<u>PROFORMA FOR ANNUAL REPORT – 2008-09.</u> (01.10.2008 TO 30.09.2009)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telep	ohone	E mail
	Office	FAX	
Krishi Vigyan Kendra	(02626)	(02626)	kvkvyara@yahoo.co.in
Navsari Agricultural University	221869	220212	
Regional Rice Research Station			
Vyara, Dist. Tapi,			
Gujarat-394 650			

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

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

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

Name	Telephone / Contact						
	Residence	Mobile	Email				
Dr. Nikulsinh M. Chauhan	-	9427868668	nikulsinh_m@yahoo.in				

1.4. Year of sanction: 2004 (As ZARS KVK - 2000)

1.5. Staff Position (as on 30th September 2009)

Sr. 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. N. M. Chauhan	PC	Extension Education	12000-420-18300	12000	16/02/2009	Permanent	General
2	Subject Matter Specialist	Dr. A. P. Patel	SMS	Agronomy	8000-275-13500	8000	10/07/2009	Permanent	ST
3	Subject Matter Specialist	Mr. B. M. Tandel	SMS	Horticulture	8000-275-13500	8825	03/07/2006	Permanent	OBC
4	Subject Matter Specialist	Dr. J. H. Rathod	SMS	Plant Protection	8000-275-13500	10475	31/07/2009	Permanent	General
5	Subject Matter Specialist	Mr. C. D. Pandya	SMS	Extension Education	8000-275-13500	9375	29/07/2009	Permanent	General
6	Subject Matter Specialist	Arti N. Soni	SMS	Home Science	8000-275-13500	8275	04/04/2008	Permanent	General
7	Subject Matter Specialist	Dr. J. M. Patel	-	Veterinary Science	8000-275-13500	8000	21/01/2008	Permanent	General
8	Programme Assistant	Nital N. Patel	Prog. Assi.	Home Science	5500-175-9000	4500	18/08/2008	Permanent	OBC
9	Computer Programmer	Nisheeta R. Patel	Comp. Prog.	-	5500-175-9000	4500	21/08/2008	Permanent	SC
10	Farm Manager	Mr. V. N. Parmar	Farm Manager	-	5500-175-9000	4500	23/08/2007	Permanent	General
11	Accountant / Superintendent	Mrs. I. G. Chaudhari	Acct. / Super.	-	5000-150-8000	7100	26/10/1977	Permanent	ST
12	Stenographer	K. R. Parmar	Steno.	-	4000-100-6000	3500	18/08/2008	Permanent	General
13	Driver	Mr. A. C. Chaudhari	Driver	-	3050-75-3950-80- 4590	3725	25/02/2000	Permanent	ST
14	Driver	Mr. C. I. Patel	Driver	-	3050-75-3950-80- 4590	2500	23/08/2007	Permanent	OBC
15	Supporting staff	-	Supp. Staff	-	2550-55-2660-60- 3200	Vacant	-	-	-
16	Supporting staff	-	Supp. Staff	-	2550-55-2660-60- 3200	Vacant	-	-	-

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	
2.	Under Demonstration Units	0.5
3.	Under Crops	2.0
4.	Orchard/Agro-forestry	
5.	Others (specify)	

1.7. Infrastructural Development:

A) Buildings

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Bolero)	2004	4,30,500=00	174160	Working
Tractor	2001	3,31225=00	3972 hrs	Working

C) Equipments & AV aids

Sr.No.	Name of Equipments/ Instruments/ Farm Machineries	No.	Date of Purchase	Price	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

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	Name of Equipments/		Dete of		Dresent
Sr.No.	Instruments/	No.	Date of	Price	Present
	Farm Machineries		Furchase		Status
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	1	30/3/2001	3,31,225	Working
	HP & Accessories				
(3)	Photo Copier NP 7160	1	31/3/2001	117274	Not working
	Canon NPG-1				
(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	1	30/12/2002	6450	Working
	Longwise Proofing tools				
(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	1	21/2/2003	9000	Working
	4 XO	4	01/0/0000	0000	\\/ert/iee
	Ceramic chaik writing board 4 x o	1	21/2/2003	9000	Working
(11)	Over Head Projector	1	22/3/2003	27690	Working
	Plastic Screen with tripod stand	1	22/3/2003	4500	Working
(12)	LG 29 CA COIOF TV 29	1	21/3/2003	26990	Working
<u> </u>		1	21/3/2003	0990	WORKING
(13)	Amplificer SSA 250	1	22/2/2002	0400	Working
1 2	Ampliner SSA 250	1	22/3/2003	9400	Working
2	EUII Pango Spoakor SPX 250 D	1	22/3/2003	249	Working
3	Microphono	4	22/3/2003	24472	Working
		1	22/3/2003	11/0	Working
	ATP 20 M	1	22/3/2003	<u>1</u> 80	Working
	WM 201	1	22/3/2003	1615	Working
5	Unit Horn Combination UHC	1	22/3/2003	1188	Working
Ŭ	30 x T		22/0/2000	1100	Working
6	Micro Phone Stand		22/3/2003		Working
	DGN	1	22/3/2003	456	Working
	DGT	1	22/3/2003	285	Workina
	ATS:5	1	22/3/2003	100	Working
(14)	A.V. Trolly	1	22/3/2003	4132	Workina
(15)	Laminated Chart with wooden	33	22/3/2003	24420	Working
	Frame size 20" x 30"	-		-	5
(16)	Sony Digital Handy cam	1	22/3/2003	32750	Working
1	Power adapter	1	22/3/2003		Working

Sr No	Name of Equipments/	No	Date of	Drico	Present
Sr.NO.	Farm Machineries	NO.	Purchase	Price	Status
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 Acessories		2/12/2004	21650	Working
(27)	Whirlpool freez	1	27/3/2006	15800	Working
(28) 1	Electronic Automatic Kel Pus	1	27/3/2006	88120	Working
	Microprocessor based eight place				
	macro block digestion 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	1	28/3/2006	31900	Working
	camber Size 100 x 50 mm		07/0/0000	0.1.15	
(31)1	Laboratory Lable	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	

	Name of Equipments/		Data of		Procont
Sr.No.	Instruments/	No.	Date Of Purchase	Price	Status
	Farm Machineries		T urchase		Otatus
7	Partition racks	3	27/3/2006	22500	Working
8	Office chair	4	27/3/2006	4000	Working
(32)	Systronics make		0=/0/0000		
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-10 Cap- 10 kg	1	27/3/2006	10640	Working
(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

Sr.No.	Name of Equipments/ Instruments/ Farm Machineries	No.	Date of Purchase	Price	Present Status
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
(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 Voltage stabilizer 3.0 KVA	1 1	25/3/2008 25/3/2008	32025 6630	Working
(61)	Double Pan Balance Analytical Weight Box	1 1	24/3/2008	3640	Working
(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

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

SI.	Date	Name and Designation of Participants		Salient Recommendations	Action taken
No.					
1.	06/07/09	1. Dr. H. C. Pathak, I/C. Vice Chancellor and Director of Research, NAU, Navsari	1.	The number of On Farm Testing should be increased	Increased – 4 no.
		2. Dr. M. K. Mandape, Zonal Project Director, ZC Unit-6. Jodhpur, Rajasthan	2.	Impact assessment of mandatory activities of KVK	Completed for 3 vears Ext. work.
		3. Dr. R. B. Patel, Director of Extension Education,	3	should be made. Prepare and publish FAOs data	Prepared for
		 Shri D. Z. Patel, Joint Director of Agriculture and Deputy Director of Agril. & Horticulture, Surat 	0.	base for different crops and value added products.	paddy & Okra
		5. Shri S. M. Modi, Project Administrator, Integrated Tribal Development Project, Songadh Dist, Tapi	4.	Prepare an action plan to popularize the organic farming in	Conducted trainings & FLDs
		6. Shri R. K. Gavli, Representative of District Agriculture officer, District Panchavat, Vvara		the area and organize demonstration on organic	on organic farming
		 Shri P. R. Chaudhari, Deputy Director of Agriculture (Training), FTC, Vyara & A.D.A. (TV), 		farming incorporating all elements of NCF.	lanning
		Surat	5.	The number of Vocational	Already
		8. Shri K. K. Bhatt, Representative of Director, District Rural Development Agency, Wara		trainings pertaining to income	increased
		9. Shri K. B. Tandel, Assistant Director (Fisheries),		should be increased.	
		Near CRPF Campus, Ukai, Dist. Tapi 10 Shri D. G. Gamit, Divisional Forest Officer, Vyara	6.	Efforts should be made to make a seed village by KVK. Vyara	2 seed village (Paddy & Tur)
		Dist. Tapi	7.	Arrange exposure tour for	-
		11. Shri I. L. Mahyavanshi, Range Forest Officer,	0	progressive farmers.	Followed
		12 Shri K D Verma Representative of Lead Bank	0.	given more exposures for HRD	Followed
		Officer, Regional Office, B.O.B., Surat	9.	Efforts should be made to	Started value
		13. Shri H. N. Mevada, General Manager, District Industrial Centre, Dist, Tapi		enhance value added products from turmeric and ginger	addition
		14. Dr. H. B. Kharecha, Lokseva Trust, At. Moti	10	Find out specific thrust areas	followed
		Bhamti, La. Vansada, Dist. Navsari		and resource inventory of newly	
				ionneu rapi uisinui anu	

	1	
& Po. Gadat, Ta. Vyara, Dist. Tapi	incorporate all of the elements in	
16.Smt. Premlataben A. Gavit, Farm Women	Action Plan in the form of all four	
Representative, At. & Po. Bhitkhurd-1, Ta.	mandates of the KVK.	
Uchhal, Dist. Tapi		
17. Smt. Induben R. Gamit, Farm Women		
Representative, At. Po. Kapura, Ta. Vyara, Dist.		
Тарі		
18. Dr. H. D. Mehta, Associate Research Scientist,		
Regional Rice Research Station, NAU, Vyara		
19. Dr. N. M. Chauhan, Programme Coordinator,		
KVK, NAU, Vyara		
20. Shri R. S. Bhamre, Dist. deputy Manager,		
NABARD, Surat		
21. Shri N. G. Gamit, Seed Officer, G.S.S.C., Vyara		
22. Shri T. M. Gamit, Assi. Director of Agri.(Ext.),		
Songadh, DIst. Tapi		
23. Shri Bhupendra R. Desai, Progressive Farmer,		
Valod, Dist. Tapi		
24. Shri B. J. Saraliya, GNFC Ltd., Vyara		
25. Shri R. M. Patel, GSFC Ltd., Vyara		
26. Dr. A. P. Patel, I/c. Programme Coordinator,		
K.V.K., Navsari		
27. Shri I. R. Rathva, Extesion Officer of Agriculture,		
Vyara		
28. Father Fransis Desoza, Mandal, Po. Kikakani, Ta.		
Songadh		
29. Shri Rajubhai Jantraniya, Progressive Farmer,		
Vyara		
30. Shri B. G. Aahir, Khedut Agro, Buhari, Ta. Valod		
31. Shri D. G. Gamit, Assistant Conservator of		
Forest, Vyara		

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

2. DETAILS OF DISTRICT

S. No	Farming system/enterprise
1.	Agriculture and Animal Husbandry as well as and Agro forestry
2.	Agriculture and horticulture
3.	Agro-forestry

Major farming systems (ontorprises (based on the analysis made by the KV(K)2 1

Description of Agro-climatic Zone & major agro ecological situations (based 2.2 on soil and topography) 1. Agro-climatic zones

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

Agro-ecosystems 2.

Sr. No	Agro ecological situation	Characteristics
1.	Situation I	 The total geographical area is about 5.57 lack ha., which is 58 per cent of the zone, of which 53 Per cent is under forest Cultivated area is 15.29 per cent as it is a heavy rainfall situation 5 per cent area is under doubled crop Major field crops grown are paddy, minor millets, pulses, sorghum and oilseeds like ground nut and soybean.
2.	Situation III	 The total geographical area is about 2.22 lack ha., which is 25.21 per cent of the zone, of which 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
3.	Coastal area- Saline sodic soil	Heavy black, salt affected with poor drainage and water logged condition	156270

2.4. Area, Production and Productivity of major crops cultivated in the district

S No	Cron	Area (ba)	Production (Otl)	Productivity (Qtl
3. NU	Стор	Alea (lla)		/ha)
1.	Paddy Irrigated	61775	1915020	31.00
2.	Paddy rainfed	32531	611580	18.80
3.	Sorghum Kharif	37638	474230	12.60
4.	Maize kharif	2878	41870	14.55
5.	Other kharif cereals	390	3980	12.20
6.	Pigeon pea	34083	361270	10.60
7.	Green gram kharif	4587	30270	6.60
8.	Black gram	4117	28400	6.90
9.	Other Kharif pulses	1861	10880	5.85
10.	Ground nut	8103	121540	15.00
11.	Sesame	221	1120	5.10
12.	Castor	675	11130	16.5
13.	Cotton Irrigated	4800	105600	22.00
14.	Cotton rainfed	3458	43220	12.50
15.	Soybean	11979	100620	8.40
16.	Sugarcane	110000	88000000	800
17.	Ground nut summer	19500	4627000	23.73
18.	Green gram summer	2000	15200	7.63
Fruit Cr	ops			
1.	Mango	8550	82080	9.60
2.	Chiku	1990	20298	10.20
3.	Banana	11750	705000	60.00
4.	Papaya	1450	83375	57.50
5.	Custard Apple	50	307	6.15
6.	Cashew	110	163	1.49
	Others	640	3698	29.3
Vegetal	ples			
1.	Chili	2590	3765	1.50
2.	Turmeric	220	3520	16.00
3.	Brinjal	7050	137475	22.00
4.	Okra	7569	77203	10.20
5.	Tomato	1700	26350	18.50
6.	Onion	20	600	30.00
	Others	9105	91456	66.1

* sources. District Agricultural Officer, Surat District

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity
		Maximum	Minimum	(%)
October-08	5.55	31.00	22.0	92
November-08	-	32.00	20.0	80
Decenber-08	-	31.00	16.0	78
January-09	-	30.00	13.0	69
February-09	-	31.00	14.0	70
March-09	-	32.00	18.0	76
April-09	-	35.00	20.0	73
May-09	-	36.00	21.0	73
June-09	7 mm	34.00	20.0	76
July-09	29.5 mm	32.00	19.0	96
August-09	29.00	30.00	19.0	93

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

Category	Population	Production ('000 tones)	Productivity (kg/day)
Cattle			
Crossbred	68,650	74.87	6.58
Indigenous	2,18,400	99.00	2.99
Buffalo	2,35,000	271.03	3.64
Sheep	3,500	5 M.tone(wool)	1.33 wool/sheep
Goats	1,04,100	7.95	0.253
Pigs	24,000	585.9 meat	-
Rabbits	1000	-	-
Poultry			
Desi	5,55,700	244.31 lakh eggs	0.3198 (no.)
Improved	2,22,200	530.99 lakh eggs	0.8085 (no.)
Donkey	1143	-	-

* Source: 24th survey report on estimates & major livestock products for the years 2006-07 Guj. State, Directorate of Animal Husbandry, Gandhinagar

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Vyara	Champawadi	Champawadi	Sugarcane, Paddy, Ground nut, Gram, Pigeon pea, Sorghum	Majority area is un-irrigated Majority area has light soil with undulated land Erratic heavy rainfall Use of local variety High seed rate No seed treatment No use of organic manures Unbalance use of fertilizers No weeding Low adoption level of farmers Lack of pest management knowledge Poor live stock management Poor food grain storage practices Lack in dietary pattern of pregnant and nursing mother	Crop production technology of major crops Crop protection – IPM in major crops Low cost green house Modern method of irrigation Marketing management Live stock management Dietary management of pregnant and nursing mother Technologies of storage of food grains
2.	Vyara	Gadat	Gadat	Paddy, Sorghum, Groundnut, Vegetable, gram wheat	Majority area is un-irrigated Majority area has light soil with undulated land 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 Low adoption level of farmers	Introduction of soybean crop to replace drilled paddy Integrated pest management in vegetables Land configuration in pigeon pea Increase area under vegetable crops Low cost green house Increase conscious on health and hygiene Marketing management

2.6 Details of Operational area / Villages (2008-09)

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
					Poor live stock management Use of only chemical control of pest management in vegetables Lack of awareness about health and sanitation Inadequate intake of fruits and vegetables Poor economic condition	Kitchen gardening Income generation activities for farm women
3.	Vyara	Pati	Pati	Paddy, Ground nut, Okra, sorghum, Pigeon pea, Pulses	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	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
4.	Songadh	Gatadi	Gatadi	Paddy, Ground nut, sorghum, Tur	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	Crop production technology (ICM in major crops) Integrated pest and disease management in paddy & Ground nut Low cost green house Modern method of irrigation

