

PROFORMA FOR ANNUAL REPORT – 2014-15
(01.04.2014 TO 31.03.2015)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra Navsari Agricultural University Bhenskatri Road, Panvadi Vyara, Dist. Tapi, Gujarat-394 650	(02626) 221869	(02626) 221869	kvkvyara@nau.in kvkvyara@yahoo.co.in

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

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

1.3. Name of the Programme Coordinator with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.Chetan D. Pandya (In-charge Programme Coordinator)	-	9898847034	cdpandya_2008@yahoo.co.in

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

1.5. Staff Position (as on 31st March, 2015)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)
1	Programme Coordinator	Dr. C. D. Pandya	In-charge Programme Coordinator	--	Vacant	--	--	--	--
2	Subject Matter Specialist	Dr. C. D. Pandya	SMS	Extension Education	15600-39100 G.P. – 6000	22720	29/07/2009	Permanent	General
3	Subject Matter Specialist	Arti N. Soni	SMS	Home Science	15600-39100 G.P. – 6000	19810	04/04/2008	Permanent	General
4	Subject Matter Specialist	Dr. J. K. Raval	SMS	Veterinary Science	15600-39100 G.P. – 6000	17610	01/04/2011	Permanent	OBC
5	Subject Matter Specialist	Dr. S.M.Chavan	SMS	Plant Protection	15600-39100 G.P. – 6000	15600	10/01/2013	Permanent	General
6	Subject Matter Specialist	Dr. M. R.Gami	SMS	Agronomy	15600-39100 G.P. - 6000	15600	01/03/2013	Permanent	OBC
7	Subject Matter Specialist	Mr. Pravinkumar Modi	SMS	Horticulture	15600-39100 G.P. – 6000	15600	14/03/2013	Permanent	General
8	Programme Assistant	Vacant	Prog. Assi.	--	--	--	--	--	--
9	Computer Programmer	Nisheet R. Patel	Comp. Prog.	--	9300-34800 G.P. - 4400	11270	21/08/2008	Permanent	SC
10	Farm Manager	Mr. V. N. Parmar	Farm Manager	--	9300-34800 G.P.- 4400	11750	23/08/2007	Permanent	General
11	Accountant / Superintendent	Mr. A.N.Vanjaria	Acct. / Super.	--	9300-34800 G.P. 4200	13640	21/11/2011	Permanent	ST
12	Stenographer	Mr. K. R. Parmar	Steno.	--	5200-20200 G.P. - 2400	7810	18/08/2008	Permanent	General
13	Driver	Mr. C. I. Patel	Driver	--	5200-20200 G.P. 1900	6310	23/08/2007	Permanent	OBC
14	Driver	Vacant	Driver	--	--	--	--	--	--
15	Supporting staff	Vacant	Supp. Staff	--	--	--	--	--	--
16	Supporting staff	Vacant	Supp. Staff	--	--	--	--	--	--

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	2.50
2.	Under Demonstration Units	0.50
3.	Under Crops	5.23
4.	Orchard/Agro-forestry	0.80
5.	Others (specify), Poly House, Shed Net House, Vermi-compost Unit	0.45

1.7. Infrastructural Development:

A) Buildings

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Bolero)	2004	4,30,500=00	19289	Working
Tractor	2001	3,31,225=00	175.15 hrs.	Working
Motorcycle	2011	48,816=00	3723	Working

C) Equipments & AV aids

Sr. No.	Name of Equipments/ Instruments/ Farm Machineries	No.	Date of Purchase	Cost (Rs.)	Present Status
1	2	3	4	5	6
(1)	Furniture (Godrej)				
1	Table T-9	4	30/3/2001	26636	Working
2	Table T-104	1	30/3/2001	8515	Working
3	Chair CH-18C	20	30/3/2001	43300	Working
4	Chair PCH-700 B	1	30/3/2001	8168	Working
5	Chair CH-7 B	4	30/3/2001	5692	Working
6	Store Well – Glass Door	1	30/3/2001	9259	Working
7	Slotted Angel Racks	4	30/3/2001	4900	Working
(2)	Mahindra Tractor model 575 DI 45 HP & Accessories	1	30/3/2001	3,31,225	Working
(3)	Photo Copier NP 7160 Canon NPG-1	1	31/3/2001	117274	Not working
(4)	Furniture (Godrej)				
1	Table –T- 402	5	27/12/2002	24600	Working
2	Comp. Table C-6	1	27/12/2002	5255	Working
3	Store Well – Glass Door	1	27/12/2002	9330	Working
4	Store Well Plane	2	27/12/2002	16000	Working
5	Chair CHR-7B	15	27/12/2002	22350	Working
6	Chair PCH-5000 2 T	2	27/12/2002	7230	Working
7	Filing Cabinet	1	27/12/2002	7900	Working
(5)	Computer & Peripherals	1	28/12/2002	51850	Working
(6)	3 KVA on line UPS	1	28/12/2002	38000	Not working
(7)	HP Laser Jet 1200 Printer	1	28/12/2002	20600	Not working
(8)	MSXP standard edition with Indian Longwise Proofing tools	1	30/12/2002	6450	Not Working
(9) 1	CD writer	1	28/12/2002	3025	Working
2	HP Scan jet 2300c Scanner	1	28/12/2002	3700	Not Working
(10) 1	Ceramic steel white writing board 4'x6'	1	21/2/2003	9000	Working
2	Ceramic chalk writing board 4'x 6'	1	21/2/2003	9000	Working
(11) 1	Over Head Projector	1	22/3/2003	27690	Working
2	Plastic screen with tripod stand	1	22/3/2003	4500	Working
(12) 1	LG 29 CA Color TV 29"	1	21/3/2003	26990	Working
2	Thomson 5 in 1 VCD player	1	21/3/2003	6990	Working
(13)	P.A. System				
1	Amplifier SSA 250	1	22/3/2003	9400	Working

Sr. No.	Name of Equipments/ Instruments/ Farm Machineries	No.	Date of Purchase	Cost (Rs.)	Present Status
2	Eco Mixture DMX 40	1	22/3/2003	3249	Working
3	Full Range Speaker SRX 250 D	4	22/3/2003	24472	Working
4	Microphone		22/3/2003		Working
	ALD 101 x LR	1	22/3/2003	1140	Working
	ATP 20 M	1	22/3/2003	489	Working
	WM 201	1	22/3/2003	1615	Working
5	Unit Horn Combination UHC 30 x T	1	22/3/2003	1188	Working
6	Micro Phone Stand		22/3/2003		Working
	DGN	1	22/3/2003	456	Working
	DGT	1	22/3/2003	285	Working
	ATS:5	1	22/3/2003	100	Working
(14)	A.V. Trolley	1	22/3/2003	4132	Working
(15)	Laminated Chart with wooden Frame size 20" x 30"	33	22/3/2003	24420	Working
(16)	Sony Digital Handy cam	1	22/3/2003	32750	Working
1	Power adapter	1	22/3/2003		Working
2	Battery	1	22/3/2003		Working
3	Remote Control	1	22/3/2003		Working
4	AV Connecting Cable	1	22/3/2003		Working
5	Belt shoulder strap	1	22/3/2003		Working
6	Handy Cam Recording Caset	1	22/3/2003		Working
(17)	Automatic slide Projector	1	22/3/2003	13695	Working
(18)	Portable Generator EXK 2000 AC	1	24/3/2003	38200	Working
(19)	Education Exhibition Panel System	1	25/3/2003	13500	Working
1	News Paper Stand	1	25/3/2003	3500	Working
2	Displayer/Book/ Magazine Stand	1	25/3/2003	3500	Working
3	Notice Writing Board with Acrylic Shutter	1	25/3/2003	4450	Working
(20)	Stainless steal Vessels	23	28/3/2003	19450	Working
(21)	Modem	1	31/3/2003	2020	Working
(22)	Laminated Charts with Plywood Framing size 24"x30"	5	12/3/2004	3000	Working
(23)	Colour Enlargement charts	33	29/3/2004	24420	Working
(24)	Jeep Mahindra & Mahindra Bolero D.I.	1	2/12/2004	430500	Working
(25)	Bolero Accessories		2/12/2004	21650	Working
(27)	Whirlpool freeze	1	27/3/2006	15800	Working
(28) 1	Electronic Automatic Kel Pus Microprocessor based eight place macro block digestion	1	27/3/2006	88120	Working

Sr. No.	Name of Equipments/ Instruments/ Farm Machineries	No.	Date of Purchase	Cost (Rs.)	Present Status
	system model KES-08L				
2	Electronic Kel plus micro processor based Automatic Distillation system model distil EM	1	27/3/2006	142300	Working
(29)	Double still with thermo sensor hr (All glass) cat No 2348	1	27/3/2006	33924	Working
(30)	Nova Rotary shaking machine				
1	(a)Capacity 16 flasks of 250 ml	1	28/3/2006	24500	Working
2	(b)Capacity 25 flasks of 250 ml	1	28/3/2006	29750	Working
3	Nova Hot plate Rectangular model NV-8535 stainless steel				
	(a) Size 12" x 20"	1	28/3/2006	8500	Working
	(b) Size 18" x 24"	1	28/3/2006	11250	Working
4	Nova willy mill stain lese steel camber Size 100 x 50 mm	1	28/3/2006	31900	Working
(31)1	Laboratory Table	4	27/3/2006	34400	Working
2	Racks	6	27/3/2006	9000	Working
3	Stools	12	27/3/2006	5400	Working
4	Steel cupboard storewell	4	27/3/2006	19200	Working
5	Steel cupboard storewel	4	27/3/2006	14000	Working
6	Steel racks	4	27/3/2006	8600	
7	Partition racks	3	27/3/2006	22500	Working
8	Office chair	4	27/3/2006	4000	Working
(32)	Systronics make				
1	Micro controller based Digital spectrophotometer model -106	1	27/3/2006	26800	Working
2	Systronics make micro controller based flame photometer compressor model-128	1	27/3/2006	35200	Working
3	Systronics make micro controller based PH meter	1	27/3/2006	10900	Working
4	Systronics make micro processor based conductivity meter	1	27/3/2006	12800	Working
(33)	Hot air oven	1	27/3/2006	21200	Working
(34) 1	Chemical Balance	1	27/3/2006	75000	Working
2	CENTRO FIX WATERBATH	1	27/3/2006	10800	Working
3	CENTRO FIX – Muffle furnace	1	27/3/2006	29500	Working
4	Automatic autoclave	1	27/3/2006	21000	Working
(35)	City weigh balance model ST-	1	27/3/2006	10640	Working

Sr. No.	Name of Equipments/ Instruments/ Farm Machineries	No.	Date of Purchase	Cost (Rs.)	Present Status
	10 Cap- 10 kg				
(36) 1	LG AC-15 ton	1	31/3/2006	23740	Working
2	Micro kjeldahl Assembly	1	31/3/2006	10700	Working
(37)	Burner maker type with stop coke	8	31/3/2006	2000	Working
(38)	Voltas make water cooler	1	31/3/2006	26500	Working
(39) 1	Soft Pin up Board	25	29/11/2007	96250	Working
2	Single Pole Stand	26	29/11/2007	35360	Working
(40)	Microscope for Computer	1	17/3/2008	294028	Working
(41) 1	SDZ – TR – PL – HL Microscope controlled Transformer	1	15/3/2008	209444	Working
2	OP – 150 R Fibre Optic Illumivater	1	15/3/2008		Working
3	GMTV – 33 H High Resolution Coloured CCTV system	1	15/3/2008		Working
(42)	Colony Counter – MSW – 408	1	15/3/2008	5668	Working
(43)	Oven Universal – MSW – 213	1	15/3/2008	65788	Working
(44)	Insect Rating Case	5	17/3/2008	14000	Working
(45)	LG A/C machine 2.0 Ton Split AC with Remote	2	17/3/2008	58680	Working
(46)	LG Refrigeration–280 Lit. Model -295TMG4	1	25/3/2008	18000	Working
(47)	Phillips Grinder – 1618	2	25/3/2008	6000	Working
(48)	Sony Cyber Shot – DSC – W 90	1	25/3/2008	14800	Working
(49) 1	Pressure Cooker – 8 lit.	1	24/3/2008	4500	Working
2	S/A/S Tope – 17”	1	24/3/2008		Working
3	S/A/S Tope – 21”	1	24/3/2008		Working
4	S. S. Cover	2	24/3/2008		Working
(50) 1	Insect Display show cases	4	24/3/2008	17420	Working
2	Insect Show cases cabinet	1	24/3/2008		Working
(51) 1	Compaq Computer – 3250 IL	1	25/3/2008	28950	Working
2	MS XP Professional Vista License Copy	1	25/3/2008	6000	Working
(52)	Top Loading Balance – BH 200 H	1	19/3/2008	28120	Working
(53)	Digital Conductivity TDS Meter Model - 307	1	24/3/2008	11648	Working
(54)	Digital PH meter Model - 802	1	24/3/2008	7006	Working
(55)	Distillation Apparatus (J – sil)	1	24/3/2008	15912	Working
(56)	H/P Laser Jet Printer - 1022	1	25/3/2008	10990	Working

Sr. No.	Name of Equipments/ Instruments/ Farm Machineries	No.	Date of Purchase	Cost (Rs.)	Present Status
(57)	Steel Rack KV-110 78"x36"x15"	5	25/3/2008	9844	Working
(58) 1	Steel Cupboard – 78"x36"x19"	2	23/3/2008	11100	Working
2	Computer Table	1	23/3/2008	3300	Working
3	Computer Chair	2	23/3/2008	5200	Working
(59)	Shaking Incubator – 24 BL	1	25/3/2008	95387	Working
(60)	CentriFuge – R – 24	1	25/3/2008	32025	Working
	Voltage stabilizer 3.0 KVA	1	25/3/2008	6630	
(61)	Double Pan Balance	1	24/3/2008	3640	Working
	Analytical Weight Box	1			
(62)	Gas Cylinder, Regulator, Gas Stove	1	13/3/2008	1930	Working
(63)	B.O.D. Incubator - 270	1	22/3/2008	90534	Working
(64)	KLENZFLO Horizontal laminar clean air work station – 1500c	1	28/3/2008	138320	Working
(65)	Crompton Greaves Fans	4	28/3/2008	6800	Working
(66)	Humidifier (S.S. Body)	1	30/3/2008	11034	Working
(67)	ASPEE Tractamount Bloover fro Intranational	1	30/3/2008	99960	Working
(68)	Panasonic Multifunctional Device Copy/Print/Scan/Fax	1	28/03/2010	14900	Working
(69)	Eco Display Unit Size : 6' x 2'	1	28/03/2010	9625	Working
(70)	DIM System size : 36" x 24"	2	28/03/2010	19250	Working
(71) 1	Podium	1	28/03/2010	4200	Working
2	Podium	1	28/03/2010	4200	Working
(72) 1	LCD Projector - Mo.D.832 Mx	1	06/01/2011	66305	Working
2	VIVITEK Dongel	1	06/01/2011	16910	Working
3	WALTOP 6" Interactive RF Pod	1	06/01/2011	14863	Working
4	Motorized Screen size – 5'x7'	1	06/01/2011	12905	Working
5	Impact 65 T (PA system)	1	06/01/2011	17800	Working
(73) 1	23" – LCD Computer	1	15/10/2010	33420	Working
2	Branded CPU E-Machine		15/10/2010	"	Working
3	Printer – Canon	1	15/10/2010	8500	Working
4	UPS – Umax 600 VA	1	15/10/2010	1850	Working
5	HP Scanner	1	15/10/2010	4500	Working
6	Q.H. Internet Security	1	15/10/2010	1150	Working
(74)	Crystal EPABX system set and accessories	1	11/02/2011	49219	Working
(75) 1	Power Tiller	1	18/02/2011	149430	Working
2	Multi crop Thresher	1	18/02/2011	23100	Working

Sr. No.	Name of Equipments/ Instruments/ Farm Machineries	No.	Date of Purchase	Cost (Rs.)	Present Status
		1	18/02/2011	26000	Working
3	Power Sprayer	1	18/02/2011	24850	Working
4	Winnower	1	18/02/2011	24150	Working
5	Seed cum Ferti. drill	1	18/02/2011	28880	Working
(76) 1	Steel Cupboard 18"X 36"X 78"	9	8/1/2011	58977	Working
2	Visitor Chair	25	8/1/2011	48475	Working
3	Rack- 6 X 3 X 1 foot	15	8/1/2011	43170	Working
4	Rivolving Chair	6	8/1/2011	21810	Working
*(77) 1	Gayatri two-way Leveller Heavy Duty	1	11/3/2011	12600	Working
2	Gayatri Cultivator Heavy Duty	1	11/3/2011	20700	Working
*(78)	Plough & Harrow	1	17/2/2011	19000	Working
*(79) 1	Rotavator- 5.25	1	13/3/2011	60380=95	Working
2	Hydrolic trailer	1	13/3/2011	102380=90	Working
(80)	Varoon Vinowing Monoblock Electric Fan	1	25/3/2011	6900	Working
(81)	Splender Pro Kick Spoke	1	31/3/2011	41860	Working
(82)	Sub-mersible pump set 2 H.P. with accessories	1	28/3/2011	14600	Working
(83) 1	Steel Cupboard	13	28/12/2012	71500	Working
2	Table (4 X 2.5) rek	10	28/12/2012	35000	Working
3	Steel Coat (6 X 3.5)	10	28/12/2012	40000	Working
4	Sofa set- Tipoi	1 set	28/12/2012	17500	Working
5	Chair-Table-Tipoi	1 set	28/12/2012	7500	Working
6	News paper stand	3	28/12/2012	3150	Working
7	Computer Table-Chair	2	28/12/2012	12558	Working
8	Water cooler	2	28/12/2012	84000	Working
9	Post weigh balance	2	28/12/2012	2100	Working
10	Steel cupboard	2	28/12/2012	37000	Working
84 1	Sofa three seater waiting chair	20	13/1/2012	62980	Working
2	Fix Chair	10	13/1/2012	23090	Working
85	10 H.P. 4 stage falkan sub- mersible pump set with accessesories	1 set	4/2/2012	64125	Working

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

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

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1	20/02/2015	<ol style="list-style-type: none"> 1. Dr. C. J. Dangaria, Chairperson, Hon. Vice Chancellor, Navsari Agricultural University, Navsari 2. Dr. G. R. Patel, Member, Director of Extension Education, Navsari Agricultural University, Navsari 3. Dr. B. N. Patel, Member, Director of Research, Navsari Agricultural University, Navsari 4. Dr. V. P. Patel, Member, Associate Research Scientist, Regional Rice Research Station, Navsari Agricultural University, Vyara 5. Dr. C. D. Pandya, Member Secretary, Programme Co-ordinator, KVK, Vyara 6. Dr. M. S. Dudhat, Member, Principal (Agronomy Expert), Polytechnic in Agriculture, Navsari Agricultural University, Vyara 7. Dr. S. T. Bhatt, Member, Assistant Professor (Horticulture Expert), Polytechnic in Agriculture, Navsari Agricultural University, Vyara 8. Mr. Prafulbhai Patel, Member, District Agriculture Officer, Department of Agriculture, District Panchayat, Vyara, Tapi 9. Dr. C. M. Rana, Member, Deputy Director of Animal Husbandry, District Panchayat, Tapi District, Vyara 10. Mr. K. B. Tandel, Member, Assistant Director (Fisheries), Near CRPF Campus, Ukai, Dist. Tapi 11. Mr. Prafulbhai Patel, Member, Project Director, ATMA-Tapi 12. Nutanben Chaudhari, Agri-Entrepreneur, Kalakawa, Ta. Vyara 13. Lilaben Gamit, Progressive Women Farmer, Member of GSSC Ltd., Gandhinagar, At. Bedi, Ta. Songadh, Dist. Tapi 14. Induben Ramanbhai Gamit, Member, KVK SHG, Kapura, Vyara, Dist. Tapi 15. Mr. D. I. Parmar, Invitee Member, Deputy Commissioner and General Manager & District Industrial Centre, Station 	<ol style="list-style-type: none"> 1. In collaboration with SEWA, seed production through organic farming should be conducted in the adopted villages of SEWA. Farmers should be appreciate for green manuring for soil improvement. 2. For large scale demonstration of kitchen garden seeds of different vegetables should be supplied free of cost to the farmers of adopted villages of KVK. 3. In collaboration with SEWA, certified seeds should be produced from the farmers of adopted villages under seed village programme. 4. Training should be conducted to increase awareness among farmers regarding pesticide residues in okra and scientific cultivation of okra. 5. FLD should be conducted on Integrated Nutrient Management (INM) in papaya. 6. Exposure visit of farmers to research centre should be arranged. 7. Awareness programme regarding importance of soil and water testing, though different extension activities should be conducted in Nizar block. 8. FLD should be conducted in wheat. 9. Different programme should be arranged for farm women in collaboration with SEWA, Vyara. 10. FLD should be conducted on 	Incorporate in Annual Action Plan:2015-16

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
		<p>Road,Vyara</p> <p>16. Mr. K. L. Khant, Invitee Member, District Registrar, Co-operative Societies, O/P. Market Yard, Vyara,Dist.Tapi</p> <p>17. Mr. Ghanshyambhai Patel, Invitee Member, Bahurupa, Ta. Nizar</p> <p>18. Mr. D. T. Desai, Invitee Member, Private Agro Dealer, Patidar Agro Centre, Market Yard, Vyara, Dist. Tapi</p> <p>19. Mr. Bhupendrabhai Desai, Invitee Member, Small Farmer, Valod</p> <p>20. Mr. Nirav Kansara, Invitee Member, Reporter, TV-9 Local Channel, Vyara Zone</p> <p>21. Mr. Harishbhai Shah, Invitee Member, Press Reporter, Gujarat Samachar</p> <p>22. Mrs. Jayaben Vaghela, Invitee Member, Project Co-ordinator, Sankalit SEWA, Vyara</p> <p>23. Mr. Ranjitbhai Chaudhari, Invitee Member, Resource Peson of KVK & Farmer, Unchamala, Ta. Vyara</p> <p>24. Mr. Homibhai Jokhi, Invitee Member, Kapura, Ta. Vyara</p> <p>25. Mrs. Lilaben Gamit, Invitee Member, Representative of Hangati Mahila Trust, Mandal</p> <p>26. Mrs. Sangitaben, Invitee Member, At. Dolvan, Ta. Dolvan, Dist. Tapi</p> <p>27. Mrs. Chandrikaben, Invitee Member, At. Dolvan, Ta. Dolvan, Dist. Tapi</p> <p>28. Mr. Gumanbhai Narshibhai Chaudhari, Invitee Member, Resource Person of KVK & Farmer, At. Bedvan Bhensrot, Ta. Songadh, Dist. Tapi</p> <p>29. Mr. Pravinbhai Chaudhari, Progressive Farmer, Village : Kalakava, Ta. Vyara</p> <p>30. Mr. Sunilbhai D. Patel, Progressive Farmer, Village : Bahurupa, Ta. Nizar</p> <p>31. Mrs. Arunaben Gamit, Representative, Hangati Mahila Trust, Village : Aamalgundi, Ta. Songadh</p>	<p>Integrated Pest and Disease Management (IPDM) in cucurbitaceous vegetables and fruit crops.</p> <p>11. Training should be conducted on marketing of agricultural produce.</p> <p>12. Awareness programme regarding organic farming and technical guidance about organic farming in different crops particularly green gram, paddy and summer groundnut should be provided in adopted villages of SEWA.</p>	<p>Incorporate in Annual Action Plan:2015-16</p>

*** Attach a copy of SAC proceedings along with list of participants- Annexure – I**

2. DETAILS OF DISTRICT (2014-15)

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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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. Agro-ecosystems

Sr. No.	Agro ecological situation	Characteristics
1.	Situation I	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 type/s

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

S. No.	Crop	Area (ha)	Total Production (Est.)(M.T.)	Productivity (kg/ha)
Rabi-Summer: 2013-14				
1	Wheat	5500	17000	3000
2	Rabi Sorghum	4000	58000	1450
3	Maize	200	26000	1300
4	Gram	3000	28000	3000
5	Sugarcane	21500	1677000	78000
6	Indian bean (Val)	2300	2070	900
7	Pea	105	788	7505
8	Other pulses	100	450	4500
9	Castor	150	1275	8500
Total		36855	1810583	108155
Kharif: 2014				
1	Irrigated Paddy	28885	69324	2400
2	Un-irrigated Paddy	25630	28193	1100
3	Kharif – Sorghum	10632	12758	1200
4	Kharif – Maize	1217	1642	1350
5	Soybean	5113	5113	1000
6	Kharif – Pigeon pea	14638	13174	900
7	Kharif – Green gram	407	305	750
8	Black gram	2529	758	300
9	Other Kharif Pulses	242	97	400
10	Kharif Groundnut	1968	3132	1500
11	Irrigated Cotton	2788	72488	2600
12	Un-irrigated Cotton	5617	6740	1200
Total		99666	213724	14700

Source: DAO, Department of Agriculture, District Panchayat-Tapi, Vyara

Horticultural Crops: (2013-2014)

Sr. No.	Crop	Area (Ha.)	Production (M.T.)	Productivity (M.T./Ha)
A	Fruits			
	Mango	5480	39300	7.17
	Sapota	87	101	1.16
	Lemon	21	220	10.48
	Ber	0	0	0
	Banana	1665	85464	51.33
	Guava	15	165	11
	Pomegranate	51	46	0.9
	Papaya	2150	96750	45
	Custardapple	39	273	7
	Aonla	11	80	7.27
	Cashewnut	275	81	0.29
	Coconut	60	520	8.67
	Date palm	3	0	0
	Others	210	1424	6.78
	Total	10067	224424	22.29
B	Vegetables			
	Potato	1	50	50
	Onion	397	13101	33
	Brinjal	1630	35860	22
	Cabbage	18	414	23
	Okra	8770	105240	12
	Tomato	560	13440	24
	Cauliflower	10	200	20
	Clusterbean	616	5236	8.5
	Cowpea	430	3440	8
	Cucurbits	3287	73859	22.47
	Others	455	10465	23
		Total	16174	261305
C	Spices			
	Cumin	0	0	0
	Fennel	0	0	0
	Chilli-Green	2225	24787	11.14
	Chilli-Dry		2559	1.15
	Garlic	185	1326	7.17
	Coriander	40	67	1.68
	Ginger	120	2083	17.36
	Turmeric	195	3656	18.75
	Fenugreek	24	192	8
	Isabgul	0	0	0
	Ajawain	67	43	0.64
	Suva	27	13	0.48
	Others	0	0	0
		Total	2883	34726
D	Flower			
	Rose	55	495	9
	Marigold	155	1860	12
	Mogra	5	20	4
	Lily	13	117	9
	Others	115	690	6
	Total	343	3182	9.28

Sr. No.	Crop	Area (Ha.)	Production (M.T.)	Productivity (M.T./Ha)
E	Aromatic and medicinal plants			
	Aloe vera	11	165	15
	Ashwagandha	0	0	0
	Chireta (kariyatu)	0	0	0
	Vetiver Khas (New Crop)	15	0	0
	Aamba Haldi	7	112	16
	Gugal	0	0	0
	Total	33	277	8.39

Source: Department of Agriculture, DAO and Deputy Director of Horticulture, Vyara

