GUJARAT RAKSHA. (28/08/2020)
90	Krushi Vigyan Kendra, Vyara dwara havaman aadharit krushi salah. GUJARAT RAKSHA. (31/08/2020)
91	Krushi Jagatno Juno vyavsay che, khedute kareli sauthi moti sodh kheti che. Ishwar Parmar. SANDESH (30/08/2020)
92	Shreejini eco-friendly pratima banavi mahilao bani aatmnirbhar. DIVYA BHASKAR. (31/08/2020)
93	Krushi Vigyan Kendra, Vyara dwara rashtriy poshan mashni ujavani ane vruksha ropan karyakram. JANADESH. (11/09/2020)
94	Rogpratikarak Shakti Vadharva samtol aahar sharir mate khub j jaruri: Dr. C. D. Pandya.SANDESH. (11/09/2020)
95	Vyara Krushi Vigyan Kendra dwara Rashtriya poshan mashni ujavani ane vruksha ropan karayu. SAMANA. (12/09/2020)
96	KVK, Vyara khate khedutoni aavak vadharva mushroomni kheti visheni 4 divasiy talim yojai. GUJARAT RAKSHA. (14/09/2020)
97	Khedut mitro mate aagami panch divasni havamanni parishthiti ane Krishi laxi salah. GUJARAT RAKSHA. (14/09/2020)
98	Krushi Vigyan Kendra, Vyara dwara rashtriy poshan mashni ujavani ane vruksha ropan karyakram. GUJARAT RAKSHA (14/09/2020)
99	Krushi vigyan kendra, vyara dwara tatha IFFCO-tapi dwara rashtriya poshanmahni ujavani antargat nutritional kitchen garden kit vitaran ane vruksha ropan karyakram. GUJARAT RAKSHA. (17/09/2020)
100	Krushi vigyan kendra, vyara dwara tatha IFFCO-tapi dwara rashtriya poshanmahni ujavani antargat nutritional kitchen garden kit vitaran ane vruksha ropan karyakram. DIVYA SANDESH. (17/09/2020)
101	SONGADHNA GHANCHIKUVA ANE MOHPADA GAME KUPOSHAN ANE KORONA JAGRUTI ABHIYAN ANTARGAT TALIM YOJAI. GUJARAT RAKSHA. (18/09/2020)
102	Khedut mitro mate aagami panch divasni havamanni parishthiti ane Krishi laxi salah. GUJARAT RAKSHA. (18/09/2020)
103	Mahilao Kitchen Garden kare to sudhdh shakbhaji male: Prabhu Vasava. SANDESH. (19/09/2020)
104	SONGADHNA GHANCHIKUVA ANE MOHPADA GAME KUPOSHAN ANE KORONA JAGRUTI ABHIYAN ANTARGAT TALIM YOJAI. JANADESH. (19/09/2020)
105	Maahila kheduto sathe poshan masni ujavani.DIVYA BHASKAR. 19/09/2020
106	Gujarat Engineer Earns Rs. 2 Lakh by Growing Mushroom in Parkingshed. The better India (Times of India) e-news. (18/09/2020)
107	Celebration of National Nutrition Month 2020 by KVK, Tapi, Gujarat in Collaboration with IFFCO. ICAR NEWS. (17/09/2020)
108	KVK, Vyara dwara Juvarni poshanukt vanagi harifai ane talim yojai. GUJARAT RAKSHA. (28/09/2020)
109	Vyara Krushi Vigyan Kendra dwara poshanyukt vanagi harifai yojai. SANDESH. (27/09/2020)
110	Vyara nagarni mahilaoe Juvarmathi vividh poshanyukt vanagio banavi. DIVYABHASKAR.(29/09/2020)
111	Krushi Vigyan Kendra, Vyara dwara september mas darmyan rashtriy poshan mas-2020 ni ujavani karvama awi. (01/10/2020)
112	Krushi Vigyan Kendra, Vyara dwara rashtriy poshan mas-2020ni ujavani karvama avi. NEWSELOHIM. (01/10/2020)
113	Krushi Vigyan Kendra, Vyara dwara rashtriy poshan mas-2020ni ujavani. GUJARAT RAKSHA. (05/10/2020)
114	Krushi Vigyan Kendra, Vyara Tapi dwara Rashtrapita mahtma Gandhijini 150mi Janmjayanti nimite karyakram yojayo. GUJARAT RAKSHA. (05/10/2020)