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
					No weeding 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	Land configuration in ground nut and pigeon pea Marketing management Live stock management Dietary management of pregnant and nursing mother Kitchen gardening
5.	Valod	Ambach	Ambach	Sugarcane, Paddy, Okra, Cowpea, Mango	High seed rate High dose of fertilizers, Frequent and heavy irrigations Frequent spraying of insecticides with high dose Low/ non use of organic manures Lack of knowledge about scientific method of fruits and vegetable preservation	Crop production technology (ICM in major crops) IPM in sugarcane, Vegetable, Paddy and fruit crops Value addition in horticultural crops Organic manure/ vermin- composting Green manuring Increase area under high value horticultural crops. Value addition in horticultural crops
6.	Mandavi	Khareda	Khareda	Paddy, sorghum, Ground nut Brinjal, Pigeon pea	Use of local/ hybrid varieties Use of high seed rate No seed treatment No use of organic manures Unbalance use of fertilizers No weeding Low adoption level of farmers	Production technology in ground nut, paddy and vegetables Integrated nutrient management in Brinjal Integrated pest management in Brinjal and field crops Increase area under vegetable crops

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
					Poor live stock management Use of only chemical control of pest management in vegetables Inadequate intake of fruits and vegetables	Low cost production technology Animal husbandry Change in dietary pattern
7.	Nizar	Velda	Velda	Cotton, Sorghum, Soybean, papaya, Chili, wheat, Sugarcane Gram	Use of high doses of fertilizers Frequent spraying of insecticides at higher doses No green manuring No use of organic manures Poor livestock management No marketing facility Lack of knowledge about scientific method of fruit and vegetable preservation	Crop production technology for cotton, wheat and sugarcane Integrated pest management in cotton Green manuring Animal husbandry Value addition through preservation Increase area under high tech horticulture, high value crops Increase area under fruit crops Marketing management
8.	Umarpada	Chakra	Chakra	Paddy, Sorghum, Ground nut, papaya, vegetables, Water melon, Gram, wheat	Unleveled land Problem of soil and water erosion High weed problem Low education Adoption level is very low Marketing problem Poor animal management Lack of awareness about health and hygiene Inadequate intake of fruits and vegetable	Soil and water management Increase area under drip irrigation system Crop production and protection technology Chemical weed management Increase area under fruits and vegetable crops Animal husbandry Improvement in health hygiene and dietary pattern

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
9	Uchchhal	Bhitkhurd	Bhitkhurd	Paddy, Sorghum, Ground nut, Gram, Soybean, Pulses	Use local varieties of rice, sorghum and pulses High seed rate No knowledge of scientific production technology Problem of soil and water erosion Less irrigation facility Lack of awareness about health and sanitation Inadequate intake of fruits and vegetables Marketing problem Poor economic condition	Crop production and protection technologies Land configuration in ground nut and pulses Low energy drip and low cost production technology Increase area under soybean Development in health, sanitation and dietary pattern Arid horticultural development Income generation through activities and kitchen gardening
10.	Uchchhal	Bhitbhudrak	Bhitbhudrak	Paddy, Ground nut, sorghum, pigeon pea, maize, Vegetables	Use of local varieties in drilled paddy, sorghum and pulses Heavy and erratic rain Problem of soil and water erosion Poor animal management Lack of knowledge about insect pest and disease and its management Lack in dietary pattern of pregnant and nursing mothers Inadequate intake of fruits and vegetables	Crop production and protection technologies Land configuration in ground nut and other crops Increase area under vegetable crops and tuber crops Low cost green house Health and dietary development Marketing management Especially of Banana, Papaya & Vegetables.
No	te: One villag	e each from rema	aining districts of su	urat district is also cor	selected for extensive approach where a nducted.	awareness programmes are being

2.7 **Priority/thrust areas**

Crop/Enterprise	Thrust area
Paddy, Ground nut, Sugarcane, Cotton, Soybean, Gram, Pigeon pea	Crop production management (ICM)
Pigeon pea, Ground nut, Gram	Soil & water conservation and water management
Drum stick, Custard apple, Ber, guava, Vegetables	Arid horticulture development
Brinjal, Okra	Integrated nutrient management
Brinjal, Okra, Cotton, Mango, cucurbits	Integrated pest management
Major crops	Low cost technology
Vegetables, Groundnut, Gram, Soybean	Organic farming
Sewing work, Value addition	Self employment to Rural youth and farm women
Formation of Self Help Groups	Women empowerment
Management of dairy animal	Management of dairy animals
Green house technology, Drip irrigation, High value crops	High tech agriculture

<u>3. TECHNICAL ACHIEVEMENTS</u>

3.A. Details of target and achievements of mandatory activities by KVK during 2008-09

OFT	(Technology Asses	ssment and R	efinement)	FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)					
		1		2					
Num	ber of OFTs	Numbe	er of Farmers	Numbe	er of Farmers				
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
3	3	15	20	116	116	232	289		

Training (includi	ng sponsored under Rainv	d, vocational and water Harvesting	Extension Activities						
		3		4					
Num	ber of Course	es	Number of	of Participants	Number	of activities	Number of participants		
Clientele Targets Achievement			Targets	Achievement	Targets	Achievement	Targets	Achievement	
Farmers	50	112	1000	4019					
Rural youth	14	9	280	219	966	1901	47500	220835	
Extn.Functionaries	5	7	100	197					
Total	69	128	1380	4435	966	1901	47500	220835	

Seed Proc	luction (Qtl.)	Planting material (Nos.)			
	5	6			
Target	Achievement	Target	Achievement		
25	25	304000	513338		

3.B. Abstract of interventions undertaken

_						Interver	ntions		
Sr. No	Thrust area	Crop/ Enterprise	ldentified Problem	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 Ground nut Sugarcane Cotton Soybean Gram Pigeon pea	Use of local variety High seed rate, Imbalance use of fertilizers No use of bio fertilizer		Varietal demonstration Nutrient management Use of biofertilizers	Scientific Cultivation of major crops	Scientific cultivation of sugarcane and oilseed crops	Field days, khedut shibirs, News paper coverage, film show Radio talk Exhibitions etc.	Seeds of improved varieties paddy, ground nut, soybean Gram Pigeon pea etc
2.	Soil & water conservation and water management	Pigeon pea, Ground nut, Gram	Heavy rainfall and water logging cause high mortality of plants	Land configurati on in pigeon pea	Growing ground nut and gram on raised bed	Land configuration in field crops		Field days, khedut shibirs, News paper coverage, film show Exhibitions etc.	Seeds, ground nut, Gram , pigeon pea and bio- fertilizer, saplings
3.	Arid horticulture development	Drum stick Custard apple Ber, guava	Due to rain fed area, and inadequate irrigation facility		Low cost green house Vadi yojna	Arid horticulture development in rain fed		Field days, khedut shibirs, News paper coverage, film	Seeds of different vegetables and

				Interventions								
Sr. No	Thrust area	Crop/ Enterprise	Identified Problem	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.			
		Vegetables	cultivated area under fruits and vegetable is very less and per capita consumption is also less			area		show Exhibitions etc.	planting material of mango, drum stick and custard apple			
4.	Integrated Nutrient Management	Brinjal, Okra, Cotton	Imbalance use of fertilizers farmers are unable to harvest good crop		INM in Brinjal INM in Okra Nutrient management in Cotton	INM in vegetables & Cotton	INM in vegetables & Cotton	Field days, khedut shibirs, News paper coverage, film show , etc.	Bio compost & Chemical, Fertilizers, Potassium Nitrate			
5.	Integrated Pest Management	Brinjal, Okra, Cotton, Mango cucurbits	Farmers are unable to manage disease and insect pest eventhogh frequent application of insecticides at higher doses		IPM of Brinjal fruit and shoot borer IPM of okra fruit and shoot borer IPM in cotton Integrated management of fruit flies in mango and cucurbits	IPM in vegetables IPM in cotton Management of fruit flies	IPM in Vegetables	Field days, khedut shibirs, News paper coverage, film show Exhibitions etc.	Pheromone traps, neem products, Microbial products Methyl eugenol traps			
6.	Low cost technology	Major crops	Poor economic condition of farmers			Low cost green house		khedut shibirs, News paper coverage, film show Exhibitions etc				

						Interver	ntions		
Sr. No	Thrust area	Crop/ Enterprise	ldentified Problem	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.
7.	Organic farming	Vegetables, Groundnut, Gram, Soybean	High use of chemicals			Training on vermicompost		khedut shibirs, News paper coverage, film show Exhibitions etc Vermi-compost demonstrations	
8.	Self employment to Rural youth and farm women	Mushroom Value addition & Sewing	Poor economic condition of farmers			Vocational training on sewing work, Value addition		News paper coverage, film show, Method of demonstration	Cloth sewing material
9.	Women empowerment	Formation of Self Help Groups	Poor socio- economic condition of farm women		Kitchen Gardening	Health & Nutrition Fruits & Vegetable preservation, SHG formation, Income generation activities		khedut shibirs, News paper coverage, film show, Mahila Shibir, Pashupalan shibir	
10.	Management of dairy animals	management of dairy animal	Poor management of dairy animals			Daily requirement of Nutrition in milch animal. Scientifically calf rearing		khedut shibirs, News paper coverage, film show Demonstration units on campus	

						Interven	tions		
Sr. No	Thrust area	Crop/ Enterprise	Identified Problem	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.
11.	High tech agriculture	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, News paper coverage, film show	

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
Varietal		1								1
Evaluation										
Integrated Crop					1					1
Management										
TOTAL		1			1					2

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			1							1
Crop										
Management										
TOTAL			1							1

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

A. Technology Assessment

:

:

Trial	1		
1.	Title	:	Refinement of Sowing time in okra
2.	Problem diagnose/defined	:	Low yield, growing during off season (rabi)
3.	Details of technologies selected for assessment /refinement	:	 T1. Date of sowing 15th November (Farmers practices) T2. Date of sowing 15th October T3. Date of sowing 30th October
4.	Source of technology	:	Main Vegetable Research Station, Anand
5.	Production system thematic area	:	Paddy – Okra base cropping system, Time of Sowing
6.	Thematic area	:	Integrated crop management
7.	Performance of the Technology	:	Results showed that 15 th October
	with performance indicators		sowing date recorded higher yield (23.821 t/ha), No. of pods per plant (21.36/plot) as compared to farmers
			practices and date of sowing at 30 th October.
8.	Final recommendation for micro	:	Farmers of Tapi district should grow
	level situation		okra in month of 15 th October. It is the best time for higher yield
9.	Constraints identified and	:	Research on fertilizer management &
	feedback for research		spacing in hybrid okra.
10.	Process of farmers participation	:	Farmers appreciate the technology &
	and their reaction		ready to adopt.

11). Results of On Farm Trials

							Data or	n the para	meter		Posulte	
Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	No. of branches/ main stem	No. dules / main stem	No. of fruit / plant	Yield / plant	Yield / kg/ha	of assess- ment	Feedback from the farmer
1	2	3	4	5	6			7			8	9
Okra	Irrigated	Low yield growing during rabi season	Refinement of sowing time in okra	6	T1. Date of sowing at 15 th Nov. (Farmers practices)	0.2	8.5	8.7	87.36	9707	15 th Oct. sowing of okra gave	Selection of early maturing variety for 15 th
					T2. Date of sowing at 15 th Oct.	2.06	19.03	21.36	214.4	23821.6	higher yield	October okra sowing
					T3. Date of sowing at 30 th Oct.	0.73	13.46	14.46	144.7	16077.3		which got better income

* No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
10	11	12	13
1. Date of sowing at 15 th October	23.821	136605.5	3.3
 Date of sowing at 15th November (Farmers practices) 	9.707	30750	0.76

*Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

** Give details of the technology assessed or refined and farmer's practice

Trial 2

.

1.	Title	:	Varietal evaluation of Groundnut
2.	Problem diagnose/defined	:	Low productivity of nondescript and
			old groundnut varieties grown in
			summer season of Tapi district.
3.	Details of technologies selected for	:	T1. J-11 (Farmers practices)
	assessment /refinement		T2. GG-20 T3. GG-2 T4. GG-6 T5. TG-37A
4.	Source of technology	:	NRCG, Junagadh
5.	Production system thematic area	:	Paddy groundnut base cropping
			system
6.	Thematic area	:	Integrated crop management
7.	Performance of the Technology	:	Result indicated that variety GG-6
	with performance indicators		recorded higher yield (2348 kg / ha),
			No. of pod per plant (22.7 g/plant), wt.
			of dry pod per plant (20.65 g/plant)
			followed by TG-37 A, GG-2, J-11 and
			GG-20 respectively.
8.	Final recommendation for micro	:	Groundnut variety GG-6 may be
	level situation		grown in place of variety TG-37A, GG-
			2, G-20, J-11 in summer season of
			Tapi district.
9.	Constraints identified and	:	Developed suitable variety of late rabi
	feedback for research		season for this region.
			Developed duel purpose
			(fodder+kernal) variety.
10.	Process of farmers participation	:	Farmers are ready to adopt this
	and their reaction		variety

11). Results of On Farm Trials

Cront				No			Data on th	e parameter			Foodback								
enterprise	Farming situation	Problem Diagnosed	Title of OFT	of trials*	Technology Assessed	No. of branches/ plants	No. of pods / plants	wt. of dry pods/plant (g/plant)	Dry pod yield kg/ha	Results of assessment	from the farmer								
1	2	3	4	5	6			7		8	9								
Ground-	Irrigated	Low	Varietal	7	T1. J-11	5.29	16.43	13.56	1232	Among five	Groundnut								
nut		productivity of non descript and old	evaluation		T2. GG-2	4	14.43	13.79	1720	variety	cv. GG-6								
			of non descript	of non descript	of non descript	of non descript					on ript		T3. GG-20	6.14	6.14	7.2	958	Cv.GG-6 dave higher	have more
					T4. GG-6	5.14	22.71	20.66	2348	yield	pod than								
		groundnut varieties			T5. TG –37A	4.71	9.42	10.66	2138	followed by TG 37A than other Groundnut variety	older one & also get higher yield than other variety.								

* No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
10	11	12	13
1. J-11	1232	10614	0.61
2. GG-2	1720	21838	1.2
3. GG-6	2348	33934	1.9

*Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

** Give details of the technology assessed or refined and farmer's practice

Technology Refinement Β.