2.5: Weather data

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
April-14	0	34.0	17.0	68.00
May-14	46.0	40.7	24.3	78.00
June-14	54.0	36.9	22.6	83.90
July-14	447.0	35.5	20.9	89.00
August-14	208.3	34.3	19.3	91.00
September-14	229.0	33.5	18.7	90.00
October-14	0	32.3	16.6	85.00
November-14	17.0	31.2	16.0	75.00
December-14	0	28.7	11.6	78.00
January – 15	12.0	28.7	10.5	74.10
February-15	0	26.7	10.6	71.50
March-15	0.8	30.8	14.6	67.30

Source: Regional Rice Research Station, NAU, Vyara

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

Category	Population	Production ('000 tones)	Productivity (kg/day)
Cattle			
<i>Crossbred</i>	45123	69.83	7.391(Milk)
<i>Indigenous</i>	169421	27.08	3.298(Milk)
Buffalo	176458	92.23	4.215(Milk)
Sheep	1000	1.08 metric tonnes	1.058 kg wool/sheep
Goats	96599	2.90	0.298 (Milk)
Pigs	2723	--	--
Rabbits	1576	--	--
Poultry			
<i>Deshi</i>	428400	139.68 lakh egg	116 eggs per layer/year
<i>Improved</i>	115700	264.59 lakh egg	314 eggs per layer/year
Donkey	1943	--	--

* **Source:** 29th survey report on estimates & major livestock products for the years 2011-12 Guj. State, Directorate of Animal Husbandry, Gandhinagar

2.7 Details of Operational area / Villages (2014-15)

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Vyara	Unchamala	Unchamala	Paddy Groundnut Gram Sugarcane Vegetables Sorghum Moong	<ul style="list-style-type: none"> ▪ Lack of technological knowledge among farmers ▪ Poor drainage of soil ▪ Adoption level of farmers is very low ▪ Lack of Knowledge about scientific method of fruit & vegetable preservation ▪ Low milk production ▪ Lack of knowledge about inter cropping ▪ High mortality rate in calf 	<ul style="list-style-type: none"> ▪ IPM in field crops ▪ Land configuration ▪ High value horticulture crop cultivation ▪ Short duration vegetable crops ▪ Milch animal management ▪ Calf rearing ▪ Fruits & vegetable preservation Practices of inter crops in sugarcane
2.	Vyara	Vaghpani	Vaghpani	Paddy Groundnut Gram Vegetables	<ul style="list-style-type: none"> ▪ Productivity of major crops is very low ▪ Majority of the area is un-irrigated ▪ No scope for other crops due to erratic heavy rainfall ▪ Lack of technology knowledge in farmers ▪ Poor food grain storage practices ▪ Inadequate intake of fruits & vegetables ▪ Poor economic condition ▪ Poor livestock management & disease management 	<ul style="list-style-type: none"> ▪ Crop production technology ▪ IPM in field crops and vegetables ▪ Storage of fruit grains ▪ Health & nutrition for vulnerable groups ▪ Introduction of soybean crop to replace drilled paddy ▪ Livestock management ▪ Kitchen gardening ▪ Income generating activities ▪ Crop diversification
3.	Vyara	Garvan	Garvan	Paddy Sorghum Pigeon pea Gram, Wheat Sugarcane Groundnut Black gram Green gram	<ul style="list-style-type: none"> ▪ Adoption level of farmers is very low ▪ Lack of technological knowledge among farmers ▪ Less awareness towards diseases control in animal ▪ Poor economic condition ▪ Low milk production 	<ul style="list-style-type: none"> ▪ Crop production technology ▪ IPM in field crops and vegetables ▪ Livestock management ▪ Kitchen gardening ▪ Income generating activities ▪ Crop diversification

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				Vegetables		
4.	Vyara	Kalakawa	Kalakawa	Paddy Ground nut Okra Sorghum Pigeon pea Pulses	<ul style="list-style-type: none"> ▪ Frequent application of insecticides at higher doses in vegetables ▪ No management of powdery mildew ▪ High seed rate of paddy and other crops ▪ Imbalance use of fertilizers ▪ No use of organic manures ▪ Lack of dietary pattern of pregnant woman and nursing mothers ▪ Inadequate intake of fruits and vegetables ▪ Poor animal management ▪ Lower economic condition 	<ul style="list-style-type: none"> ▪ Integrated Nutrient management in okra ▪ Integrated pest management in okra ▪ Crop production technology for field crops ▪ Increase area under vegetables ▪ Replacing drilled paddy with soybean ▪ Kitchen gardening ▪ Value addition in field crops ▪ Vermi-composting ▪ Income generation activities
5.	Valod	Degama	Degama	Sugarcane Paddy Groundnut Vegetables	<ul style="list-style-type: none"> ▪ Lack of technological knowledge about crop production technology ▪ Lack of knowledge about fruits & vegetable preservation ▪ Level of adoption in field crops & vegetables are very low ▪ SHGs is not active ▪ No cooperative society ▪ Lack of knowledge about insect & pest ▪ Lack of knowledge about Sugarcane & vegetable 	<ul style="list-style-type: none"> ▪ Crop production technology ▪ Value addition ▪ Income generating activities ▪ Activation of SHGs ▪ IPM in field crops & vegetables ▪ INM in vegetables & sugarcane
6.	Songadh	Vadpada pra Umarda	Vadpada pra Umarda	Paddy Pigeon pea Sorghum Groundnut Sugarcane	<ul style="list-style-type: none"> ▪ Low irrigation facility ▪ Erratic heavy rainfall ▪ Majority of area has light soil with undulated land ▪ Low technological level among 	<ul style="list-style-type: none"> ▪ Increase area under drip irrigation ▪ Low-cost green house ▪ Storage of food grains ▪ High-value horticultural crop

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				Okra Brinjal	farmers <ul style="list-style-type: none"> Poor economic status Poor food grain storage Lack of awareness about health & nutrition 	<ul style="list-style-type: none"> Increase area under pulses and oil seed crops in un-irrigated area Crop production technology Health and nutrition for vulnerable groups Kitchen gardening Income generation activities
7.	Songadh	Borkuwa	Borkuwa	Paddy Pigeon pea Soybean Sorghum Sugarcane Gram Groundnut Vegetables	<ul style="list-style-type: none"> Lack of guidance about new agricultural technology Fear in adoption of new technology Low awareness about Agriculture and Animal Husbandry Poor animal management Equipments (Oil-engine) for irrigation is very less Poor food grain storage practices Lack of awareness about Health & Nutrition 	<ul style="list-style-type: none"> Introduction of soybean crop to replace drilled paddy ICM Dry land horticulture Advanced irrigation methods Organic farming Vermi – composting Balanced diet for animal Care of milch animal Kitchen gardening Replacing the paddy with vegetable in well drained soil Increase area under vegetable Food grain storage Health & Nutrition for pregnant & lactating mother & children Increase area under drip irrigation
8.	Songadh	Aamalgundi	Aamalgundi	Paddy Ground nut sorghum Pigeon Pea Gram	<ul style="list-style-type: none"> Low irrigation facility Erratic heavy rainfall Use of local variety Use of high seed rate No seed treatment No use of organic manures Unbalance use of fertilizers No weeding 	<ul style="list-style-type: none"> Crop production technology (ICM in major crops) Integrated pest and disease management in paddy & Ground nut Low cost green house Modern method of irrigation Land configuration in ground

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
					<ul style="list-style-type: none"> ▪ Low adoption level of farmers ▪ Poor live stock management ▪ Use of only chemical control of pest management in vegetables ▪ No supplementary feeding at right time to children ▪ Inadequate intake of fruits and vegetables 	<ul style="list-style-type: none"> ▪ nut and pigeon pea ▪ Marketing management ▪ Live stock management ▪ Dietary management of pregnant and nursing mother ▪ Kitchen gardening
9.	Uchchhal	Bhadbhunja	Bhadbhunja	Paddy Gram Pigeon pea Sorghum Vegetables Black gram Maize	<ul style="list-style-type: none"> ▪ Lack of knowledge about scientific package of practices of different crops ▪ Lack of awareness about insects and pests & diseases ▪ Lack of knowledge about soil analysis ▪ Lack of knowledge about balanced nutritional diet ▪ Lack of knowledge about fruits & vegetable preservation ▪ Inadequate intake of fruits & vegetables ▪ Disease management 	<ul style="list-style-type: none"> ▪ Introduction of soybean crop to replace drilled paddy ▪ Crop production technology ▪ Awareness about insects, pests and diseases ▪ Short duration vegetable cultivation if Arid horticulture development ▪ Gobar gas plant ▪ Vermi composting ▪ Compost making ▪ Kitchen gardening ▪ Bucket drip ▪ Increase area under oil seed and pulse crops ▪ Fruit & vegetable preservation ▪ Balanced diet from locally available food material ▪ Give demonstration of silage and urea treatment ▪ Training on vaccination and de-worming
10.	Uchchhal	Dhaj	Dhaj	Paddy Pigeon pea Sorghum Gram	<ul style="list-style-type: none"> ▪ No facilities for irrigation after October ▪ Soil of this area is very light ▪ Uneven distribution of rainfall 	<ul style="list-style-type: none"> ▪ Increase area under Soybean ▪ Low cost production technology and drip irrigation ▪ Income generation activities

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				Maize Groundnut	<ul style="list-style-type: none"> ▪ Socio-economic condition is very poor ▪ No knowledge of scientific agricultural production technology and animal husbandry ▪ Youth club is not active ▪ Poor livestock management ▪ Lack in dietary pattern of pregnant & nursing mother and children ▪ Lack of awareness about health & nutrition ▪ High mortality in calf 	<p>and kitchen gardening</p> <ul style="list-style-type: none"> ▪ Livestock management ▪ Disease management ▪ Initiating youth club activities ▪ Women and child care ▪ Low cost green house ▪ Calf rearing
11.	Nizar	Bahurupa	Bahurupa	Cotton Papaya Banana Wheat Gram Soybean Castor Sorghum	<ul style="list-style-type: none"> ▪ High cost of cultivation in field crops ▪ Poor marketing ▪ Lack of availability of inputs ▪ Poor grain storage practices ▪ Lack of knowledge about insect & pest in Cotton ▪ Poor Livestock management 	<ul style="list-style-type: none"> ▪ Crop production technology ▪ IPM in Cotton ▪ Value addition, INM and IPM in Papaya and Banana ▪ Marketing management ▪ Food grain storage ▪ Livestock management ▪ Seed production in Wheat
12.	Nizar	Piplod	Piplod	Cotton Gram Wheat Sorghum Soybean Papaya Banana	<ul style="list-style-type: none"> ▪ High cost of cultivation ▪ Information centre is far away from the village ▪ Poor marketing ▪ Lack of technological knowledge about crop production technology ▪ Lack of knowledge regarding IPM ▪ Highly dependent on Private Traders for agricultural information ▪ Weed management in black soil is a big problem ▪ High production cost due-to lift irrigation 	<ul style="list-style-type: none"> ▪ Crop production technology ▪ IPM in cotton ▪ Increase area under papaya crop ▪ Popularize maize crop ▪ Introduction of chemical weed control ▪ Value addition in soyabean and papaya ▪ Tissue culture banana. ▪ Value addition, INM and IPM in Papaya and Banana ▪ Seed production in wheat

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Paddy, Sorghum, Groundnut, Vegetables, Sugarcane, Oilseed crops & pulses	Crop production management (ICM), Value addition and precision Farming.
Drumstick, Custard apple	Dry land horticulture, Value addition
Vegetables, Soybean, Groundnut, Gram	Organic farming, PHT and Value addition
Paddy, Sugarcane, Cotton, Groundnut	Integrated Pest management, INM, ICM and Micro Irrigation
Paddy, Sorghum, Sugarcane, Cotton, Groundnut, Vegetables	Integrated Nutrient management, PHT, Marketing and Protective cultivation.
Green house technology, Drip irrigation, High value crops	High tech horticulture and high valued crops.
Soybean, Sorghum, Pigeon pea	Soil and Water conservation, value addition and IPM
Sugarcane, Paddy, Vegetables, Maize	Water management, Fertigation, Herbigation
Low cost green house	Low cost green house and small scale Nursery Management
Formation of Self Help Groups	Women empowerment and self reliability through Entrepreneurial development
Sewing & Preservation	Self employment to farm women and rural youth
Fruits, Vegetables, Cereals & pulses	Value addition
Dairy management	Management of milch animals, Disease management and Breeding Practices and Balanced feeding throughout the year in local situation
Health & Nutrition	Health & nutrition for vulnerable groups ,Malnutrition and Sick cell awareness
Soybean & Vegetables	Introduction of Soybean & Vegetables instead of drilled paddy (Crop diversification), Value addition and High recurring
Okra, Tomato, Watermelon	Off-season cultivation, plastic mulching, Fertigation, herbigation, Tissue culture

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2014-15

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs(ha/No.)		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
7	7	96	96	117/180	117/180	448	566

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	59	96	1180	2990	1995	3440	3600	142208
Rural youth	17	13	340	389				
Extension Functionaries	6	4	120	131				
Total	82	113	1640	3510	1995	3440	3600	142208

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
127.50	257	7,35,000	2,34,923

3.B. Abstract of interventions undertaken

Sr. 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	Crop production management	Paddy, Sugarcane, Gram, Pigeon pea, Green gram, Castor and Okra	Use of local variety, High seed rate, Imbalance use of fertilizers, No use of bio fertilizer	Low yield of Gram Planting geometry in Okra	Introduction of new varieties- Paddy(NAUR-1, GAR-7, Gurjari, GNR-3 & Gram(GG-2, PKV-2), Pigeonpea(Vaishali), Sugarcane (CON-7072), Castor(GCH-7), Green gram(Meha), and Adaptive trials	Scientific Cultivation of major crops	--	Khedut shibirs, Kishan Goshthi, News paper coverage, film show, Exhibitions, Guest lecture, Extension literature & book distributed etc.	Seeds of improved varieties - paddy, Gram, Pigeon pea, Green gram, Castor, Sugarcane, Okra, Bio fertilizers etc
2	Dry Land Horticulture	Drum stick Custard apple, Ber, guava, Vegetables	Due to major rain fed area, and inadequate irrigation facility cultivated area under fruits and vegetable is very less and per capita consumption is also less	--	--	Arid horticulture development in rain fed area	--	Khedut shibirs, Film show, TV talk, Guest lecture, Exhibitions, Field visit, Extension literature & book distributed etc.	Seeds and seedlings of different vegetables in Plug tray and planting materials of mango, drum stick and custard apple
3	Organic farming	Vegetables, Groundnut, Gram, Soybean	High use of chemicals	--	--	Training on organic farming in different crops,	--	Seminar, Khedut shibirs, News paper coverage, Film show, Exhibitions, Guest lecture,	Supply of Vermicompost, Biocompost and Biofertilizers.

Sr. 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.
								Field visit, Extension literature & book distributed etc.	
4	Integrated Pest Management	Brinjal, Okra, Cotton, Mango cucurbits	Farmers are unable to manage disease and insect pest even though frequent application of insecticides at higher doses	Low productivity in cotton	IPM in paddy, cotton, brinjal, okra, Mango, cucurbits and IDM in Gram	IPM and IDM in different crops	--	Field days, Khedut shibirs, News paper coverage, Film show, TV talk, Exhibitions, Method demo., Diagnostic visit, Guest lecture, Extension literature & book distributed etc.	Pheromone traps, Methyl eugenol traps, cue-lure fruitfly trap, Neembased pesticides, yellow sticky trap, trichocard, trichoderma, chemical pesticides etc
5	Integrated Nutrient Management	Brinjal, Okra, Papaya, Soybean	Imbalance use of fertilizers farmers are unable to harvest good crop	INM through fertigation in papaya	INM in okra, brinjal, soybean	INM in vegetables , cereals and pulse crops	--	Field days, Seminar, Khedut shibirs, Film show , Field visit, Exhibitions, Extension literature & book distributed etc.	Bio compost & Chemical Fertilizers, Potassium Nitrate
6	High tech Horticulture	Green house technology, Drip irrigation, High value crops	Due to lack of technological knowledge farmers are unable to get good returns	--	--	Green house technology	--	Khedut shibirs, Seminar, Film show , Field visit, Exhibitions, Extension literature & book distributed etc.	Saplings of all of the vegetable crops in Plug Nursery and Plug trays along with

Sr. 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.
									Root treatments of Biofertilizers, Hormones and pesticides.
7	Soil & water conservation and water management	Pigeon pea, Groundnut, Gram	Heavy rainfall and water logging cause high mortality of plants	--	--	Land configuration in field crops, Importance of Soil and water conservation and soil & water testing	--	Khedut shibirs, Kishan Goshthi, News paper coverage, Film show, Soil and Water sample analysis, Exhibitions etc.	--
8	Low Cost Green House	Major crops	Poor economic condition of farmers	--	--	Low cost green house	--	Khedut shibirs, Guest lecture, Film show, Exhibitions, Extension literature distributed etc.	--
9	Women empowerment	Activation of Self Help Groups/ Sakhi mandal	Poor socio-economic condition of farm women	--	Kitchen garden, Improved sickle for paddy harvesting to reduce women drudgery, <i>POSHAK AAHAR</i> for malnourished children	Health & Nutrition, Fruits & Vegetable preservation, Importance of SHG, Drudgery reduction technology, Income generation activities	--	Mahila shibirs, Ex-trainee meeting, News paper coverage, Film show, SHG meeting, Field day, Pashupalan Shibir, FLD/OFT meeting, Field visit, Publication, Exhibitions, Method demo.,	Seeds & seedlings of vege., , Bio-fertilizers, Fruitfly trap, Yellosticky trap for kitchen garden, Poshak Aahar, Improved agricultural implements for

Sr. 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.
								Extension literature distributed, Women day celebration etc.	Women drudgery reduction.
10	Self employment to Rural youth and farm women	Fruits & vegetables, Farm machinery & implements	Poor economic condition of farmers	--	--	Vocational training on Value addition, Nursery management of Horti. crops, Entrepreneurial development of farmers/Ry	Care & maintenance of farm machinery & implements	Method of demonstration, Ex-trainee meeting, Exhibitions, Method demo., Extension literature distributed, Popular Articles etc	--
11	Value addition	Fruits, Vegetables, Cereals & Pulses	Low price of the products	--	--	Training on Value Addition	--	Khedut shibir, News Paper Coverage, Method Demonstration, Guest lecture	--
12.	Management of Milch animals	management of dairy animals	Poor management of dairy animals	Effect of concurrent use of mineral mixture & deworming on growth rate of calves	Bypass fat feeding to buffaloes, Estrus synchronizing Hormone (Prostaglandin F2 alpha)	Daily requirement of Nutrition in milch animal, Scientifically calf rearing	--	Pashupalan shibir, Khedut shibirs, Animal health camp, Film show, Extension literature distributed etc	Mineral mixture, Albendazole tablet, By-pass Fat and Hormones
13.	Health & Nutrition for Vulnerable groups	Pregnant and Lactating women,	Malnutrition	Design & development of high protein &	Kitchen garden, POSHAK Aahar for malnourished children	Health & Nutrition, Kitchen Gardening,	Malnutrition in children & its control measures	Mahila Shibir, News Paper coverage, Field Day, SHG	Seeds & Seedling of vegetables, Bio-fertilizers,

Sr. 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.	
		Infant and children		energy rich diet for malnourished children, Design & development of low cost iron rich diet for Anemic farm women			Nutritional deficiencies& its management, Balance Diet from locally available food material etc.		Meeting, Film Show, Ex-trainee meeting, Women day celebration, FLD/OFT meeting, Field visit, Publication, Exhibitions, Method demo., Extension literature & book distributed etc.	Fruitfly trap, Yellosticky trap for kitchen garden, Poshak Aahar, Nutritious Food mix,Iron rich foodstuffs
14.	Crop Diversification	Soybean and Vegetables	Low yield of drilled paddy	--	--	Scientific cultivation of Soybean & Vegetables	--	Khedut Shibir, Guest lecture, Film Show etc.	--	
15.	Off-season cultivation	Okra, Tomato, Watermelon	Low Market Value	--	--	Scientific cultivation of Off-season crops	--	Field Day, Khedut Shibirs, Film Show, Extension literature distributed etc.	--	

3.1 Achievements on technologies assessed and refined

A.1 Abstract of the number of technologies **assessed*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Crop Management	-	-	1	-	1	-	-	-	-	2
Integrated Nutrient Management	-	-	-	-	-	1	-	-	-	1
TOTAL	-	-	1	-	1	1	-	-	-	3

A.2 Abstract of the number of technologies **refined*** in respect of crops/enterprises

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

* *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

A.3 Abstract of the number of technologies **assessed** in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Children	TOTAL
Nutrition Management	2	-	-	-	-	-	-	1	3
TOTAL	2	-	-	-	-	-	-	1	3

A.4 Abstract on the number of technologies **refined** in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-

B. Details of each On Farm Trial to be furnished in the following format

A. Technology Assessment

Trial 1

- 1. Title** : **Low productivity in gram (Second Year)**
- 2. Problem diagnose/defined** : Low production of gram due to poor land preparation
- 3. Details of technologies selected for assessment /refinement** : T1–Flat bad method (farmers practices)
T2- Ridge bad method
T3- Ridge and furrow method
- 4. Season** : Rabi-2013
- 5. Source of technology** : NAU
- 6. Production system thematic area** : --
- 7. Thematic area** : ICM
- 8. Performance of the Technology with performance indicators** : Refined technology gave higher BC ratio (1:3.01)
- 9. Final recommendation for micro level situation** : Use of land configuration method (Ridge and furrow method gave higher yield and disease resistance in gram)
- 10. Constraints identified and feedback for research** : --
- 11. Process of farmers participation and their reaction** : Appreciate the technology and ready to adopt

Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Results of assessment At Harvest				Feedback from the farmer
						Plant Height (cm)	No. of Branches	No. of Pods / plant	Test Weight (gm)	
1	2	3	4	5	6	7				8
Gram	Irrigated	Low production through land preparation for gram cultivation	Low productivity in Gram	2	T1–Flat bed method (farmers practices)	27	18	19	50	Due to ridge and furrow method the production of chick pea was higher and disease resistance
					T2- Ridge bed method	33	27	28	67	
					T3- Ridge and furrow method	39	31	37	78	

* No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
9	10	11	12
T1–Flat bed method (farmers practices)	7.08	30250	1:1.2
T2- Ridge bed method	12.55	42500	1:2.3
T3- Ridge and furrow method	18.17	49530	1:3.1

Note: Continuous heavy rainfall and medium black soil of Tapi district is responsible for low productivity of Gram, hence, land configuration method is adopted.

Trial 2

1. **Title** : **Plant geometry in Okra (Second Year)**
2. **Problem diagnose/defined** : Improper sowing method and closer spacing
3. **Details of technologies selected for assessment /refinement** :
 - i. 30X5
 - ii. 45X30
 - iii. 45X20
4. **Season** : Rabi-2013-14
5. **Source of technology** : Navsari Agricultural University, Navsari
6. **Production system thematic area** : Sowing method and Spacing in Okra
7. **Thematic area** : Plant Geometry in Okra
8. **Performance of the Technology with performance indicators** : Results showed that under 45X20 cm spacing recorded highest yield (13761 kg/ha), B:C ratio (2.98 : 1), No. of picking 44 compared to spacing 45X30cm (12614 kg/ha) and 30X5 cm (11051 kg./ha)
9. **Final recommendation for micro level situation** : In 45X20 cm spacing recorded highest yield of okra in Rabi season and black soils of Tapi district
10. **Constraints identified and feedback for research** : Mention the specific constraints and feedback
11. **Process of farmers participation and their reaction** : Briefly mention the extent, level and process of farmers participation in planning, execution, monitoring, evaluation of the trial and their reaction towards the performance, efficacy, adoptability etc. of the improved technology assessed/refined

Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Results of assessment						Feedback from the farmer
						Plant Height (cm)		No. of Leaves		No. of Branches		
						30 DAP	60 DAP	30 DAP	60 DAP	30 DAP	60 DAP	
1	2	3	4	5	6	7						8
Okra	Irrigated	Improper sowing method and closer spacing	Plant geometry in Okra	6	i. 30X5	16.17	26.67	4.50	5.83	2.33	3.67	In the spacing 45x20 cm produce higher yield and less incidence of insect pest
					ii. 45X30	11.83	36.50	5.33	7.33	3.00	5.00	
					iii. 45X20	15.00	34.17	6.50	7.17	2.67	5.00	

* No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
9	10	11	12
i. 30cm X 5cm	2650	33000	1.65
ii. 45cm X 30cm	3025	38500	1.75
iii. 45cm X 20cm	3300	43000	1.87

Trial 3

1. **Title** : **Integrated Nutrient Management through Fertigation in papaya (First Year)**
2. **Problem diagnose/defined** : Imbalance use of fertilizer through fertigation
3. **Details of technologies selected for assessment /refinement** : T1 : Farmers practices – 250-500-500 gm/plant with humic acid and other water soluble fertilizers
T2 : Use recommended dose of fertilizers - 200-200-250 gm/plant in which N and K given in 12 splits through Fertigation
T3: Intervention – 100% recommended dose of fertilizers with banana pseudostem sap through Fertigation
4. **Season** : 2014-15
5. **Source of technology** : NAU
6. **Production system thematic area** : --
7. **Thematic area** : INM
8. **Performance of the Technology with performance indicators** : Refined technology gave higher CBR **(3.19)**
9. **Final recommendation for micro level situation** : Use of INM for better crop and higher production
10. **Constraints identified and feedback for research** : --
11. **Process of farmers participation and their reaction** : Appreciate the technology and ready to adopt

Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	At first harvest			Flowering charecters			Results of assess- ment	Feedback from the farmer
						Plant height (cm)	No. Of leaves	Girth (cm)	First fruit set at height (cm)	Inter- nodal distance (cm)	Days taken for flower initiation		
1	2	3	4	5	6	7						8	9
Papaya	Irrigated	Imbalance use of fertilizers	Integrated nutrient management through Fertigation in papaya	8	T1 – 250-500-500 gm/plant with humic acid and other water soluble fertilizers	140	32	24	73	18	80	--	integrated approach for nutrient management through fertigation improve vegetative charectersof plant and soil fertility, increase yield and quality as well as reduce cost of fertilizers in papaya
					T2 - 200-200-250 gm/ plant in which N and K given in 12 splits through Fertigation	135	36	27	60	14	77		
					T3 - 100% recommended dose of fertilizers with banana pseudostem sap through Fertigation	132	39	31	55	11	75		

* No. of farmers

Technology Assessed	No. Of fruit set/plant	Yield/plant (Kg)	Yield/ha (ton)	CBR
10	11	12	13	14
T1 – 250-500-500 gm/plant with humic acid and other water soluble fertilizers	37	40	60.00	2.14
T2 - 200-200-250 gm/plant in which N and K given in 12 splits through Fertigation	38	43.7	77.13	2.97
T3 - 100% recommended dose of fertilizers with banana pseudostem sap through Fertigation	40	49.2	86.39	3.19

Trial 4

1. **Title** : **Design and development of low cost high protein and high energy rich diet for preschool tribal children to prevent malnutrition (First year)**
2. **Problem diagnose/defined** :
 - 1.Low protein & energy content in diet
 - 2.Use of traditional diet/ wrong food habits
 - 3.Low food intake
 - 4.Lack of knowledge about nutritionally balanced foods
 - 5.Prevalence of infectious diseases
 - 6.Poor socio-economic condition
3. **Details of technologies selected for assessment /refinement** :
 - T1.Traditional diet (existing dietary pattern)
 - T2.300 ml milk per day in two equal doses with existing dietary pattern
 - T3.100 to 150 gm low cost **Nutritious Food Mix** *(prepared by KVK) per day with existing dietary pattern
4. **Season/Period** : July-Nov.'2014 (5 Months)
5. **Source of technology** : A text book of "Nutritive value of Indian foods" by National Institute of Nutrition, Hyderabad
6. **Production system thematic area** : ---
7. **Thematic area** : Nutrition Management
8. **Performance of the Technology with performance indicators** : Weight gain of preschool tribal children by daily use of low cost nutritious food mix with existing dietary pattern was about 1.120 Kg during 5 months period as compared to treatment-2 (920 gm) and control (560 gm).
9. **Final recommendation for micro level situation** : Body weight of preschool tribal children was increased by using 100 to 150 gm low cost **Nutritious Food Mix** (prepared by KVK) per day with existing dietary pattern as compared to other treatment. Therefore, low cost high protein & high energy rich diet should be given to children to prevent malnutrition.
10. **Constraints identified and feedback for research** : --
11. **Process of farmers participation and their reaction** : Appreciate the technology and ready to adopt.