115	Krushi Vigyan Kendra, Vyara Tapi dwara Rashtrapita mahtma Gandhijini 150mi Janmjayanti nimite karyakram. GRAMIN TODAY. (02/10/2020)
116	Krushi Vigyan Kendra, Vyara Tapi dwara Rashtrapita mahtma Gandhijini 150mi Janmjayanti nimite karyakram yojayo. NEWSELOHIM. (02/10/2020)
117	Krushi Vigyan Kendra, Vyara Tapi dwara Rastriyaposhan mas nimitte char divasiy talim shibir yojayo. GUJARAT GARDIAN. (02/10/2020)
118	Krushi Vigyan Kendra dwara september mas darmyan rashrtriy poshan mas-2020ni ujavani. JANADESH. (02/10/2020)
119	VYARA Krushi Vigyan Kendrama Aadiwasi mahilaone vishesh margdarshan karyakram. SANDESH. (05/10/2020)
120	Vyara KVK Gandhi Jayantie Vividh Karyakram. DIVYABHASKAR. (05/10/2020)
121	Krushi Vigyan Kendra, Vyara dwara mahila Kisan divasni Ujavani. GUJARAT RAKSHA. (19/10/2020)
122	Krushi Vigyan Kendra, Vyara dwara mahila Kisan divasni Ujavani Karvama awi. GRAMIN TODAY. (16/10/2020)
123	Navsari Krushi University, sanchalit krushi Vigyan Kendra vyara khate "Mahila Kisan Diwasni" ujavani nimitte karyakramnu aayojan. NEWSELOHIM. (16/10/2020)
124	Krushi Vigyan Kendra, Vyara dwara Mahila Kisan divasni Ujavani. JANADESH. (16/10/2020)
125	Mahilaoe Krushi Pashu palan khsetre vaigyanik technology apnavavi joie: Prabhu Vasava. GUJARAT GARDIAN. (16/10/2020)
126	Krushi Vigyan Kendra, Vyara khate "Vishva Anna Dinani" ujavani karvama awi: sadar karyakram antargat pradhanmantrishri narendrabhai modisaheb dwara sambodhan: NEWSELOHIM. (16/10/2020)
127	Krushi Vigyan Kendra, Vyara dwara vishva anna dinani ujavani karvama awi. Daily hunt (e-news paper). (17/10/2020)
128	Tapina Krushi Vigyan Kendra vyara dwara vishva anna dinani ujavani karvama aawi. GRAMIN TODAY. (17/10/2020)
129	Tapina Krushi Vigyan Kendra vyara dwara vishva anna dinani ujavani karvama aawi. GUJARATRAKSHA. (19/10/2020)
130	Krushi Vigyan Kendra vyara dwara vishva anna dinani ujavani karvama aawi. JANADESH. (17/10/2020)
131	32 mahilaone aadhunik kheti ange margdarshan apayu. DIVYABHASKAR. (19/10/2020)
132	Krushi Vigyan Kendra, Vyara ane pashupalan shakha, Tapina sanyukt upkrame songadhna ghutvel game pashu sarvar camp yojayo. GUJARAT RAKSHA. (26/10/2020)
133	Krushi Vigyan Kendra, Vyara dwara vishva anna dinani ujavani karvama awi. VYARA MIRROR. (22/10/2020)
134	Krushi Vigyan Kendra, Vyara dwara Mahila Kisan Diwasni Ujavani. VYARA MIRROR. (22/10/2020)
135	Krushi Vigyan Kendra, Vyara ane pashupalan shakha, Tapina sanyukt upkrame songadhna ghutvel game pashu sarvar camp yojayo. GRAMIN TODAY. (22/10/2020)
136	KVK dwara ghutvel game aayojit campma 107 pashu ne sarvar karai. DIVYABHASKAR. (26/10/2020)
137	Krushi vigyan kendra, Vyara ane Pashupalan shakha, Tapina sanyukt upkrame songadhna ghuntvel game Pashu sarvar camp yojayo. GUJARAT RAKSHA. (26/10/2020)
138	Vyarama Machchali uchherni shakyata par parisanvaad. DIVYA BHASKAR. (27/12/2020)
139	Krushi Vigyan Kendra, Vyara khate technology week 2020 antargat women in Agriculture day ni ujavani karai. GUJARAT Raksha. (07/12/2020)
140	Shakbhaji pakoma nursery vyavashthapan vishay upar khedut shibirnu aayojan karvama aavyu. VYARA SAMACHAAR. (07/12/2020)
141	Shakbhaji pakoma nursery vyavashthapan vishay upar khedut shibir yojai. DIVYA BHASKAR. (11/12/2020)
142	Tapi jillama suki kheti karanara khedutone tantrikta apanavava hankal. DIVYA BHASKAR. (14/12/2020)
143	Vyara KVK dwara Machchali uchherma rog niyantran vishay upar tran divasni talim apai. DIVYA BHASKAR. (18/12/2020)