Trial 1

1. Title Land configuration in Pigeon pea : 2. **Problem diagnose/defined** Low yield, High rainfall, Poor plant :

:

- 3. Details of technologies selected for assessment /refinement
- 4. Source of technology
- 5. Production system thematic area
- Thematic area 6.
- 7. Performance of the Technology with performance indicators

- 8. Final recommendation for micro level situation
- 9. Constraints identified and feedback for research
- 10. **Process of farmers participation** and their reaction

population

- Flat bed sowing (Farmers T1 practices)
- T2 Sowing on raised bed / broad bed furrow
- T3 Ridge and furrow
- Research scientist, Pulse crop, NAU, : Navsari
- Drill Paddy + pigeon pea cropping : system
- Land configuration (ICM) :
- The refined technology ridges and 2 furrow sowing of pigeon pea had more no. of branches per plant (14.43/plant) and no. of pods per plant (573.4/plant) at harvest and higher yield (1346 kg/ha) as compared to other treatment of land configuration.
- Ridges and furrow system found 2 better for higher pigeon pea yield.
- Developed resistant variety for Tur : against pod fly.
- Appreciate the technology and ready : to adopt ridge and furrow system

11). Results of On Farm Trials

							Da	ata on the	parameter		Posulte	
Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology refined	Parameters	No. of branches/ plants	No. of pods / plants	Seed wt./plant (dry) gm	seed yield / ha (kg/ha)	of refinem- ent	Feedback from the farmer
1	2	3	4	5	6	7		8			9	10
Pigeon pea	Irrigated	Low yield, high rain fall, poor plant	Land configuration in pigeon pea	7	T1. Flat bed sowing - Farmer practices	133.57	9	508.57	27.34	1011	Ridges & furrow method	It is difficult to prepare raised bed so adoption
		population			T2. Raised bed	171.57	12.43	532.71	29.63	1095	of sowing	of ridges & furrow is
					T3. Ridges & furrow	178.56	14.42	573.42	36.4	1346	gave good yield	better

* No. of farmers

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
Flat bed sowing	1011	18043	2.49
Ridge & furrow	1346	26418	3.65

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 2008-09 and recommended for large scale adoption in the district

				Details of	Horizonta	spread of t	echnology
Sr. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	popularization methods suggested to the Extension system	No. of villages	No. of farmers	Area in ha
1	Groundnut	ICM	Land configuration, seed treatment, use of bio-fertilizer	FLDs	4	20	10
2	Soybean	INM	Balance use of fertilizer, manure & Bio fertilizer.	FLDs	3	28	108
3	Paddy(GR-5)	ICM	New variety	FLDs	2	4	2
4	Paddy(GR-8)	New Variety	New variety	FLDs	2	12	5
5	Paddy(GR-9)	New Variety	New variety	FLDs	2	14	5
6	Paddy	Green Manure	Green manuring before planting.	FLDs	1	12	5.0
7	Cotton	IPM	Integrated pest management.	FLDs	2	100	100
8	Cotton	INM	Potassium nitrate	FLDs	1	10	5
9	Pigeon pea	Introduction of New Variety	Performance of improved variety.	FLDs	5	116	32
10	Sorghum	New Variety	Performance of improved variety.	FLDs	3	15	5
11	Gram	New variety Land Configuration	New variety Land configuration	FLDs	4	92	29
12	Okra	INM	Integrated pest management.	FLDs	4	26	19
13	Brinjal	INM	Integrated pest management.	FLDs	4	48	26

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

b. Details of FLDs implemented during 2008-09 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

SI. No	Crop	Thematic area	Technology Demonstrated	Season and	Area	(ha)	No de	. of farme monstrat	ers/ ion	Reasons for shortfall in
		urou	Domonotiatoa	your	Proposed	Actual	SC/ST	Others	Total	achievement
Oils	eed crop	1					-	1		1
1	Groundnut	ICM	Land configuration, seed treatment, use of bio-fertilizer	Kharif-2008	10	10	20	-	20	
2	Soybean	INM	Balance use of fertilizer, manure & Bio fertilizer.	Kharif-2008	5	5	14	-	14	
Cere	eals crop									
1	Paddy (GR-5)	ICM	New variety	Kharif-2008	2	2	4	-	4	
2	Paddy (GR-8)	New Variety	New variety	Kharif-2008	5	5.2	12	-	12	
3	Paddy (GR-9)	New Variety	New variety	Kharif-2008	5	4.8	14	-	14	
4	Paddy	Green Manure	Green manuring before planting.	Kharif-2008	5	5	11	1	12	
5	Sorghum	New Variety	Performance of improved variety.	Kharif-2008	5	5	15	-	15	
Puls	es									
1	Pigeon pea	Introduction of New Variety	Performance of improved variety.	Kharif-2008	5	5	19	1	20	
2	Gram	Land Configuration	Use of bio- fertilizer Land configuration.	Rabi-2008	5	5	22	-	22	
Cott	on									
1	Cotton	IPM	Integrated pest	Kharif-2008	50	50	-	50	50	

SI.	Crop	Thematic	Technology	Season and	Season and Area (ha)		No dei	. of farme monstrat	Reasons for shortfall in	
NO.		alea	Demonstrateu	year	Proposed	Actual	SC/ST	Others	Total	achievement
			management.							
2	Cotton	INM	Potassium nitrate	Kharif-2008	5	5	-	10	10	
Hort	icultural cro	ps								
1	Okra	INM	Integrated Nutrient	Rabi-2008	2	2	8	-	8	
			management.							
2	Brinjal	INM	Integrated Nutrient	Rabi-2008	2	2	8	-	8	
			management.							
3	Cucurbits	IPM	Integrated pest	Summer-09	5	5	20	-	20	
			management.							
4	Mango	IPM	Integrated pest	Summer-09	5	5	10	-	10	
			management.							

Details of farming situation

Сгор	Season	Farming situation (RF/Irriga	Soil type		Status of soil		Status of soil		Status of soil		Previous	Sowing date	Sowing date Harvest date		No. of rainy
		ted)		Ν	Р	ĸ	crop			(mm)	days				
Oilseed cro	p														
Groundnut	Kharif- 2008	Rainfed	Light soil Light shallow	L	М	Н	Gram	16 th to 26th June 2008	17 th to 29 th Oct. 2008	1825	61				
Soybean	Kharif- 2008	Rainfed	Light soil Light shallow	L	М	H	Fallow	14 th to 18 th June 2008	14 th to 18 th Oct. 2008						
Cereals cro	р														
Paddy (GR-5)	Kharif- 2008	Rainfed	Light soil Light shallow	L	М	Н	Fallow	28 th June to 3 rd July 2008	5 th 15 th Oct. 2008						
Paddy (GR-8)	Kharif- 2008	Rainfed	Light soil Light shallow	L	М	H	Fallow	28 th June to 3 rd July 2008	1 st to 14 th Oct. 2008	1825	61				
Paddy	Kharif-	Rainfed	Light soil	L	M	Н	Fallow	29 th June to2nd	12^{th} to 15^{th} Oct.						

Crop	Season	Farming situation	Soil type	Status of soil			Previous	Sowing date	Harvest date	Seaso- nal	No. of rainy
		ted)		Ν	Р	K	сгор			(mm)	days
(GR-9)	2008		Light shallow					July 2008	2008		
Paddy	Kharif- 2008	Irrigated	Medium black	М	H	Н	Sugarcane	GM.: 23 rd to 15 th may2008 T.P.: 21 st June 3rd July 2008	10 th to 14 th Nov. 2008		
Sorghum	Kharif- 2008	Rainfed	Light soil Medium black	L	М	Н	Drill Paddy	4 th Aug. to 10 th Sept. 2008	10 th 23 rd to 29 th Dec. 2008		
Pulses	•	•	•	•		•				•	•
Pigeon pea	Kharif- 2008	Irrigated	Light soil Light shallow	L	М	Н	Fallow	16 th to 18 th June 2008	23 rd Janu to 4 th Febu.2009	1905	61
Gram	Rabi-2008	Irrigated	Light soil Light shallow	L	М	Н	Paddy	20 th Nov. to 14 th Dec. 2008	9 th to 15 th March. 2009	1625	01
Cotton	·			•		•					
Cotton	Kharif- 2008	Irrigated	Black soil	М	Н	Н	Fallow	14 th to 26 th May 2008	29 th Oct to 9 th Nov. 2008	1925	61
Cotton	Kharif- 2008	Irrigated	Black soil	М	Н	Н	Fallow	15 th to 24 th May 2008	29 th Oct to 9 th Nov. 2008	1025	01
Horticultura	l crops			-	-	-					
Okra	Rabi- 2008	Irrigated	Light soil Medium black	L	М	H	Paddy	23 rd Oct to 15 th Nov. 2008	10 th to 31 st March 2009		
Brinjal	Rabi- 2008	Irrigated	Light soil Medium black	L	М	Н	Fallow	23 rd Aug. to 2 nd Sept. 2008	2 nd to 28 th February 2009		

Crop	Season	Farming situation	Soil type	Status of soil			Previous	Sowing date	Harvest date	Seaso- nal	No. of rainy
		ted)		Ν	Р	K	стор	_		(mm)	days
Cucurbits	Summer- 09	Irrigated	Light soil Medium black	L	M	H	Paddy	1 st jan. to 16 th January 2009	16 th April to 29 th April 2009		
Mango	Summer- 09	Irrigated	Light soil Medium black	L	М	H		12 th April 2009			

Performance of FLD

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Den	no. Yield	Qtl/ha	Yield of local Check	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						Н	L	Α	Qti./na		Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
Oilseed	l crop											
1	Groundnut	Land configuration, seed treatment, use of bio- fertilizer	GG-20	20	10	18.4	15.4	16.63	13.47	24	16.63	13.47
2	Soybean	Balance use of fertilizer, manure & Bio fertilizer.	GS-2	14	5	20.2	17.4	18.74	15.05	25	18.74	15.05
Cereals	s crop					-		-				-
1	Paddy (GR-5)	New variety	GR-5	4	2	19.8	16.8	18.63	11.13	62	18.63	11.13

Sr. No.	Сгор	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of Increase Iocal in yield Check (%)		Data on parameter in relation to technology demonstrated	
						Н	L	Α	Qui./na		Demo	Local
2	Paddy (GR-8)	New Variety	GR-8	12	5	15.65	13.4	14.19	9.14	27	14.19	9.14
3	Paddy (GR-9)	New Variety	GR-9	14	5	11.8	9.4	10.53	9.14	15	10.53	9.14
4	Paddy	Green manuring before planting	Gurjari	12	5	65.6	47.7	52.59	43.77	20	52.59	43.77
5	Sorghum	Performance of improved variety	GJ-38	15	5	12.4	10.4	11.36	7.86	44	15.36	7.86
Pulses		· · ·		•								
1	Pigeon pea	Performance of improved variety	Vaishali	20	5	20.60	8.40	12.48	7.40	33	12.48	7.40
2	Gram	Use of bio- fertilizer Land configuration	GG-2	22	5	24.2	18.1	20.78	14.77	40	20.78	14.77
Cotton												
1	Cotton	IPM	Bt-cotton	50	50	30	17.5	22.15	19.75	12	22.15	19.75
2	Cotton	Potassium nitrate	Bt-cotton	10	5	29.0	17.0	23.00	19.00	21.05	23.00	19.00
Horticu	Itural crops				·	•	•	·	·		•	·
1	Okra	INM	Hybrid	8	2	167.8	153.8	161.7	112.5	35	161.7	112.5
2	Brinjal	INM	Surti Ravaiya	8	2	218	198	208.1	148.25	42	208.1	148.25
3	Cucurbits	IPM	Hybrid	20	5	125.0	80.0	101.9	83.1	22	101.9	83.1
4	Mango	IPM	Kesar	10	5	Due	to very lo	w fruit sett	ting IPM c	omponent d	emo was	failed.

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Ret	urn (Rs./ha)	Average Net Retur (Rs./ha)	Benefit-Cost Ratio (Gross		
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	Return / Gross Cost)	
14	15	16	17	18	19	20)
Oilseed crop							
14400	14200	39912	32328	25512	18128	1.77	1.2
8126	8025	31858	25585	23732	17560	2.9	2.1
Cereals crop							
5823	4150	13041	7791	7218	3641	1.2	0.87
5225	3850	9933	7791	4708	3641	1.1	0.87
2823	3150	8424	6398	4601	3248	1.2	1.0
101400	13240	4733	39393	35931	26153	3.1	1.97
6260	4940	14768	9432	8508	4492	2.35	1.9
Pulses		·	·			•	
8140	7232	49938	29600	41798	22368	5.1	3.09
8898	8362	47794	33971	38896	25609	4.30	3.06
Cotton		·	·			•	
17500	20150	59805	53325	42305	33175	2.4	1.6
17500	20150	57811.5	53325	40311.5	33175	2.31	1.64
Horticultural crop	-			·	-		
42052	46820	113190	78750	71138	32030	2.69	1.68
40784	39739	104050	73125	63266	33386	2.55	1.84
27560	27640	76425	58170	48865	30530	2.77	2.10

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

Сгор	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check				
1. Seed/Variety										
Paddy (GR-5)	Kharif-2008		Rainfed	18.63	11.13	62				
Paddy (GR-8)	Kharif-2008		Rainfed	14.19	9.14	27				
Paddy (GR-9)	Kharif-2008	Seed/ Variety	Rainfed	10.53	9.14	15				
Sorghum	Kharif-2008		Rainfed	11.36	7.86	44				
Pigeon pea	Kharif-2008		Rainfed	12.48	7.40	33				
2. Bio-fertilizer	·			·						
Groundnut	Kharif-2008	Die fertilizer	Rainfed	16.63	13.47	24				
Gram		Bio iertilizer	Irrigated	20.78	14.77	40				
3. Fertilizer manage	ment			·						
Soybean	Kharif-2008		Rainfed	18.74	15.05	25				
Cotton	Kharif-2008	O.M. & Chemical	Irrigated	23.00	19.00	21.05				
Okra	Rabi-2008	Fertilizer	Irrigated	161.7	112.5	35				
Brinjal	Rabi-2008		Irrigated	208.1	148.25	42				
4. Plant Protection										
Cotton	Kharif-2008	IPM	Irrigated	22.15	19.75	12				
Cucurbits	Summer-2009	Methyle Eugenol	Irrigated	101.9	83.1	22				
5. Combination of c	5 Combination of components (Please specify)									
Paddy	Kharif-2008	Greeen manuring+ Paddy seed	Irrigated	52.59	43.77	20				
Technical Feedback on the demonstrated technologies

Sr. No	Feed Back
1	Suitable variety in soybean for this region
2	Required to developed farm machinery and threshing equipments for groundnut
3	Farmers require small grain and high yielding variety of Gram & Paddy
4	Unavailability of raised bed former
5	Require to develop high yielding hybrid rice suitable for this region
6	Weed management in Drill Paddy, cotton and other crops
7	Wilt and fruit & shoot borer management technology require in Brinjal
8	YVM and fruit& shoot borer management technology require in Okra
9	To study on fertigation in papaya and watermelon
10	Required to study on date of sowing (Late Kharif season) in Hybrid watermelon
11	Land configuration (spacing) in oil seeds and pulse crops.

Farmers' reactions on specific technologies

Sr. No	Feed Back
1	Raised bed methods in Pigeon pea gave really good results. Appreciate the variety
	of Pigeon pea like Vaishali. This variety gives good results under bio-fertilizer treated
	plot.
2	Appreciated the Soybean crop as it performing well and gives more returns than drill
	paddy.
3	Green manuring in paddy t.p. gave good results it maintain soil health &gave more
	yield than traditional method.
4	New variety of Paddy, gram and groundnut gave good results than old.
5	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, cotton
	and cucurbits crops.
6	The technology of INM increases yield and soil health and quality of fruits in brinjal
	and okra.
8	Land configuration in gram and pigeon pea gives good results than local method.

Extension and Training activities under FLD

Sr. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days				
	i. Oilseeds& Pulses	9	2-10-2008, 19-1-2009, 28-1-2009, 1-5-2009, 6-5-2009, 14-9-2009, 15-9-2009, 16-9-2009	410	-
	ii. Other than FLDs	7	27-11-2008, 30-12-2008, 16-7-2009, 15-9-2009, 16-9-2009	301	-
2	Farmers Trai	ning			
	i. Oilseeds& Pulses	4	23-10-2008, 23, 24-1-2009, 9-6-2009, 10-6-2009,	88	-
	ii. Other than FLDs	7	26-10-2008, 5-11-2008, 8-12-2008, 4-5-2009, 4-6-2009, 8-6-2009, 22-6-2009	185	-
3	Media covera	ge			
	i. Oilseeds& Pulses	5	10-6-2009, 31-8-2009, 18-9-2009, 22-9-2009	-	-
	ii. Other than FLDs	1	28-6-2009	-	-
4	Training for e	extension fun	ctionaries		
	i. Oilseeds& Pulses	2	23,24-1-2009, 30, 31-7-2009	53	-
	ii. Other than FLDs	4	15-10-2008, 29-12-2008, 18-4-2009, 29,29-7-2009	96	-

c. Details of FLD – Home Science:

Result of Demonstration on Kitchen Gardening during year-2008

Season:- Rabi: 2008

Name of	No. of	No. of	Area		Crop yield (Kg)								Total	Average	Gross	return (Rs.)	
Enterprise	Farm	Demon.		Okra	Tomato	Brinjal	Cabbage	Cauliflower	Chillies	Bitter	Bottle	Ridge	Palakh	Prod-	rate	Before	After FLD
	women									gourd	gourd	gourd		uction	(Rs/kg)	FLD	
Kitchen	50	50	1	13.3	11.4	18.86	2.8	3.04	5.06	3.56	6.5	5.26	1.58	71.1	13	Not	924.3,
Garden			Guntha/													done	along with
			farm													kitchen	domestic
			women													garden	consumption

Critical inputs applied:- Seeds : Okra- 60 gm, Palakh-25 gm

Seedling : Brinjal- 15, Chillies-15, Cauliflower-15, Bottle gourd- 1, Tomato-15, Cabbage-15, Bittergourd-1, Ridge gourd-1,

Technical Feed Back of Kitchen Garden:

S. No	Feed Back
1	Before Demonstration farm women were not growing vegetable crops in their backyard but after demonstration they are growing different vegetable crops through kitchen gardening in scientific way.
2	Farm women get continuous supply of fresh vegetables at low cost which gives daily nutritious diet.
3	Farm women are utilized maximum backyard space and waste water.
4	In kitchen gardening, farm women are not applying any agrochemicals so they produce organic vegetables.
5	Farm women are attracted towards vegetable hybrids.