* **100 gm Nutritious Food Mix** contains 75 gm Wheat flour + 10 gm Soybean flour + 10 gm Groundnut + 5 gm Gingelly seeds (sesame)

Results of On Farm Trials

Crop/ enterprise	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters	Data on the parameter			Results of Assessment	Feedback from the mothers
						Body weight (Kg.)				
						Before	After	Wt. gain		
1	2	3	4	5	6	7			8	9
Home Science	1.Low protein & energy content in diet 2.Use of traditional diet 3.Low food intake 4.Lake of knowledge about nutritionally balanced foods 5.Prevalence of infectious diseases 6.Poor socio- economic condition	Design and development of low cost high protein and high energy rich diet for preschool tribal children to prevent malnutrition	5	T1.Traditional diet (existing dietary pattern)	Body weight for Five months period	9.260	9.820	0.560	Daily use of 100 to 150 gm low cost Nutritious Food Mix (prepared by KVK) per day with existing dietary pattern gave better result to prevent malnutrition in preschool tribal children as compared to other treatment.	Body weight of preschool tribal children was increased by using milk and low cost Nutritious Food Mix (prepared by KVK) per day with existing dietary pattern as compared to traditional diet.
			5	T2.300 ml milk per day in two equal doses with existing dietary pattern		9.100	10.020	0.920		
			5	T3.100 to 150 gm low cost Nutritious Food Mix (prepared by KVK) per day with existing dietary pattern		9.420	10.540	1.120		

*No. of Preschool tribal children (1 to 5 yrs)

Trial 5

1. **Title** : **Effect of concurrent use of mineral mixture and deworming on growth rate of calves.(First year)**
2. **Problem diagnose/defined** : Lower growth rate in calves due to nutritional disorder and parasitic load
3. **Details of technologies selected for assessment /refinement** : T1:Farmers practice field as control and no treatment is given
T2: Treated with mineral mixture @ 25 gm/day/animal
T3: Treated with mineral mixture @ 25 gm/day/animal and Albendazole (7.5 mg/kg bwt oral) on day 5, 35 and 80th day
4. **Season** : Rabi-2013-14
5. **Source of technology** : Scientific literature (Text books on animal husbandry and Livestock Production and management)
6. **Production system thematic area** : --
7. **Thematic area** : Feed management
8. **Performance of the Technology with performance indicators** : Higher body weights were noticed when calves were fed with mineral mixture and treated with deworming (46.30) as compared to control (42.80) and mineral mixture alone (44.20).
9. **Final recommendation for micro level situation** : Higher body weights can be achieved when calves were fed with mineral mixture and treated with deworming as compared to control and mineral mixture alone. Deworming was found to be beneficial in body weight gain due to lowered parasitic load if any.
10. **Constraints identified and feedback for research** : --
11. **Process of farmers participation and their reaction** : Livestock owners appreciated the technology and ready to adopt

Result: Growth rate of calves at different interval

T1= Farmers practice field as control and no treatment will be given			T2 = mineral mixture @ 25 gm/day/animal			T3 =Mineral mixture @ 25 gm/day/animal and Albendazole (7.5 mg/kg bwt oral) on day 5, 35 and 80 th day			
Age	N	Mean (Body weight) (Kg)	Change in Body Wt(Kg)	N	Mean(Body weight)(Kg)	Change in Body Wt (Kg)	N	Mean (Body weight) (Kg)	Change in Body Wt(Kg)
0 Month	10.00	18.60		10.00	19.50		10.00	17.80	
3 Months	10.00	46.20		10.00	51.00		10.00	53.10	
0 to 3 month (Change in kg.)			27.60			31.50			35.30
6 month	10.00	76.00		10	84.00		10	90.00	
3 to 6 month(Change in kg.)			29.80			33.00			36.90
9 month	10.00	114.60		10	128.20		10	136.30	
6 to 9 month (Change in kg.)			42.80			44.20			46.30

Conclusion: Higher body weights were noticed when calves were fed with mineral mixture and treated with deworming as compared to control and mineral mixture alone. Deworming was found to be beneficial in body weight gain due to lowered parasitic load if any.

Trial 6

1. **Title** : **Effect of concurrent use of mineral mixture and deworming on growth rate of calves.(Second year)**
2. **Problem diagnose/defined** : Lower growth rate in calves due to nutritional disorder and parasitic load
3. **Details of technologies selected for assessment /refinement** : T1:Farmers practice field as control and no treatment will be given
T2: Treated with mineral mixture @ 25 gm/day/animal
T3: Treated with mineral mixture @ 25 gm/day/animal and Albendazole (7.5 mg/kg bwt oral) on day 5, 35 and 80th day
4. **Season** : Kharif - 2014
5. **Source of technology** : Scientific literature (Text books on animal husbandry and Livestock Production and management)
6. **Production system thematic area** : --
7. **Thematic area** : Feed management
8. **Performance of the Technology with performance indicators** : Higher body weights were noticed when calves were fed with mineral mixture and treated with deworming (47.20) as compared to control (42.20) and mineral mixture alone (44.30).
9. **Final recommendation for micro level situation** : Higher body weights can be achieved when calves were fed with mineral mixture and treated with deworming as compared to control and mineral mixture alone. Deworming was found to be beneficial in body weight gain due to lowered parasitic load if any.
10. **Constraints identified and feedback for research** : --
11. **Process of farmers participation and their reaction** : Livestock owners appreciated the technology and ready to adopt

Result of OFT : Effect of concurrent use of mineral mixture and deworming on growth rate of calves.

Table: Growth rate of calves at different interval

	T1= Farmers practice field as control and no treatment was be given			T2 = mineral mixture @ 25 gm/day/animal			T3 =Mineral mixture @ 25 gm/day/animal and Albendazole (7.5 mg/kg bwt oral) on day 5, 35 and 80 th day		
Age	N	Mean(Body weight(Kg))	Change in Body weight (Kg)	N	Mean(Body weight(Kg))	Change in Body weight (Kg)	N	Mean(Body weight(Kg))	Change in Body weight (Kg)
0 Month	10.00	19.40		10.00	19.50		10.00	19.40	
3 Months	10.00	46.50		10.00	48.60		10.00	52.30	
0 to 3 month (Change in kg.)			27.10			29.10			32.90
6 month		76.40		10.00	84.00		10	87.30	
3 to 6 month(Change in kg.)			29.90			32.40			35.00
9 month		118.60		10.00	128.30		10	134.50	
6 to 9 month (Change in kg.)			42.20			44.30			47.20

Conclusion: Higher body weights were noticed when calves were fed with mineral mixture and treated with deworming as compared to control and mineral mixture alone. Deworming was found to be beneficial in body weight gain due to lowered parasitic load if any.

B. Technology Refinement

Trial 1

- 1. Title** : **Low productivity in cotton**
- 2. Problem diagnose/defined** : High dose of agro chemicals and imbalance use of nitrogenous fertilizers
- 3. Details of technologies selected for assessment /refinement** : T1 : No seed treatment and 6-7 application of imidacloprid 70% WS @ 15 ml in 10 ltr of water
T2 : Seed treatment with imida-cloprid 70% WS @ 7.5 gm/kg seed + two foliar application of thiomethoxam @ 3 gm/10 ltr. at ET level
T3 : Seed treatment with imida-cloprid 70% WS @ 7.5 gm/kg seed, raising maize or jowar as border crop, castor as a trap crop, chrysopa release and two foliar applications of thiomethoxam 5 gm in 10 ltr. of water, use of 1500 ppm neem ban
- 4. Season** : Kharif – 2014
- 5. Source of technology** : NAU
- 6. Production system thematic area** : --
- 7. Thematic area** : IPM
- 8. Performance of the Technology with performance indicators** : Refined technology gave higher BC ratio (1:3.95)
- 9. Final recommendation for micro level situation** : Use of IPM for better control of pest of cotton
- 10. Constraints identified and feedback for research** : --
- 11. Process of farmers participation and their reaction** : Appreciate the technology and ready to adopt

Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Data on the parameter				Results of assess- ment	Feedback from the farmer
						No. of aphids/ leaf	No. of jassids / leaf	No. of white fly/ plant	No. of Mealy -bug / plant		
1	2	3	4	5	6	7				8	9
Cotton	Irrigated	High dose of agro chemicals and imbalance use of nitrogenous fertilizers	Low productivity in cotton	5	T1 – No seed treatment and 6-7 application of imidacloprid 70% WS @ 15 ml in 10 ltr of water	11	13	68	43	--	IPM is an ecofriendly pest management approach and effectively manage sucking pests by conserving natural enemies
					T2- Seed treatment with imidacloprid 70% WS @ 7.5 gm/kg seed + two foliar application of thiomethoxam @ 3 gm/10 ltr. at ET level	9	12	62	36		
					T3- Seed treatment with imidacloprid 70 % WS @ 7.5 gm/kg seed, raising maize or jowar as border crop, castor as a trap crop, chrysopa release and two foliar applications of thiomethoxam 5 gm in 10 ltr. of water, use of 1500 ppm neem ban	8	11	51	26		

* No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
10	11	12	13
T1 – No seed treatment and 6-7 application of imidacloprid 70% WS @ 15 ml in 10 ltr of water	20.14	56450	1:2.90
T2-- Seed treatment with imidacloprid 70% WS @ 7.5 gm/kg seed + two foliar application of thiomethoxam @ 3 gm/10 ltr. at ET level	24.30	65830	1:3.10
T3-- Seed treatment with imidacloprid 70 % WS @ 7.5 gm/kg seed, raising maize or jowar as border crop, castor as a trap crop, chrysopa release and two foliar applications of thiomethoxam 5 gm in 10 ltr. of water, use of 1500 ppm neem ban	28.45	84400	1:3.95

3.2 Achievements of Frontline Demonstrations

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

List of technologies demonstrated during previous year and popularized during 2014-15 and recommended for large scale adoption in the district

S. 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	Gram	ICM	New variety	FLDs, Training, Khedut Shibir, Newspaper coverage	11	80	20
2	Gram	ICM	New variety	FLDs, Training, Khedut Shibir, Newspaper coverage	13	205	25
3	Green gram	ICM	New variety	FLDs, Training, Khedut Shibir, Newspaper coverage	17	200	30
4	Sugarcane	ICM	New variety	FLDs, Training, Khedut Shibir, Newspaper coverage	25	70	10
5	Paddy	ICM	SIRA technology	FLDs, Training, Khedut Shibir, Newspaper coverage	28	156	35
6	Paddy	ICM	SRI technology	FLDs, Training, Khedut Shibir, Newspaper coverage	10	130	30
7	Paddy	ICM	New variety	FLDs, Training, Khedut Shibir, Newspaper coverage	15	145	30
8	Paddy	ICM	New variety	FLDs, Training, Khedut Shibir, Newspaper coverage	22	168	30
9	Soybean	INM	Integrated Nutrient Management	FLDs, Training, Khedut Shibir, Newspaper coverage	10	128	20
10	Castor	ICM	New variety	FLDs, Training, Khedut Shibir, Newspaper coverage	5	51	10
11	Pigeon pea	ICM	New variety	FLDs, Training, Khedut Shibir, Newspaper coverage	22	196	25
12	Okra	INM	Integrated Nutrient Management	FLD visit, Farmers-Scientist interaction, FLDs, Training, Khedut Shibir	10	100	25
13	Brinjal	INM	Integrated Nutrient Management	FLD visit, Farmers-Scientist interaction, FLDs, Training, Khedut Shibir	8	80	30
14	Cauliflower	ICM	New crop	FLD visit, Farmers-Scientist interaction, FLDs, Training, Khedut Shibir	5	20	5
15	Okra	IPM	Integrated Pest Management	FLDs, Training, FLD visit, Field Visit, Diagnostic visit, Method Demonstration, Farmers-Scientist interaction, Khedut Shibir, Newspaper coverage	20	150	45
16	Brinjal	IPM	Integrated Pest Management		18	115	38
17	Bitter gourd	IPM	Integrated Pest Management		15	40	18
18	Cucumber	IPM	Integrated Pest Management		12	65	15
19	Pointed gourd	IPM	Integrated Pest Management		14	50	15
20	Little gourd	IPM	Integrated Pest Management		10	45	12
21	Gram	IDM	Integrated Disease Management		16	110	40
22	Mango	IPM	Integrated Pest Management		12	20	20
23	Paddy	IPM	Integrated Pest Management		40	160	55
24	Cotton	IPM	Integrated Pest Management		25	110	45

b. Details of FLDs implemented during 2014-15 (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	
1	Gram	ICM	New variety	Rabi-2013-14	5	5	43	0	43	-
2	Gram	ICM	New variety	Rabi-2013-14	5	5	15	0	15	-
3	Green gram	ICM	New variety	Summer-2014	5	5	35	0	35	-
4	Sugarcane	ICM	New variety	Rabi-2013-14	2	2	4	0	4	-
5	Paddy	ICM	SIRA technology	Kharif-14	10	10	26	0	26	-
6	Paddy	ICM	SRI technology	Kharif-14	5	5	14	0	14	-
7	Paddy	ICM	New variety	Kharif-14	5	5	16	0	16	-
8	Paddy	ICM	New variety	Kharif-14	5	5	13	0	13	-
9	Soybean	INM	Integrated Nutrient Management	Kharif-14	10	10	13	0	13	-
10	Castor	ICM	New variety	Kharif-14	5	5	18	0	18	-
11	Pigeon pea	ICM	New variety	Kharif-14	5	5	42	0	42	-
12	Okra	INM	Integrated Nutrient Management	Rabi-2013-14	2	2	8	0	8	-
13	Brinjal	INM	Integrated Nutrient Management	Rabi-2013-14	2	2	8	0	8	-
14	Cauliflower	ICM	New crop	Late Kharif-2014	2	2	10	0	10	-
15	Okra	IPM	Integrated Pest Management	Rabi-2013-14	3	3	10	0	10	-
16	Brinjal	IPM	Integrated Pest Management	Rabi-2013-14	3	3	10	0	10	-
17	Bitter gourd	IPM	Integrated Pest Management	Rabi-2013-14	3	3	13	0	13	-
18	Cucumber	IPM	Integrated Pest Management	Rabi-2013-14						-
19	Pointed gourd	IPM	Integrated Pest Management	Rabi-2013-14						-
20	Little gourd	IPM	Integrated Pest Management	Rabi-2013-14						-
21	Gram	IDM	Integrated Disease Management	Rabi-2013-14	5	5	15	0	15	-
22	Mango	IPM	Integrated Pest Management	Summer-14	5	5	7	0	7	-
23	Paddy	IPM	Integrated Pest Management	Kharif-14	5	5	16	0	16	-
24	Cotton	IPM	Integrated Pest Management	Kharif-14	25	25	50	0	50	-

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					
Gram	Rabi-2013-14	Irrigated	Medium Black	L	M	H	Summer Groundnut	1 st Nov. to 15 th Nov., 2014	15 th Jan. to 30 th Jan., 2014	1982.3	89
Gram	Rabi-2013-14	Irrigated	Medium Black	L	M	H	Summer Groundnut	1 st Nov. to 15 th Nov., 2014	15 th Jan. to 30 th Jan., 2014		
Green gram	Summer-2014	Rainfed	Medium Black	L	M	H	Wheat	6 th Feb. to 22 nd Feb., 2014	15 th April to 30 th April, 2014		
Sugarcane	Rabi-2013-14	Irrigated	Medium Black	L	M	H	Sugarcane	1 st Oct. to 15 th Oct., 2014	12 th Nov. to 30 th Nov., 2014		
Paddy	Kharif-14	Rainfed	Medium Black	L	M	H	Fallow	1 st June to 15 th June, 2014	15 th Jan. to 30 th Jan., 2014		
Paddy	Kharif-14	Rainfed	Medium Black	L	M	H	Fallow	1 st June to 15 th June, 2014	15 th Oct. to 30 th Oct., 2014		
Paddy	Kharif-14	Rainfed	Medium Black	L	M	H	Fallow	1 st June to 15 th June, 2014	1 st Oct. to 15 th Oct., 2014		
Paddy	Kharif-14	Irrigated	Medium Black	L	M	H	Fallow	1 st June to 15 th June, 2014	1 st Oct. to 15 th Oct., 2014		
Soybean	Kharif-14	Rainfed	Medium Black	L	M	H	Fallow	15 th Sep. to 25 th Sep., 2014	1 st Nov. to 15 th Nov., 2014		
Castor	Kharif-14	Rainfed	Medium Black	L	M	H	Fallow	15 th Sep. to 25 th Sep., 2014	1 st Nov. to 15 th Nov., 2014		
Pigeon pea	Kharif-14	Rainfed	Medium Black	L	M	H	Fallow	15 th July to 30 th July, 2014	1 st Oct. to 15 th Oct., 2014		
Okra	Rabi-2013-14	Irrigated	Black	M	M	M	Paddy	1 st Nov. to 15 th Nov. 2013	1 st Jan. to 30 th April-2014		
Brinjal	Rabi-2013-14	Irrigated	Red	M	L	M	Paddy	10 th Nov. to 15 th Nov.-2013	20 th Jan. to 30 th April-14		
Cauliflower	Late Kharif-2014	Irrigated	Light black	L	M	H	Sugarcane	15 th Sep. to 1 st Oct.-2014	15 th Dec. to 30 th Dec.2015		
Okra	Rabi-2013-14	Irrigated	Light shallow & Medium black	L	M	H	Paddy	5 th Nov. to 15 th Nov., 2013	10 th March to 30 th March 2014		
Brinjal	Rabi-2013-14	Irrigated	Light shallow & Medium black	L	M	H	Paddy	2 th Nov. to 10 th Nov., 2013	13 th May to 25 th May 2014		

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					
Bitter gourd	Rabi-2013-14	Irrigated	Light shallow & Medium black	L	M	H	Paddy	15 th Oct. to 20 th Nov., 2013	20 th Dec. to 25 th March-2014	1982.3	89
Cucumber	Rabi-2013-14	Irrigated	Light shallow & Medium black	L	M	H	Paddy	15 th Nov.. to 20 th Dec., 2013	20 th Jan. to 25 th Feb.-2014		
Pointed gourd	Rabi-2013-14	Irrigated	Light shallow & Medium black	L	M	H	Paddy	Nov. to Dec. - 2013	Feb. to Oct. - 2014		
Little gourd	Rabi-2013-14	Irrigated	Light shallow & Medium black	L	M	H	Paddy	Nov. to Dec. - 2013	Feb. to Oct.- 2014		
Gram	Rabi-2013-14	Irrigated	Light soil and Light Shallow	L	M	H	Paddy	5 th Nov. to 21 st Nov., 2013	17 th March to 8 th April, 2014		
Mango	Summer-14	Irrigated	Medium Black	L	M	H	-	-	15 th May to 20 th June-2014		
Paddy	Kharif-14	Irrigated	Medium Black	L	M	H	Summer Groundnut	6 th June to 20 th June, 2014	28 th Oct. to 15 th Nov. 2014		
Cotton	Kharif-14	Irrigated	Light to Medium Black Soil	L	M	H	Fallow	15 th May to 21 st June, 2014	15 th Nov. to 10 th Dec., 2014		

Performance of FLD

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Gram	New variety	GG-2	43	5	13.7	11.3	12.5	8.9	40.45	12.5	8.9
2	Gram	New variety	PKV-2	15	5	12.1	10.6	11.35	7.85	44.59	11.35	7.85
3	Green gram	New variety	Meha	35	5	13.5	11.5	12.5	8.8	42.05	12.5	8.8
4	Sugarcane	New variety	CON-7072	4	2	970	860	915	685	33.58	915	685
5	Paddy	SIRA technology	NAUR-1	26	10	54.5	50.5	52.5	42.6	23.24	52.5	42.6
6	Paddy	SRI technology	GNR-3	14	5	52.5	46.5	49.5	41.1	20.44	49.5	41.1
7	Paddy	New variety	GAR-7	16	5	51.6	44.8	48.2	39.18	23.02	48.2	39.18
8	Paddy	New variety	Gurjari	13	5	53.8	48.6	51.2	41.75	22.63	51.2	41.75
9	Soybean	INM	GS-2	13	10	12.9	9.7	11.3	7.85	43.95	11.3	7.85
10	Castor	New variety	GCH-7	18	5	9.18	7.12	8.15	6.15	32.52	8.15	6.15

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
11	Pigeon pea	New variety	Vaishali	42	5	16.2	13.9	15.05	9.8	53.57	15.05	9.8
12	Okra	INM	Syngenta-OH-102	8	2	144	140	142	113	25.66	142	113
13	Brinjal	INM	Surti Ravaiya	8	2	232	226	229	180	27.22	229	180
14	Cauliflower	New crop	Pusa Early	10	2	195	183	189	155	21.94	189	155
15	Okra	IPM	Hybrid	10	3	130.45	121.35	125.94	110.27	14.21	125.94	110.27
16	Brinjal	IPM	Surti Ravaiya	10	3	230.25	219.65	226.45	185.65	21.98	226.45	185.65
17	Bitter gourd	IPM	Hybrid	13	3	102.2	93.55	98.65	82.45	19.65	98.65	82.45
18	Cucumber	IPM	Hybrid			99.35	92.6	96.8	81.64	18.57	96.8	81.64
19	Pointed gourd	IPM	Deshi			122.8	113.25	117.6	98.18	19.78	117.6	98.18
20	Little gourd	IPM	Deshi			210.3	202.8	205.2	175.6	16.86	205.2	175.6
21	Gram	IDM	GG-2	15	5	18.3	13.75	15.48	12.25	26.37	15.48	12.25
22	Mango	IPM	Kesar	7	5	71.5	63.5	67	58	15.52	67	58
23	Paddy	IPM	NAUR-1	16	5	62.35	55.4	59.4	52.35	13.47	59.4	52.35
24	Cotton	IPM	Bt	50	25	30.25	23.45	24.65	20.8	18.51	24.65	20.8

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
39990	45215	82905	62235	42915	17020	2.07
41605	48609	87805	63605	46200	14996	2.11
17560	19260	36210	33110	18650	13850	2.06
51225	68650	100015	80025	48790	11375	1.95
28105	27200	65205	53625	37100	26425	2.32
23215	26530	59761	51225	36546	24695	2.57
22105	24315	56695	52625	34590	28310	2.56
21305	25505	57627	51639	36322	26134	2.70
41505	46605	86215	51305	44710	4700	2.08

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
13350	17990	32650	21390	19300	3400	2.45
16250	18370	41530	34210	25280	15840	2.56
84000	80000	355000	282000	271000	202000	4.23
70000	64000	297000	216000	227000	152000	4.24
55000	50000	170000	140000	115000	90000	3.09
125000	140000	440790	385945	315790	245945	3.53
105000	115000	339675	278475	234675	163475	3.24
65000	58000	295950	247350	230950	189350	4.55
55000	50000	116160	97968	61160	47968	2.11
100000	92000	294000	245450	194000	153450	2.94
110000	98000	410400	351200	300400	253200	3.73
9500	8900	54180	42875	44680	33975	5.70
45000	60000	167500	145000	122500	85000	3.72
26850	29900	66825	58685	39975	28785	2.49
23500	22146	86800	71050	63300	48904	3.69
125000	140000	440790	385945	315790	245945	3.53

Analytical Review of component demonstrations (details of each component for rainfed / irrigated situations to be given separately for each season).

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Gram	Rabi-2013-14	New Variety	Irrigated	12.5	8.9	40.45
Gram	Rabi-2013-14	New Variety	Irrigated	11.35	7.85	44.59
Green gram	Summer-2014	New Variety	Rainfed	12.5	8.8	42.05
Sugarcane	Rabi-2013-14	New Variety	Irrigated	915	685	33.58
Paddy	Kharif-14	New Variety	Rainfed	52.5	42.6	23.24
Paddy	Kharif-14	New Variety	Rainfed	49.5	41.1	20.44
Paddy	Kharif-14	New Variety	Rainfed	48.2	39.18	23.02
Paddy	Kharif-14	New Variety	Irrigated	51.2	41.75	22.63
Soybean	Kharif-14	New Variety	Rainfed	11.3	7.85	43.95
Castor	Kharif-14	New Variety	Rainfed	8.15	6.15	32.52
Pigeon pea	Kharif-14	New Variety	Rainfed	15.05	9.8	53.57

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Okra	Rabi-2013-14	INM (Bio-fertilizers - Azotobactor, PSB, Potash Mobiizer and Novel Organic Fertilizer (Banana SAP))	Irrigated	142	113	25.66
Brinjal	Rabi-2013-14	INM (Bio-fertilizers - Azotobactor, PSB, Potash Mobiizer and Novel Organic Fertilizer (Banana SAP))	Irrigated	229	180	27.22
Cauliflower	Late Kharif-2014	New Crop	Irrigated	189	155	21.94
Okra	Rabi-2013-14	Pheromone traps, Ervitolure, Yellow sticky traps, Azadirachtin 1500 ppm Trichocards	Irrigated	125.94	110.27	14.21
Brinjal	Rabi-2013-14	Pheromone traps, Lucinlure, Yellow sticky traps, Azadirachtin 1500 ppm , Pseudomonas	Irrigated	226.45	185.65	21.98
Bitter gourd	Rabi-2013-14	NAUROJI fruit fly traps	Irrigated	98.65	82.45	19.65
Cucumber	Rabi-2013-14	NAUROJI fruit fly traps	Irrigated	96.8	81.64	18.57
Pointed gourd	Rabi-2013-14	NAUROJI fruit fly traps	Irrigated	117.6	98.18	19.78
Little gourd	Rabi-2013-14	NAUROJI fruit fly traps	Irrigated	205.2	175.6	16.86
Gram	Rabi-2013-14	Pheromone traps, Helilure, Trichoderma	Irrigated	15.48	12.25	26.37
Mango	Summer-2014	NAUROJI Methyl eugenol fruit fly traps	Irrigated	67	58	15.52
Paddy	Kharif-14	Pheromone traps, Scirpolure, carbofuran 3G	Irrigated	59.4	52.35	13.47
Cotton	Kharif-14	Azadirachtin 1500 ppm, Acephate 75SP	Irrigated	24.65	20.8	18.51

Technical Feedback on the demonstrated technologies

S. No.	Feed Back
1	Management of wilt and stem borer in brinjal.
2	Dose and stage of application of micronutrients in okra, brinjal, cucurbits, papaya and banana.
3	In Tapi district major area under okra cultivation so research should be done on standardization of number of pheromone traps and also on IPM module in okra view of eco-friendly pest management.
4	Virus resistant varieties of cucurbitaceous vegetables.
5	Fertilizer dose for Hybrid rice.
6	New varieties for rainfed T.P. and drilled paddy.
7	Preventive measures for management of paddy sheath mite as it becomes a major pest.
8	Pale yellow gall like swelling on okra fruits (serious problem which reduces cost remarkably).
9	Virus disease problem in papaya (papaya ring spot virus).