144	Vyara KVK dwara Machchali uchherma rog niyantran vishay upar karyashala yojai. DHABAKAR. (18/12/2020)
145	Panjarama thata Machhali uchherma rog niyantran vishay par karyashala ukai khate yojai. JANADESH. (18/12/2020)
146	Vyara Krushi Vigyan Kendrama Kisan ane Vigyan divasni ujavani. SANDESH. (26/12/2020)
147	Krushi Vigyan Kendra-Vyara dwara Kisan ane Vigyan divas ane PM Kisan samman Nidhi Yojana karyakramo yojayo. JANADESH. (26/12/2020)
148	Krushi Vigyan Kendra-Vyara khate Kisan ane Vigyan divas ane PM no online khedut sanvwad yojayo. GRAMIN TODAY. (26/12/2020)
149	Vyara Krushi Vigyan Kendra dwara PM Kisan Samman Nidhi Yojana Karyakramo ujaavaya. GUJARAT GARDIAN. (27/12/2020)
150	Krushi Vigyan Kendra Vyara dwara Kisan ane Vigyan divas ane PM Kisan samman nidhi yojana karyakramo ujavaya. GUJARAT RAKSHA. (28/12/2020)

2. Popular articles

S.N.	**Subject, News Paper/Magazine, Date**
1	Chavan, S. M. and Pandya C. D. (2020), Lockdown ma 0.5 hectare mathi tarbuchni kheti kari 1.55 lakhni upaj medvi. *SANDESH*. Date: 31/05/2020
2	Dr. J. B. Butani and Dr. C. D. Pandya, Pashu marfate manushyama felato itardijanya rog vishe jano. KRUSHI PRABHAT. Date: 02/06/2020
3	Dr. J. B. Butani and Dr. C. D. Pandya, Pashu marfate manushyama felato itardijanya rog. KRUSHI PRABHAT. Date: 03/06/2020
4	Dr. S. M. Chavan and Dr. C. D. Pandya, Mushroomni Khetima Safal Sahsik -Shrimati Anjanaben Gamit. KRUSHI JAGRAN MAGAZINE, (June 2020). Date: 23/07/2020
5	Butani J. B. and Pandya C. D. (2020), Vachhardina uttam Sharirik vikas mate vaigyanik dhabe. KRUSHI PRABHAT. (August 2020). Date: 20/08/2020
6	Butani J. B. and Pandya C. D. (2020), Krimijanya kongo Hemrejik fever: marfate manushyama felato ek itardijanya rog. (August 2020). Date 16/08/2020

3. TV Talks

Sr. No.	**Date**	**Place**	**Subject**	**Resource person**
1	02/03/2020	BISAG studio, Gandhinagar	Mashroom: Gujaratna Kheduto mate Rokadio Paak	Dr. S. M. Chauhan

4.Chapters published in various local publications

Year	**Name of Book**	**Subject/Chapter**	**Authors**
2020	Innovative Agri-Solutions During COVID-19	Providing Marketing Platform for Organic Vegetable Growers	KVK-Tapi

5. Research papers

1	Dhodia A. J., Timbadia C. K. and Gardhariya K. V. (2019). Participation of rural women in agro-based enterprises in South Gujarat. International Journal of Agriculture Sciences. Volume 11(6):8932-8933.
2	Gardhariya K. V., Dhodia A. J. and Pandya R. D. (2019). Scale to measure the attitude of agricultural enterprise owners towards prvate extension services. *International Journal of Agriculture Sciences*. Volume 11 (16): 8938:8939.
3	Gardhariya K. V., Dhodia A. J. and Pandya R. D. (2019). Knowledge and attitude of agricultural enterprises owners towards private extension services. *International Journal of Chemical Studies*. Volume 11 (16): 8938:8939.