Farm women Reaction:

S. No	Feed Back
1	Kitchen gardening makes available fresh, cheap and chemical free vegetables over a long period of time which improve our daily diet.
2	Income is generated by selling extra vegetables grown in kitchen garden.
3	We are utilized our spare time through kitchen gardening. i.e. kitchen gardening is the profit making leisure time activity.

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

Participants No. of Others SC/ST Grand Total Thematic area courses Male Female Total Male Female Total Male Female Total (A) Farmers & Farm Women I Crop Production Resource Conservation 21 21 2 37 37 16 16 ---Technologies 66 66 **Cropping Systems** 3 22 88 22 88 ---Crop Diversification 28 2 15 43 28 15 43 ---12 12 12 12 Integrated Farming 1 --Water management Seed production 12 12 1 7 5 7 5 ---Nursery management Integrated Crop 19 19 1 19 19 -----Management Fodder production Production of organic 14 14 14 14 1 ----inputs II Horticulture a) Vegetable Crops Production of low volume 135 276 141 276 7 141 135 --and high value crops Off-season vegetables 3 109 22 131 109 22 131 ---**III Livestock Production and Management** Dairy Management 15 40 15 25 25 40 2 ---IV Home Science/Women empowerment Household food security 2 108 108 108 108 --by kitchen gardening and nutrition gardening Design and development 1 45 45 -45 45 ---of low/minimum cost diet Value addition 2 56 56 56 56 -----Women and child care 3 91 91 91 91 -----

A) ON Campus

	No. of					Participants				
Thematic area			Others			SC/ST			Grand Total	
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
V Plant Protection	•							•		
Integrated Pest	3	-	-	-	62	48	110	62	48	110
Management										
Integrated Disease	1	25	-	25	-	-	-	25	-	25
Management										
VI Capacity Building and	Group Dyna	amics								
Formation and	2	-	-	-	1	67	68	1	67	68
Management of SHGs										
VII Others										-
Side effect of insecticides	1	-	-	-	63	-	63	63	-	63
& their solutions										
TOTAL	38	25	-	25	553	660	1213	578	660	1238
(B) RURAL YOUTH										-
Integrated farming	1	-	-	-	19	-	19	19	-	19
Protected cultivation of	4	-	-	-	66	-	66	66	-	66
vegetable crops										
TOTAL	5	-	-	-	85	-	85	85	-	85
(C) Extension Personnel										-
Productivity enhancement	1	19	-	19	5	-	5	24	-	24
in field crops										
Integrated Pest	1	10	-	10	18	-	18	28	-	28
Management										
Integrated Nutrient	1	20	-	20	-	-	-	20	-	20
management										
Protected cultivation	1	44	-	44	-	-	-	44	-	44
technology										
Formation and	1	-	2	2	-	27	27	-	29	29
Management of SHGs										
How to conduct	1	4	-	4	10	-	10	14	-	14
demonstration										
SRI	1	38	-	38	-	-	-	38	-	38
TOTAL	7	135	2	137	33	27	60	168	29	197

B) OFF Campus

Thematic area	No. of					Participants				
	courses		Others			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Wom	en	•		•			•			
I Crop Production										
Weed Management	1	-	-	-	27	-	27	27	-	27
Cropping Systems	3	-	-	-	12	152	164	12	152	164
Seed production	2	-	-	-	20	30	50	20	30	50
Integrated Crop	3	57	-	57	2	22	24	59	22	81
Management										
Production of organic	3	-	-	-	71	64	135	71	64	135
inputs										
II Horticulture										
a) Vegetable Crops	•	•		-	•	-		•		
Production of low volume	8	-	-	-	62	243	305	62	243	305
and high value crops										
Off-season vegetables	1	-	-	-	51	3	54	51	3	54
Protective cultivation	2	-	-	-	18	50	68	18	50	68
(Green Houses, Shade										
Net etc.)										
b) Fruits	•			•		•		•		
Layout and Management	1	-	-	-	43	30	73	43	30	73
of Orchards										
Cultivation of Fruit	3	22	-	22	62	37	99	84	37	121
Plant propagation	1	-	-	-	-	37	37	-	37	37
techniques										
III Livestock Production a	nd Manage	ment			-					
Dairy Management	8	-	-	-	127	169	296	127	169	296
Feed management	1	-	-	-	1	31	32	1	31	32
IV Home Science/Women	empowerm	ent								
Design and development	1	-	-	-	-	22	22	-	22	22
of low/minimum cost diet										
Value addition	2	-	25	25	-	40	40	-	65	65
Income generation	2	-	20	20	-	26	26	-	46	46

Thematic area	No. of		Participants											
	courses		Others SC/ST Gra											
		Male	Female	Total	Male	Female	Total	Male	Female	Total				
activities for														
empowerment of rural														
Women														
Women and child care	2	-	-	-	-	71	71	-	71	71				
V Agril. Engineering														
Production of small tools	1	-	-	-	-	49	49	-	49	49				
and implements														
VI Plant Protection							-							
Integrated Pest	24	558	-	558	220	50	270	778	50	828				
Management														
Integrated Disease														
Management														
Bio-control of pests and	2	-	-	-	48	-	48	48	-	48				
diseases														
VII Others	I			I	I		I	I						
Marketing of farm produce	1	-	-	-	50	-	50	50	-	50				
Importance of FLD	1	-	-	-	24	74	98	24	74	98				
Scientific cultivation of	1	-	-	-	54	7	61	54	7	61				
Rose														
TOTAL	74	637	45	682	892	1207	2099	1529	1252	2781				
(B) RURAL YOUTH	•													
Planting material	1	-	-	-	41	-	41	41	-	41				
production														
Repair and maintenance	1	-	-	-	17	-	17	17	-	17				
of farm machinery and														
implements														
Tailoring and Stitching	1	-	-	-	-	33	33	-	33	33				
IPM	1	-	-	-	42	1	43	42	1	43				
TOTAL	4	-	-	-	100	34	134	100	34	134				

C) Consolidated table (ON and OFF Campus)

Thematic area	No. of					Participants				
	courses		Others		SC/ST Grand Total Male Female					
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Womer	1		·	•			•			
I Crop Production										
Weed Management	1	-	-	-	27	-	27	27	-	27
Resource Conservation	2	-	-	-	16	21	37	16	21	37
Technologies										
Cropping Systems	6	-	-	-	78	174	252	78	174	252
Crop Diversification	2	-	-	-	28	15	43	28	15	43
Integrated Farming	1	-	-	-	12	-	12	12	-	12
Water management										
Seed production	3	-	-	-	27	35	62	27	35	62
Integrated Crop	4	57	-	57	21	22	43	78	22	100
Management										
Production of organic inputs	4	-	-	-	85	64	149	85	64	149
II Horticulture										
a) Vegetable Crops										
Production of low volume	15	-	-	-	203	378	581	203	378	581
and high value crops										
Off-season vegetables	4	-	-	-	160	25	185	160	25	185
Protective cultivation	2	-	-	-	18	50	68	18	50	68
(Green Houses, Shade Net										
etc.)										
b) Fruits				1		1	I	1	•	
Layout and Management of	1	-	-	-	43	30	73	43	30	73
Orchards										
Cultivation of Fruit	3	22	-	22	62	37	99	84	37	121
Plant propagation	1	-	-	-	-	37	37	-	37	37
techniques										
III Livestock Production and	d Manageme	ent		1	1		I	1	I	
Dairy Management	10	-	-	-	142	194	336	142	194	336
Feed management	1	-	-	-	1	31	32	1	31	32
IV Home Science/Women e	mpowermer	nt								

Thematic area	No. of		Participants									
	courses		Others		SC/ST Grand Total							
		Male	Female	Total	Male	Female	Total	Male	Female	Total		
Household food security by	2	-	-	-	-	108	108	-	108	108		
kitchen gardening and												
nutrition gardening												
Design and development of	2	-	-	-	-	67	67	-	67	67		
low/minimum cost diet												
Value addition	4	-	25	25	-	96	96	-	-121	121		
Income generation activities	2	-	20	20	-	26	26	-	46	46		
for empowerment of rural												
Women												
Women and child care	5	-	-	-	-	162	162	-	162	162		
V Agril. Engineering												
Repair and maintenance of	1	-	-	-	-	49	49	-	49	49		
farm machinery and												
implements												
VI Plant Protection					•		•	•				
IPM	27	558	-	558	282	98	380	840	98	938		
Integrated Disease	1	25	-	25	-	-	-	25	-	25		
Management												
Bio-control of pests and	2	-	-	-	48	-	48	48	-	48		
diseases												
VII Capacity Building and G	roup Dynai	nics										
Formation and	2	-	-	-	1	67	68	1	67	68		
Management of SHGs												
VIII Others												
Side effects of insecticides	1	-	-	-	63	-	63	63	-	63		
& their solutions												
Marketing of farm produce	1	-	-	-	50	-	50	50	-	50		
Importance of FLD	1	-	-	-	24	74	98	24	74	98		
Scientific cultivation of Rose	1	-	-	-	54	7	61	54	7	61		
TOTAL	112	662	45	707	1445	1867	3312	2107	1912	4019		
(B) RURAL YOUTH												
Integrated farming	1	-	-	-	19	-	19	19	-	19		
Planting material production	1	-	-	-	41	-	41	41	-	41		

Thematic area	No. of		Participants									
	courses		Others		Grand Total							
		Male	Female	Total	Male	Female	Total	Male	Female	Total		
Protected cultivation of	4	-	-	-	66	-	66	66	-	66		
vegetable crops												
Repair and maintenance of	1	-	-	-	17	-	17	17	-	17		
farm machinery and												
implements												
Tailoring and Stitching	1	-	-	-	-	33	33	-	33	33		
IPM	1	-	-	-	42	1	43	42	1	43		
TOTAL	9	-	-	-	185	34	219	185	34	219		
(C) Extension Personnel												
Productivity enhancement	1	19	-	19	5	-	5	24	-	24		
in field crops												
IPM	1	10	-	10	18	-	18	28	-	28		
Integrated Nutrient	1	20	-	20	-	-	-	20	-	20		
management												
Protected cultivation	1	44	-	44	-	-	-	44	-	44		
technology												
Formation and	1	-	2	2	-	27	27	-	29	29		
Management of SHGs												
How to conduct	1	4	-	4	10	-	10	14	-	14		
demonstration												
SRI	1	38	-	38	-	-	-	38	-	38		
TOTAL	7	135	2	137	33	27	60	168	29	197		
GRAND TOTAL	128	797	47	844	1663	1928	3591	2460	1975	4435		

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

(D) Vocational training programmes for Rural You
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					No.	of Particip	ants	Self e	mployed af	ter training	Number of
Crop / Enterprise	Date	Training title*	ldentified Thrust Area	Duration (days)	Male	Female	Total	Type of units	Number of units	Number of persons employed	persons employed else where
Home Science	Jan.'09 to Mar.'09	Sewing work	Income generation	3 months	-	33	33		Wor	k in progress -	-

(E) Sponsored Training Programmes

					Dur	Client	No. No. of Participants						ts				Amount	
SI.	Date	Title	Discip-	Thematic area	ation	(PF/	of	0	the	rs		SC/ST	-		Total		Sponsoring	of fund
No	2410		line	inomatio aroa	(days)	RY/EF)	cou- rses	М	F	Т	М	F	Т	М	F	Т	Agency	received (Rs.)
1	10//11/08 to 03/12/08	Micro Irrigation maintenance & repairs	Ext. Edu.	Micro irrigation	24	RY	1	-	-	-	17	-	17	17	-	17	FTC GGRC	-
2	05/01/08	Management of mealy bugs in cotton	Pl. Prot.	IPM	1	PF	1	32	-	32	-	-	-	32	-	32	RKVY	
3	05/01/09	Management of mealy bugs in cotton	Pl. Prot.	IPM	1	PF	1	15	-	15	-	-	-	15	-	15	RKVY	42000
4	20/01/09	Integrated management of mealy bugs	Pl. Prot.	IPM	1	PF	1	-	-	-	32	-	32	32	-	32	RKVY	13000
5	20/01/09	Integrated management of mealy bugs	Pl. Prot.	IPM	1	PF	1	-	-	-	29	-	29	29	-	29	RKVY	

6	21/01/09	Integrated management of mealy bugs	Pl. Prot.	IPM	1	PF	1	13	-	13	-	-	-	13	-	13	RKVY	
7	21/01/09	Integrated management of mealy bugs	Pl. Prot.	IPM	1	PF	1	36	-	36	-	-	-	36	-	36	RKVY	
8	22/01/09	Integrated management of mealy bugs	PI. Prot.	IPM	1	PF	1	-	-	-	42	-	42	42	-	42	RKVY	
9	22/01/09	Integrated management of mealy bugs	PI. Prot.	IPM	1	PF	1	-	-	-	36	-	36	36	-	36	RKVY	
10	21/03/09	Integrated management of mealy bugs in Cotton	PI. Prot.	IPM	1	PF	1	28	-	28	-	-	-	28	-	28	RKVY	
11	21/03/09	Integrated management of mealy bugs in cotton	PI. Prot.	IPM	1	PF	1	39	-	39	-	-	-	39	-	39	RKVY	
12	04/09/09	Planning for Rabi Veg.	Horti.	Off season vegetables	1	PF	1	-	-	-	36	20	56	36	20	56	RKVY	
13	22/02/09	Scientific cultivation of Groundnut	Ext. Edu.	Cropping Systems	1	FW	1	-	-	-	12	32	44	12	32	44	ATMA	-
14	26/02/09	Scientific cultivation of Okra	Ext. Edu.	Production of low volume & high value crops	1	FW	1	-	-	-	13	50	63	13	50	63	ΑΤΜΑ	-
15	2/03/09 to 6/03/09	Scientific cultivation of Vegetables	Ext. Edu.	Production of low volume & high value crops	5	FW	1	-	-	-	-	28	28	-	28	28	ATMA	-

16	02/03/09	Scientific cultivation of Okra	Ext. Edu.	Production of low volume & high value crops	1	FW	1	-	-	-	-	32	32	-	32	32	ATMA	-
17	03/03/09	Scientific cultivation of Okra	Ext. Edu.	Production of low volume & high value crops	1	FW	1	-	-	-	-	26	26	-	26	26	ΑΤΜΑ	-
18	05/03/09	Scientific cultivation of Okra	Ext. Edu.	Production of low volume & high value crops	1	PF	1	-	-	-	26	40	66	26	40	66	ΑΤΜΑ	-
19	06/03/09	Scientific cultivation of Okra	Ext. Edu.	Production of low volume & high value crops	1	FW	1	-	-	-	-	27	27	-	27	27	ATMA	-
20	18/04/09	Paddy cultivation through "SRI"	Agro.	SRI	1	EF	1	38	-	38	-	-	-	38	-	38	ATMA	-
21	22/03/09 to 28/03/09	Scientific cultivation of Vegetables	Ext. Edu.	Production of low volume & high value crops	7	FW	1	-	-	-	-	40	40	-	40	40	ATMA	-
22	26/03/09	Training for Agricultural equipment	Ext. Edu.	Production of small tools & equipments	1	FW	1	-	-	-	-	49	49	-	49	49	ATMA	-
23	29/03/09 to 04/04/09	Hitech green house	Ext. Edu.	Protective cultivation	7	PF	1	-	-	-	18	-	18	18	-	18	ATMA	-
							Total	201	-	201	261	344	605	462	344	806		13000

	Nature of	Purpose/		Partic					Particip	oants					
SI. No.	Extension	topic and	No. of activities	Farmers (Others) SC/ST (Fail (I) (II) M F T M F				ST (Farm (II)	ers)	Exte	nsion o (III)	fficials	(Grand To (I+II+III)	tal
	Activity	Date		Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
1.	Field Day	Groundnut 02.10.08	1	-	-	-	48	-	48	1	-	1	49	-	49
2.	Field Day	Brinjal 27.11.08	1	-	-	-	28	-	28	2	-	2	30	-	30
3.	Field Day	Cotton (IPM) 30.12.08	1	20	-	20	-	-	-	1	-	1	21	-	21
4.	Field Day	Gram 19.01.09	1	-	-	-	22	17	39	2	-	2	24	17	41
5.	Field Day	Gram 28.01.09	1	-	-	-	25	-	25	2	-	2	27	-	27
6.	Field Day	Okra 24.02.09	1	-	-	-	23	14	37	1	-	1	24	14	38
7.	Field Day	Groundnut (Summer) 01.05.09	1	-	-	-	26	5	31	4	-	4	30	5	35
8.	Field Day	Groundnut (OFT) 01.05.09	1	-	-	-	43	5	48	2	-	2	45	5	50
9.	Field Day	Groundnut (OFT) 06.05.09	1	-	-	-	39	3	42	2	-	2	41	3	44
10.	Field Day	Cotton (IPM) 16.07.09	1	35	-	35	15	-	15	3	-	3	53	-	53
11.	Field Day	Veg. & Pulses 14.09.09	1	-	-	-	8	126	134	8	-	8	16	126	142
12.	Field Day	Paddy, Tur, Brinjal (Summer) 15.09.09	1	-	-	-	32	10	42	2	-	2	34	10	44
13.	Field Day	Soybean 16.09.09	1	-	-	-	14	42	56	2	-	2	16	42	58