Farmers' reactions on specific technologies

S. No.	Feed Back
1	New variety (Meha) of moong bean gave good results than old.
2	Large scale adoption of IPM technology should be made and more concentration should be given to collection and destruction of fallen fruits in brinjal, okra and cucurbits crops.
3	The technology of INM increases yield and soil health and quality of fruits in brinjal and okra.
4	Land configuration in gram gives good results than local method.
5	<i>Vaishali</i> is better than local cultivars of pigeon pea.
6	Plug tray grown plants of brinjal and chilli comes under reproduction too early (15-20 days) than produced on bed.
7	Pheromone traps plays a vital role in monitoring, mass trapping and mating disruption in paddy, gram, brinjal and okra.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	2	16/01/2015,24/02/2015	38	-
2	Farmers Training	8	17/07/2014,04/08/2014,18/11/2014,01/12/2014,19/12/2014,12/01/2015,13/01/2015,17/01/2015	208	-
3	Media coverage	2	07/07/2014,14/07/2014	-	-
4	Training for extension functionaries	-	-	-	-

c. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
--Nil--								

(ii) Livestock, Fisheries, etc.

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	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	Gross Cost	Gross Return	Net Return	** BCR
Dairy																		
Cow	Dairy Management	Estrus synchronizing Hormone (Prostaglandin F2 alpha)	1	50	50	Reduction in anoestrus period (days)		35.42	--	--	5000	7320	2320	1.46	2800	3200	400	1.14
						68	192											
Buffalo	Nutrition Management	Bypass fat feeding to buffaloes	1	20	20	Fat % in milk		39.68	--	--	131	220.00	89.00	1.68	125	157.50	32.50	1.26
						8.8	6.3											
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and goat																		
Duckery																		
Others (pl. specify)																		
Total			1	70	70													

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Pregnant women	-	-	-	-	-	-
Adolescent Girl	-	-	-	-	-	-
Other women	Kitchen gardening*	1	50	Yield	Gross Return Rs.3700=00 along with domestic consumption	Gross Return Rs.1200=00
Children						
Neonates	-	-	-	-	-	-
Infants	-	-	-	-	-	-
Children	POSHAK AAHAR to malnourished children*	1	10	Body weight	0.430 Wt. gain in Kg	0.210 Wt. gain in Kg

* Detail results of the above FLDs are given on the next pages.

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farm Women	Area (ha)	Field observation (output/man hour) (ha/h)		% change in major parameter	Labor reduction (man days) (man-h/ha)		Cost reduction** (Rs./ha/day)	
						Demonstration	Check		Demonstration	Check	Demonstration	Check
Improved NAVEEN sickle for paddy harvesting*	Paddy	Women Drudgery reduction	1	50	-	0.0078	0.0062	25.80	128	161	2400	3150

*NAVEEN sickle is recommended by CIAE, Bhopal

**Cost of operation is calculated as per Govt. rules

Discipline: Home Science

(1) Result of FLD on feeding of POSHAK AAHAR to malnourished rural tribal children:

Demonstration period: December-2013 to March-2014 (4 months)

No. of Demonstration: 10 malnourished children

Village: Degama

Taluka : Valod

Critical input supplied : POSHAK AAHAR: 100-150gm/day/child – Protein rich diet i.e. Mixture of wheat, jowar, rice, soybean and Bengal gram dal (Cereals & pulses with 3:1 ratio)

Average weight gain of tribal children per month:

Age group	No. of tribal children	Average body weight of tribal children (Kg.)					Weight gain (Kg.)	Increase in Weight (%)	*Feeding of POSHAK AAHAR to children (gm/day/child)
		Before demon.	After demonstration						
			First month	Second month	Third month	Fourth month			
1-3 years	Malnourished 10	8.660	8.840	8.900	8.910	9.050	0.430	4.97	100 to 150
	Malnourished(Control) 10	9.730	9.750	9.780	9.900	9.940	0.210	2.16	---

* Recommended by WHO.

Technical feedback:

1. After feeding of POSHAK AAHAR to malnourished tribal children, the growth and development of children are better and the health and nutritional status are improved.
2. POSHAK AAHAR are the low cost protein rich diet and easily available in local market which are compatible for children due to lower economic status.

Mother's reaction on critical inputs:

1. POSHAK AAHAR are good in taste therefore children are eating POSHAK one to two times in a day. So that weight of children is increased & ultimately weakness of children is decreased.
2. POSHAK AAHAR is cheaper and easily available at home.
3. Recipes of POSHAK AAHAR can be prepared as per taste required.

(2) Result of Front Line Demonstration on Kitchen Gardening:

No. of Farm women: 50

No. of Demonstration: 50

Area: 1 Guntha/demo.

Season: Kharif-2014

Critical inputs: Vegetable seeds & seedlings, fruit plant, Bio-fertilizers- Vermicompost, Azotobactor, PSB, Potash mobilizer, Bio-pesticides- Fruit fly trap & yellow sticky trap

Name of Enterprise	Average Crop yield (Kg.) per demonstration					
	Tomato	Cow pea	Brinjal	Bottle gourd	Pigeon pea	Cluster bean
1	2	3	4	5	6	7
Kitchen Garden	17.7	8.5	22.0	11.5	8.0	3.2

Average Crop yield (Kg.) per demonstration				Total Production (Kg.)	Average rate (Rs./Kg)	Gross return (Rs.)	
Bitter gourd	Ridge gourd	Little gourd	Chilli			Before FLD	After FLD
8	9	10	11	12	13	14	15
3.5	5.2	4.0	8.9	92.5	40	1200=00	3700=00, along with domestic consumption

Farm women Reaction:

S. No	Feed Back
1	Before Demonstration, farm women were growing only two or three vegetable crops in their backyard but after demonstration they are growing different vegetable crops through kitchen gardening in scientific way.
2	Kitchen gardening gives continuous supply of fresh vegetables at lower cost which gives daily nutritious diet.
3	In kitchen gardening, farm women are not applying any agrochemicals so they produce organic vegetables.
4	Farm women are utilized maximum backyard space and waste water.
5	Income is generated by selling extra vegetables grown in kitchen garden.
6	Farm women are attracted towards hybrid vegetables.

Technical Feedback on the demonstrated technologies

S. No.	Feed Back
1	Research should be based on locally available herbal medicine for infertility cure.
2	Improved NAVEEN sickle reduces women drudgery in terms of time, efficiency and physical hazards (finger injuries, hand grip, muscle stress etc.)
3	During paddy harvesting, field capacity per farm woman is increased upto 25.80% by using improved sickle as compared to local sickle.
4	Improved sickle saves 25.78% labour and 31.25% cost of operation as compared to local sickle.

Farmers' reactions on specific technologies

S. No.	Feed Back
1	Fat% of the milk was Improved due to bypass fat feeding.
2	Bypass fat feeding has also resulted in reducing production associated diseases.
3	The hormonal treatment with Prostaglandin F2 alpha can reduce the infertility problems in animals.
4	The hormonal treatment with Prostaglandin F2 alpha is a cost effective method to reduce the anoestrus period.
5	Improved sickle increases working efficiency in short period of time, i.e. it is cost saving and time saving.
6	Improved sickle reduces fatigue, muscle stress, wrist pain and pain in shoulders as compared to local sickle.

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	2	09/10/2014 01/11/2014	45	-
2	Farmers Training	3	30/07/2014 10/10/2014 28/11/2014	138	-
3	Media coverage	1	04/08/2014	-	-
4	Training for extension functionaries	-		-	-

3.3 Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit):

A) ON Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	0	0	0	0	0	0	0	0	0	0
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
Water management	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	11	61	30	91	92	181	273	153	211	364
Fodder production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	5	0	0	0	0	169	169	0	169	169
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	0	0	0	0	28	28	0	28	28
Off-season vegetables	2	0	0	0	10	38	48	10	38	48
Nursery raising	0	0	0	0	0	0	0	0	0	0
Exotic vegetables like Broccoli	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	1	0	0	0	0	50	50	0	50	50
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Cultivation of Fruit	1	0	0	0	0	32	32	0	32	32
Management of young plants/orchards	1	0	0	0	21	11	32	21	11	32
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
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
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
e) Tuber crops										
Production and Management technology	1	0	0	0	20	0	20	20	0	20
Processing and value addition	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
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
III Soil Health and Fertility Management										
Soil fertility management	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Soil and Water Conservation	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	1	1	0	1	12	2	14	13	2	15
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
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
IV Livestock Production and Management										
Dairy Management	1	30	0	30	0	0	0	30	0	30
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
Disease Management	1	0	0	0	0	20	20	0	20	20
Feed management	1	0	0	0	20	0	20	20	0	20
Production of quality animal products	1	0	0	0	0	40	40	0	40	40
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	3	0	0	0	28	95	123	28	95	123
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
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	1	0	0	0	36	4	40	36	4	40
Value addition	6	0	17	17	0	229	229	0	246	246
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Location specific drudgery reduction technologies	1	0	0	0	3	52	55	3	52	55
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	4	0	0	0	15	85	100	15	85	100
VI Agril. Engineering										
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
VII Plant Protection										
Integrated Pest Management	4	0	0	0	33	101	134	33	101	134
Integrated Disease Management	1	0	0	0	61	0	61	61	0	61
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	2	0	0	0	105	0	105	105	0	105
VIII Fisheries										
Integrated fish farming	1	0	0	0	23	0	23	23	0	23
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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
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
X Capacity Building and Group Dynamics										
Leadership development	3	30	0	30	43	28	71	73	28	101
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	3	0	0	0	55	48	103	55	48	103
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
TOTAL	57	122	47	169	577	1213	1790	699	1260	1959
(B) RURAL YOUTH										
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	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
Integrated Farming	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
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	2	0	0	0	52	0	52	52	0	52
Commercial fruit production	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
Nursery Management of Horticulture crops	1	19	1	20	8	2	10	27	3	30
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Value addition	2	16	0	16	42	26	68	58	26	84
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	1	0	0	0	0	30	30	0	30	30
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	2	0	0	0	8	36	44	8	36	44
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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
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
TOTAL	8	35	1	36	110	94	204	145	95	240
(C) Extension Personnel										
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
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	1	0	0	0	28	3	31	28	3	31
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
Care and maintenance of farm machinery and implements	1	7	1	8	20	4	24	27	5	32
WTO and IPR issues	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	0	0	0	0	0	0	0	0	0	0
Women and Child care	2	0	1	1	11	56	67	11	57	68

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Low cost and nutrient efficient diet designing	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
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
TOTAL	4	7	2	9	59	63	122	66	65	131
Grand Total	69	164	50	214	746	1370	2116	910	1420	2330

B) OFF Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	0	0	0	0	0	0	0	0	0	0
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
Water management	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	3	0	0	0	151	32	183	151	32	183
Fodder 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
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	4	0	0	0	27	62	89	27	62	89
Nursery raising	1	0	0	0	0	30	30	0	30	30
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Export potential vegetables	2	0	0	0	0	46	46	0	46	46
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0
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	1	12	0	12	0	0	0	12	0	12
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	2	0	0	0	19	22	41	19	22	41
Plant propagation techniques	1	0	0	0	33	3	36	33	3	36
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
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
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
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
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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
III Soil Health and Fertility Management										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	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	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
Soil and Water Testing	2	0	0	0	25	13	38	25	13	38
IV Livestock Production and Management										
Dairy Management	0	0	0	0	0	0	0	0	0	0
Poultry Management	1	0	0	0	0	24	24	0	24	24
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	1	0	0	0	0	26	26	0	26	26
Feed management	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
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	0	0	20	39	59	20	39	59
Design and development of low/minimum cost diet	2	0	0	0	0	38	38	0	38	38
Designing and development for high nutrient efficiency diet	3	0	0	0	0	55	55	0	55	55

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Minimization of nutrient loss in processing	2	0	0	0	0	43	43	0	43	43
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	2	0	26	26	0	36	36	0	62	62
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	3	0	0	0	0	49	49	0	49	49
VI Agril. Engineering										
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
VII Plant Protection										
Integrated Pest Management	4	25	0	25	49	22	71	74	22	96
Integrated Disease Management	2	0	0	0	53	1	54	53	1	54
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	1	0	0	0	0	30	30	0	30	30
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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
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
X Capacity Building and Group Dynamics										
Leadership development	1	0	0	0	0	20	20	0	20	20
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
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
TOTAL	39	37	26	63	377	591	968	414	617	1031
(B) RURAL YOUTH										
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	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
Integrated Farming	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
Sericulture	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
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
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
Value addition	2	0	0	0	0	98	98	0	98	98
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	2	0	0	0	16	18	34	16	18	34
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Poultry production	1	0	0	0	0	17	17	0	17	17
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	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
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
TOTAL	5	0	0	0	16	133	149	16	133	149
(C) Extension Personnel										
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
Formation and Management of SHGs	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
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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
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
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
Grand Total	44	37	26	63	393	724	1117	430	750	1180

C) Consolidated table (ON and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	0	0	0	0	0	0	0	0	0	0
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
Water management	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	61	30	91	243	213	456	304	243	547
Fodder production	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production of organic inputs	5	0	0	0	0	169	169	0	169	169
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	0	0	0	0	28	28	0	28	28
Off-season vegetables	6	0	0	0	37	100	137	37	100	137
Nursery raising	1	0	0	0	0	30	30	0	30	30
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	2	0	0	0	0	46	46	0	46	46
Grading and standardization	1	0	0	0	0	50	50	0	50	50
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0
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	2	12	0	12	0	32	32	12	32	44
Management of young plants/orchards	1	0	0	0	21	11	32	21	11	32
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	2	0	0	0	19	22	41	19	22	41
Plant propagation techniques	1	0	0	0	33	3	36	33	3	36
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Propagation techniques of Ornamental Plants	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
e) Tuber crops										
Production and Management technology	1	0	0	0	20	0	20	20	0	20
Processing and value addition	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
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
III Soil Health and Fertility Management										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	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	1	1	0	1	12	2	14	13	2	15
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	2	0	0	0	25	13	38	25	13	38
IV Livestock Production and Management										
Dairy Management	1	30	0	30	0	0	0	30	0	30
Poultry Management	1	0	0	0	0	24	24	0	24	24
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	2	0	0	0	0	46	46	0	46	46
Feed management	1	0	0	0	20	0	20	20	0	20
Production of quality animal products	1	0	0	0	0	40	40	0	40	40
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	4	0	0	0	48	134	182	48	134	182
Design and development of low/minimum cost diet	2	0	0	0	0	38	38	0	38	38
Designing and development for high nutrient efficiency diet	3	0	0	0	0	55	55	0	55	55
Minimization of nutrient loss in processing	2	0	0	0	0	43	43	0	43	43
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	1	0	0	0	36	4	40	36	4	40
Value addition	8	0	43	43	0	265	265	0	308	308
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Location specific drudgery reduction technologies	1	0	0	0	3	52	55	3	52	55
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	7	0	0	0	15	134	149	15	134	149
VI Agril. Engineering										
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
VII Plant Protection										
Integrated Pest Management	8	25	0	25	82	123	205	107	123	230
Integrated Disease Management	3	0	0	0	114	1	115	114	1	115
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	3	0	0	0	105	30	135	105	30	135
VIII Fisheries										
Integrated fish farming	1	0	0	0	23	0	23	23	0	23
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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
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
X Capacity Building and Group Dynamics										
Leadership development	4	30	0	30	43	48	91	73	48	121
Group dynamics	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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	3	0	0	0	55	48	103	55	48	103
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
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
TOTAL	96	159	73	232	954	1804	2758	1113	1877	2990
(B) RURAL YOUTH										
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	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
Integrated Farming	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
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	2	0	0	0	52	0	52	52	0	52
Commercial fruit production	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
Nursery Management of Horticulture crops	1	19	1	20	8	2	10	27	3	30
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Value addition	4	16	0	16	42	124	166	58	124	182
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	2	0	0	0	16	18	34	16	18	34
Sheep and goat rearing	1	0	0	0	0	30	30	0	30	30
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	3	0	0	0	8	53	61	8	53	61
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	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
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
TOTAL	13	35	1	36	126	227	353	161	228	389
(C) Extension Personnel										
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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	1	0	0	0	28	3	31	28	3	31
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
Care and maintenance of farm machinery and implements	1	7	1	8	20	4	24	27	5	32
WTO and IPR issues	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	0	0	0	0	0	0	0	0	0	0
Women and Child care	2	0	1	1	11	56	67	11	57	68
Low cost and nutrient efficient diet designing	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
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
TOTAL	4	7	2	9	59	63	122	66	65	131
Grand Total	113	201	76	277	1139	2094	3233	1340	2170	3510

Note: Details of above training programmes given in the proforma as Annexure-II

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
					Male	Female	Total	Type of units	Number of units	Number of persons employed	
Home Science	10-11/4/2014	Fruits and vegetable preservation	Value Addition	2	22	2	24	-- Work in progress --			
Home Science	29-30/12/2014	Fruits and vegetable preservation	Value Addition	2	0	45	45	-- Work in progress --			
Home Science	25-26/2/2015	Value addition in fruits & vegetables	Value Addition	2	18	24	42	-- Work in progress --			
Horticulture	26-27/2/2015	Nursery management of Horticultural crops	Nursery Management	2	27	3	30	-- Work in progress --			

(E) Sponsored Training Programmes

Sr. No.	Date	Title of Training programme	Discipline	Thematic area	Duration (days)	Client (PF/R/Y/EF)	NO.of Courses	Number of other Participants			Number of SC/ST			Total Number of Participants			Sponsoring Agency	Amount of fund received (Rs.)
								M	F	T	M	F	T	M	F	T		
1	28/5/2014	Preparation of NADEP compost	Agronomy	Production of organic inputs	1	PF	1	0	0	0	0	30	30	0	30	30	Mishan Mangalam Scheme(DRDA)-Vyara	Funds for meals/refreshment of trainees are provided by the sponsoring Agency
2	29/5/2014	Preparation of NADEP compost	Agronomy	Production of organic inputs	1	PF.	1	0	0	0	0	30	30	0	30	30		
3	17/6/2014	Preparation of NADEP compost	Agronomy	Production of organic inputs	1	PF	1	0	0	0	0	39	39	0	39	39		
4	18/6/2014	Preparation of NADEP compost	Agronomy	Production of organic inputs	1	PF	1	0	0	0	0	39	39	0	39	39		
5	19/6/2014	Preparation of NADEP compost	Agronomy	Production of organic inputs	1	PF	1	0	0	0	0	31	31	0	31	31		

Sr. No.	Date	Title of Training programme	Discipline	Thematic area	Duration (days)	Client (PF/R/Y/EF)	NO.of Courses	Number of other Participants			Number of SC/ST			Total Number of Participants			Sponsoring Agency	Amount of fund received (Rs.)
								M	F	T	M	F	T	M	F	T		
6	25/6/2014	New advances in paddy cultivation	Agronomy	ICM	1	PF.	1	31	0	31	0	0	0	31	0	31	ATMA-Navsari	Funds for meals/refreshment of trainees are provided by the sponsoring Agency
7	26/6/2014	New advances in paddy cultivation	Agronomy	ICM	1	PF	1	0	0	0	7	32	39	7	32	39	ATMA-Navsari	
8	30/6/2014	Scientific cultivation of paddy	Agronomy	ICM	1	PF	1	0	0	0	2	30	32	2	30	32	ATMA-Navsari	
9	07/01/2014	New advances in paddy cultivation	Agronomy	ICM	1	PF	1	0	30	30	0	0	0	0	30	30	ATMA-Navsari	
10	07/02/2014	New advances in paddy cultivation	Agronomy	ICM	1	PF	1	30	0	30	0	0	0	30	0	30	ATMA-Navsari	
11	6-8/8/2014	New advances in paddy cultivation	Agronomy	ICM	3	PF	1	0	0	0	22	0	22	22	0	22	ATMA-Narmada	
12	11-12/8/2014	Skill of leader	Extension Education	Leadership Development	2	PF	1	0	0	0	43	0	43	43	0	43	ATMA-Tapi	
13	13-14/8/2014	Nutritional Gardening	Home Science	Household food security by nutritional gardening	2	PF	1	0	0	0	22	13	35	22	13	35	ATMA-Tapi	
14	19-20/8/2014	Marketing of agriculture produces	Extension Education	Enterpreneurial development of farmers/youths	2	PF	1	0	0	0	0	33	33	0	33	33	ATMA-Tapi	
15	19-20/8/2014	Sheep and goat rearing for rural livelihood	Animal Science	Sheep and goat rearing	2	RY	1	0	0	0	0	30	30	0	30	30	ATMA-Tapi	
16	21-22/8/2014	Production of bio-control agents and bio-pesticides	Plant Protection	Production of bio-control agents and bio-pesticides	2	PF	1	0	0	0	44	0	44	44	0	44	ATMA-Tapi	

Sr. No.	Date	Title of Training programme	Discipline	Thematic area	Duration (days)	Client (PF/R/Y/EF)	NO.of Courses	Number of other Participants			Number of SC/ST			Total Number of Participants			Sponsoring Agency	Amount of fund received (Rs.)
								M	F	T	M	F	T	M	F	T		
17	26-27/8/2014	Production of fruits and vegetables with good quality	Horticulture	Grading and Standardization	2	PF	1	0	0	0	0	50	50	0	50	50	ATMA-Tapi	Funds for meals/refreshment of trainees are provided by the sponsoring Agency
18	30/8/2014	Production of pineapple jam & lemon squash	Home Science	Value addition	1	RY	1	0	0	0	0	53	53	0	53	53	ATMA-Tapi	
19	3-5/9/2014	Cultivation of high tech as well as high value & low volume horticultural crops	Horticulture	Protected cultivation of vegetable crops	3	RY	1	0	0	0	30	0	30	30	0	30	ATMA-Narmada	
20	09-11/9/2014	Nursery management and quality improvement of vegetables specially creeper vegetables	Horticulture	Plant Propagation techniques	3	PF	1	0	0	0	33	3	36	33	3	36	IWMP-Tapi	
21	17-18/9/2014	Mass production of Trichocards	Plant Protection	Production of bio-control agents and bio-pesticides	2	PF	1	0	0	0	61	0	61	61	0	61	ATMA-Tapi	
22	18/9/2014	Processing and preservation of tomato ketchup and papaya jam	Home Science	Value addition	1	PF	1	0	0	0	0	33	33	0	33	33	ATMA-Tapi	
23	19-20/9/2014	Health and nutrition for pregnant and lactating women and children	Home Science	Women and child care	2	PF	1	0	0	0	0	62	62	0	62	62	ATMA-Tapi	

Sr. No.	Date	Title of Training programme	Discipline	Thematic area	Duration (days)	Client (PF/R/Y/EF)	NO.of Courses	Number of other Participants			Number of SC/ST			Total Number of Participants			Sponsoring Agency	Amount of fund received (Rs.)
								M	F	T	M	F	T	M	F	T		
24	23/9/2014	Processing and preservation of tomato ketchup and papaya jam	Home Science	Value addition	1	PF	1	0	26	26	0	3	3	0	29	29	ATMA-Tapi	Funds for meals/refreshment of trainees are provided by the sponsoring Agency
25	24-25/9/2014	Marketing of agriculture produces	Extension Education	Enterpreneurial development of farmers/R/Y	2	PF	1	0	0	0	28	0	28	28	0	28	ATMA-Tapi	
26	22-23/9/2014	Scientific cultivation of rabi crops & soil & water analysis	Agronomy	ICM	2	PF	1	0	0	0	0	79	79	0	79	79	ATMA-Tapi	
27	25/9/2014	Processing of tomato ketchup and papaya jam	Home Science	Value addition	1	PF	1	0	0	0	0	51	51	0	51	51	ATMA-Tapi	
28	29-30/9/2014	Skill of leader	Extension Education	Leadership Development	2	PF	1	0	0	0	0	28	28	0	28	28	ATMA-Tapi	
29	29/9/2014	Processing of tomato ketchup and papaya jam	Home Science	Value addition	1	PF	1	0	0	0	0	36	36	0	36	36	ATMA-Tapi	
30	13/10/2014	Fruit and vegetable crop production	Horticulture	Production of low volume and high value crops	1	PF	1	0	0	0	0	28	28	0	28	28	SEWA-Tapi	
31	18/10/2014	Fruits and vegetables preservation	Home Science	Value addition	1	PF	1	0	0	0	0	42	42	0	42	42	ATMA-Tapi	
32	28/10/2014	Fruits and vegetables preservation	Home Science	Value addition	1	PF	1	0	0	0	0	57	57	0	57	57	ATMA-Tapi	
33	29/10/2014	Fruits and vegetables preservation	Home Science	Value addition	1	PF	1	0	17	17	0	0	0	0	17	17	ATMA-Tapi	
34	30/10/2014	Fruits and vegetables preservation	Home Science	Value addition	1	PF	1	0	0	0	0	43	43	0	43	43	ATMA-Tapi	
35	3-5/12/2014	Scientific cultivation of Rabi crops	Agronomy	ICM	3	PF	1	0	0	0	0	37	37	0	37	37	ATMA-Narmada	

Sr. No.	Date	Title of Training programme	Discipline	Thematic area	Duration (days)	Client (PF/R/EF)	NO.of Courses	Number of other Participants			Number of SC/ST			Total Number of Participants			Sponsoring Agency	Amount of fund received (Rs.)
								M	F	T	M	F	T	M	F	T		
36	8-10/12/2014	Housing of the Animals	Animal Science	Dairy Management	3	PF	1	30	0	30	0	0	0	30	0	30	ATMA-Kheda	Funds for meals/refreshment of trainees are provided by the sponsoring Agency
37	31/12/2014	Scientific culti. of Okra	Horticulture	Off Season vegetables	1	PF	1	0	0	0	0	33	33	0	33	33	SEWA-Tapi	
38	5-7/01/2015	Skill of leader	Extension Education	Leadership Development	3	PF	1	30	0	30	0	0	0	30	0	30	ATMA-Kheda	
39	25-26/02/2015	Value addition in fruits & vege.	Home Science	Value Addition	2	RY	1	0	0	0	18	24	42	18	24	42	FTC-Vyara	
40	03/04/2015	Okra and watermelon cultivation	Horticulture	Protected cultivation of vegetable crops	1	RY	1	0	0	0	22	0	22	22	0	22	Ebnezer Child Development Society	
41	12/03/2015	Malnutrition in children and its control measures	Home Science	Women & Child Care	1	EF	1	0	0	0	11	17	28	11	17	28	ICDS,Tapi	

. 3.4. Extension Activities (including activities of FLD programmes)

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of active -ties	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Field Day	Kitchen garden 09.10.2014	1	0	0	0	8	20	28	2	1	3	10	21	31
	Field Day	Improved Naveen sickle for paddy harvesting 01.11.2014	1	0	0	0	0	17	17	2	1	3	2	18	20
	Field day	Okra 16.01.2015	1	0	0	0	0	21	21	2	1	3	2	22	24
	Field day	Okra(IPM) 24.02.2015	1	0	0	0	17	0	17	2	0	2	19	0	19
	Total	-	-	4	0	0	0	25	58	83	5	1	6	30	59
2	Kisan Mela	-	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Kisan Ghosthi	Vege.cultivation, Grain storage, Soil & water analysis, 25.05.2014, 03.07.2014,	5	114	150	264	1047	1043	2090	5	1	6	1166	1194	2360