4	Dhodia A. J., Gardhariya K. V. and Timbadia C. K. (2019). Scale to measure knowledge of rural women about agro-based enterprises. *International Journal of Chemical Studies.*Volume 7(6):2471-2473.
5	Dharmishtha Patel, Ahlawat T. R., Chawla S. L. Suchismita Jena and Palak Kachchadia (2019). Effect of silicon and seaweed extract on plant growth and leaf nutrient content of papaya cv. Red Lady. International Journal of chemical studies, 7(6): 134-137.
6	Shivkumara, N. R., Ahlawat, T. R., Patel, A. I., Dharmishtha Patel, Suchismita Jena and Chaudhary, A. (2020). Assessment of correlation for yield and its contributing traits in papaya cv. Red Lady Taiwan under South Gujarat conditions. *Journal of Pharmacognosy and phytochemistry*. 9(1): 2200-2203.
7	Asha Chaudhary, Ahlawat, T. R., Sanjeev Kumar, Dharmishtha Patel and Suchismita Jena (2019). Promoting seedling growth in Kagzi lime through pre-sowing treatments. *International Journal of Chemical Studies*.Volume 8(1):2815-2819.
8	Dharmishtha Patel, Ahlawat T. R., Suchismita Jena and Chaudhary A. (2019). Effect of silicon and seaweed extract on plant growth and leaf nutrient content of papaya cv. Red Lady. International Journal of current microbiology and Applied Sciences. 9(1): 504-510.
9	Asha Chaudhary, Ahlawat, T. R., Sanjeev Kumar, Suchismita Jena and Dharmishtha Patel (2019). Promoting seedling growth in Kagzi lime through pre-sowing treatments. *International Journal of Chemical Studies*.Volume 8(1):2815-2819.
10	Kachhadia Palak, Patel, B. N., Bhanderi, D. R. and Dharmishtha Patel (2020). Effect of foliar spray of silicon and boron on fruiting and yield of rejuvenated mango (*Magifera indica L.*) cv. Sonpari. *International Journal of Chemical Studies.* 8(4):1421-1425.
11	Kachhadia Palak, Patel, B. N., Bhanderi, D. R. and Dharmishtha Patel (2020). Effect of foliar spray of silicon and boron on fruit quality and Shelf life of rejuvenated Mango (Magifera indica L.) cv. Sonpari. International Journal of Chemical Studies. 8(4):1421-1425.
12	Soni A. N. and Vema P. D. (2019). Knowledge of tribal women about different types of anemia. *Guj. J. of Ext. Edu.,* Vol 30(2): 149-153.
13	Suchismita Jena, T. R. Ahlawat, A. I. Patel, A. K. Pandey, Dharmishtha Patel and Abhijit Chaudhary (2020). Comparative growth performance of papaya hybrids and their parents under reciprocal crossing system. JEAI, 42(9):167-173.

6. On going research projects:

Sr. No.	Title of Research Study	Investigators
1	Adoption of recommended Sugarcane technologies released for farming community in Tapi district	1. Dr. A. J. Dhodia, Scientist (Extn), KVK, NAU, Vyara, Dist. Tapi 2. Prof. A. N. Soni, Scientist (Home Science), KVK, NAU, Vyara, Dist. Tapi 3. Dr. C.D.Pandya, Senior Scientist& Head, KVK, NAU, Vyara, Dist. Tapi
2	Adoption of "NOVEL" organic liquid nutrient in fruits and vegetable crops in Tapi district	1. Dr. A. J. Dhodia, Scientist (Extn), KVK, NAU, Vyara, Dist. Tapi 2. Dr. D. M. Patel, Scientist (Horticulture), KVK, NAU, Vyara, Dist. Tapi 3. Dr. C.D.Pandya, Senior Scientist & Head, KVK, NAU, Vyara, Dist. Tapi
3	"Development and standardization of scale to measures knowledge of rural women about the agro-based enterprises"	1. Dr. A. J. Dhodia, Scientist (Extn), KVK, NAU, Vyara, Dist. Tapi 2. Dr. C. K. Timbadia, DEE, NAU, Navsari 3. Dr. R. D. Pandya, Department of Extn. Edu., NMCA, NAU, Navsari

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