3.4. Extension Activities (including activities of FLD programmes)

14.	Field Day	Brinjal, Soybean, Indian Bean 16.09.09	1	-	-	-	47	23	70	2	-	2	49	23	72
15.	Field Day	Cotton 16.09.09	1	60	-	60	-	-	-	8	-	8	68	-	68
16.	Field Day	Kitchen Garden 17.09.09	1	-	-	-	19	51	70	5	-	5	24	51	75
	Total		16	115	-	115	389	296	685	47	-	47	551	296	847
17.	Kisan Mela	Krishi Mahotsav 22-23.05.09	1	273	112	385	-	-	-	5	-	5	278	112	390
18.	Kisan Mela	FTC, Vyara 25-26.05.09	1	55	30	85	815	2100	2915	10	2	12	880	2132	3012
19.	Kisan Mela	Krishi Mahotsav 26-28.05.09	1	650	515	1165	121	284	405	4	-	4	775	799	1574
20.	Kisan Mela	Krishi Mahotsav 30.05.09	1	204	195	399	98	94	192	3	-	3	305	289	594
21.	Kisan Mela	Krishi Mahotsav 1-3.06.09	1	17000	3000	20000	23000	41000	64000	28	10	38	40028	44010	84038
	Total		5	18182	3852	22034	24034	43478	67512	50	12	62	42266	47342	89608
22.	Kisan Ghosthi	Vill. Maypur 25.02.09	-	-	-	-	76	22	98	3	-	3	79	22	101
23.	Exhibition	Krishi Mela, Khedut Din, Krishi Mahotsav	18	21946	6004	27950	33183	51425	84608	67	17	84	55196	57446	112642
24.	Film Show	SHG, Management of Mealy bugs, IPM	12	176	2	178	102	94	196	8	5	13	286	101	387

25.	Method	Seed	3	-	-	-	24	12	36	2	-	2	26	12	38
	Demonstrations	Treatment													
		Use of	3	-	-	-	26	22	48	2	-	2	28	22	50
		Pheromone													
		Trap													
		Root Deeping	2	-	-	-	52	36	88	2	-	2	54	36	90
		treatment of													
		veg.								_					
		Methyl	2	-	-	-	26	-	26	2	-	2	28	-	28
		Eugenol trap			45	45		00	00		0	0		400	400
		Fruits & Veg.	5	-	45	45	-	82	82	-	2	2	-	129	129
		preservation													
	Total		15	-	45	45	128	152	280	8	2	10	136	199	335
26.	Self Help	For Activation	15	-	51	51	-	295	295	-	20	20	-	366	366
	Group	of Existing													
	meetings	Groups													
27.	Lectures	ATMA, FTC,	26	468	36	504	976	1137	2113	28	1	29	1472	1174	2646
	delivered as	Vyara													
	resource														
	persons		05							0		7	0	4	7
28.	Newspaper	KVK activities	35	-	-	-	-	-	-	6	1	1	6	1	1
20	Coverage Dedic tells	Activition for	2							1	1	2	1	1	2
29.	Radio taiks	Tribal Woman	2	-	-	-	-	-	-	I	1	2	I	I	2
		Project													
30.	TV talks	Green House.	8	-	-	-	-	-	-	10	1	11	10	1	11
		Women in	_										_		
		Agril. day,													
		Wadi yojana,													
		Paddy													
		cultivation													
31.	Popular articles	-	71	-	-	-	-	-	-	6	1	7	6	1	7
32.	Extension	Leaflet	20	-	-	-	-	-	-	6	1	7	6	1	7
	Literature	Book on	1	-	-	-	-	-	-	2	-	2	2	-	2
		Vermicompost													

		Bulletin Rice	1	-	-	-	-	-	-	3	-	3	3	-	3
		intensification													
33.	Scientific visit to farmers field	-	127	122	143	265	355	165	520	42	5	47	519	313	832
34.	Farmers visit to KVK	-	556	193	87	280	516	295	811	47	6	53	756	388	1144
35.	Diagnostic visits	-	12	7	2	9	5	1	6	16	-	16	28	3	31
36.	Exposure visits (PF,FW)	Visit at Krishi Mela, NAU, AAU, JAU	10	60	-	60	221	137	358	11	-	11	292	137	429
37.	Ex-trainees Sammelan	For Impact Assessment	4	-	-	-	91	50	141	6	2	8	97	52	149
38.	Animal Health Camp	797 Animals	3	-	-	-	-	-	-	7	-	7	7	-	7
39.	Celebration of Women in Agril. Day	Agriculture, Nutrition and Health 04.12.08	1	-	-	-	8	101	109	5	1	6	13	102	115
40.	Khedut Shibir	Cereals, Pulses, Veg., & other crops	20	210	43	253	1185	902	2087	45	1	46	1440	946	2386
41.	Mahila Shibir	Health & Nutrition, SHG, Women Empowerment, Animal Husbandry	6	13	2	15	65	609	674	14	5	19	92	616	708
42.	Farmers' Meeting	FIG, ATMA, RKVY, FLD	13	14	-	14	348	429	777	8	1	9	370	430	800
43.	Farmers Day	Paddy crop symposium	2	151	22	173	1030	1915	2945	28	5	33	1209	1942	3151
44.	Formation of SHGs	-	4	-	24	24	-	29	29	-	2	2	-	55	55
45.	Telephone Helpline	-	865	186	38	224	512	130	642	6	1	7	704	169	873

46.	Guidance through letter	-	2	2	-	2	-	-	-	2	-	2	4	-	4
47.	Celebration of Technology Week	14.09.09 to 20.09.09 Khedut shibir, Mahila shibir, Ani.Hus. Shibir, Field day, Farmers day, Cotton Day, Agril. Exhibition	11	349	-	349	739	803	1542	51	2	53	1139	805	1944
48.	Scientist Farmers Interaction	-	1	-	-	-	350	680	1030	5	1	6	355	681	1036
49.	Formation of FIG	-	1	-	-	-	43	-	43	2	-	2	45	-	45
50.	FLD visit	-	18	7	-	7	62	56	118	27	3	30	96	59	155
	Grand To	tal	1901	42201	10351	52552	64418	103201	167619	567	97	664	107186	113649	220835

3.5 **Production and supply of Technological products**

SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Paddy	Jaya	25	38680	89

SUMMARY

Sr. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	25	38680	89
	TOTAL	25	38680	89

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Mango	Kesar	800	36000	56
	Mango	Dasheri	200	9000	13
SPICES	Onion	White Onion	75425	10304	22
	Chilli	G-4	19800	2970	8
VEGETABLES	Brinjal	Surti Ravaiya	377720	56763	64
	Cauliflower	Mahalaxmi	28750	5363	16
	Cabbage	Early Kuwari	2450	368	5
	Tomato	S-22	7770	1183	9
	Drumstick	BKM-1	213	2130	62
	Bitter Gourd	Hybrid	70	140	35
	Bottle Gourd	Hybrid	70	140	35
	Ridge Gourd	Hybrid	70	140	35

SUMMARY

SI. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	1000	45000	69
2	VEGETABLES	417113	66227	261
3	SPICES	95225	13274	30
	TOTAL	513338	124501	360

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

(A) KVK News Letter :- --Nil-

(B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers	Judgment of the farmers regarding use of Internet technology in changing Agricultural scenario in India	Dr. N. M. Chauhan	Not applicable
	Decision making pattern of Tribal farm women in changing Agri-rural environment	Dr. N. M. Chauhan	Not applicable
	Contribution of the Tribal farm women in crop husbandry in changing scenario of Agri-rural environment	Dr. N. M. Chauhan	Not applicable
	Technique to measure Computer Nervousness amongst the students of Agriculture college	Dr. N. M. Chauhan	Not applicable
	Farmers prospects about Community Internet center(CIC) at village level	Dr. N. M. Chauhan	Not applicable
	Krishi Mahotsav–2007 a new TOT tools in Gujarat at village level (Published in 3 journals)	Dr. N. M. Chauhan	Not applicable
	Opinions and expectations of the farmers towards ICT in Agriculture at village level	Dr. N. M. Chauhan	Not applicable
	Velda village : A success story	Dr. J. J. Pastagia & Dr. N. M. Chauhan	Not applicable
	Modus operandi to measure computer nervousness amongst the students of agriculture college	Dr. N. M. Chauhan & Dr. N. B. Chuahan	Not applicable
	Decision making in tribal farm women with participatery approach	Dr. N. M. Chauhan & Dr. N. B. Chuahan	Not applicable
	Crop husbandry with participation of the tribal farm women	Dr. N. M. Chauhan & Dr. N. B. Chuahan	Not applicable
	Participation of the tribal farm women in Animal husbandry	Dr. N. M. Chauhan & Dr. N. B. Chuahan	Not applicable
	Computer jumpiness among Agricultural student	Dr. N. M. Chauhan & Dr. N. B. Chuahan	Not applicable

	Information needs of the Rice growers with participatory	Dr. N. M. Chauhan &	Not applicable
	extension management.	Dr. N. B. Chuahan	
	Prospects of the farmers towards ICT in agriculture at	Dr. N. M. Chauhan &	Not applicable
	village level	Dr. N. B. Chuahan	
	Expectations and Opinions of the farmers towards ICT in	Dr. N. M. Chauhan	Not applicable
	agriculture at village level		
	Information needs of the rice growers for sustainable	Dr. N. M. Chauhan	Not applicable
	agriculture development		
	Information seeking behavior of the rice growers.	Dr. N. M. Chauhan	Not applicable
	Socio-economic change in rural tribal women through self	Arti N. Soni	Not applicable
	help groups.		
Total	20		
Technical reports	MPR, QPR, SAC report, FLD report, AAP, APR, MER,	PC & All SMS	-
	AGRESCO, ZREAC report		
Popular articles	List of articles given in Annexure – V	PC & All SMS	72
Leaflets/folders	Krishi Vigyan Kendra	-	1000
	Krishi Vigyan Kendra (Colorful)	-	2000
	Low cost green house	Shri B. M. Tandel &	1000
		Dr. N. M. Chauhan	
	Mashroom cultivation	Dr. J. J. Pastagia &	1000
		Dr. N. M. Chauhan	
	Integrated pest management in Sugarcane	Dr. J. J. Pastagia &	1000
		Dr. N. M. Chauhan	
	Mango grafting selection & planting	Shri B. M. Tandel &	1000
		Dr. N. M. Chauhan	
	Scientific cultivation of Okra	Shri B. M. Tandel &	2000
		Dr. N. M. Chauhan	
	Scientific cultivation of Soybean	Dr. H. M. Virdia &	2000
		Dr. N. M. Chauhan	
	SRI method used in Paddy	Dr. H. M. Virdia &	1000
		Dr. N. M. Chauhan	
	Integrated diseases management in paddy	Dr. J. J. Pastagia &	1000
		Dr. N. M. Chauhan	

	High Income generating crop : cultivation of Watermelon	Shri B. M. Tandel &	1000
	Cleaned milk production	Dr. J. M. Chauhan Dr. J. M. Patel & Dr. N. M. Chauhan	1000
	Criteria for selection of dairy animals	Dr. J. M. Patel & Dr. N. M. Chauhan	1000
	Importance of Mineral mixture in animal feed	Dr. J. M. Patel & Dr. N. M. Chauhan	1000
	Scientific method of calf rearing	Dr. J. M. Patel & Dr. N. M. Chauhan	1000
	Some important suggestions for profitable animal husbandry	Dr. J. M. Patel & Dr. N. M. Chauhan	1000
	Method of Bio-compost	Dr. H. M. Virdia & Dr. N. M. Chauhan	1000
	Formation of Self Help Groups & its important	Arti N. Soni & Dr. N. M. Chauhan	2000
	To provide balance diet for maintain milk production	Dr. J. M. Patel & Dr. N. M. Chauhan	1000
	Value addition – an indispensable concept in agriculture	Dr. N. M. Chauhan	2000
Total	21		25000

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	DVD	KVK in the service of Tribal People	2

3.7. Success Stories :

3.7.1 <u>KVK for Reaching the Unreached- A Success study.</u> (Accepted in Indian Farming)

The village Chakra is a tribal dominated village with 99% per cent tribal population, situated in Umarpada block of Surat district. It is located 18 km away from block place, 180 km from district place and 75 km from Krishi Vigyan Kendra, NAU, Vyara. The total population of the village is around 1300 with 650 male and 450 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. **Rajubhai Vasava** is a **sarpanch** of village. **Kamleshbhai Patel** is a **Talati** while **Thakarbhai** is serving as **VLW**.

The main crops of the village are drilled Paddy, Cotton, Groundnut, Tur and Vegetables in *kharif* while Wheat, Chickpea and Maize in *rabi*. One co-operative society is working in village which helps the farmers for marketing of their agricultural products.

In the year 2007, KVK, Vyara has adopted the village Chakra for its intensive activities of Transfer of Technologies related to agriculture for increasing agricultural production there by raise the standard of living of farmers. The entry point visit was made by team of Subject Matter Specialist of KVK, Vyara. To find out the technological adoption gap as well as to identify the thrust areas for the village, a PRA was made.

During PRA, interacting with farmers, it was found that there is an ample scope for short duration orchard / horticultural crop which will give higher net return with limited irrigation facility.

Considering the situation, dialogues with farmers, the Subject Matter Specialist (Horticulture) has suggested cultivation of hybrid Papaya to the farmers. A group of interested farmers were invited to KVK, Vyara and they were given On Campus training in which detailed emphasis was given to cultivation of Papaya, economic use of irrigation water, post harvest technology, value addition, marketing and ways to produce quality products through video show & power point presentations. The farmers were also motivated to visit the papaya orchards and interact with papaya growers of South Gujarat area.

Among trained farmers, **Mr. Alpeshbhai Kashinathbhai Patel**, a resident of Chakra is a school drop out after ninth standard and presently involved in farming took keen interest in Papaya cultivation. He has two brothers and both of them are working in private company. His father, Kashinathbhai is also a farmer and engaged in farming for last 25 years. He is migrated Chakra from Maharashtra. He has 13 acres of cultivated land. Previously, due to lack of irrigation facility they had to depend on rainfall and were able to cultivate sorghum and maize in *kharif* and wheat and gram in *rabi* on conserved soil moisture. From all the available resources, he was able to earn **net return of** only **Rs. 25000**.

With availability of irrigation water through tube well, for 4 acres of land led him cultivation of irrigated wheat and gram in initial years, then he started cultivation of chilli and brinjal as that has been grown successfully by farmers of neighboring state, Maharashtra. By cultivating chilli and brinjal he was able to earn **40-45 thousands** from 4 acres of land.

As a school drop out Mr. Alpeshbhai had no option other than farming for his livelihood. He has taken interest in his farming. He was eager to know incredible newer developments in agriculture. He has great impatience and curiosity to know recent innovations in agriculture. But as he is residing at remote place, he was unable to get latest information regarding development in agriculture. He was in search of an organization which can cater his need for newer technologies in the field of agriculture.

Fortunately, **KVK** has adopted **Chakara as a satellite village** and during training, he came in contact with KVK scientist and he has been innovated to cultivate hybrid papaya. He made repeated interaction with KVK scientist. The Subject Matter Specialist (Horticulture) **Mr. B. M. Tandel** suggested him to go for drip irrigation for an economic use of available irrigation water. As an innovated farmer, he immediately accepted the idea given by KVK scientist and installed drip irrigation system in nine acres of land. He has taken advantage of subsidy on drip system by Government of Gujarat.

As he decided to go for cultivation of hybrid papaya, he has been provided with detailed information on land preparation, purchase of papaya seedlings to the marketing by SMS (Horticulture).

He planted papaya in month of April. As he has limited water, he managed to irrigate newly planted papaya by digging a small pond near bore well lined with plastic. He stored the water pumped through 1 HP electric motor during whole day in the pond. The collected water then was utilized through drip system and was able to survive young plantlets in summer. During cultivation of papaya, he was in constant touch with KVK scientist for any doubts. The KVK scientists had made frequent visits to his field and guided him accordingly for plant protection, fertilizer application and other operations.