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of active -ties	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
		12.11.2014, 23.01.2015, 19.03.2015													
4	Exhibition	Krishi Mahotsav, Krishi mela, Khedut shibir, Mahila shibir, Tapi Mahotsav, Tech.week	16	4456	3140	7596	14402	36813	51215	6	1	7	18864	39954	58818
5	Film Show	Child Malnutrition, Women Drudgery reduction, Side effects of pesticides on human health, Poultry farming, Safal pashupalan, IPDM, Vermicomposting	41	150	2	152	382	1173	1555	5	1	6	537	1176	1713
6	Method Demonstrations	Value Addition, FLD component installation	74	127	89	216	1162	1983	3145	2	1	3	1291	2073	3364
7	Farmers Seminar	Organic farming, protected cultivation, Women empowerment, Sickle cell Anemia, Pashupalan, IPDM etc.	10	216	0	216	842	1564	2406	17	3	20	1075	1567	2642
8	Workshop	-	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Group meetings	KVK activities, health & nutrition, FLD/OFT related meeting, Animal husbandry, Hi-tech horticulture, IPM etc.	59	5	1	6	10381	9542	19923	6	1	7	10392	9544	19936
10	Lectures delivered as resource persons	ATMA, FTC, DRDA, Krishi Mahotsav prg.	171	4206	3440	7646	14511	20451	34962	7	1	8	18724	23892	42616

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of active -ties	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
11	Newspaper coverage	KVK activities	5	0	0	0	0	0	0	0	0	0	0	0	0
12	Radio talks	-	0	0	0	0	0	0	0	0	0	0	0	0	0
13	TV talks	Viral problem in cucurbitaceous vegetables 13.01.2015	1	0	0	0	0	0	0	0	0	0	0	0	0
14	Popular articles	Value Addition, Health & nutrition, Horticulture, Enterprising farm women of KVK	8	0	0	0	0	0	0	0	0	0	0	0	0
15	Extension Literature	Folders related to all discipline	30	248	49	297	1437	2863	4300	6	1	7	1691	2913	4604
16	Advisory Services	Telephone Help- line, Voice SMS, i-kishan portal SMS	775	21	1	22	948	844	1792	6	1	7	975	846	1821
17	Scientist visit to farmers field	Follow up of FLD/OFT, Diagnosis	129	60	1	61	222	554	776	6	1	7	288	556	844
18	Farmers visit to KVK	KVK activities	2027	154	72	226	646	1155	1801	6	1	7	806	1228	2034
19	Diagnostic visits	Diagnosis	66	26	0	26	78	18	96	5	1	6	109	19	128
20	Exposure visits	Visit to NAU, Navsari, Paniyari, Tadkuwa	5	0	0	0	81	44	125	4	1	5	85	45	130
21	Ex-trainees Sammelan	Home Science activities	2	0	0	0	0	30	30	0	1	1	0	31	31
22	Soil health Camp	-	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Animal	Animal treatment &	1	0	0	0	100	45	145	10	1	11	110	46	156

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of active -ties	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
	Health Camp	health improvement													
24	Agri mobile clinic	-	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Soil test campaigns	-	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Farm Science Club Conveners meet	-	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Self Help Group Conveners meetings	Activation of SHG	7	0	0	0	0	202	202	2	1	3	2	203	205
28	Mahila Mandals Conveners meetings	-	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Celebration of important days (specify)	ICAR-Foundation Day 16.07.2014	1	0	0	0	28	41	69	3	1	4	31	42	73
		World Food Day 16.10.2014	1	0	0	0	16	0	16	2	0	2	18	0	18
		Women in Agriculture Day 04.12.2014	1	0	0	0	5	50	55	4	1	5	9	51	60
		International Women's Day 11.03.2015	1	0	0	0	70	500	570	2	2	4	72	502	574
		Total	4	0	0	0	119	591	710	6	1	7	125	592	717
Grand Total			3440	9783	6945	16728	46383	78973	125356	104	20	124	56270	85938	142208

Number of Technology weeks celebrated	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
<p style="text-align: center;">One (18/01/2015 to 23/01/2015)</p>	Gosthies	6	2070	1.Organic farming and judicious use of chemical fertilizers 2.Protected cultivation 3.Importance of Nutrition in Animal Husbandry 4.Integrated Pest and Disease Management 5.Anemia and its control measures 6.Importance of Soil & Water Testing in Agriculture
	Lectures organized	11	2070	Organic farming/Protected cultivation of horticultural crops/Animal Nutrition/IPM/IDM/management of Anemia/Soil & water testing
	Exhibition	6	2070	Agricultural Exhibition
	Film show	0	0	-
	Fair	0	0	-
	Farm Visit	6	1620	KVK demo.plot, Plug nursery, vermicompost unit, mother block of different varieties of mango etc.
	Diagnostic Practicals	0	0	-
	Distribution of Literature (No.)	24	2000	Related to Agri./Ani.Husbandry/Home Sci.
	Distribution of Seed (q)	0	0	-
	Distribution of Planting materials (No.)	0	0	-
	Bio Product distribution (Kg)	0	0	-
	Bio Fertilizers (q)	2	300	Different types of organic inputs.
	Distribution of fingerlings	0	0	-
	Distribution of Livestock specimen (No.)	0	0	-
Total number of farmers visited the technology week	850	600	Mineral Mixture & Animal feed concentrate	

Kisan Mobile Advisory
No. of Farmers registered : 1000

Details of SMSs

Content Category	No. of Messages	No. of Farmers	Feed back of farmers if any
Crop Production	-	1000	The information on Agriculture, Livestock, Home Science, Marketing & Weather are very timely and useful for betterment of socio-economic condition of rural tribal farmers.
Crop Protection	31		
Livestock & Fisheries Advisory	6		
Weather Advisory	-		
Market Information	-		
Events Information	1		
Input availability	-		
Health & Nutrition, Horticultural crops etc.	23		
Total	61	1000	

INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries
		-Nil-	

Major area coverage under alternate crops/varieties

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

Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
-Nil-			

Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
-Nil-			

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

KVK	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
					-Nil-							
Total												

1. Production and supply of Technological products

SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
	Paddy (Summer-2014)	Gurjari	30	70800	120
	Paddy (Summer-2014)	GNR-3	50	118000	200
	Paddy (Summer-2014)	Jaya	50	118000	190
	Paddy (Kharif-2014)	Gurjari	25	59000	100
	Paddy (Kharif-2014)	NAUR-1	22	52800	85
	Paddy (Kharif-2014)	IR-28	15	35400	60
	Paddy (Kharif-2014)	GNR-3	21	49560	82
	Paddy (Kharif-2014)	GR-7	22	51920	85
	Paddy (Kharif-2014)	Jaya	22	51920	80
OILSEEDS	-	-	-	-	-
PULSES	-	-	-	-	-
VEGETABLES	-	-	-	-	-
FLOWER CROPS	-	-	-	-	-
OTHERS (Specify)	-	-	-	-	-

SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	257	607400	1002
2	OILSEEDS	-	-	-
3	PULSES	-	-	-
4	VEGETABLES	-	-	-
5	FLOWER CROPS	-	-	-
6	OTHERS	-	-	-
	TOTAL	257	607400	1002

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Mango graft	Kesar	14	420	2
SPICES	-	-	-	-	-
VEGETABLES	Brinjal(bed)	Surti Ravaiya	5650	2300	20
	Brinjal(tray)	Hybrid	66369	49777	810
	Tomato(bed)	GT-2 & AT-3	1000	400	10
	Tomato(tray)	Hybrid	17030	17030	300
	Chilli	Hybrid	39320	39320	510
	Bottle gourd	Hybrid	7808	27328	300
	Bitter gourd	Hybrid	21796	78731	450
	Ridge gourd	Hybrid	7303	25560.5	400
	Sponge gourd	Hybrid	5273	18455.5	300
	Little gourd	GNLG-1	2139	21390	250
	Pointed gourd	GNPG-1	1827	18270	200
	Moringa	PKM-1	509	5090	200
	Cucumber	Deshi	302	1057	150
	Cauliflower	Pusa early	7000	2800	20
	Cabbage	Hybrid	500	200	3
	Beet	-	1000	400	60
	Onion	Agrifound Light Red	46533	13959.9	50
FOREST SPECIES	-	-	-	-	-
ORNAMENTAL CROPS	Marigold	pusa narangi	3550	1725	10
PLANTATION CROPS	-	-	-	-	-
Others (specify)	-	-	-	-	-

SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	14	420	2
2	VEGETABLES	231359	322068.9	4033
3	SPICES	-	-	-
4	FOREST SPECIES	-	-	-
5	ORNAMENTAL CROPS	3550	1725	10
6	PLANTATION CROPS	-	-	-
7	OTHERS	-	-	-
	TOTAL	234923	324213.9	4045

BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No.	(kg)		
BIOAGENTS	-	-	-	-	-	-
BIOFERTILIZERS	-	-	-	-	-	-
BIO PESTICIDES	-	-	-	-	-	-

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	(kg)		
1	BIOAGENTS	-	-	-	-	-
2	BIO FERTILIZERS	-	-	-	-	-
3	BIO PESTICIDE	-	-	-	-	-
	TOTAL	-	-	-	-	-

LIVESTOCK

SI. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle	-	-	-	-	-	-
SHEEP AND GOAT	-	-	-	-	-	-
POULTRY	-	-	-	-	-	-
FISHERIES	-	-	-	-	-	-
Others (Specify)	-	-	-	-	-	-

SUMMARY

SI. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE	-	-	-	-	-
2	SHEEP & GOAT	-	-	-	-	-
3	POULTRY	-	-	-	-	-
4	FISHERIES	-	-	-	-	-
	TOTAL	-	-	-	-	-

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

(A) KVK News Letter : Regular news of KVK is published in NAU Spectrum, NAU Publication.

(B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers	Revolutionary change in paddy production through effective TOT in tribal belt	Nikulsinh M.Chauhan, A.P.Patel	Not applicable
	Consequences of linkages with tribal cooperatives	Nikulsinh M.Chauhan	Not applicable
	Self-reliance in paddy seed production through Seed Village Programme	Nikulsinh M.Chauhan, A.P.Patel	Not applicable
	Appraisal of training needs of members of tribal women SHGs for agricultural development	Nikulsinh M.Chauhan, S.M.Kshirsagar	Not applicable
	Knowledge and adoption level of farmers about scientific cultivation of okra in Tapi district	C.D.Pandya, S.T.Bhatt, N.M.Chauhan	Not applicable
	Awareness among farmers about Krishi Vigyan Kendra-Knowledge and Resource Centre in Tapi district	C.D.Pandya, Arti N.Soni, N.M.Chauhan	Not applicable
	Incidence of yellow stem borer, <i>Scirpophaga incertulas</i> (Wlk) at different geographical locations in South Gujarat	S.M.Chavan, K.G.Patel, S.S.Arve	Not applicable
	Incidence of yellow stem borer in transplanted and drilled paddy	S.M.Chavan, K.G.Patel, S.S.Arve	Not applicable
	Effect of climate on reproductive parameters of surati buffaloes reared under surati buffalo calf rearing project, Gujarat	Jeetendra K.Raval	Not applicable
	Environment-production interaction in buffaloes	Jeetendra K.Raval	Not applicable
Record of leaf mining Beetle, <i>Trachys</i> sp. (Buprestidae: Coleoptera) on <i>Butea monosperma</i> (Lam.) Taub.(Fabaceae: Papilionoideae) in south Gujarat	S.M.Chavan, Sushil Kumar	Not applicable	

Item	Title	Authors name	Number of copies
	Role of KVK, Tapi in raising the socio-economic status of Bahurupa village in Gujarat through high-valued horticultural crops	N.M.Chauhan, P.K.Modi, S.M.Chavan	Not applicable
	Optimization of Irridiation and storage Temperature for Alphonso mango (<i>Mangifera indica</i>)	M.K.Yadav, N.L.Patel A.D.Chaudhary, P.K.Modi	Not applicable
	A report of spittlebug, clovia sp. (Aphrophoridae : Homoptera) infesting teak in Gujarat	Sushilkumar, S. M. Chavan, K. H. Kabade	Not applicable
	Impact of fruits and vegetable preservation training on women	Dipal N. Soni, J. J. Pastagia, Arti N. Soni	Not applicable
	Opinion of farmers about information of Animal Husbandry Practices given during Krishi Mahotsav	Arti N. Soni, Dipal N. Soni, H. B. Patel	Not applicable
	Usefulness of information about cotton production practices given during Krishi Mahotsav	Arti N. Soni, H. B. Patel, N. V. Soni	Not applicable
Total	17	-	-
Research paper abstracts	Revolutionary change in paddy production through effective TOT in tribal belt	Nikulsinh M.Chauhan	Not applicable
	Independency in paddy seed through seed village programme-Success story	Nikulsinh M.Chauhan	Not applicable
	Partaking of the tribal farm women in livelihood	Nikulsinh M.Chauhan	Not applicable
	Effect of temperature and radiation on nutrient uptake in horticultural crops	P.K.Modi, S.M.Chavan, N.M.Chauhan, T.R. Ahlawat, P.P. Bhalerao	Not applicable
	Ratooning and intercropping techniques in brinjal and okra	P.K.Modi, N.M.Chauhan, S.M.Chavan	Not applicable

Item	Title	Authors name	Number of copies
	Drudgery reduction in tribal farm women through Naveen Sickle"	Arti N. Soni, C. D. Pandya, Dipal N. Soni	Not applicable
	Introduction of improved NAVEEN Sickle for paddy harvesting to reduce drudgery in farm women	Arti N. Soni, C. D. Pandya Dipal N. Soni	Not applicable
	Opinion of farmers about information of Animal Husbandry practices given during Krishi Mahotsav	Arti N. Soni, Dipal N. Soni, H. B. Patel	Not applicable
	Usefulness of information about cotton production practices given during Krishi Mahotsav.	Arti N. Soni, H. B. Patel, N. V. Soni	Not applicable
	Impact of fruits and vegetable preservation training on women	Dipal N. Soni, J. J. Pastagia, Arti N. Soni	Not applicable
Total	10	-	Not applicable
Technical reports	MPR, QPR, SAC report, FLD report, AAP, APR, MER, AGRESCO, ZREAC report	PC & All SMS	Not applicable
Popular articles	<i>SHAKBHAJI MA RS. 2.5 LAKH KAMATO PIPALWADANO KHEDUT</i>	P. K. Modi, S. M. Chavan & N. M. Chauhan	Not applicable
	<i>BAL KRUMI</i>	Dipal N. Soni & Arti N. Soni	Not applicable
	<i>SOYBEAN NI MULYAVARDHIT BANAVATO</i>	Dipal N. Soni & Arti N. Soni	Not applicable
	<i>SOYA AADHARIT DAIRY BANAVATO</i>	Dipal N. Soni & Arti N. Soni	Not applicable
	<i>POSHANYUKT PURAK AAHAR</i>	Dipal N. Soni & Arti N. Soni	Not applicable
	<i>PRERNADAYI SHRI RAMAKANTBHAI SUCCESSFUL "MUSKMELON GROWERS"</i>	P. K. Modi, N. M. Chauhan & S. M. Chavan	Not applicable
	<i>SHG TRANSFORMED LIVES OF TRIBAL WOMEN</i>	Arti N. Soni & C. D. Pandya	Not applicable
	<i>TEXTILE UDHYOG MA PARYAVARAN – MITRA VANSNA RESANO UPYOG</i>	Dipal N. Soni & Arti N. Soni	Not applicable
Total	8	-	Not applicable

Item	Title	Authors name	Number of copies
Leaflets/folders	<i>DUDHALA GAY/BHENS NI PASANDAGI</i>	Dr. J. K. Raval and Dr. C. D. Pandya	500
	<i>TAPI JILLAMA PASHUPALANNO VAIGYANIK ABHIGAM</i>	Dr. J. K. Raval, Arti N. Soni and Dr. C. D. Pandya	500
	<i>DUDH UTPADAN JALVI RAKHAVA AAPAVAMA AAVATO POSHANXAM AAHAR</i>	Dr. J. K. Raval and Dr. C. D. Pandya	500
	<i>GAR AANGANE SHAKBHAJI (Nutritional Gardening)</i>	Arti N. Soni, Pravinkumar Modi, Dr. S. M. Chavan and Dr. C. D. Pandya	1000
	<i>FAL ANE SHAKBHAJIMATHI BANATI VIVIDH BANAVATO</i>	Arti N. Soni, Pravinkumar Modi and Dr. C. D. Pandya	500
	<i>MAHILAOMA PANDUROG (ANEMIA) ANE TENE ATKAVVANA UPAYO</i>	Arti N. Soni and Dr. C. D. Pandya	500
	<i>GRAM VIKAS MATE JARURI SVA SAHAY JUTH</i>	Arti N. Soni and Dr. C. D. Pandya	500
	<i>UNDAR NIYANTRAN</i>	Dr. C. D. Pandya, Arti N. Soni and Dr. J. K. Raval	500
	<i>JUVARNI VAIGYANIK KHETI PADHDHTI</i>	Dr. M. R. Gami and Dr. C. D. Pandya	500
	<i>JAL ANE JAMINNI JALAVANI TEMAJ SAMAJPURVAK UPYOG</i>	Dr. M. R. Gami and Dr. C. D. Pandya	500
	<i>DANGARNI CHARSUTRI KHETI (SIRA)</i>	Dr. M. R. Gami and Dr. C. D. Pandya	500
	<i>PAPAYA NI VAIGYANIK KHETI PADHDHTI</i>	Pravinkumar Modi and Dr. C. D. Pandya	500

Item	Title	Authors name	Number of copies
Leaflets/folders	<i>TAMETA NI VAIGYANIK KHETI PADHDHTI</i>	Pravinkumar Modi and Dr. C. D. Pandya	500
	<i>MARCHA NI VAIGYANIK KHETI PADHDHTI</i>	Pravinkumar Modi and Dr. C. D. Pandya	500
	<i>RINGAN NI VAIGYANIK KHETI PADHDHTI</i>	Pravinkumar Modi and Dr. S. M. Chavan Dr. C. D. Pandya	500
	<i>SANGRAHELA ANAJMA JIVATNO UPDRAV ATKAVVANI YOGYA RASAYANIK PADHDHTIO</i>	Dr. S. M. Chavan, Arti N. Soni and Dr. C. D. Pandya	500
	<i>SHERADIMA SANKALIT JIVAT NIYANTRAN</i>	Dr. S. M. Chavan and Dr. C. D. Pandya	500
	<i>SANGRAHELA ANAJNI JIVATO ANE TENU NIYANTRAN</i>	Dr. S. M. Chavan, Arti N. Soni and Dr. C. D. Pandya	500
	<i>TUVERMA PAK SANRAXAN</i>	Dr. S. M. Chavan, Arti N. Soni and Dr. C. D. Pandya	500
	<i>DIVELAMA PAK SANRAXAN</i>	Dr. S. M. Chavan and Dr. C. D. Pandya	500
	<i>SHETURNA RESHAMNA KIDANO UCHHER : SERICULTURE</i>	Dr. S. M. Chavan, Pravinkumar Modi and Dr. C. D. Pandya	500
	<i>DANGARMA SANKALIT JIVAT NIYANTRAN</i>	Dr. S. M. Chavan and Dr. C. D. Pandya	500
Total	22	-	11500
Books	Management Efficiency of poultry owners ISBN:978-81-7622-326-3, July-2014, Published by Biotech Books, New Delhi	Dr. Nikulsinh M. Chauhan, Dr. Gunvant Thorat & Co-workers	--
Total	1	-	-
Grand Total	58	-	11500

3.7. Success stories/Case studies:

: Success stories :

3.7.1 'NAUROJI' fruit fly trap – A tool for ecofriendly fruit fly management in watermelon and muskmelon in Bahurupa village

In 1959 Karlson and Butenandt coined the term Pheromone, a chemical that is secreted into the external environment by an animal and that elicits a specific response in a receiving individuals of the same species. Sex pheromone, a type of pheromones, released by one sex only triggers off a series of behaviour patterns in other sex of the same species and thus facilitates mating. The male insects respond to the odorous chemical released by the female. Pheromones have been successfully used in insect control. This is a behavioral method in which the insects positive anemotactic orientation is exploited in making it approach the trap laid. Population control is achieved by destruction of males within the pheromone baited trap.

The village Bahurupa is situated in Nizer block of Tapi district. It is located 32 km away from block place, 120 km from district place also from Krishi Vigyan Kendra, NAU, Vyara. The total population of the village is around 1700 with 980 male and 720 female. The total geographical area of the village is about 100 ha. Out of which net cultivated area is about 80 ha (80%). The irrigated area of village is 40 ha (50%) which is mostly irrigated by tube wells. Kantilal Thakre is a sarpanch of village.

In the year 2011 KVK, Vyara has adopted the village Bahurupa for its intensive activities of Transfer of Technologies related to agriculture for increasing agricultural production thereby raise the socioeconomic status of farmers. By considering this, team of Subject Matter Specialist of KVK, Vyara visited to Bahurupa village and conduct PRA to find out the technological adoption gap as well as to identify the thrust areas for the village.

During PRA, interacting with farmers, it was found that up to 2007, main crops of this village were cotton, sugarcane, sorghum, maize, pigeonpea, gram and soybean. Later on, farmer themselves have been changed the cropping pattern and introduced new crops viz., banana and papaya. During next 3-4 years maximum area was covered under banana and papaya and farmers got maximum return. Unfortunately, due to viral disease problem in papaya and also due to long duration period of these crops, farmers have been continued in search of short duration crop. Immediately our KVK scientist suggested farmer about cultivation of watermelon as this is short duration crop. From 2010 onwards they have been continuously cultivated watermelon in summer season and also get maximum return. Right now, they also have been cultivated muskmelon in summer. At present in Bahurupa, area covers under these crops is about 120 acres. New technologies viz., drip irrigation, mulching with plastic paper, fertigation were also adopted by these farmers. However, during regular diagnostic visit conducted by KVK team it was noticed that farmers of Bahurupa facing a serious problem of fruit fly infestation in these crops. Moreover, it also noticed that about 15-20% damage was observed due to fruit fly infestation. Farmers have been applied hazardous chemical insecticides for management of these fruit flies, but they facing a great problem as the maggots of fruit fly feed inside the fruits beyond the reach of insecticides. Moreover, due to good flying capacity, farm level efforts do not provide much control. The incidence of fruit fly not only reduces the yield, quality but also cause economic losses. Besides, it also spoils the prestige of fruit growers in national and international market. In the

present era of organic farming, massive overuse and frequent misuses of synthetic organic insecticides has led to problems of 3R's viz; Resistance, Resurgence and Residues as well as toxicity hazards to man, plants, domestic animals and wildlife resulting in environmental degradation.

The use of chemical attractant like methyl eugenol along with appropriate trapping technique has also been found effective in monitoring, suppressing fruit flies on large areas by male annihilation technique (MAT) and even complete eradication of various fruit flies. (Steiner *et al*, 1970 and Stonehouse *et al*, 2002). The 'NAUROJI' fruit fly trap developed by Navsari Agricultural University, Navsari is also based on male annihilation technique. By considering this, we have introduced 'NAUROJI' fruit fly trap in Bahurupa and attempt have also been made to increase awareness among farmers regarding this trap technology by various extension activities viz., method demonstration of NAUROJI trap installation, filed visit and also off campus trainings etc.

Fortunately, with financial assistance under Adaptive trial from, Navsari Agricultural University, Navsari, KVK Vyara was able to give demonstrations in 50 acres benefiting 19 farmers. The fruit fly traps were demonstrated, constant follow up visits and other extension activities have been concentrated. The major achievement of the demonstrations is that farmers were successful in keeping off the fruit fly incidence from their field with the advanced guidance provided by KVK scientists. The other farmers growing watermelon and muskmelon from neighboring villages were also attracted. The Bahurupa village is now became a model for cultivating watermelon and muskmelon with ecofriendly installation of NAUROJI fruit fly trap in the Block. The farmers of surrounding villages are enthusiastic for adopting fruit fly trap technology in watermelon and muskmelon. The total fruit fly traps costing Rs.-**16500**, were supplied to **19 farmers** on free of cost. The constant follow up and monitoring, made them habitant with ecofriendly installation of NAUROJI fruit fly trap.

Table: Comparison of economics of NAUROJI trap demonstration plot and control plot

Particulars	Watermelon		Muskmelon	
	NAUROJI trap demonstration plot	Control Plot	NAUROJI trap demonstration plot	Control Plot
Number of spray	One time installation of trap	3	One time installation of trap	3
Per cent damage by fruit fly	05-08%	12-15%	05-08%	12-15%
Gross Cost including Plant Protection (Rs/ha)	125000.00	140000.00	200000.00	225000.00
Average Yield (t/ha)	33.4 t/ha	30.5 t/ha	35.6 t/ha	31.3 t/ha
Increase yield over control	3.74%	-	9.5%	-
Gross income (Rs/ha)	267200.00	244000.00	400800	366000
Net profit (Rs/ha)	142200.00	104000.00	200800	141000

Reference:

Steiner, L. F.; Hart, W. G.; Harris, E. J.; Cunnigham, R. T.; Ohinata, K. and Kamakahi, D. C. (1970). Eradication of oriental fruit fly from the Mariana Island by the method of male annihilation and sterile insect release. *J. Econ. Ent.*, **63** (1) : 131-135.

Stonehouse, J. M.; Mumford, J. D.; Verghese, A.; Shukla, R. P.; Satpathy, S.; Singh, H. S.; Jiji, T.; Thomas, J.; Patel, Z. P.; Jhala, R. C.; Patel, R. K.; Manzar, A.; Shivalingasawmy, T. M.; Mohanta, A. K.; Nair, B.; Vidhra, C. V.; Jagdale, V. S.; Sisodiya, D. B. and Joshi, B. K. (2007). Village-level area-wide fruit fly suppression in India: Bait application and male annihilation at village level and farm level. *Crop Prot.*, **26**: 788-793.

3.7.2 : Integrated Pest Management (IPM) in Okra

The advent of potent synthetic organic pesticides has provided man with weapons of unprecedented effectiveness for his never ending war against the depredation of various pests. However their massive overuse and frequent misuses has led to problems of 3R's viz, Resistance, Resurgence and Residues as well as toxicity hazards to man, plants, domestic animals and wildlife resulting in environmental degradation. In view of growing concern among the public for pesticide contamination there is need to adopt non chemical methods of pest control in different crops.

Crop protection is a complex process which requires an understanding of the interactions between the environment, methods of farming and the predominant systems of cultivation. In the present era of organic farming, exclusive dependence on chemical pesticides is not likely to provide sustained solution to all our pest problems. Therefore, safer and effective alternatives to chemical control are needed as a part of interdisciplinary approach to insect pest management, resulting in emergence of new concept i.e. **Non-Pesticidal Management (NPM)**. NPM is an ecological approach to pest management using knowledge and skill based practice to prevent insect pests from reaching damaging stages and proportions by making best use of local resource, natural process and community action'.

The Okra crop is becoming more and more popular in Tapi district. The considerable acreage area (4000 hectare) is under okra cultivation. Due to lack of knowledge regarding scientific package of practices tribal farmers are assassinating huge budget behind crop production, indiscriminating use of agrochemical and loosing the health of soil, water and environment and also unable to get higher net return due to lack of knowledge regarding value addition and market management. By considering this Krishi Vigyan Kendra, Vyara has been made an effort to disseminate NPM technology through various extension activities in different villages of Tapi district.

Village Degama is situated in Valod block of Tapi district. It is located 15 km away from block place, 14 km from district place also from Krishi Vigyan Kendra, NAU, Vyara. In the year 2012 KVK, Vyara has adopted the village Degama for its intensive activities of Transfer of Technologies related to agriculture for increasing agricultural production thereby raise the socioeconomic status of farmers. By considering this, team of Subject Matter Specialist of KVK, Vyara visited to Degama village and conduct PRA to find out the technological adoption gap as well as to identify the thrust areas for the village.

During PRA, interacting with farmers, it was found that, paddy, sugarcane, pigeonpea and okra are main crops of this village. During interaction it was also found that, for management of insect pests of okra, farmers solely depend upon chemical pesticides. They were unknown about the identification of pests of okra, their life cycle,

nature of damage etc. For management of insect pests of okra, they have been used health hazardous chemical pesticides injudiciously and indiscriminately. Moreover, it was very interesting to notice that, most of the okra growing farmers have not been consumed okra fruits grown by them. As they all are known about the pesticide load done by themselves on okra for management of insect pests

By considering the present situation, Subject Matter Specialist (Plant Protection) arranged training programmes (on/off) to increase awareness about “**Integrated Pest Management**” among farmers. During training programmes, he mainly emphasized on ‘**Pesticide Residues**’ in different crops and guide farmers about the different component of IPM viz., cultural practices, mechanical and physical practices; use of botanical pesticides, biological agents and lastly use of chemical pesticides. Moreover, he also carried out method demonstration of installation of yellow sticky traps, pheromone traps, trichocards etc.

Subsequently, about 12 okra growing farmers of Degama was selected for giving FLD on ‘IPM in okra’ and IPM kit comprising of yellow sticky traps, pheromone traps, ervitlure, Neem based Azadirachtin 1500 ppm and Trichocards were distributed to each selected farmers. Regular FLD visit, filed visit and diagnostic visit were also carried out by concerned SMS during which method demonstration of installation of different traps were carried out. The advice about need based pesticide application (based on the ETL level) was also given during field visit/FLD visit. SMS (Plant Protection) also guide farmers about the identification of insect pests, bioagents, and their life stages.

Sunandaben Kamleshbhai Konkani, farm women, resident of Degama village. She educated up to 10th class and engaged in agricultural activities. She has 0.5 ha land and cultivated okra every year. Sunandaben carried out all the plant protection measures suggested by SMS (Plant Protection). She adopted all the IPM practices viz., collection and destruction of infested shoots and fruits, installation of pheromone traps, yellow sticky traps, trichocards, spraying of neem based Azadirachtin 1500 ppm, need based application of pesticides etc. By this way, she carried out about total 8 sprays in demonstrated plot as compared to control wherein total 15 sprays were done. She got 12.74% increase in yield over control plot. The total cost of cultivation including plant protection was 1.75 lakh and 1.50 lakh per ha in control and demonstrated plot, respectively. She got average market price of Rs. 35/-per kg and thereby his net profit was Rs. 252200/- per ha in demonstrated plot as compared to control plot wherein net profit of Rs. 182000/- was obtained.

Table: Comparison of economics of IPM demonstration plot and control plot

Particulars	Okra	
	Demonstrated plot	Control Plot
Number of spray	8	15
Total no. of picking	44	38
Average Yield (t/ha)	11.5 tonn/ha	10.2 tonn/ha
Increase in yield over control	12.74%	-
Gross Cost including Plant Protection (Rs/ha)	150000.00	175000.00
Gross income (Rs/ha)	402500.00	357000.00
Net profit (Rs/ha)	252200.00	182000.00

3.7.3 : Bottle gourd brings shining in life of Ashwinbhai

Name of farmer	Ashwinbhai Pravinbhai Patel
Village	Goddha
Block	Valod
Address	At.Po: Buhari, Block: Valod, Dist. Tapi (Gujarat)
Contact details (Phone, mobile, email Id)	09409543477
Landholding (in ha.)	4
Irrigated (in ha.)	4
Un-irrigated (in ha.)	-
Membership details (in Self-Help Group, Producers Cooperative/ Company, Cooperative Society (etc))	-
Brief about individual / group	Shri Ashwinbhai Pravinbhai, born in 1982 in Godadha village of Valod block in Tapi district of Gujarat State. He is educated upto M.Sc. Physics. He has cultivated 16 bigha land own. He has grown sugarcane and banana grower since long time and take excellent production of sugarcane (>80 tonne/acre) as well Banana (22-25 tonne/acre). In year 2013-14 he was think to try about cultivation of vegetable. He was discussed with KVK scientist for vegetables and decided bottle gourd cultivation in the month of April.
Write up on of success story	After decided for cultivation of bottle gourd he has to booking 2400 seedling grown in plug trays at NHM model nursery KVK, NAU, Vyara 15 days before planting. During that time he has to cultivate and prepare raised bed and dripper lines on bed. Before planting marking for planting of plant on row to row 2 meter and plant to plant 1 meter distance and prepare dig pit on mark 15-20 cm which filled with FYM and brigades of urea, DAP and Potash (Tablets). 10-12 days after planting drenching of Azotobactor, PSB, Potash mobilizer and trichoderma (50 ml each/15 ltr. of water) to each and every plant. During vegetative growth application of Urea, Potash and 0-52-34 fertilizers and during reproductive stage foliar spray of 0-0-50, 13-0-45 and micronutrients every 15 days interval. After 45 days plants become comes under reproduction and harvest alternate day. His highest production 1400 kg in a day and minimum 300 kg from 2200 plants. Total 40 picking, average production 600 kg per picking and total production 24000 kg. Total cost

	<p>of production of bottle gourd in two bigha 40,000 and total income 1, 20,000 as well as net income 80,000 from 2 bigha only in 150 days. During whole crop cycle he was relaxed about labour for weeding and pesticides spray. Whole produced from their farm with well packaged in polybags transferred to APMC, Surat for fetches good price.</p> <p>During whole 4.5 month only 4-5 spray of chemical pesticides required. Memorable guidelines for that cultivation with less cost and higher return.</p>	
Factors responsible for success (Eg: Individual efforts, leadership qualities, innovativeness, and support from Govt. Department, responsiveness to change etc)	Individual efforts, innovativeness, quality planting material and technical guidance from KVK, Vyara	
Impact of success story on other farmers in locality	Mr. Ashwinbhai is the progressive farmer who changed his cropping pattern and took all three cash crops for getting higher return. For updating his knowledge he refers Agrosandesh (Gujarati publication), periodicals, books and also the KVK scientist. Now, he became a progressive farmer and the best guide for farmers of Goddha in bottle gourd cultivation. He also developed good rapport with merchants of Surat market with higher prices. By his efforts total 20 acres of area of the surrounding village came under Bottle gourd cultivation.	
Awards / rewards / appreciation received	He is also awarded by KVK, Tapi, NAU, Navsari and District administration for his successful journey towards Bottle gourd cultivation.	
Impact factors	Before Adoption	After Adoption
Crop / Agricultural Practice	Sugarcane	Bottle gourd
Yield of crop / product	80.00 t/acre	24.00 t/ha
Sale Value	Rs. 2200/-	Rs. 5/kg
Input Cost	Rs. 40,000/-	Rs. 40,000/-
Labour Cost		
Plant protection measures		
Total Income	Rs.1,76,000	Rs.1,20,000/-
Net Saving/ Net Profit	Rs. 1,36,000/-	Rs. 80,000/-
Duration	400 days	150 days

: Case Studies :

3.7.4 :Case study-Increase awareness among farmers about biological control of sugarcane *Pyrilla* by using its natural parasitoid *Epiricania melanoleuca*

Every insect has a number of natural enemies. They are parasitic insects and mites, predatory insects, mites, spiders, birds, mammals, reptiles and fishes and disease-causing viruses, bacteria and fungi. They keep the insect population in check. They increase with increase in the host population and when the hosts are destroyed, they turn, decrease in their numbers providing opportunity for the host species to build up again. Thus at no time the population of either the hosts or their natural enemies reaches enormous proportions and at any time the population is roughly constant or centres around a mean; in other words a natural balance within limits is almost always maintained.

In the absence of natural control or the 'balance of nature' the losses due to pests will be much more severe. So, disruption of naturally occurring biological control agents by poor choice and/or application technique of insecticides and or employing harmful cultural practices should be avoided. In pest management programmes, conservation and enhancement of native natural enemies should be the first consideration. When these are properly done, the need for other control measures may be greatly reduced or even eliminated for some pests.

It is important to note that in integrated pest management systems, natural enemies need not provide complete control of the pest, since the system integrate many other tactics to achieve their goal. So, there is need to educate the farmers that they need not expect the natural enemies to cause cent per cent mortality of the pests and in fact there should be some pest population for the survival of natural enemies.

The village Ucchamala is situated in Block Vyara of Tapi district. It is located 12 km away from block place, district place and also from Krishi Vigyan Kendra, Vyara. In the year 2010, KVK, Vyara has adopted the village Ucchamala to carry out different extension activities and also to transfer new technologies related to agriculture and allied sector for increasing agricultural production there by raising the standard of living of farmers. **Ranjitbhai Hirjibhai Gamit** is a resource person and also an innovative farmer of this village. He is 32 years old and fervent about adopting new technologies in his own farm and also disseminating to neighboring farmers. He frequently visited to KVK Vyara and inform about the agricultural related problem to concern scientist and adopting each and every technology provided by KVK.

Regular field visit were also carried out by KVK scientists to record varietal response to pest and diseases. Sugarcane is the major cash crop and ranked second in area of cultivation after paddy. During *kharif*-2014, in the month of August, infestation of sugarcane pyrilla, *Pyrilla perpusella* was observed by the neighboring farmers of Ranjitbhai, Ucchamala on variety **Co 86032**. Immediately, Ranjitbhai visited to field and he observed that the infestation was more in nearby 5-6 farmers field (around 2 ha area was heavily infested). On next day he visited to KVK, Vyara and inform to **Dr. S.M.**

Chavan, SMS (Plant Protection) about the same. Instantly, **Dr. S.M. Chavan** and **Pravin Kumar Modi**, SMS (Horticulture) arranged a diagnostic visit to Uchamala and observed the heavy infestation of sugarcane pyrilla.

Actually farmers are unaware about the insect pest-sugarcane pyrilla. At first, Dr. Chavan during diagnostic visit gave detailed information about the pyrilla pest, its life stages, nature of damage. He also gave detail account on its natural parasitoid, *Epiricania melanoleuca*. Subject Matter Specialist (Plant Protection) also arranged off campus training on “**Integrated Pest and Disease Management (IPDM)**” in **Sugarcane**. He also guides farmers about the management practices, particularly biological control by using its natural parasitoid, *Epiricania*. During diagnostic visit, he also gave detailed information about the different life stages of *E. melanoleuca* (nymphal and adult ectoparasitoid of pyrilla) and how it predate the nymph and adult of pyrilla. During diagnostic visit he also told that, in heavily infested area, along with different life stages of pyrilla, the eggs and cocoons of *E. melanoleuca* was also found. By monitoring such infested area, first collect the egg masses and cocoons of *E. melanoleuca* along with leaf (with the help of scissors) and release or stapled such egg masses and cocoons equidistantly in the field. By this way, awareness among farmers of Uchamala village was achieved regarding biological control of sugarcane pyrilla by using its natural nymphal-adult parasitoid, *Epiricania melanoleuca*.

3.7.5 : Integrated approach for Brinjal Cultivation

Name of farmer	Sureshbhai B. Gamit
Village	Ghata
Block	Vyara
Address	At.Po: Ghata, Block: Vyara, Dist. Tapi (Gujarat)
Landholding (in ha.)	5
Irrigated (in ha.)	4.4
Un-irrigated (in ha.)	0.6
Membership details (in Self-Help Group, Producers Cooperative/ Company, Cooperative Society (etc))	-
Brief about individual / group	Shri Sureshbhai B. Gamit, born in 1972 in Ghata, Village of Vyara block in Tapi district of Gujarat State. He is educated upto B.Com. and doing job as clerk in Senior Secondary School. He has cultivated 20 bigha lands own. He has grown paddy and sugarcane since long time and take average production of sugarcane (>60 tonne/acre) as well paddy (10-15 tonne/acre). In year 2013-14 he was decided for brinjal cultivation with high-tech system. for that discuss with KVK scientist in the month of March.
Write up on of success story	For cultivation of brinjal he has to booking 11000 seedlings grown in plug trays at NHM model nursery KVK, NAU, Vyara 30 days before planting. During that time he

	<p>has to cultivate and prepare ridge and furrow with mixture FYM, DAP, Potash, Sardar amin and dripper lines on bed and on the bed spread mulching. Prepare hole on mulching 3.5 feet distance. Spacing between plant to plant and row to row 3.5 feet. at the time of planting dipping of seedling in the solution of bio-fertilizers and bio pesticides <i>i.e.</i> Azotobactor, PSB, Potash mobilizer and trichoderma (100 ml each/3ltr. of water) also same drenching to each and every plant through drip. During vegetative growth application of Urea, Amonium sulphate, Potash, 19:19:19 and 0-52-34 fertilizers through Fertigation and during reproductive stage foliar spray through Fertigation application of 0-0-50, 13-0-45 and micronutrients every 15 days interval. After 42 days plants become comes under reproduction and harvest every three day. His highest production 500 kg in a day and minimum 300 kg from 11000 plants. Total 40 picking, average production 300 kg per picking and total production 12,000 kg. Total cost of production of brinjal in two bigha 80,000 and total income 4.20 lakh as well as net income 3,40,000 from 1 acre only in 220-240 days. During whole crop cycle he was relax about labour for weeding and pesticides spray. Whole produced from their farm with well packaged in polybags transferred to APMC, Surat for fetches good price. During whole 7.5 month only 5-6 spray of chemical pesticides required. Memorable guidelines for that cultivation with less cost and higher return.</p>
<p>Factors responsible for success (Eg: Individual efforts, leadership qualities, innovativeness, and support from Govt. Department, responsiveness to change <i>etc.</i>)</p>	<p>Individual efforts, innovativeness, quality planting material, bio-fertilizers and pesticides (Integrated nutrient management) and technical guidance from KVK, Vyara</p>
<p>Impact of success story on other farmers in locality</p>	<p>Mr. Sureshbhai is the progressive farmer who changes his cropping pattern and takes all different crops for getting higher return. For updating his knowledge he refers Agro sandesh (Gujarati publication), periodicals, books and also the KVK scientist. Now, he became an progressive farmer and the best guide for farmers of Tapi for brinjal cultivation. He also developed good rapports with merchants of Surat market with higher prices. By his efforts total 10 acres of area of the surrounding village came under brinjal cultivation.</p>
<p>Awards / rewards / appreciation received</p>	<p>--</p>

Impact factors	Before Adoption	After Adoption
Crop / Agricultural Practice	Sugarcane	Brinjal
Yield of crop / product	60.00 t/acre	12.00 t/acre
Sale Value	Rs. 2200/tonne	Rs. 3.5/kg
Input Cost	Rs. 40000/acre	Rs. 80,000/acre
Labour Cost		
Plant protection measures		
Total Income	Rs.1,32,000	Rs.4,20,000/-
Net Saving/ Net Profit	Rs. 92,000/-	Rs. 3,40,000/-
Duration	400 days	220-240 days

3.7.6: Case study: Highly beneficial - Preparation of Herbal Hair Oil by Tribal Farm woman for domestic consumption

1.	Name of Tribal Farm woman	:	Chaudhari Nutanben Pravinbhai
2.	Village	:	Kalakava
3.	Taluka & District	:	Vyara, Tapi, Gujarat
4.	Age	:	49 yrs
5.	Membership details	:	Secretary in Shivshakti Self Help Group, Kalakava and Member in Milk co-operative society
6.	Activities of Tribal Farm woman	:	Works regarding Agriculture & Animal Husbandry, Household work
7.	Family income(Annual)	:	Rs.75000/-
8.	Month & Year of Vocational Training on preparation of Herbal Hair Oil	:	24-26, February' 2014
9.	Technical guidance	:	Krishi Vigyan Kendra, NAU, Vyara, Tapi
10.	Materials/ raw materials used for Herbal Hair Oil preparation	:	Coconut oil, Gingelly seed oil, Castor oil, Aonla, Bottle gourd, <i>Bhrungraj</i> , <i>Brahmi</i> , various Ayurvedic <i>Churan(Jatamasi, Vaj, Nagarmoth, Jethimadh, Agar, Anantmul, Sandal)</i> , <i>Jaran</i> , Neem leaves, Henna leaves etc.
11.	Total Cost of Homemade Herbal Hair oil	:	Rs.350/liter
12.	Market Price of different Herbal Hair Oil	:	Rs.800 to1200/liter i.e. Average Rs.1000/liter
13.	Economic Benefits for tribal farm woman	:	Rs.650/liter
14.	Benefit Cost Ration (BCR)	:	1:1.86

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year

Sustainable way of sugarcane seed production

Name of farmer: Bhavik N. Bhakta, Village: Ambach, Tal. – Valod, Dist.-Tapi

Title of Innovation- Sustainable way of sugarcane seed (Single or double eye bud) production

Description of innovation

- Generally, farmers have been carried out planting of 3-4 budded sugarcane sets, wherein they require more than 4-4.5 tonnes of sugarcane per acre. So, there is lots of wastage of sugarcane. By keeping this in mind, Mr. Bhakta introduced a new innovation for farmers of south Gujarat.
- By this innovation from one tonne of sugarcane, he produces 5-6 thousand eye buds. Generally, 7 to 7.5 thousand eye buds/acre are required. So, using such planting material farmers, will save more than 3-3.5 tonnes sugarcane.
- Mr. Bhakta, has been provided Single or double eye budded sugarcane sets of more than six varieties viz., CO-3102, CO-0265, CO-86032 and CO-86002 which are mostly grown by the farmers of south Gujarat. After cutting of such buds, he treats the sets by dipping in solution of chloropyriphos, bavistin and ethrel as a protective measure against pest and disease as well as for the enhancement of germination.
- By selling of 25 lakh such eye buds (Rs. 0.90/bud and 1.5/bud) from October-2013 to March -2014 he got total income in Rs. 23.00 lakhs.
- In this technology he uses only the nodal region of the cane and the other waste part of cane sent to the sugar factories. Due to that from the 220 tonnes of waste cane he obtained Rs.5.00 lakh.
- In this innovation he provides employment to about 25 farmers every day from last 6 months. Moreover, he also suggested to each and every farmer about planting of sugarcane sets at the spacing of 4-4.5 X 1.5 feet.

Application of innovation

More than 1200 farmers of Tapi as well as Dang, Navsari, Surat and Bharuch district have been taken advantages of this technology and planted in more than 300 ha area. Good quality seed, treated seed and healthy as well as young seed of age of 7-8 months is available to the farmers at their doorsteps.

Activities conducted for wide spread

For the spreading of this technology he planted different varieties of sugarcane in more than 10 ha area as a demonstration. Furthermore, he has been started to produce planting material of sugarcane in portrays and selling through sugar factory. Next year his target is of **plantation of more than 500 ha area** through this innovation.

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

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)

3.10 Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers / farm women: – PRA and group discussion, eye to eye contact and eye observation
- Rural Youth: – Group discussion with youth, at the time of field visit. Feed back from Agricultural schools and BRS/MSW/MRS Colleges and NGOs
- In-service personnel: – Discussion with extension workers, line department officials, field extension functionaries and NGOs staff along with feedback of SAC, ZREAC and Scientific community.

3.11: Field activities

- i. Number of villages adopted: - 12
- ii. No. of farm families selected :- 5357
- iii. No. of survey/PRA conducted :- 12

3.12: Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Working (under ICAR)

1. Year of establishment : 2005-06 (September 2006)

2. List of equipments purchased with amount :

Sr. No.	Name of Equipments	Qty.	Cost (Rs.)
1	2	3	4
1.	Whirlpool freeze	1	15800
2.	Electronic Automatic Kel Pus Microprocessor based eight place macro block digestion system model KES-08L	1	88120
3.	Electronic Kel plus micro processor based Automatic Distillation system model distil EM	1	142300
4.	Double still with thermo sensor hr (All glass) cat No 2348	1	38550
5.	Nova Rotary shaking machine		
	(a)Capacity 16 flasks of 250 ml	1	24500
	(b)Capacity 25 flasks of 250 ml	1	29750
6.	Nova Hot plate Rectangular model NV-8535 stainless steel		
	(a) Size 12" x 20"	1	8500
	(b) Size 18" x 24"	1	11250
7.	Nova willy mill stain lese steel camber Size 100 x 50 mm	1	31900
8.	Laboratory Table	4	34400
9.	Racks	6	9000
10.	Stools	12	5400
11.	Steel cupboard – storewel	4	19200
12.	Steel cupboard storewel	4	14000
13.	Steel racks	4	8600
14.	Partition racks	3	22500
15.	Office chair	4	4000
16.	Systronics make		
(a)	Micro controller based Digital spectrophotometer model -106	1	26800
(b)	Systronics make micro controller based flame photometer compressor model-128	1	35200
(c)	Systronics make micro controller based PH meter	1	10900
(d)	Systronics make micro processor based conductivity meter	1	12800
17.	Hot air oven	1	21200
18.	Chemical Balance	1	75000
19.	CENTRO FIX WATERBATH	1	10800
20.	CENTRO FIX – Muffle furnace	1	29500
21.	Automatic autoclave	1	21000
22.	City weigh balance model ST-10 Cap- 10 kg	1	10640
23.	LG AC-15 ton	1	23740
24.	Micro kjeldahl Assembly	1	10700
25.	Burner maker type with stop coke	8	2000
26.	Voltas make water cooler	1	26500
	Total	67	539780

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	7	7	7	2100
Water Samples	11	11	8	550
Plant Samples	103	189	72	Free of Cost
Petiole Samples	0	0	0	0
Total	121	207	87	2650

4.0 IMPACT

4.1. Impact of KVK activities

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
Preparation of <i>Masala</i> for domestic consumption			Market Price	Homemade cost
1. <i>Tea Masala</i>	110	85.00	Rs. 1100/kg	Rs. 700/kg
2. <i>Garam Masala</i>	110	80.00	Rs. 600/kg	Rs. 450/kg

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

4.2. 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

4.3 Details of impact analysis of KVK activities carried out during the reporting period: --Nil--

5.0 LINKAGES

5.1 Functional linkage with different organizations

Sr. No.	Name of Organization	Nature of Linkage
1	Dept. of Agriculture	Participation * Khedut Shibir * Soil Health Card & In-service Trg. * Extension Activités, ATMA, RKVY, SRI techniques
2	Dept. of Horticulture	Participation * Khedut Shibir * Extension Activités, NHB & NHM
3	ATMA-Tapi	Participation * Khedut Shibir / Mahila Shibir * Extension Activités * Training Programmes, FLDs, FFS, OFT, Field visits, Joint visits, Krishi melas and exhibitions, Convergence
4	DRDA, Tapi	For Training Programmes, Extension activities & technical support
5	Main Rice Res. Station, AAU, Nawagam	Collaboration – FLD on Paddy

Sr. No.	Name of Organization	Nature of Linkage
6	Main Cotton Res. Station, NAU, Surat	Collaboration – FLD on Cotton IPM Mission in Nizar block, RKVY Project, Mealy bug campaign
7	Main Water Management Research Unit, NAU, Navsari	Collaboration – FLD on Soil & Water management, Greenhouse, Drip Irrigation
8	Research Stations, NAU	Participation – Farmers Day, Seed – FLDs
9	FTC, Vyara	Joint implementation – Farmers visit and expert lectures, Farmer's Fair, Trainings, Krishi Mela
10	Govt. of Gujarat	Collaboration – Krishi Mahotsav, ATMA, RKVY, NFSCM, etc., Convergence
11	State Bank of India / Bank of Baroda	SHG work – Finance for entrepreneurship-development
12	Hangati Mahila Trust, Mandal	TOT, Seed village, Kitchen Garden, Vermicompost, Co-op. management [89 Villages Network]
13	Integrated Child Development Services, Tapi	Organizing In-service training for Anganwadi workers & Taluka coordinators & Supervisors
14	ATMA- Navsari	For sponsored trainings to farmers, farm women and Rural youth of ATMA villages of Navsari District.
15	ATMA- Narmada	For sponsored trainings to farmers, farm women and Rural youth of ATMA villages of Narmada District.
16	ATMA- Kheda	For sponsored trainings to farmers, farm women and Rural youth of ATMA villages of Kheda District.
17	NAU, Navsari	For Technical products, technical guidance and supports.
18	SEWA	For Training Programmes, Extension activities & technical support
19	ECI Trust-Unchamala	For Training Programmes, Extension activities & technical support
20	Dr. Ambedkar Vanvasi Kalyan Trust, Surat	Trainings, FLD, Seed Production
21	The Nizar Taluka Sangh	Seed Village / Seed Production
22	Shakti Trust-Centre for Human Rights & People's Empowerment –Songadh	Participation * Khedut Shibir / Mahila Shibir * Extension Activities * Training Programmes, technical supports to thier groups
23	5 Co-operatives	Trainings, Seed Production

5.2: List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Adaptive Trial	2013	Govt. of Gujarat	6,00,000
Seed Village Programme	2011	Ministry of Agriculture, Govt. of India	3,06,000
Mega seed Project (TSP)	2013	TSP and NTSP	2,01,347
AICCIP TSP Cotton	2008	Central Institute for Cotton Research, Nagpur	1,27,500

5.3: Details of linkage with ATMA

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

Sr. No.	Programme	Nature of linkage	Remarks
1	Participation in <ul style="list-style-type: none"> • Khedut Shibir/Mahila Shibir • Extension Activities, • FLDs, OFTS, FFS, Impact assessment of ATMA Activities AMC, AGB , ATMA Award,Field visits, Training programmes and Convergence activities etc 	Technical Support	Good linkages and convergence with ATMA, Tapi district.

* All technical support is given by KVK to ATMA

5.4: Give details of programmes implemented under National Horticultural Mission

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
1. Plant Health Clinic	March,2008	National Horticulture Mission	15.50 lakhs

5.5: Nature of linkage with National Fisheries Development Board

KVK gives feedback to this department for FLDs, demonstrations, trainings. Assistant director of fisheries, Ukai, Songadh is a member of SAC and regular meetings and interaction with him is going on.