Due to adoption of scientific approach in papaya cultivation he obtained a bumper yield of papaya. He received total income of **Rs. 2.5 Lakhs** from 2 acres of land. The total cost of cultivation was **Rs. 50000** *I*-.The net profits was **Rs. 2.00 lakhs**. This led him higher income and also raised his standard of living with better social status. Previously he had to borrow money from others for his social expenses. At present he is in a position to land money to others. Cultivation of good quality papaya attracted the merchants towards Chakra village and made an annual contract for papaya purchasing. The traders them selves harvested papaya and sent to the Delhi and Northern part of the country. The farmers of near by area also visited his farm frequently for papaya cultivation and guidance.

Now, Mr. Alpeshbhai is become an **innovator** for other farmers for papaya cultivation in the region. Under his guidance total **23 farmers** having irrigation facility started papaya cultivation in same village. He has also adopted intercropping of papaya in mango orchards.

The world is shifting very rapidly and agriculture is not an exception of it. Technologies of today become outdated tomorrow. People are enthusiastic and become more anxietious to know what is happening around him in the field of agriculture for acclimatization with changing scenario of agriculture at global level and to compete with open global market. People want exact, quick, authentic and cheap information regarding their agriculture day to day. To disseminate agricultural technology quickly at grass root the KVK is the best institute. It is mainly engaged with Technology Generation, Technology assessment, Technology evaluation and Technology dissemination in the field of agricultural extension. No institution is competing with KVK if it is functioning as per the mandate given to them by ICAR. The next phase of green revolution can only be possible by effective Transfer of agricultural Technologies from source to sink, lab to land and from research system to the farming system. In that line we can say confidently that this KVK is functioning successfully for the effective TOT at village level. For that the dynamic and visionary leadership of the university, enthusiastic and highly qualified staff of the KVK and better response of the farming community itself is responsible. If this situation will sustain alive, KVK will be a MODEL FOR ZONE IN TOT SYSTEM.

Implications:-

This success story will be a guideline for other extension workers to perform better in their field. It leads toward effectively, efficiently, as well as result and impact oriented work in the field of Agricultural extension. This is a mile stone work for the effective TOT in the Tribal dominated interior region of the south Gujarat. It will be eye opening for disseminating any recently released innovative agricultural technology successfully among illiterate and poor participants. At the outset of the concluding we can say KVK Vyara is becoming really an **information hub** for farming communities. Our efforts are to make this KVK Farmers friendly, farmers centric, farmers leading and the overall agricultural development on sustainable basis. Precision farming and Eco friendly development of the region is our prime Motto. The **Research-Extension-Farmer-Market** Linkage Extension approach is a current need of the time to get better agricultural output. The **next phase of Green Revolution** can only be possible through integration of all above said approaches.

A popular demand from different villages to arrange the programme at their villages by KVK is the testimony of the important role of the KVK in their development in general and agriculture particular quiet well. We all have to run on **information super highway**. May I request you to make a **KVK e-linked**?

3.7.2 <u>VELDA-IPM VILLAGE, A SUCCESS STORY</u> (Printed in Kisan World)

The village Velda is situated in Nizar block of Tapi district. It is located 5 km from block place, 105 km from district place and Krishi Vigyan Kendra headquarter, Vyara. The total population of village is around 8008 with 4019 male and 3989 female. Considering caste wise distribution, maximum population is of schedule caste (4528) followed by schedule tribe (3645), OBC (902) and general / others (2206), clearly indicating dominance of SC and ST. The total area of village is 2396 ha. out of which net cultivable area is 1730 ha. (72%). Nearly 50 per cent cultivated land having irrigation facility which is mostly irrigated through tube well and water lifted from the river Tapi. Limjibhai Padvi is a surpanch, Kashinathbhai Patel is a Talati while Chhotalal Gorakh is working as VLW in the village. The Nizer block of Tapi district is far away from district place as well as from NAU research station, therefore it is the most neglected block and up till now no any extension agency is available to cater the need of farmers regarding agricultural technology.

The main crops of the village are Cotton, Chilli, Tur in *Kharif* and Wheat, Chickpea, Sugarcane and gram in *Rabi*. One agricultural co-operative and milk co-operative are functioning in the village, helping the farmers for marketing of their products.

Cotton is an important cash crop and plays an important role in **Indian economy.** In Gujarat cotton is grown in about 16 lakh ha area. Cotton is highly susceptible to several pests. About 166 different species of pests and diseases are reported to attack cotton at various stages of its growth. Amongst these, the cotton bollworm *Helicoverpa armigera*, the white fly *Bemisia tabaci*, Jassids, *Amrasca biguttula biguttula* and the pink bollworm *Pectinophora gossypiella* have been causing economic damage to cotton crop all over the country. With introduction of Bt cotton, the incidence of sucking pests *viz.*, Jassids, Thrips, whiteflies, mealy bugs, mites *etc.* has increased tremendously. Increased use of pesticides resulted in several sour effects like development of resistance in insect pests to insecticides, pest resurgence, pesticides residues, health hazards, destruction of natural fauna, ecological disturbances and environmental pollution, besides increased cost of production.

In the year 2007, **KVK**, **Vyara** has adopted village **Velda** as a **Satellite village** for its intensive activities of Transfer of Technologies related to agriculture for increasing agricultural production there by raising standard of living of the farmers.

The entry point visit to the village was made by the team of Subject Matter Specialists. To find out the technological adoption gaps and to identify the thrust areas for the agricultural development, a PRA was made. During PRA, interacting with the farmers it was found that the farmers were unable to manage the insect pests and diseases even though applying higher doses of insecticides in mixtures. One of the major thrust area identified as reduce the load of pesticide in cotton ecosystem through Integrated Pest Management. The farmers were spending huge amount for the pest management. Even with the adoption of Bt-cotton, farmers were frustrated with cotton cultivation as they were unable to manage the pests. As no extension agency was targeting these farmers, they had to rely on private pesticides dealers. The over loaded use of pesticides has resulted in degradation of soil, water and environment. It also affected the quality of Cotton.

Considering the situation and dialogues with farmers, Subject Matter Specialist (Plant-Protection) suggested implementation of Integrated Pest Management in Cotton and the training as well as demonstrations on IPM were the need of village for profitable cultivation of cotton. The interested farmers were given on campus as well as off campus training with special emphasis on identification of insect pests and diseases of cotton, components of IPM, bio-control, use of pesticides on threshold level, use of neem based pesticides, economic use of irrigation water, ways to produce quality products, etc. through video show and power point presentations. The farmers were also motivated to visit and interact with the farmers who have adopted this technology.

Fortunately, with financial assistance under Cotton Technology Mission from Main Cotton Research Station, NAU, Surat, KVK Vyara was able to give demonstrations in 100 ha. [50 ha. in the year 2007-08 and 50 ha. in the year 2008-09] benefiting 83 farmers. The detailed components of IPM were demonstrated, constant follow up visits, Ex trainee visits, sammelans, field days, farmers days and other extension activities have been concentrated. Initially, farmers were hesitating in adopting need based application of single pesticides and other IPM component but with constant encouragement, KVK scientists are successful in building up confidence in them. The major achievement of the demonstrations is that farmers were successful in keeping off the mealy bug incidence from their field with the advanced guidance provided by KVK scientists. The farmers from neighboring villages were also attracted and associated with the KVK for adopting their village under IPM scheme. *The Velda village is now became a model for IPM in the Block*. The surrounding villages *Viz.*, Sarwala, Adada, Khorda, Vanka, Chichoda, Devala, Pisavar, Vyaval, Piplod, Nizer and many more villages are in a cylinder for adopting IPM in conton. The total IPM aids costing **Rs.-68000**, were supplied to them on free of cost. The constant follow up and monitoring of the IPM practices made them habitant with IPM practices and whole villagers are flattering conversant regarding *sour results of the agro chemicals in relation to soil, water, environment and health point of view.*

Initially, total 12 innovated farmers were trained for the same. Among them , the trained farmers *viz* :- Mr. Prahladbhai Jaganbhai, Patel, Pareshbhai, Ishvarbhai, Sureshbhai, Kashinathbhai, Bhupendrabhai and Vinodbhai Patel residing at Velda village are working as a resource person for whole village as well as surrounding villages. This year IPM kits along with Maize (Sweet corn) seed, Castor seed and Biocontrol aids will be given to 10 selected villages and constant follow up will be maintained by KVK scientists and at grand growth period of the crop a big farmers day will be arranged including dignitaries of the NAU: Hon. Vice Chancellor, Director of Extension Education, State department of the agriculture and all GOs, /NGOs of the region. Simultaneously the farmer shibir on IPM will be conducted for mass multiplication of the IPM messages.

 Table-1 : Comparison of economics of IPM demonstration plot and control plot in cotton crop.

Particulars	IPM Demonstration Plot	Control Plot (Non IPM Plot)
Number of spray	5	9
Cost of Plant Protection (Rs/ha)	4500	7500
Average Yield (Qt/ha)	31.36	21.08
Income from maize crop(Grown as inter crop), (Rs/ha)	2000.00	00
Gross income	89808.00	58800.00

(Rs/ha)		
Net profit (Rs/ha)	85308.00	51300.00

Table-2: Adoption of IPM Technology	N	=100
Characteristics	Number	Percentage
Overall knowledge level		
Low	10	10.00
Medium	75	75.00
High	15	15.00
Total	100	100.00
Head wise knowledge Level		
Cultural practices		
Low	15	15.00
Medium	60	60.00
High	25	25.00
Total	100	100.00
Mechanical practices		
Low	17	17.00
Medium	68	68.00
High	15	15.00
Total	100	100.00
Biological practices		
Low	20	20.00
Medium	55	55.00
High	25	25.00
Total	100	100.00

Conclusion:

IPM is a full fledged technology which not only reduces the cost of plant protection, but also promises higher yield. IPM also helps in reducing the pesticide use and thus, prevents/delays development of pesticide resistance, reduces residues in soil, water, food and definite role in the prevention of environment imbalance. Majority of the respondents gained medium level of the overall knowledge and adopted cultural, mechanical and biological practices for pest control. The adoption of IPM in cotton, the total income of the farmers has been increased by **66%** and the cost of cultivation decreased to the tune of **40 %(Table-1**). The knowledge level of the farmers regarding IPM in cotton has increased (**Table-2**). This may be due to the proper guidance given by KVK scientists, Demonstrations and constant follow up by KVK missionary.

Implication: The study has acknowledged the knowledge level of the cotton growers towards IPM technology. This story can be guideline for other extension worker to implement this way of extension technology for their clients on IPM .On this foundation the extension personnel may locate clients for training and also those who can be used as

counselors to other farmers. The study is also useful for effective propagation of the IPM technology in other regions for eco friendly and sustainable agricultural development.

3.7.3 Replacement of the Pigeon pea variety through FLD, a success story

(Accepted in NAU Spectrum)

Introduction:

Agriculture is the strength of the country and seed is the back bone of crop production. Among all the agricultural inputs, only seed had inbuilt potential, where as other inputs like nutrients, irrigation and plant protection chemicals, contribute to the production potential of the seed. If potential of the seed is poor, optimum yield is not possible in spite of judicious use of inputs. Research findings reveal that 10-12 percent increase in yield is attributed to good quality seed. Pigeon pea (Tur) is the main pulse crop in south Gujarat. Tribal belt is preferring tur as a main leguminous food in their daily diet.

Profile of the village:

The village Gatadi is situated in Songadh block of Tapi district. It is located 24 km from block place, 17 km from district place cum Krishi Vigyan Kendra, Vyara. The total population of village is around 650 with 335 male and 315 female. Considering caste wise distribution, cent per cent population is of Schedule Tribe (650), clearly indicating dominance of ST.

The total area of village is 230.95 ha, out of which net cultivable area is 194.30 ha,(84%). Nearly 40 per cent cultivated land having irrigation facility which is mostly irrigated through tube well, well, water lifted from the river and check dams. **Amrutbhai Gamit** is a surpanch, **Aknathbhai Chaudhary** is a Talati, while **Ganpatbhai** is working as VLW in the village. The Gatadi village of Tapi district is tribal dominated and it is the most neglected village and up till now no any extension agency is available to cater the need of farmers regarding agricultural technology.

The main crops of the village are paddy, sorghum and tur in *Kharif* and Sugarcane, vegetables and gram in *Rabi*. A small pocket of the village is covered under groundnut in summer. Only milk co-operative is functioning in the village, helping the farmers for marketing of their livestock products.

Tur is an important pulse crop and plays an important role in **improvement of the** soil through improving soil microbial activities. In Gujarat tur is grown about 2651 ha

with production 2942 in year 2007-08 kharif. Among this Surat district covers 326 ha under tur crop.

In the year 2007, **KVK, Vyara** has adopted village **Gatadi** as a **Satellite village** for its intensive activities of Transfer of Technologies related to agriculture for increasing agricultural production there by raising standard of living of the farmers.

The entry point visit to the village was made by the team of Subject Matter Specialists. To find out the technological adoption gaps and to identify the thrust areas for the agricultural development, a PRA was made. During PRA, interacting with the farmers it was found that the farmers were unable to harvest the tur crop due to unavailability as well as no knowledge regarding improved varieties of the Tur. Sowing of local varieties with high seed rate on flat bed without knowing scientific cultivation practices of tur. One of the major thrust areas identified as to introduce the high yielding early variety of the tur in the village. Even though using higher seed rate, farmers were frustrated with tur cultivation as they were unable to get better yield from the Tur. As no extension agency was targeting these farmers, they had to rely on private traders for seed. The traditional cultivation of crops makes agriculture costly but they did not get the remunerative yield from the pigeon pea crop.

Considering the situation and dialogues with farmers, Subject Matter Specialists (Agronomy, Horticulture) suggested implementation of land configuration and INM in tur with introduction of the high yielding variety .The training as well as demonstrations on high yielding early variety of the tur Vaishali was the need of village for profitable cultivation of Tur. The interested farmers were given on campus as well as off campus training with special emphasis on identification of insect- pests and diseases of tur, components of INM, economic use of irrigation water, ways to produce quality products, etc. through video show and power point presentations. The farmers were also aggravated to visit and interact with the farmers who have adopted this technology.

Fortunately, with financial assistance of the ICAR under National Pulse Development Scheme, KVK Vyara was able to give demonstrations of Vaishali variety FLD in 10 ha. [5 ha. in the year 2007-08 and 5 ha. in the year 2008-09] benefiting **19 farmers** of the Gadat, Gatadi and champawadi villages of Songadh block during 2007-08 and **26 farmers** of the Gadat, Gatadi, Bhitkhurd and Bhitbudrak villages in year 2008-09. New Pigeon pea variety **"Vaishali"** along with INM & land configuration was demonstrated, constant follow up visits, ex trainee visits, khedut and mahila Sammelans, field days, farmer's days and other extension activities have been concentrated. Initially, farmers were vacillating in adopting newly released variety of the pigeon pea and land configuration but with constant encouragement, KVK scientists are successful in building up confidence in them. The major achievement of the demonstrations is that farmers were booming in getting higher production of the tur. The advanced guidance provided by KVK scientists. The farmers from neighboring villages were also attracted and associated with the KVK for adopting their *village under FLD scheme*. Based on two main pillars of the extension education" **Seeing is Believing**" and "**Learning by Doing**", the idea was spread and the adoption was increased to the remarkable level.

The farmers of such villages had sold the green pods of the pigeon pea as well as also harvested seed from the demonstrated variety. The farmers were able to get a net profit of **Rs.50**, **000/ha**. The increase in yield was to the tune of **33-68%**; the field days were organized at demonstrated plots and got wide publicity of the new variety. The farmers from the neighboring villages were also attracted towards new variety of the tur and demanded for seed of the Vaishali variety. The spread of the said variety was in surrounding villages and the FLD villages were became **seed centres** for the same. Next year the same FLD was taken in surrounding villages and the whole cluster had been shifted from conventional variety to the Vaishali variety. The replacement of the seed was-15%. The crop was ready earlier up to the tune of 2-3 months as compared with conventional varieties. Farmers were able to take a next crop after tur on same piece of the land. As, it was matured earlier than traditional varieties by 45-60 days. The feed back from the farmers were collected and the results had been analyzed and presented in the following Tables.

The Gatadi village is now became a model for Vaishali variety in the Block. The surrounding villages of Songadh, Vyara and Uchchhal taluka had also adopted vaishali to the tune of 22% and many more villages are in a cylinder for adopting Vaishali variety of the tur. The total seed of the said variety was supplied to them on free of cost. The constant follow up and monitoring of the package of practices made them habitant with scientific cultivation of the tur. The whole villagers are flattering conversant regarding better results of the new variety in relation to yield, income, soil, water, environment and health point of view.

Initially, total 6 innovated farmers were trained for the same. Among them , the trained farmers *viz* :- Mr. Maganbhai Gamit, Girishbhai Gamit, Rakeshbhai Gamit, Vineshbhai Chaudhari, Thakorbhai Gamit and Panjibhai Gamit residing at Gatadi village are working as a resource persons for whole village as well as surrounding villages. Last year the seed produced by those villagers were sold to other farmers of the region and they were able to get higher price of the seed as compared with market saling. The

same variety will be given to 10 selected villages and constant follow up will be maintained by KVK scientists and at grand growth period of the crop a big farmers day will be arranged including dignitaries of the NAU: Hon. Vice Chancellor, Director of Extension Education, State department of the agriculture and all GOs, /NGOs of the region. Simultaneously the big farmer's day on Tur will be conducted for mass multiplication of the advantages of the Vaishali variety and our sincere efforts will be towards whole block conversion in to seed block for Vaishali variety within 2-3 years.

Subject	Title of the trainings	Duration	No. of participants		
-	C C	(Days)		Female	Total
Crop production	Oil seeds & pulse production technology	2	49	36	85
•	Importance of bio fertilizer in oilseeds & pulses crop.	1	18	-	18
	Land preparation for major crops of the area.	1	34	50	84
	Improved production technology for pigeon pea cultivation	2	22	0	22
	FLD training on Tur	1			
	Integrated weed management in Tur	1	34	0	34
	Important post sowing/ plant agro technologies for more return in kharif crop.	1	21	17	38
	Package of practices of major kharif crop	2	28	23	52
	Importance of land preparation for kharif crop	1	0	19	19

Table-1: Training programmes organized on tur production.

Table-2 Comparison of economics of Vaishali demonstration plot and control plot in tur crop.

Sr.No.	Name of The village	Yield(Qt/ha) Demon.	Yield(Qt/ha) Local Cheque	Increase in yield (%)	Net profit (Rs/ha) Demon.	Net profit (Rs/ha) Localcheque.
1	Year Khari 20	07				
	Gatadi &	8.84	6.62	33.5	10609	7332
	Champawadi					
2	Year Kharif 2	008				
	Gatadi	12.48	7.40	68	46538	26600
	Gadat					
	Bhitkhurd					
	Bhitbudrak					

Price-Pigeon pea grain (2007)-Rs.12/kg grain.

Pigeon pea grain (2008)-Rs.40/kg grain.

	Table-3	Adoption	of	Vaishali	variety
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N=100

Characteristics	Number	Percentage
Overall knowledge level		
Low	11	11.00
Medium	74	74.00
High	15	15.00
Total	100	100.00
Head wise knowledge Level		
Cultural practices		
Low	15	15.00
Medium	61	61.00
High	24	24.00
Total	100	100.00
Fertilizer Management		
Low	15	15.00
Medium	70	70.00
High	15	15.00
Total	100	100.00
Irrigation management		
Low	20	20.00
Medium	57	57.00
High	23	23.00
Total	100	100.00
Marketing of Green pod		
Low	22	22.00
Medium	55	55.00
High	23	23.00
Total	100	100.00

Farmer's reactions:

- 1. Vaishali variety is better than habitual/local cultivars in the villages.
- 2. Variety is suitable for vegetable as well as for grain/seeds.
- 3. During the year 2008 only this variety gave substantial yield in this region, all other traditional varieties failed at all.
- 4. Sowing on ridges allowed all plants to stay alive and produce even in high rainfall area successfully.
- 5. Vaishali variety gave good economic returns as compared with traditional varieties grown in the province.
- 6. INM including recommended dose of fertilizers (RDF) +FYM + Rhizobium inoculation) crop was found better than only use chemical fertilizer.
- 7. Seed production along with green pod marketing gave higher net homecoming as compared with only grain production.
- 8. No menace against failure of the crop due to early maturing and less pest attacks at maturity stage, due to short duration variety.

Conclusion:

Higher yielding and improved varieties is the one of the most important component to get higher yield in agriculture crop production machinery, which technology promises higher yield. INM & land configuration also helps in improving yield. Majority of the respondents gained medium level of the overall knowledge and adopted all cultural practices of the tur production, the knowledge level of the farmers regarding scientific cultivation of tur was increased remarkably, (**Table-4**). This may be due to the proper guidance given by KVK scientists, Demonstrations and constant follow up by KVK missionary. The yield was increased to the tune of **33-68% and the net profit was increased to the tune of 30.68%.**

Implication: The study has acknowledged the knowledge level of the tur growers towards improved technology. This story can be guideline for other extension worker to implement this way of extension technology for their clients. On this groundwork the extension personnel may locate clients for training and also those who can be used as counselors to other farmers. The study is also useful for effective propagation of the improved technology in other regions for eco friendly and sustainable agricultural development.

Suggestions :- Based on this study we can suggest our other extension workers as well as to the policy makers to take a keen interest in the matter and do needful for great publicity of such technologies in their respective areas of working for successful journey towards next phase of Green Revolution on sustainable basis. This study is also eye opening for the persons working in the field of extension education. This thing looks like diminutive but its impact is of great magnitude.

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3.7.4 Replacement of drilled paddy through high recurring Soybean crops in tribal belt of South Gujarat, a success story. (Printed in NAU Spectrum)

Introduction

Traditional agriculture characterized with age old cropping system with an aim to fulfill need of the family. Most of the tribal areas of the country, including our state have a similar trend of living. They live in nature and find their livelihood from nature. They are doing agriculture, but these abscond on god's blessings. The eastern tribal hilly region of South Gujarat including Tapi, Surat and Dang districts, they cultivate their land during *kharif* season only. The rainfed crops grown by these tribal farmers are drilled paddy, sorghum, pigeon pea and other pulses either single crop, mixed or intercrops. They grow paddy to fulfill food need of the family as rice is the staple food of this people.

Profile of the Village

The village Gadat is situated in Vyara block of Tapi district. It is situated on Vyara -Vansda state road, nearly 17 km from Vyara town. Vyara is a district head quarter of Tapi district where this Krishi Vigyan Kendra is situated. The village is divided in 14 faliyas. The total population of village is around **4546** with **2344** male and **2202** female. This village is tribal dominated except few family of kotwalia. The total area of village is 1174 ha out of which net cultivated area is1127 ha (95%). Nearly 250 ha i.e.**21%** cultivated land having irrigation facility which is mostly irrigated through tube wells, wells and water lifted from the natural water Ravines. Abhesingbhai Gamit is a Sarpanch, B.N. Solanki is a Talati and Girishbhai Chaudhary is working as VLWin the village. The agriculture of this tribal village is longstanding, still today they grow traditional paddy varieties like Tichun (T.N-1), Dodiu, Dhanhar, Sathi, kada,Kalitapki, etc.age old varieties.

In the year 2007, KVK Vyara has adopted village Gadat as a satellite village for its intensive activities of Transfer of Technologies (**TOTs**) related to agriculture for increasing agricultural production and net return to improve over all living standard of villagers.

Initially the entry point visit was made to villagers by team of Subject Matter specialist (SMSs). To find out the technological adoption gaps and to identify the thrust areas for the agricultural development, a PRA was made. During PRA survey of the village, interacting with the farmers it was found that the farmers were unable to get economical homecoming from their land holdings. As they grow drill paddy with old varieties, which is having very low yielding capacity. Further, this rain fed drilled paddy anguish with poor field management such as high seed rate, improper spacing, imbalance
use of fertilizer, no use of organic matter, high weed infestation, unavailability/poor facilities of lifesaving irrigation at critical crop growth stages. All these factors collectively resulted in uneconomical agriculture of the village. The farmers of this tribal belt were unable toward adopting new ideas / technologies /crops and recent innovations in agriculture. So, some time they left their field without crop for a year or more. As no external help, information was reach to the farmers they were frustrated with agriculture. This was resulted in migration for livelihood security as well as decreasing interest of the rural youth towards modern high-tech agriculture.

Considering the situation and with frequent, live contacts as well as discussion with farmers. Subject Matter Specialists (Agronomy, Horticulture) of KVK suggested replacing drill paddy with another more remunerative economical crop. The survey of possible other alternate crops and their marketing facilities in the region, it was decided to replace drill paddy with introduction of soybean crop. Soybean is a pulse cum oil seed crops, have good yield in hilly region of nearby area, soil improvement through increasing microbial activities in the soil and have been easily sold and purchased in APMC, Vyara as soybean is becoming an important food crop day by day. This crop has immense capacity to improve soil condition by adding huge amount of organics in the form of leaves and deep tap root systems, *Rhizobium* bacterial activity. Further, Soybean has fast growing system create smoothering effect on weeds by early covering on land surface.

KVK scientists had selected few interested young farmers and invited them to KVK for detail discussion about *replacement of drill paddy with soybean crop*. The detail package of practices of new introducing Soybean crop was taught to them. The trainings (ON/OFF campus) total **11**, (Table-1), including scientific package of practices, Integrated management of pest & diseases, PHT, Value addition, economic importance of soybean was given to them by KVK scientists. The detail training was given to them based on two main pillars of extension education, "Seeing is Believing" and "Learning by Doing" with power point presentation along with constant follow up time by time. After successful training and change in mindset of farmers for soybean, this new crop was introduced under FLD Oilseed of soybean variety Gujarat Soybean-2 (G.S-2) on 5.0 ha area of the village covering 14 beneficiaries, **Table-2**. Through out the crop season constant visit of FLD plots were made and required information provided to them for successful soybean cultivation. At maturity stage of the soybean Field days were also organized on soybean demonstration plots for mass dissemination of the demonstrated technology. The feed back were collected from the FLD farmers to generate production data as well as to collect the reaction of the farmers. The same FLD was again conducted on 5.00 ha land during

the year 2008, covering 29 farmers to check the consistency of the results. Again training, visit, follow up visit and field days were organized to popularize this challenging new crop in consign of **low yielding drilled paddy, Table-4**.

Initially, farmers were wavering in adopting new crops, but with constant encouragement, KVK scientists are successful in replacement of this crop. The major achievement of the demonstration is that farmers them self realize the economic yield of soybean and its positive effect on **soil health**.

The soybean growing farmers came forward with open dialogue that, they got higher net return from soybean crop as compared with drilled paddy. In addition to that, one more opinion as per their perception that there is labour saving in soybean cultivation due to less weeds, less fertilizer, disease, pest and equipment management. They also opinioned that soybean crop improves soil condition. Hence, next crop in the same field in succession is also performs well without much investment on fertilizer due to soil enrichment through soil microbial activities. The farmers were able to get more net return than drilled paddy. The increase in income over drilled paddy was **Rs.17-20 thousands** per hectare. The net profit was increased up to the tune of **58.00 per cent(Table-3)** on average of two years. Further, KVK scientists also informed to use soybean in daily diet as protein supplement. Now they started to use this golden bean in their daily diet. This year about 35 per cent of the villagers will be adopting soybean instead of drill paddy.

Conclusion: - The soybean cultivation is highly profitable in tribal dominated areas of the Surat and Tapi district. This crop is also advisable to the farmers for improvement of the soil physical, chemical and biological health. The human health point of view this crop is highly advisable to the people of the tribal region to control the diseases related to the mal nutrition and deficiency syndromes. At the end we can suggest this crop in the region to increase the income of the farmers and also to improve their own, family as well as soil health.

Implication: The study has acknowledged the knowledge level of the farmers towards profitable cultivation of the soybean. This story can be guideline for other extension worker to implement this way of extension technology for their clients in their respective area of operation for TOT. On this foundation the extension personnel may locate clients for training and also those who can be used as counselors to other farmers. The study is also useful for effective propagation of the new technology in other regions for eco friendly and sustainable agricultural development. The story also reflects the role of KVKs in effective Transfer of Technologies (**TOTs**) at grass root level.

Related datamatric information to the story.

Table-1 Comparison of economics of Soybean demonstration plot and Drilled paddy.

Sr. No.	Name of village	Yield (Qt/ha) Demon. Soybean	Yield (Qt/ha) Drilled paddy	Net Return (Rs/ha) Soybean	Net profit (Rs/ha) Drilled paddy	Net profit (Rs/ha) In Soybean over drilled paddy.	% increase over drilled paddy
1	Year Kha						
	Gadat	11.64	13.75	11662	6475	4187	35.90%
2	Year Kharif 2008						
	Gadat	18.74	11.13	23732	4641	19091	80%

** Average increase from 2 year data-58%

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

- The mobile telephone numbers of Programme Coordinator and Subject Matter Specialists is being given to farmers and extension functionaries during extension activities which are best utilized by farmers.
- Telephone Advisory Service has been started and its response from farmers is very effective.
- Agricultural Information column in News Paper Gujarat Mitra is regularly run by KVK which is published in its Monday Edition. In this column the answers are being given for the questions asked by the farmers.

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

S.	Crop /	ITK Practiced	Purpose of ITK
No.	Enterprise		
1.	All crops	3 kg of Jathropa leaves is taken in 20 liters	For controlling sucking
		of water and boiled at a temperature of 60	pests
		to 70 ⁰ C until it becomes 5 liters. Take 250	
		ml and add it to 15 liters and spray.	
2.	All crops	Farmers are using mixture of cow dung,	For controlling sucking
		urine and buttermilk for the control of	pests
		sucking pest.	
3.	Cotton	One farmer used black ants for the control	To control cotton pests
		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.	

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
5.	Pulse	Use of ash for storage of Tur, Beans, Gram	To control storage gram
	crops		pests
6	lowor	Lice of dry noom leaves for cordhum	To control storage gram
0.	Jower	Use of dry neem leaves for sorghum	To control storage gram
		storage	pests
			-
7.	Animal	Use of wild plants with sand and pest it on	To control
		nook of the onimal	HAEMORRHAGIC
		neck of the animal	
			SEPTICEMIA

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

- Identification of courses for farmers / farm women :- PRA and group discussion
- Rural Youth :- Group discussion with youth
- Inservice personnel :- Discussion with extension workers and their superiors

:

3.11 Field activities

- i. Number of villages adopted :- 10
- ii. No. of farm families selected :- 5638
- iii. No. of survey/PRA conducted :- 10

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	278	120 (158 - Farm sample)	36	55600
Water Samples	25	25	19	1250
Total	303	145	55	56850

:

4.0 IMPACT

4.1. Impact of KVK activities

Name of specific	No. of	% o f	Change in income (Rs.)		
technology/skill	participants	adoption	Before	After	
transieneu			(KS./UIIII)	(KS./Unit)	
Introduce new variety (Vaishali) in Tur	248	96.00	19600	59700	
Introduce new crop –	114	86.84	4641	19091	
Soybean to replaced drilled					
paddy					
IPM in Cotton	443	83.80	33175	42305*	
Scientific package of practice	178	84.00	36000	76000	
of Okra (Time of sowing &					
INM)					
INM in Brinjal	127	82.00	60000	96000	
Use of Bio-fertilizer in Gram	236	84.32	25609	38896	

* Decrease in spraying by 40% and use of cultivation by 25%.

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

4.2. Cases of large scale adoption (Detail success stories attached – 3.7)

- 1. KVK for Reaching the Unreached- A Success study
- 2. Velda-IPM Village, a Success Story
- 3. Replacement of the Pigeon pea variety through FLD, a success story
- Replacement of drilled paddy through high recurring Soybean crops in tribal belt of South Gujarat, a success story

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

4.3.1 Impact of scientific cultivation of Okra in Tapi district

In Tapi district farmers were getting very low yield in okra. Low productivity of okra was due to lack of knowledge about scientific cultivation, poor nutrient management and lack of knowledge in IPDM. KVK conducted trainings, FLDs and doing extension activity during last three year. Impact study results are presented here.

Table 1:- Overall knowledge of scientific package of practices of Okra.

		N=100
Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of knowledge	55	16
Medium level of knowledge	35	56
High level of knowledge	10	28

NI 400

			N	=100
Sr.No.	Selected scientific innovations	Low	Medium	High
1	New high yielding varieties	16	28	56
2	Seed rate	11	16	73
3	Integrated Nutrient management	26	35	39
4	Integrated Pest Management	25	61	14
5	Knowledge regarding yellow mosaic virus/ powdery mildew	26	43	31
6	Plant growth regulator	7	11	82
7	Value addition	6	16	78

Table 2:- Knowledge regarding selected scientific innovations for okra cultivationN=100

Results of overall knowledge of scientific package of practices of Okra indicated that the medium and high level of knowledge before KVK was 35% and 10% respectively, which was increased up to 50% and 28% after contact with of KVK (Table-1). In case of knowledge regarding selected scientific innovations for okra cultivation medium and high level of knowledge was 35% and 39% respectively in case of integrated nutrient management, Where as in integrated pest management was 61% and 14% respectively. High knowledge level regarding plant growth regulators and value addition was 82% and 78%(Table-2).