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sr. No.	Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Wadi Model	2010	1.00 ha	Kesar, Dasheri, Amrapali, Rajapuri etc.	--	--	10000	--	Orchard vegetative growth stage
2	Poly House	2011	500 sq.mt.	Tomato- Abhinav	Fruit(Kg)	1500	4000	6750	--
				Capsicum	Fruit(Kg)	145	2000	2850	--
3	Shade Net House	2011	2000 sq.mt.	vegetable seedlings	Seedlings (no.)	231359	270000	322070	--
				Ornamental seedlings	Seedlings (no.)	3550	1200	1725	--
				Fruit	Saplins (no.)	14	300	420	--

6.2 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. (qtl)	Cost of inputs	Gross income	
Cereals									
Rice	27/01/2014 to 12/02/2014	07/05/2014 to 20/05/2014	0.5	Gurjari	Improved Seed	30	50000	70800	-
			0.75	GNR-3	Improved Seed	50	60000	118000	
			0.75	Jaya	Improved Seed	50	60000	118000	
	10/07/2014 to 31/07/2014	15/10/2014 to 05/11/2014	0.6	Gurjari	Improved Seed	25	36000	59000	
			0.6	NAUR-1	Improved Seed	22	36000	52800	
			0.65	IR-28	Improved Seed	15	29000	35400	
			0.5	GNR-3	Improved Seed	21	36000	49560	
			0.7	GR-7	Improved Seed	22	40000	51920	
0.6	Jaya	Improved Seed	22	36000	51920				

6.3 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	
-Nil-					

6.4 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-							

1. Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/R/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total
-Nil-									

6.6 Utilization of hostel facilities

Accommodation available (No. of beds) : 18

Months	Title of the training course/Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2014	--	00	00	--
Total	--	00	00	--
May 2014	--	00	00	--
Total	--	00	00	--
June 2014	Educational Tour	12	12	--
Total	1	12	12	--
July 2014	Role of nutrition in livestock and poultry rearing	15	15	--

Months	Title of the training course/Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
	Kitchen Gardening and FLD input	15	15	--
	Kitchen Gardening and FLD input	15	15	--
Total	3	45	45	--
August 2014	Scientific Cultivation of Paddy	15	30	--
	Skill of leaders	16	16	--
	Nutritional Gardening	18	18	--
	Sheep and Goat rearing	11	11	--
Total	4	60	75	--
September 2014	Cultivation of Hi-tech as well as high value and low volume horticultural crops	16	32	--
	Marketing of Agriculture Produces	14	14	--
	Skill of a Leader	14	14	--
Total	3	44	60	--
October 2014	--	00	00	--
Total	--	00	00	--
November 2014	--	00	00	--
Total	--	00	00	--
December 2014	Integrated Pest Management in Crop	16	16	--
	Production Technology of Vegetable crops	20	40	--
	Profitable Animal Husbandry	30	90	--
Total	3	66	146	--
January 2015	Use of ICT in Agriculture	15	45	--
Total	1	15	45	--
February 2015	--	00	00	--
Total	--	00	00	--
March 2015	Exposure Tour	30	30	--
Total	1	30	30	--
Grand total	16	272	413	--

2. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	State Bank of India	Navsari	2704-1
With KVK	State Bank of India	Vyara	10716339605

7.2 Utilization of funds under FLD on Oilseed (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2015
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
Inputs	-Nil-				
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of funds under FLD on Pulses (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2015
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
Inputs	-Nil-				
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.4 Utilization of funds under FLD on Cotton (Rs. In Lakhs)

Item	Released by ICAR	Expenditure	Unspent balance as on 1st April 2015
	Kharif 2014-15	Kharif 2014-15	
Inputs	-Nil-		
Extension activities			
TA/DA/POL etc.			
TOTAL			

7.5 Utilization of KVK funds during the year 2013-14 and 2014-15 (upto March, 2015) (year-wise separately) (current year and previous year)

Year: 2013-14

Sr. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	61.00	61.00	58,66,239
2	Traveling allowances	1.50	1.50	1,18,686
3	Contingencies	12.00	12.00	11,99,928
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	4.80	4.80	
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	7.20	7.20	
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			
		12.00	12.00	
	TOTAL (A)	74.50	74.50	71,84,853
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture	0.00	0.00	0.00
3	Vehicle (Four wheeler/Two wheeler, please specify)	0.00	0.00	0.00
4	Library (Purchase of assets like books & journals)	0.00	0.00	0.00
	TOTAL (B)	0.00	0.00	0.00
C. REVOLVING FUND				
		--	--	--
	GRAND TOTAL (A+B+C)	74.50	74.50	71,84,853

Year: 2014-15

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	65,00,000	65,00,000	61,94,166
2	Traveling allowances	50,000	50,000	66,803
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1,60,000	1,60,000	8,92,325
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	2,40,000	2,40,000	
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)		69,50,000	69,50,000	71,53,294
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)		69,50,000	69,50,000	71,53,294

7.5 Status of revolving fund (Rs. in lakhs) for the three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2011 to March 2012	417259	1327484	1134414	610329
April 2012 to March 2013	610329	801713	957463	454579
April 2014 to March 2015	454579	994970	1367106	82443

8.0 Please include information which has not been reflected above (write in detail).

8.1: Constraints

(a) Administrative

1. The post of Programme Coordinator, Programme Assistant(1), Supporting staffs (2) & Driver (1) are vacant.

(b) Financial

1. Provision should be made for educational tour for farmers. Separate fund are required for technology week celebration, Extension activities, Fencing- compound wall and Security staff.
2. Lack of tribal and convey allowance for KVK Staff.
3. Lack of Pakka roads and drainage channels in campus.

(c) Technical

1. Lack of facility of Farm Godown, Fencing and Threshing floor and Implement- vehicle sheds
2. Lack of facility of Minibus.
3. Lack of e-connectivity.

Annexure - I

Proceeding of Twelfth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Vyara held on 20/02/2015 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. C. J. Dangaria	Chairperson	Hon. Vice Chancellor Navsari Agricultural University, Navsari
2	Dr. G. R. Patel	Member	Director of Extension Education Navsari Agricultural University, Navsari
3	Dr. B. N. Patel	Member	Director of Research, Navsari Agricultural University, Navsari
4	Dr. V. P. Patel	Member	Associate Research Scientist, Regional Rice Research Station, Navsari Agricultural University, Vyara
5	Dr. C. D. Pandya	Member Secretary	Programme Co-ordinator KVK, Vyara
6	Dr. M. S. Dudhat	Member	Principal (Agronomy Expert), Polytechnic in Agriculture Navsari Agricultural University, Vyara
7	Dr. S. T. Bhatt	Member	Assistant Professor (Horticulture Expert), Polytechnic in Agriculture Navsari Agricultural University, Vyara
8	Mr. Prafulbhai Patel	Member	District Agriculture Officer, Department of Agriculture, District Panchayat, Vyara, Tapi
9	Dr. C. M. Rana	Member	Deputy Director of Animal Husbandry, District Panchayat, Tapi District, Vyara
10	Mr. K. B. Tandel	Member	Assistant Director (Fisheries), Near CRPF Campus, Ukai, Dist. Tapi
11	Mr. Prafulbhai Patel	Member	Project Director, ATMA-Tapi
12	Nutanben Chaudhari	Agri- Entrepreneur	Kalakawa, Ta. Vyara

Sr. No.	Name	Members/ Invitees	Designation
13	Lilaben Gamit	Progressive Women Farmer	Member of GSSC Ltd., Gandhinagar At. Bedi, Ta. Songadh, Dist. Tapi
14	Induben Ramanbhai Gamit	Member	KVK SHG Kapura, Vyara, Dist. Tapi
15	Mr. D. I. Parmar	Invitee Member	Deputy Commissioner and General Manager & District Industrial Centre, Station Road, Vyara
16	Mr. K. L. Khant	Invitee Member	District Registrar Co-operative Societies O/P. Market Yard, Vyara, Dist. Tapi
17	Mr. Ghanshyambhai Patel	Invitee Member	Bahurupa, Ta. Nizar
18	Mr. D. T. Desai	Invitee Member	Private Agro Dealer, Patidar Agro Centre, Market Yard, Vyara, Dist. Tapi
19	Mr. Bhupendrabhai Desai	Invitee Member	Small Farmer, Valod
20	Mr. Nirav Kansara	Invitee Member	Reporter, TV-9 Local Channel, Vyara Zone
21	Mr. Harishbhai Shah	Invitee Member	Press Reporter, Gujarat Samachar
22	Mrs. Jayaben Vaghela	Invitee Member	Project Co-ordinator, Sankalit SEWA, Vyara
23	Mr. Ranjitbhai Chaudhari	Invitee Member	Resource Person of KVK & Farmer, Unchamala, Ta. Vyara
24	Mr. Homibhai Jokhi	Invitee Member	Kapura, Ta. Vyara
25	Mrs. Lilaben Gamit	Invitee Member	Representative of Hangati Mahila Trust, Mandal
26	Mrs. Sangitaben	Invitee Member	At. Dolvan, Ta. Dolvan, Dist. Tapi
27	Mrs. Chandrikaben	Invitee Member	At. Dolvan, Ta. Dolvan, Dist. Tapi
28	Mr. Gumanbhai Narshibhai Chaudhari	Invitee Member	Resource Person of KVK & Farmer, At. Bedvan Bhensrot, Ta. Songadh, Dist. Tapi
29	Mr. Pravinbhai Chaudhari	Progressive Farmer	Village : Kalakava, Ta. Vyara
30	Mr. Sunilbhai D. Patel	Progressive Farmer	Village : Bahurupa, Ta. Nizar
31	Mrs. Arunaben Gamit	Representative	Hangati Mahila Trust, Village : Aamalgundi, Ta. Songadh

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

Sr. No.	Designation	Members/ Invitees
1	Hon. Zonal Project Director, Zone-VI, ICAR, Jodhpur, Rajasthan	Member
2	Deputy Director of Horticulture, Farmers Training Centre, Panwadi, Vyara	Member
3	Assistant Director, G.L.D.C., Parsiwad, Vyara, Dist. Tapi	Member
4	Branch Manager, Bank of Baroda, Surti Bazar, Vyara	Member
5	Mr. Sharadbhai Patel, Progressive farmer of Piplod village & Chairman, Nizar taluka kharid-vechan sangh ltd., Nizar, Ta. Nizar, Dist. Tapi	Progressive farmer
6	Range Forest Officer (Social Forestry), Vyara Range, Dist. Tapi	Invitee Member
7	Chairman, A. P. M. C., Market Yard, Vyara, Dist. Tapi	Invitee Member

The Twelfth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Vyara was structured to review the progress made by KVK from **February 2014 to January 2015** and to discuss the action plan for the next year (i.e. **April-2015 to March-2016**) at training hall of KVK, Vyara on 20th **February, 2015**. The meeting was inaugurated by **Dr. C. J. Dangaria**, Honorable Vice Chancellor, NAU, Navsari and Chairman of SAC Meet. Dr. G.R. Patel, Honorable Director of Extension Education, NAU, Navsari, Dr. B.N. Patel, Hon. Associate Director of Research, NAU, Navsari, Agricultural and Livestock officers from different line department, representatives of different social organizations, progressive farmers and farm women were actively participated in this meeting. **Dr. C. D. Pandya, Programme Co-ordinator**, Krishi Vigyan Kendra, NAU, Vyara welcomed dignitaries, committee members, farmers, invitees and all remained present in the SAC Meet. Dr. C.D. Pandya, Programme Co-ordinator, KVK has made a presentation on Annual Progress Report of the last year along with impact studies, success stories, case studies and publications. The presentation was appreciated by house and all have given the positive and flattering remarks. The Action Plan for the next year was also presented by Dr. Pandya including all mandatory activities keeping in mind the need based, area specific and demand based extension activities. The achieved dreams were also presented by Programme Co-ordinator. The vision for the next year was also presented with power point appearance and all of the thrust areas were also incorporated. The suggestions along with feedback from farmers/farm women, GOs, NGOs and from higher authorities were accepted and approved by the House. For the future betterment of KVK, Dr. Vipul Patel, Assistant Res. Scientist, RRRS, Vyara, Dr. M.S. Dudhat, Principal, Agril. Polytechnic, Vyara; Shri. Bhupendrabhai Desai, Social worker, Valod; Shri. D.T.Desai, Representative from Agro centre, Vyara; Shri Ghanshyambhai Patel, Progressive farmer of Nizar block and resource person of KVK; Shri. Jokhibhai, Progressive farmer

of Kapura village; Jayaben Vaghela, Representative from SEWA, Vyara were also furnish remarkable suggestions during meeting.

The overall discussion made during the meet was really unique, distinctive, productive and resultant. The remarkable suggestions and feedback emerged out from each and every member inside the house. It was a good sign for future betterment of this KVK. During discussion, Dr. C. J. Dangaria, Hon. V.C. appreciated the Programme Co-ordinator and his team of scientists for good linkage with line departments and colourful, result oriented and impactful TOT activities made by KVK in interior villages of Tapi district. He mainly emphasized on use of bio-fertilizers and for this technical guidance will provide from KVK team. He also gave valuable suggestions regarding Front Line Demonstrations of newly emerged technologies. Dr. G. R. Patel, Director of Extension Education, NAU, Navsari gave good suggestions for further betterment of this KVK. He focused on large scale demonstration of kitchen garden in Tapi district to reduce the problem of malnutrition. Moreover, he also suggested working in collaboration with SEWA for seed production through organic farming. Dr. B.N. Patel, Associate Director of Research, NAU, Navsari emphasized to grow horticultural crops. He also gave guidance and suggestion for scientific cultivation of horticultural crops. At the end of meeting, vote of thanks was presented by Dr. S. M. Chavan, SMS (Plant Protection) and meeting was anchored by Arti N. Soni, Subject Matter Specialist (Home Science), KVK, NAU, Vyara. Moreover, farmers are satisfied with the activities done by KVK in their area. The SAC Meet was in authenticity a unique in healthy and constructive environment, which would result in real road map of KVK as a “**Real knowledge and Resource Centre**” as well “**Information Hub**” for tribes farming community of KVK District.

12.1 Approval of minutes of Tenth Scientific Advisory Committee

The action taken on the minutes of eleventh Scientific Advisory Committee Meeting of KVK, Vyara held on 11th February, 2014 was presented by Programme Co-ordinator and approved by the house.

12.2 Progress made by KVK during 01-02-2014 to 31-01-2015

Dr. C. D. Pandya, Programme Co-ordinator, KVK, NAU, Vyara presented the report on progress made by KVK, Vyara for the period of **01-02-2014 to 31-01-2015**. Following suggestions were made by the house.

12.2.1	In collaboration with SEWA, seed production through organic farming should be conducted in the adopted villages of SEWA. Farmers should be appreciate for green manuring for soil improvement. - Dr. C. J. Dangaria, Hon. Vice Chancellor, NAU, Navsari
12.2.2	For large scale demonstration of kitchen garden seeds of different vegetables should be supplied free of cost to the farmers of adopted villages of KVK. - Dr. G. R. Patel, Hon. Director of Extension Education, NAU, Navsari

12.2.3	In collaboration with SEWA, certified seeds should be produced from the farmers of adopted villages under seed village programme - Dr. G. R. Patel, Hon. Director of Extension Education, NAU, Navsari
12.2.4	Training should be conducted to increase awareness among farmers regarding pesticide residues in okra and scientific cultivation of okra. - Dr. B. N. Patel, Associate Director of Research, NAU, Navsari
12.2.5	FLD should be conducted on Integrated Nutrient Management (INM) in papaiya. - Dr. B. N. Patel, Associate Director of Research, NAU, Navsari
12.2.6	Exposure visit of farmers to research centre should be arranged - Shri. Bhupendrabhai Desai, Progressive Farmer, Valod
12.2.7	Awareness programme regarding importance of soil and water testing, though different extension activities should be conducted in Nizar block - Shri. Ghanshyambhai Patel, Progressive Farmer, Bahurupa

12.3 Action plan for the period of April-2015 to March-2016.

Discussion was made on the Action Plan for the period of April-2015 to March-2016 presented by Programme Co-ordinator, KVK, NAU, Vyara which was approved with following suggestions.

12.3.1	FLD should be conducted in wheat - Hon. Vice Chancellor, NAU, Navsari
12.3.2	Different programme should be arranged for farm women in collaboration with SEWA, Vyara - Hon. Director of Extension Education, NAU, Navsari
12.3.3	FLD should be conducted on Integrated Pest and Disease Management (IPDM) in cucurbitaceous vegetables and fruit crops. - Associate Director of Research, NAU, Navsari
12.3.4	Training should be conducted on marketing of agricultural produce. - Smt. Jayaben Vaghela, Project Co-ordinator, SEWA, Vyara
12.3.5	Awareness programme regarding organic farming and technical guidance about organic farming in different crops particularly green gram, paddy and summer groundnut should be provided in adopted villages of SEWA. - Smt. Jayaben Vaghela, Project Co-ordinator, SEWA, Vyara

Annexure-II

Details of Training Programmes:

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants		
								M	F	T	M	F	T	M	F	T
1	10-11/4/14	R.Y.	Fruits and vegetable preservation	Home Science	Value Addition	2	ON	16	0	16	6	2	8	22	2	24
2	6/5/2014	F.W.	Nutritional deficiency diseases in children and preparation of ORS to prevent diarrhoea	Home Science	Women & Child Care	1	OFF	0	0	0	0	17	17	0	17	17
3	7/5/2014	F.W.	Human leptospirosis and its control measures	Home Science	Women & Child Care	1	OFF	0	0	0	0	15	15	0	15	15
4	16/5/2014	F.W.	Vegetable cultivation and precautions before and during their cultivation	Horticulture	Off Season vegetables	1	OFF	0	0	0	0	26	26	0	26	26
5	17/5/2014	F.W.	Important diseases, vaccination and care	Animal Science	Disease Management	1	ON	0	0	0	0	20	20	0	20	20
6	28/5/2014	F.W.	Preparation of NADEP compost (Sponsored by Mishan Mangalam Scheme)	Agronomy	Production of organic input	1	ON	0	0	0	0	30	30	0	30	30
7	29/5/2014	F.W.	Preparation of NADEP compost (Sponsored by Mishan Mangalam Scheme)	Agronomy	Production of organic input	1	ON	0	0	0	0	30	30	0	30	30
8	11/6/2014	E.F.	Group dynamics and farmers organisation	Extension Education	Group dynamics and farmers organisation	1	ON	0	0	0	28	3	31	28	3	31
9	11/6/2014	F.W.	Human leptospirosis and its control measures	Home Science	Women & Child Care	1	OFF	0	0	0	0	17	17	0	17	17
10	17/6/2014	F.W.	Preparation of NADEP compost (Sponsored by Mishan Mangalam Scheme)	Agronomy	Production of organic input	1	ON	0	0	0	0	39	39	0	39	0
11	18/6/2014	F.W.	Preparation of NADEP compost (Sponsored by Mishan Mangalam Scheme)	Agronomy	Production of organic input	1	ON	0	0	0	0	39	39	0	39	0
12	19/6/2014	F.W.	Preparation of NADEP	Agronomy	Production of	1	ON	0	0	0	0	31	31	0	31	0

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants		
								M	F	T	M	F	T	M	F	T
			compost (Sponsored by Mishan Mangalam Scheme)		organic input											
13	19/6/2014	P.F.	IPM in paddy	Pl. Protection	IPM	1	OFF	0	0	0	15	1	16	15	1	16
14	20/6/2014	F.W.	Human leptospirosis and its control measures	Home Science	Women & Child Care	1	ON	0	0	0	2	33	35	2	33	35
15	20/6/2014	F.W.	Sickle cell anemia and its control measures	Home Science	Women & Child Care	1	ON	0	0	0	0	23	23	0	23	23
16	21/6/2014	P.F.	Fertilizer management in paddy through fertigation	Horticulture	Cultivation of fruits	1	OFF	12	0	12	0	0	0	12	0	12
17	24/6/2014	F.W.	Sickle cell anemia and its control measures	Home Science	Women & Child Care	1	ON	0	0	0	0	25	25	0	25	25
18	25/6/2014	P.F.	New advances in paddy cultivation (Sponsored by ATMA-Navsari)	Agronomy	ICM	1	ON	31	0	31	0	0	0	31	0	31
19	26/6/2014	F.W.	New advances in paddy cultivation (ATMA-Navsari)	Agronomy	ICM	1	ON	0	0	0	7	32	39	7	32	39
20	27/6/2014	P.F.	Scientific cultivation of paddy	Agronomy	ICM	1	OFF	0	0	0	40	32	72	40	32	72
21	30/6/2014	F.W.	Scientific cultivation of paddy (ATMA-Navsari)	Agronomy	ICM	1	ON	0	0	0	2	32	34	2	32	34
22	07-01-2014	F.W.	Scientific cultivation of paddy (Sponsored by ATMA-Navsari)	Agronomy	ICM	1	ON	0	30	30	0	0	0	0	30	30
23	2/7/2014	P.F.	New advances in paddy cultivation (Sponsored by ATMA-Navsari)	Agronomy	ICM	1	ON	30	0	30	0	0	0	30	0	30
24	2/7/2014	F.W.	Important infectious diseases and its prevention and control	Animal Science	Disease Management	1	OFF	0	0	0	0	26	26	0	26	26
25	4/7/2014	F.W.	Scientific poultry rearing and its benefits	Animal Science	Poultry Management	1	OFF	0	0	0	0	24	24	0	24	24
26	9/7/2014	P.F.	Role of bypass fat in	Animal	Feed	1	ON	0	0	0	20	0	20	20	0	20

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants			
								M	F	T	M	F	T	M	F	T	
			nutrition	Science	Management												
27	10/7/2014	F.W.	Preparation of high protein and high energy rich diet for children to prevent malnutrition	Home Science	Designing and development for high nutrient efficiency diet	1	OFF	0	0	0	0	16	16	0	16	16	
28	17/7/2014	F.W.	IPM in cotton (FLD training)	Plant Protection	IPM	1	OFF	25	0	25	0	0	0	25	0	25	
29	18/7/2014	P.F.	Fish rearing in fresh water	Extension Education	Integrated fish farming	1	ON	0	0	0	23	0	23	23	0	23	
30	19/7/2014	F.W.	Skill of a leader	Extension Education	Leadership development	1	OFF	0	0	0	0	20	20	0	20	20	
31	22/7/2014	R.Y.	Role of nutrition and housing care in livestock & poultry	Animal Science	Poultry Production	1	ON	0	0	0	0	20	20	0	20	20	
32	23/7/2014	E.F.	Use of ICT in agriculture	Extension Education	Capacity building for ICT application	1	ON	7	1	8	20	4	24	27	5	32	
33	30/7/2014	F.W.	Kitchen Gardening	Home Science	Household food security by kitchen gardening & nutrition gardening	1	ON	0	0	0	6	55	61	6	55	61	
34	30/7/2014	F.W.	Integrated Pest Management in vegetable crops (Adaptive trial)	Plant Protection	IPM	1	ON	0	0	0	0	74	74	0	74	74	
35	4/8/2014	P.F.	Integrated Pest Management in paddy (FLD training)	Plant Protection	IPM	1	ON	0	0	0	20	0	20	20	0	20	
36	6-8/8/2014	P.F.	New advances in paddy cultivation (Sponsored by ATMA-Narmada)	Agronomy	ICM	3	ON	0	0	0	22	0	22	22	0	22	
37	11-12/8/2014	P.F.	Skill of a leader (Sponsored by ATMA-Tapi)	Extension Education	Leadership development	2	ON	0	0	0	43	0	43	43	0	43	
38	13-	P.F.	Nutritional Gardening	Home Science	Household food	2	ON	0	0	0	22	13	35	22	13	35	

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants		
								M	F	T	M	F	T	M	F	T
	14/8/2014				security by kitchen gardening & nutrition gardening											
39	19/8/2014	P.F.	Production technology of tuber and root crop vegetables	Horticulture	Production and management technology	1	ON	0	0	0	20	0	20	20	0	20
40	19-20/8/2014	F.W.	Marketing of agriculture produces	Extension Education	Enterpreneurial development of farmers/youths	2	ON	0	0	0	0	33	33	0	33	33
41	19-20/8/2014	R.Y.	Sheep and goat rearing for rural livelyhood	Animal Science	Sheep and goat rearing	2	ON	0	0	0	0	30	30	0	30	30
42	20/8/2014	F.W.	Balanced diet from locally available food material	Home Science	Design and development of low/minimum cost diet	1	OFF	0	0	0	0	19	19	0	19	19
43	21-22/8/2014	P.F.	Production of bio-control agents and bio-pesticides (Sponsored by ATMA-Tapi)	Plant Protection	Production of bio-control agents and bio-pesticides	2	ON	0	0	0	44	0	44	44	0	44
44	22/8/2014	P.F.	Vagetable cultivation, production technology and their management	Horticulture	Off Season vegetables	1	OFF	0	0	0	7	13	20	7	13	20
45	26-27/8/2014	F.W.	Production of fruits and vegetables with good quality (Sponsored by ATMA-Tapi)	Horticulture	Grading and Standardization	2	ON	0	0	0	0	50	50	0	50	50
46	30/8/2014	R.Y.	Preparation of pineapple jam and lemon squash (Sponsored by ATMA-Tapi)	Home Science	Value Addition	1	OFF	0	0	0	0	53	53	0	53	53
47	30/8/2014	F.W.	Production of high value vegetable seedling media preparation and their use in plug nursery	Horticulture	Nursery raising	1	OFF	0	0	0	0	30	30	0	30	30

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants		
								M	F	T	M	F	T	M	F	T
48	3-5/9/2014	R.Y.	Cultivation of high-tech as well as high value and low volume horticultural crops (Sponsored by ATMA-Narmada)	Horticulture	Protected cultivation of vegetable crops	3	ON	0	0	0	30	0	30	30	0	30
49	6/9/2014	F.W.	Nutrition gardening	Home Science	Household food security by kitchen gardening & nutrition gardening	1	ON	0	0	0	0	27	27	0	27	27
50	6/9/2014	F.W.	Production of bio-control agents and bio-pesticides mass production of trichoderma at farmer's field	Plant Protection	Production of bio-control agents and bio-pesticides	1	OFF	0	0	0	0	30	30	0	30	30
51	9/9/2014	F.W.	Cultivation practices of parval, little gourd, moringa, tomato and chilli	Horticulture	Export potential of vegetables	1	OFF	0	0	0	0	30	30	0	30	30
52	10/9/2014	F.W.	Kitchen Gardening	Home Science	Household food security by kitchen gardening & nutrition gardening	1	OFF	0	0	0	20	39	59	20	39	59
53	09-11-2014	P.F.	Nursery management and quality improvement of vegetables specially creeper vegetables (Sponsored by IWMP-Bedchit)	Horticulture	Plant propagation techniques	1	OFF	0	0	0	33	3	36	33	3	36
54	17-18/9/2014	P.F.	Mass production of Trichocards (Sponsored by ATMA-	Plant Protection	Production of bio-control agents and bio-	2	ON	0	0	0	61	0	61	61	0	61

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants			
								M	F	T	M	F	T	M	F	T	
			Tapi)		pesticides												
55	18/9/2014	F.W.	Processing and preservation of tomato ketchup and papaya jam (Sponsored by ATMA-Tapi)	Home Science	Value Addition	1	OFF	0	0	0	0	33	33	0	33	33	
56	19-20/9/2014	F.W.	Health and nutrition for pregnant and lactating women and children (Sponsored by ATMA-Tapi)	Home Science	Women & Child Care	2	ON	0	0	0	0	62	62	0	62	62	
57	20/9/2014	P.F.	Micro-irrigation system in fruits and vegetables	Horticulture	Micro irrigation system of orchards	1	OFF	0	0	0	13	4	17	13	4	17	
58	22-23/9/2014	F.W.	Scientific cultivation of rabi crops and soil and water analysis (Sponsored by ATMA-Tapi)	Agronomy	ICM	2	ON	0	0	0	0	79	79	0	79	79	
59	23/9/2014	F.W.	Processing and preservation of tomato ketchup and papaya jam (Sponsored by ATMA-Tapi)	Home Science	Value Addition	1	OFF	0	26	26	0	3	3	0	29	29	
60	24-25/9/2014	P.F.	Marketing of agriculture produces (Sponsored by ATMA-Tapi)	Extension Education	Enterpreneurial development of farmers/youths	2	ON	0	0	0	28	0	28	28	0	28	
61	25/9/2014	F.W.	Processing and preservation of tomato ketchup and papaya jam (Sponsored by ATMA-Tapi)	Home Science	Value Addition	1	ON	0	0	0	0	51	51	0	51	51	
62	29-30/9/2014	F.W.	Skill of leader (Sponsored by ATMA-Tapi)	Extension Education	Leadership development	2	ON	0	0	0	0	28	28	0	28	28	
63	29/9/2014	F.W.	Processing and preservation of tomato	Home Science	Value Addition	1	ON	0	0	0	0	36	36	0	36	36	

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants			
								M	F	T	M	F	T	M	F	T	
			ketchup and papaya jam (Sponsored by ATMA-Tapi)														
64	10/10/2014	F.W.	Women drudgery reduction technology of improved NAVEEN sickle for paddy harvesting (FLD training)	Home Science	Location specific drudgery reduction technology	1	ON	0	0	0	3	52	55	3	52	55	
65	10/10/2014	P.F.	Fertigation management and drip irrigation importance	Horticulture	Micro irrigation system of orchards	1	OFF	0	0	0	6	18	24	6	18	24	
66	13/10/2014	F.W.	Fruits and vegetable crop production (Sponsored by SEWA-Tapi)	Horticulture	Production of low volume and high value crops	1	ON	0	0	0	0	28	28	0	28	28	
67	14/10/2014	F.W.	Cultivation of fruits	Horticulture	Cultivation of fruits	1	ON	0	0	0	0	32	32	0	32	32	
68	15/10/2014	P.F.	Scientific cultivation of chickpea and wheat	Agronomy	ICM	1	OFF	0	0	0	55	0	55	55	0	55	
69	16/10/2014	P.F.	Scientific cultivation of chickpea and wheat	Agronomy	ICM	1	OFF	0	0	0	56	0	56	56	0	56	
70	16/10/2014	R.Y.	Role of A.I. in breed improvement	Animal Science	Dairying	1	OFF	0	0	0	16	0	16	16	0	16	
71	17/10/2014	F.W.	Swachchha dudh utpadan ane nafakarak pashupalan	Animal Science	Production of quality animal products	1	ON	0	0	0	0	40	40	0	40	40	
72	18/10/2014	F.W.	Fruits and vegetables preservation (Sponsored by ATMA-Tapi)	Home Science	Value Addition	1	ON	0	0	0	0	42	42	0	42	42	
73	28/10/2014	F.W.	Fruits and vegetables preservation (Sponsored by ATMA-Tapi)	Home Science	Value Addition	1	ON	0	0	0	0	57	57	0	57	57	
74	29/10/2014	F.W.	Fruits and vegetables preservation (Sponsored by ATMA-	Home Science	Value Addition	1	ON	0	17	17	0	0	0	0	17	17	

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants			
								M	F	T	M	F	T	M	F	T	
			Tapi)														
75	30/10/2014	F.W.	Fruits and vegetables preservation (Sponsored by ATMA-Tapi)	Home Science	Value Addition	1	ON	0	0	0	0	43	43	0	43	43	
76	5/11/2014	P.F.	Sajiv Kheti-Jamin ane paryavaran suraksha and Importance of soil & water analysis	Agronomy	ICM	1	ON	0	0	0	26	9	35	26	9	35	
77	11-12-2014	P.F.	Importance of soil analysis	Agronomy	Soil & water tesing	1	OFF	0	0	0	20	0	20	20	0	20	
78	13/11/2014	P.F.	IPM in Gram	Plant Protection	IPDM	1	ON	0	0	0	20	0	20	20	0	20	
79	13/11/2014	F.W.	Minimization of nutrient loss in processing	Home Science	Minimization of nutrient loss in processing	1	OFF	0	0	0	0	26	26	0	26	26	
80	14/11/2014	P.F.	Scientific cultivation of Sorghum	Agronomy	ICM	1	ON	0	0	0	10	17	27	10	17	27	
81	18/11/2014	P.F.	IPM in cotton (FLD training)TSP-cotton	Plant Protection	IPDM	1	OFF	0	0	0	34	0	34	34	0	34	
82	18/11/2014	P.F.	IPM in cotton (FLD training)TSP-cotton	Plant Protection	IPDM	1	OFF	0	0	0	19	1	20	19	1	20	
83	20/11/2014	P.F.	Scientific practices of grain storage	Plant Protection	Storage loss minimization techniques	1	ON	0	0	0	36	4	40	36	4	40	
84	24/11/2014	F.W.	Balanced diet from locally available food material	Home Science	Design & development of low/min.cost diet	1	OFF	0	0	0	0	19	19	0	19	19	
85	24/11/2014	RY	Feeding management in poultry (OFT training)	Animal Science	Poultry Production	1	ON	0	0	0	8	16	24	8	16	24	
86	26/11/2014	P.F.	Organic farming in Horticultural crops	Horticulture	Production & use of organic inputs	1	ON	1	0	1	12	2	14	13	2	15	
87	28/11/2014	F.W.	Preparation of low cost high protein rich diet for malnourished children (FLD training)	Home Science	Design & development for high nutrient efficiency diet	1	OFF	0	0	0	0	22	22	0	22	22	

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants		
								M	F	T	M	F	T	M	F	T
88	01/12/2014	P.F.	Scientific cultivation of Maize (FLD training)	Agronomy	ICM	1	ON	0	0	0	25	5	30	25	5	30
89	3-5/12/2014	F.W.	Scientific cultivation of Rabi crops (Sponsored by ATMA-Narmada)	Agronomy	ICM	3	ON	0	0	0	0	37	37	0	37	37
90	06/12/2014	F.W.	Preparation of low cost iron rich diet to prevent Anemia	Home Science	Design & development for high nutrient efficiency diet	1	OFF	0	0	0	0	17	17	0	17	17
91	06/12/2014	P.F.	Plant geometry in Okra	Horticulture	Off Season vegetables	1	ON	0	0	0	10	5	15	10	5	15
92	8-10/12/2014	P.F.	Housing of the Animals (Sponsored by ATMA,Kheda)	Animal Science	Dairy Management	3	ON	30	0	30	0	0	0	30	0	30
93	17/12/2014	P.F.	Role of Bio-agent in cotton (TSP-FLD on cotton)	Plant Protection	IPM	1	OFF	0	0	0	34	0	34	34	0	34
94	19/12/2014	F.W.	Nutrient management & organic inputs use in vegetable cultivation(FLD training)	Horticulture	Export potential of vegetables	1	OFF	0	0	0	0	16	16	0	16	16
95	29-30/12/2014	R.Y.	Fruits & vegetable preservation(vocational training)	Home Science	Value Addition	2	OFF	0	0	0	0	45	45	0	45	45
96	31/12/2014	F.W.	Scientific cultivation of Okra(sponsored by SEWA)	Horticulture	Off Season vegetables	1	ON	0	0	0	0	33	33	0	33	33
97	02/01/2015	R.Y.	Housing management for poultry	Animal Science	Poultry Production	1	OFF	0	0	0	0	17	17	0	17	17
98	02/01/2015	F.W.	Importance of soil and water analysis	Agronomy	Soil & water tesing	1	OFF	0	0	0	5	13	18	5	13	18
99	5-7/01/2015	P.F.	Skill of leader (Sponsored by ATMA,Kheda)	Extension Education	Leadership development	3	ON	30	0	30	0	0	0	30	0	30
100	12/01/2015	P.F.	IPM in vegetable crops(FLD training)	Plant Protection	IPM	1	ON	0	0	0	10	10	20	10	10	20
101	13/01/2015	F.W.	Scientific cultivation of Brinjal (FLD training)	Horticulture	Off Season vegetables	1	OFF	0	0	0	0	23	23	0	23	23

Sr. No.	Date	Clientele	Title of Training programme	Discipline	Thematic area	Duration in days	Venue (On/ Off campus)	Number of other Participants			Number of SC/ST			Total Number of Participants		
								M	F	T	M	F	T	M	F	T
102	16/01/2015	F.W.	Minimization of nutrient loss in processing	Home Science	Minimization of nutrient loss in processing	1	OFF	0	0	0	0	17	17	0	17	17
103	17/01/2015	F.W.	Role of Bio-agents & Bio-pesticides insect pest management (FLD training)	Plant Protection	IPM	1	ON	0	0	0	3	17	20	3	17	20
104	31/01/2015	F.W.	Role of Bio-agents & Bio-pesticides in Agriculture	Plant Protection	IPM	1	OFF	0	0	0	0	21	21	0	21	21
105	06/02/2015	P.F.	Care and management of vegetables grown in off season	Horticulture	Off Season vegetables	1	OFF	0	0	0	20	0	20	20	0	20
106	25-26/02/2015	R.Y.	Value addition in fruits & vegetables (vocational training sponsored by FTC, Vyara)	Home Science	Value Addition	2	ON	0	0	0	18	24	42	18	24	42
107	26-27/02/2015	R.Y.	Nursery management of Horticultural crops (vocational training)	Horticulture	Nursery management	2	ON	19	1	20	ri	2	2	19	3	22
108	03-04-2015	R.Y.	Okra and watermelon cultivation(Sponsored by Ebnezer Child Development Society)	Horticulture	Protected cultivation of vegetable crops	1	ON	0	0	0	22	0	22	22	0	22
109	11/03/2015	P.F.	Marketing of Agril.produces	Extension Education	Enterpre-neurial development of farmers/ youths	1	ON	0	0	0	27	15	42	27	15	42
110	12/03/2015	E.F.	Malnutrition in children and its control measures (sponsored by ICDs, Tapi)	Home Science	Women & Child Care	1	ON	0	0	0	11	17	28	11	17	28
111	17-18/03/2015	E.F.	Malnutrition in children and its control measures	Home Science	Women & Child Care	2	ON	0	1	1	0	39	39	0	40	40
112	23/03/2015	R.Y.	Housing of animals	Animal Science	Dairying	1	OFF	0	0	0	0	18	18	0	18	18
113	23/03/2015	P.F.	Malformation and their management practices of Mango cultivation	Horticulture	management of young plants/ orchards	1	ON	0	0	0	21	11	32	21	11	32

Annexure – III
District Profile

1. General census
Information regarding District villages and Population

Taluka	No. of villages	Population (2001)				
		Male	Female	Total	SC	ST
Vyara	149	125082	124724	249810	2629	211611
Valod	40	441333	42994	87127	953	64112
Nizar	87	52098	53287	105385	1878	83843
Uchchal	68	36125	36827	73042	193	71084
Songadh	177	101335	101335	204270	2732	170464
Total	521	358863	359167	719634	8385	601114

2. Agricultural and allied census
Classification of Land

Taluka	Forest	Uncultivated	Total cultivated	Irrigated Area	Unirrigated	Fallow land	Pasture	Total geographical area	Cultivated land (%)
Vyara	18495	2210	54225	22858 (42.15)	31367	220	1575	81260	66.73
Valod	0	239	17978	16383 (91.13)	1595	282	421	20228	88.88
Nizar	332	16151	21561	10181 (47.22)	11380	61	1587	40079	53.8
Uchchal	23447	23325	8468	1937(22.87)	6531	33	356	66500	12.73
Songadh	31751	3726	61891	12037 (19.45)	49854	29	4969	135404	45.71
Total	74025	45651	164123	63396 (38.63)	112974	625	8908	343471	47.78

Area under fruit crops, vegetables and spices & condiments:

Crop	Area (Ha.)
Fruit crops	9116
Vegetables	18505
Spices & condiments	3480

3. **Agro climatic zone** : As per Table No. 2.2.1
4. **Agro eco system** : As per Table No. 2.2.2
5. **Major and micro-farming systems** : As per Table No. 2.1
6. **Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc.** :
Rice – Gram, Rice – Groundnut, Rice – Sugarcane, Rice – Okra, Rice – Brinjal, Rice + Pigeon pea + Sorghum
Cotton – Wheat, Soybean – Gram, Soybean – Wheat, Soybean – Okra, Sugarcane – Green Gram
7. **Major agriculture and allied enterprises** :
Sugar factory, Rice based industry, Groundnut based factory, Dairy industries, Cold storage

Annexure-IV

Agro-ecosystem analysis of the focus / target area

1. Names of villages, focus area, target area etc. : As per Table No. 2.7
2. Survey methods used (survey by questionnaire, PRA, RRA, etc.) : PRA
3. Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc.

Various techniques used are given below:

Social Map: It seeks to explore the spatial dimensions of people's realities. The focus here is on the depiction of habitation pattern and the nature of housing, social infrastructure: roads, drainage system, schools, drinking water facilities etc. It develops a comprehensive understanding of the physical and social aspects of village life. It is made by local people and not by experts. It is not drawn to scale. It depicts what the local people believe to be relevant and important for them. Thus it reflects their perception of the social dimensions of their reality with a high degree of authenticity.



Resource Map: It focuses on the natural resources in the locality and depicts land, hills, rivers, fields, vegetation etc. It is not drawn to scale and not done by the experts but by the local people. The resource map drawn by the local people is considered to be accurate and detailed because the local people have in-depth knowledge about their surroundings.

Mobility Map: It explores the movement pattern of an individual, a group or a community. The focus is on where people go and for what. It reflects the people's perception of movement patterns and reasons thereof.

Time line: It is used to explore the temporal dimensions from a historical perspective. It captures the chronology of events as recalled by local people. It is drawn as a sequential aggregate of past events. The important point is that it is not the history as such but the events of past as perceived and recalled by the local people themselves.

Venn diagram: It is used to study institutional relationship and is sometimes also referred to as institutional diagram. It is however popularly known as "Chapati diagram" as it uses circles of various sizes to represent institutions or individuals. The bigger the circle, the more important is the institute/individual as perceived by the local people.

Pair-wise Ranking Method: It helps in arriving at people's priorities and preferences. In this method, two items, attributes, factors etc, are compared at a time. This process of comparing of two at a time is carried on till each item has been compared with the other. The frequency of how many times each of the items have been preferred is ascertained. This frequency gives an idea of preferences of the people.

4. **Analysis and conclusions** : --

5. **List of location specific problems and brief description of frequency and extent/intensity/severity of each problem** : As per Table No. 2.7

6. **Matrix ranking of problems**

Matrix Ranking : It makes the comparison of various of various items on the basis of different criteria. It helps in arriving at a comparative understanding of the items, based on certain characteristics or criteria and thereby making an informed choice.

7. **List of location specific thrust areas** : As per Table No. 2.8

8. **List of location specific technology needs for OFT and FLD** : As per Table No. 3.B

9. **Matrix ranking of technologies** : --

10. **List of location specific training needs** : As per Table No.3.B and As per Annexure – II

Annexure – V

TECHNOLOGY INVENTORY AND ACTIVITY CHART- III

Include

1. Name of research institutes, research stations, regional centers of NARS (SAU and ICAR) and other public and private bodies having relevance to location specific technology needs.
2. Inventory of latest technology available.

Sr. No.	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference/ citation
1	New Variety	Gram(GG-2)	1992	GAU, Dantiwada	-
		Gram(PKV-2)	1997	GAU, Dantiwada	-
		Green gram(Meha)	2003	AAU, Anand	-
		Sugarcane(CON-7072)	2011	SBI, Coimbtore	-
		Paddy(GAR-7)	1998	NARP, GAU, Navsari	-
		Paddy(Gurjari)	1997	NARP, GAU, Navsari	-
		Castor(GCH-7)	2005	GAU, Dantiwada, SKNagar	-
		Pigeon pea (Vaishali)	2003	GAU, Dantiwada, SKNagar	-
2	SIRA technology	Paddy(NAUR-1)	2008-09	NARP, NAU, Navsari	-
3	SRI technology	Paddy(GNR-3)	2010	NARP, NAU, Navsari	-
4	INM	Soybean(GS-2)	1999	GAU, Dantiwada, SKNagar	-
		Okra(Syngenta-OH-102)	2008-09	NAU, Navsari	Recommendation Book -NAU, Navsari
		Brinjal(Surti Ravaiya)	2005-06	NAU, Navsari	
5	IPM	Cotton(Bt)	2010	MCRS, NAU, Navsari	-
		Paddy(NAUR-1)	2005 & 2012	NAU, Navsari and AAU, Anand	-
		Mango(Kesar)	2005	NAU, Navsari and AAU, Anand	-
		Brinjal(Surti Ravaiya)	2009	AAU, Anand and NAU, Navsari	-
		Okra(Hybrid)	2009	AAU, Anand	-
		Cucurbitaceous vegetables	2012	AAU, Anand	-
6	IDM	Gram(GG-2)	2009	NAU, Navsari	-

Sr. No.	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference/citation
7	New crop	Cauliflower(Pusa early)	1990	IARI-New Delhi	Accomplishment of IARI, New Delhi
8	Nutrition Management	Animal Science	-	Scientific literature (Text books on animal husbandry and Livestock Production and management), Text book of Animal Husbandary- G.C.Benerji	-
9	Nutrition Management	Home Science	-	A text book of "Nutritive value of Indian foods" by National Institute of Nutrition, Hyderabad and recommendation by WHO	-
10	Women Drudgery reduction	Paddy	-	CIAE, Bhopal	-

1. Activity Chart

Crop/ Enterprise	Problem	Cause	Solution	Activity	Reference of technology
Gram	Low yield in Gram	Flat bed sowing	Ridge bed sowing	Training, seed distribution, FLD	Pulse Research Station, NAU, Navsari
Green gram	Low productivity	Use of local variety	Use of high yielding new variety	Conduct component FLD to demonstrate results of new variety	NARP, NAU, Navsari
Sugarcane	Low productivity	Use of local variety	Use of high yielding variety resistance against Red Rot	Central training FLD demo	SBI, Coimbatore

Crop/ Enterprise	Problem	Cause	Solution	Activity	Reference of technology
Paddy	Low productivity	They are not sowing of Green manure before TP of planting	Balance use of fertilizer	1.Introduce Green manure and conducted FLD and training programmes on Paddy 2. Use of RD of fertilizer 3. Use of improved variety	Director of Research & Rice Research Station,NAU, Vyara
Castor	Low productivity	- Use of local seed - Germination problem	- High yield - Paired row sowing	- Introduce new variety - Balance fertilizer	GAU, S.K.Nagar
Pigeon Pea	Low productivity	Use of local variety	Use of high yielding new variety	Conduct component FLD to demonstrate results of new variety	NARP, NAU, Navsari
Soybean	Low productivity	Use of local variety	- New variety - Pest and disease resistance	- Training - FLD	GAU, S.K.Nagar
Okra	-Low productivity -Excess input cost - Resistance developed due to indiscriminate use of pesticides	-Excess and uneven use of chemical fertilizers -Very close spacing -Heavy dose of chemical pesticides	-INM (chemical fertilizers with bio fertilizers and micro nutrients) -Maintain plant geometry in okra - Use of IPM technology	Conduct FLD to demonstrate result of INM/IPM technology, OFT, Trainings	NAU, Navsari & AAU, Anand
Brinjal	-Low productivity - Cost of production increased - Resistance developed due to	Excess and uneven use of chemical fertilizers Heavy dose of chemical pesticides	INM (chemical fertilizers with bio fertilizers and micro nutrients), Use of IPM	Trainings, Demonstrations, Extension activities	NAU, Navsari & AAU, Anand

Crop/ Enterprise	Problem	Cause	Solution	Activity	Reference of technology
	indiscriminate use of pesticides		technology		
Cauliflower	Crop Diversification	Low price and long duration of domestic crops	Early and high yielding crop	Conduct component FLD to demonstrate result of new crop technology	IARI, New Dehli
Papaya	Higher input cost	Excess use of fertilizers	INM through Fertigation in papaya	Conduct component OFT to demonstrate result of INM technology through Fertigation	NAU, Navsari
Cucurbitaceous vegetables	- Cost of production increased - Resistance developed due to indiscriminate use of pesticides	Heavy dose of chemical pesticides for management of fruit fly	Use of cue-lure fruit fly trap (pheromone trap)	- Conduct training on IPM - Distribution of IPM component (FLD inputs)	NAU, Navsari
Mango	- Cost of production increased - Resistance developed due to indiscriminate use of pesticides	Heavy dose of chemical pesticides for management of fruit fly	Use of Methyl eugenol fruit fly trap (pheromone trap)	- Conduct training on IPM - Distribution of IPM component (FLD inputs)	NAU, Navsari
Cotton	Low productivity of cotton under rainfed black soil	1. Imbalance use of fertilizer application 2. Pest and disease occurrence	1. Application of RD of fertilizer 2. IPM	1. Conduct component FLD to demonstrate on farmers field on RD of fertilizer 2. Training, awareness prog., on IPM in cotton, Campaign for	Main cotton research station, NAU., Surat

Crop/ Enterprise	Problem	Cause	Solution	Activity	Reference of technology
				Mealybugs	
Home Science	Malnutrition in women and children, women drudgery, poor economic condition of tribal farmers	Lack of knowledge about health and nutrition, poor economic status, inadequate intake of fruits and vegetables, use local farm implements	Use of balance diet from locally available food materials, introduction of kitchen garden, fruits & vegetables preservation, use of NAVEEN sickle, women empowerment activities	Conducted FLD,OFT,Trainings, awareness programmes, In-service training, Mahila shibir, meetings, vocational training etc.	Recommended by WHO and A text book of "Nutritive value of Indian foods" by National Institute of Nutrition, Hyderabad, & CIAE, Bhopal
Animal Science	Poor animal nutrition and low productivity of milk	Poor knowledge of scientific animal feeding practices	Use of mineral mixture in animal feeding, Nutrition management	Conducted FLD,OFT, Trainings, awareness programmes, Pashupalan shibir etc	Text book of Animal Husbandary- G.C.Benerji

4. Details of each of the technology under Assessment, Refinement and demonstration

Crop	Name of technology	Recommended by Whom	Reason of selection	Characteristics of variety.
Gram	New Variety-GG-2	GAU, S.K.Nagar, Dantiwada	High Yielding New variety	Small grain high protein, early in maturity and high yield
Gram	New Variety-PKV-2	GAU, S.K.Nagar, Dantiwada	High Yielding New variety	Bold grain, High yield, Pod borer resistance and rainfed crops
Green gram	New Variety-Meha	NAU, Navsari	High Yielding New variety	Small grain, high yield in summer, resistant to yellow vein mosaic (Maturing days-50-60)
Sugarcane	New variety- CON-7072	SBI, Coimbatore	High Yielding New variety	High yield, High sugar recovery, Red rot and small resistance
Paddy	SIRA technology- NAUR-1	Research Sct. NARP, NAU, Navsari	High Yielding New variety	Medium grain, good cooking quality, Tolerant to grain discoloration, blight, blast & hoppers, stem borer and high yielding compared to hybrid. (Midlate maturing-120 day)

Crop	Name of technology	Recommended by Whom	Reason of selection	Characteristics of variety.
Paddy	SRI technology-GNR-3	Research Sct. NARP, NAU, Navsari	High Yielding New variety	Bold grain, mostly use for Poha Mill, 18 % more yield than Gurjari, Resistant against Bacterial Blight sheath rot & grain discolouration. (Mid late maturing-115-120 day)
Paddy	New Variety-Gurjari	Research Sct. NARP, NAU, Navsari	High Yielding New variety	Bold grain resistance against bacterial bligh and high yield (Mid late maturity 110-115 days)
Paddy	New Variety-GAR-7	Research Sct. NARP, NAU, Navsari	High Yielding New variety	Medium height, medium sized thin grain, also for food grain & blast, grain discolouration & chewing pest resistant (Mid late maturing-115-120 day)
Soybean	INM- GS-2	Madhya Pradesh Agril. University	High Yielding New variety	Bold grain, high protein, resistance against pest and disease, high yield (Maturity 70 to 90 days)
Castor	New variety-GCH-7	GAU, S.K.Nagar	High Yielding New variety	High yield, drought resistance, resistance against armyworm
Pigeon pea	New Variety-Vaishali	NAU, Navsari	High Yielding New variety	Determinate type, bold grain & 86 % grain recovery, SMD & Phytophthora fungus resistant, high protein compare with BDN-2 variety & High yielding variety (Maturing days-110-115)
Okra	Plant geometry in okra	NAU, Navsari	Reduce input cost and increase productivity per unit area	Syngenta- OH- 102 early and high yielding variety- Maintain proper spacing between plants and row
Papaya	INM technology through Fertigation	NAU, Navsari	Optimum use of fertilizers and reduce input cost	Red lady- Taiwan high yielding variety- INM through Fertigation in papaya
Okra	Integrated Pest Management(Hybrid)	AAU, Anand, NAU, Navsari and NCIPM, New Delhi	Eco-friendly Pest Management Technology	Decrease total cost of production and there by maintain B:C Ratio
Brinjal	Integrated Pest Management(Surti Ravaiya)	AAU, Anand, NAU, Navsari and NCIPM, New Delhi	Eco-friendly Pest Management Technology	Decrease total cost of production and there by maintain B:C Ratio
Bitter gourd	Integrated Pest Management(Hybrid)	NAU, Navsari	Eco-friendly Pest Management Technology	Decrease total cost of production and there by maintain B:C Ratio
Cucumber	Integrated Pest	NAU, Navsari	Eco-friendly Pest	Decrease total cost of production and there by

Crop	Name of technology	Recommended by Whom	Reason of selection	Characteristics of variety.
	Management(Hybrid)		Management Technology	maintain B:C Ratio
Pointed gourd	Integrated Pest Management (Deshi)	NAU, Navsari	Eco-friendly Pest Management Technology	Decrease total cost of production and there by maintain B:C Ratio
Little gourd	Integrated Pest Management (Deshi)	NAU, Navsari	Eco-friendly Pest Management Technology	Decrease total cost of production and there by maintain B:C Ratio
Gram	Integrated Disease Management(GG-2)	NAU, Navsari	Eco-friendly Pest Management Technology	Decrease total cost of production and there by maintain B:C Ratio
Mango	Integrated Pest Management (Kesar)	NAU, Navsari	Eco-friendly Pest Management Technology	Decrease total cost of production and there by maintain B:C Ratio
Paddy	Integrated Pest Management (NAUR-1)	NAU, Navsari	Eco-friendly Pest Management Technology	Decrease total cost of production and there by maintain B:C Ratio
Cotton	Integrated Pest Management(Bt)	Main Cotton Research Station, NAU, Surat	Eco-friendly Pest Management Technology	Decrease total cost of production and there by maintain B:C Ratio
Home Science	Use of low cost high protein & high energy rich diet to prevent malnutrition in children	A text book of "Nutritive value of Indian foods" by National Institute of Nutrition, Hyderabad	To overcome malnutrition in children	--
Home Science	Kitchen gardening	NAU model	To overcome malnutrition in farm families	--
Home Science	Use of improved NAVEEN sickle for paddy harvesting	CIAE, Bhopal	To reduce women drudgery	--
Animal Science	Concurrent use of mineral mixture and deworming on growth rate of calves	Scientific literature (Text books on animal husbandry and Livestock Production	Low awareness among tribal livestock owners about use of mineral mixture and deworming for	--

Crop	Name of technology	Recommended by Whom	Reason of selection	Characteristics of variety.
		and management)	growth rate effect on calves	
Animal Science	Estrus synchronizing Hormone (Prostaglandin F2 alpha) for cow	Scientific literature (Text books on animal husbandry and Livestock Production and management)	Low awareness among tribal livestock owners about use of hormonal treatment for infertility cure in animals	--
Animal Science	Bypass fat feeding to buffaloes	Scientific literature (Text books on animal husbandry and Livestock Production and management)	Low awareness among tribal livestock owners about use of bypass fat feeding for increasing fat% in milk	--