Table 3:- Overall adoption of scientific package of practices of Okra .(percentage)

		N=100
Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of adoption	14	4
Medium level of adoption	69	28
High level of adoption	17	68

Table 4:- Adoption of critical okra production technology(%).

		N= 100
Sr. No.	Name of technology	Adoption(%)
1	New high yielding varieties	82
2	Seed rate	76
3	Integrated Nutrient management	82
4	Integrated Pest Management	61
5	Knowledge regarding yellow mosaic virus/ powdery	72
	mildew	
6	Plant growth regulator	73
7	Value addition	77

Adoption of okra production technology, 82% farmers adopted high yielding varieties and INM. 76% farmers adopted recommended seed rate. In case of plant growth regulator and value adoption 73% and 77% adoption was observed (Table-4). Where in table-3 medium and high level adoption was 69% and 17% before KVK where that of after conducted with KVK was 28% and 68% respectively.

4.3.2 Impact of scientific cultivation of brinjal in Tapi district

In Tapi district farmers were obtaining very low yield in brinjal. Low productivity of brinjal was due to lack of knowledge about scientific cultivation, poor nutrient management and lack of knowledge in IPDM. KVK conduct trainings, FLDs and doing extension activity during last three year. Impact study results are present here.

 Table 1:- Overall knowledge of scientific package of practices of brinjal.

		N=100
Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of knowledge	59	7
Medium level of knowledge	28	51
High level of knowledge	13	42

NI 400

 Table 2:- Knowledge regarding selected scientific innovations for brinjal cultivation

 N=100

				11-100
Sr.No.	Selected scientific innovation	Low	Medium	High
1	Integrated Nutrient management	9	26	65
2	Pest and disease control	22	59	19
3	IPM	29	55	16
4	Plant growth regulator	4	12	84
5	Recommended spacing	6	38	56
6	Value addition	5	14	81

Results of overall knowledge of scientific package of practices of brijal indicated that the medium and high level of knowledge before KVK was 28% and 13% respectively, which was increased up to 51% and 42% after contact with KVK (Table-1). In case of knowledge regarding selected scientific innovations for brinjal cultivation medium and high level of knowledge was 26% and 65%, respectively in case of integrated nutrient management , Where as in pest and disease control was 59% and 19% respectively. High knowledge level regarding plant growth regulators and value addition was 84% and 81 % (Table-2).

Table 3:- Overall adoption of scientific package of practices of Brinjal .(percentage)

		11-100
Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of adoption	28	6
Medium level of adoption	56	22
High level of adoption	16	72

		N= 100
Sr. No.	Name of technology	Adoption(%)
1	Integrated Nutrient management	89
2	Pest and disease control	68
3	IPM	59
4	Plant growth regulator	82
5	Recommended spacing	92
6	Value addition	86

Table 4:- Adoption of critical Brinjal production technology(%).

The adoption of brinjal production technology, 89% farmers adopted INM. 92% farmers adopted recommended spacing. In case of plant growth regulator and value adoption 82% and 86% adoption was observed. Pest and disease control & IPM 68% and 59% farmers adopted the technology (Table-4). Where in table-3 medium and high level adoption was 56% and 16% before KVK, after KVK was 22% and 72% respectively.

4.3.3. Impact of package of practices of soybean crop in satellite villages of Tapi district

Farmers of Tapi district growing rainfed drill paddy but its produce very low yield so it's get very low remunerative. In place of drill paddy soybean crop earn more net profit then drill paddy ,So KVK intensive effort by training, demonstration and other extension activity during last three year to replacing drill paddy. So impact study results are present here.

		N=100
Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of knowledge	89	07
Medium level of knowledge	09	14
High level of knowledge	02	79

Table 1:- Overall knowledge of package of practices of soybean crop.

Table 2:- Knowledge regarding selected scientific innovations for soybean crop.

N=100

Sr.No.	Selected scientific innovation	Low	Medium	High
1	New high yielding varieties	10	5	85
2	Seed rate	13	74	13
3	Bio fertilizer	11	16	73
4	Weeding	23	8	69
5	Integrated Nutrient management	09	13	78

Results of overall knowledge of soybean indicated that the low, medium and high level of knowledge before contact with KVK was 89%,09% & 02% respectively. Which was increased up to 07%, 14% and 79% after contact with KVK(Table-1). In case of

Knowledge regarding selected scientific innovations for soybean high knowledge except seed rat but medium knowledge 74% in seed rat.

Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of adoption	75	05
Medium level of adoption	13	06
High level of adoption	12	89

Table 3:- Overall adoption of scientific cultivation of soybean .(percentage)

Table 4:- Adoption of critical soybean production technology(%).

		N = 100
Sr. No.	Name of technology	Adoption(%)
1	New high yielding varieties	92
2	Seed rate	87
3	Bio fertilizer	73
4	Weeding	70
5	Integrated Nutrient management	88

Data presented in table -3 indicated that majority of the farmer had low level of knowledge(75%) before contact with KVK. After contact with KVK, 89% of the farmers had high level of knowledge.

Data present in table 4 indicated that 92% of the farmer had adopted new high yielding variety(92%) fallowed by INM(88%).

4. Impact of package of practices of gram crop in satellite villages of Tapi district

Tribal area of Tapi district grow gram on moisture conserve or in light irrigation, but they get very low yield due to use of low yielding variety, poor knowledge about scientific cultivation of gram. After contact with KVK intensive effort by training on scientific cultivation, demonstration on new variety & land configuration and other extension activity during last three year . So impact study results are present replacing drill paddy. So impact study results are present here.

Table 1:- Overall knowledg	ge of package of	practices of gram crop.
----------------------------	------------------	-------------------------

N=100

NI 100

		IN-I
Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of knowledge	78	08
Medium level of knowledge	16	10
High level of knowledge	06	82

Data depicted in table 1 indicated that 78% of the farmers had low level of knowledge which was increased (82%) after contact with KVK.

				N=100
Sr.No.	Selected scientific innovation	Low	Medium	High
1	New high yielding varieties	08	05	87
2	Land configuration	06	13	81
3	Seed rate	14	08	78
4	Bio fertilizer	19	06	75
5	Weeding	17	12	71
6	Integrated Nutrient management	07	10	83

 Table 2:- Knowledge regarding selected scientific innovations for gram crop.

Data show in the table 2 indicated that 87% of the farmers had knowledge about New high yielding varieties followed by Integrated Nutrient management (83%) ,Land configuration(81%) and bio fertilizer (75%).

Table 3:- Overall adoption of scientific cultivation of gram. (percentage)

		N=100
Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of adoption	76	04
Medium level of adoption	18	12
High level of adoption	06	84

Data presented in table-3 indicated that 76 % of the farmers had low level of adoption which was increased after contact with KVK(84%).

 Table 4:- Adoption of critical gram production technology(%).

N= 100

Sr. No.	Name of technology	Adoption(%)
1	New high yielding varieties	89
2	Land configuration	85
3	Seed rate	82
4	Bio fertilizer	78
5	Weeding	72
	Integrated Nutrient management	76

The data show in the table 4 indicated that 89% of the farmers had New high yielding varieties which was fallowed by Land configuration (85%), Seed rate (82%) and Bio fertilizer(78%).

5. Impact of package of practices of Tur crop in satellite villages of Tapi district

Farmers of Tapi district growing tur as a mixed crop with paddy and sorghum. Farmers grow very old variety and lack knowledge about improved variety, and scientific cultivation of tur. So they get very low production ,So KVK intensive effort by training, demonstration and other extension activity during last three year to replacing old variety and new technology of sowing.. So impact study results are present here.

Table 1:- Overall knowledge of package of practices of Tur crop.

-		N=100
Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of knowledge	74	06
Medium level of knowledge	21	07
High level of knowledge	05	87

Data depicted in table 1 indicated that 74% of the farmers had low level of knowledge which was increased (87%) after contact with KVK.

.. ...

 Table 2:- Knowledge regarding selected scientific innovations for Tur crop.

				N=100
Sr.No.	Selected scientific innovation	Low	Medium	High
1	New high yielding varieties	06	12	82
2	Land configuration	07	07	86
3	Seed rate	04	08	88
4	Bio fertilizer	18	06	76
5	Weeding	11	11	78
6	Integrated Nutrient management	10	06	84

Data show in the table 2 indicated that 88% of the farmers had knowledge about seed rat followed by ,Land configuration(86%) , INM (84%) and bio fertilizer (76%).

Table 3:- Overall adoption of scientific cultivation of Tur .(percentage)

		N=100
Category	Before contact with KVK(%)	After contact with KVK(%)
Low level of adoption	65	05
Medium level of adoption	16	08
High level of adoption	09	87

Data presented in table-3 indicated that 65 % of the farmers had low level of adoption which was increased after contact with KVK(87%).

Table 4:- Adoption of critical Tur production technology(%).

	······································	N= 10	00
Sr.	Name of technology	Adoption(%)	
No.			
1	New high yielding varieties	88	
2	Land configuration	90	
3	Seed rate	84	
4	Bio fertilizer	78	
5	Weeding	75	
6	Integrated Nutrient management	84	

The data show in the table 4 indicated that 90% of the farmers had land configuration which was fallowed by New high yielding varieties(88%), Seed rate (84%) and INM(84%).

5.0 LINKAGES

Sr. Name of Organization Nature of Linkage No. 1 Dept. of Agriculture Participation Khedut Shibir • Soil Health Card & In-service Training Extension Activities, ATMA, RKVY, SRI techniques 2 Dept. of Horticulture Participation Khedut Shibir • Extension Activities, NHB & NHM 3 ATMA Participation Khedut Shibir/Mahila Shibir • Extension Activities Training programmes 4 Main Rice Res. Station, AAU, Collaboration-FLD on paddy Nawagam Main Cotton Res. Station, NAU, Collaboration-FLD on cotton 5 Surat IPM Mission in Nizar block 6 Main Water Management Collaboration-FLD on soil & water management, Research Unit, NAU, Navsari Greenhouse Participation-Farmers day, Seed-FLDs. etc. 7 Research Stations, NAU FTC, Vyara Joint implementation- Farmers visit and expert 8 lectures, Farmer's Fair Collaboration - Krishi Mahotsav, ATMA, RKVY, Govt. of Gujarat 9 NFSCM, etc. 10 State Bank of India/Bank of SHG work Baroda 11 Catholic Charch, Mandal TOT, Seed village, Kitchen Garden, Vermicompost [52 Villages Network] 12 Integrated Child Development Inservice training for Anganwadi workers Sevices (ICDS)

5.1 Functional linkage with different organizations

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.)
1. Plant Health Clinic	March 08	National Horticulture Mission	15.50 lakhs

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes / No

Sr. No.	Pro	ogramme	Nature of linkage	Remarks
1	Training Pro	ogrammes – 10 no.	Implementing agency	367 Participants

5.4 Give details of programmes implemented under National Horticultural Mission :- --NIL--

5.5 Nature of linkage with National Fisheries Development Board :- --NIL--

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 **Performance of demonstration units (other than instructional farm)**

Sr. No.	Demo Unit	Year of	Area	Details of production			Amoun	Remarks		
		estt.	estt.	7	Variety	Produce	Qty.	Cost of inputs	Gross income	Komarko
1	Vermicompost	2006	400 sq. m.	-	Compost	9850 kg	10000	29550		

6.2 Performance of instructional farm (Crops) including seed production

Name		Date of	ea ()	Detai	Is of production	on	Amount (Rs.)		
Of the crop	Date of sowing	harvest	Are (ha	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Rice	2 nd week of July	1 st Week of November	1.0	Jaya	Certified	25 qtl	20000	38680	
Rice	3 rd week of July	-	2.0	Jaya	Certified	Crop is standing			

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,) :- -- NIL--

6.4 Performance of instructional farm (livestock and fisheries production) :-

-- NIL--

6.5 Rainwater Harvesting :- --NIL--

6.6 Utilization of hostel facilities :- No Hostel facility available at KVK

7. 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*)

	Released by ICAR		Expen	diture	Uncount balance as on	
Item	Kharif 2008-09	Rabi 2008–09	Kharif 2008-09	Rabi 2008-09	1 st April 2009	
Inputs	-	50000	-	50907	-907	
Extension	-	-	-	-	-	
activities						
TA/DA/POL etc.	-	-	-	-	-	
TOTAL	-	50000	-	50907	-907	

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

	Released	by ICAR	Expen	Unspent	
Item	Kharif 2008-09	Rabi 2008–09	Kharif 2008-09	Rabi 2008-09	balance as on 1 st April 2009
Inputs	-	50000	-	23780	26220
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
TOTAL	-	50000	-	23780	26220

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

	Released by ICAR	Expenditure	Unspent
ltem	Kharif 2008-09	Kharif 2008-09	balance as on 1 st April 2009
Inputs	290000	289169	831
Extension activities	-	-	-
TA/DA/POL etc.	-	-	-
TOTAL	290000	289169	831

7.5 Utilization of KVK funds Year: 2008-09

Sr. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	curring Contingencies			
1	Pay & Allowances	28.00	28.00	1896910
2	Traveling allowances	1.00	1.00	71872
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of	2.50	2.50	150000
	Newsletter and library maintenance (Purchase of News Paper & Magazines)			
В	POL, repair of vehicles, tractor and equipments	1.90	1.90	90000
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1.70	1.70	70000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.80	0.80	80000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2.10	2.10	110000
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.60	0.60	26350
G	Training of extension functionaries	0.40	0.40	28512
Н	Maintenance of buildings	0.20	0.20	17662
1	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-
J	Library	-	-	-
	TOTAL (A)	39.20	39.20	2541306
B. No	on-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. RE	VOLVING FUND	-	-	-
	GRAND TOTAL (A+B+C)	39.20	39.20	2541306

Year: 2009-10 (upto August, 2009)

Sr. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	curring Contingencies			
1	Pay & Allowances	28.00	28.00	926341
2	Traveling allowances	1.00	1.00	48772
3	Contingencies	6.00	6.00	195515
	TOTAL (A)	35.00	35.00	1170628
B. No	on-Recurring Contingencies			
1	Works	-	-	-
2	Equipments including SWTL & Furniture	41.00	41.00	-
3	Vehicle (Four wheeler/Two wheeler, please specify)	0.15	0.15	-
4	Library (Purchase of assets like books & journals)	0.10	0.10	2375
	TOTAL (B)	41.25	41.25	2375
C. RE	EVOLVING FUND	-	-	-
	GRAND TOTAL (A+B+C)	76.25	76.25	1173003

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 2006 to March 2007	141018	19159	140450	19727
April 2007 to March 2008	19727	202831	206603	15955
April 2008 to March 2009	15955	251000	191914	75041

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

8.1 Constraints

- (a) Administrative
 - 1. The post of supporting staffs (2) are vacant.
- (b) Financial
 - 1. Provision should be made for educational tour for farmers.
- (c) Technical
 - 1. Lack of facility of administrative building, staff quarters and farmers hostel.
 - 2. Lack of LCD and Laptop.
 - 3. Lack of facility of Minibus.
 - 4. Lack of Motorcycle (two wheeler).

Summary of Annual Progress of KVK 2008-09

STAFF POSITION

KVK	PC		SMS		PA		ADMN		AX		SUPP		Ρ	TOTAL							
NVN	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	۷
Vyara, Dist. Tapi	1	1	-	6	6	-	3	3	-	2	2	-	2	2	-	2	-	2	16	14	2
S- Sanctioned							F-	Fille	d	\	/- V	acai	nt								

REVOLVING FUND

KVK	Opening Balance on 1.4.08 (Rs. in lakhs)	Revenue Generated (Rs. in lakhs)	Closing Balance on 31.3.09 (Rs. in lakhs)
Vyara, Dist. Tapi	15955	59086	75041

SCIENTIFIC ADVISORY COMMITTEE

KVK	No. of meetings conducted	Date of meeting
Vyara, Dist. Tapi	1	06/07/2009

ACTIVITIES OF KVK

TECHNOLOGY ASSESSMENT AND REFINEMENT

Details of technologies assessed and refined **Technologies assessed****

Sr. No.	Enterprise	Crop/Animal/S pecies	Name of the technology**	Thematic Area
1	Vegetable	Okra	ICM (Time of	Paddy – Okra base
		ORIA	sowing)	cropping system
2	Oilseeds	Groundput	Variatal avaluation	Paddy-Groundnut base
		Groundhut		cropping system

Technologies refined**

Sr. No.	Category	Crop/ Enterprise	Name of the technology**	Thematic Area
1	Pulses	Pigeon pea	Land Configuration	Drill paddy + Pigeon pea cropping system

Abstract on 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
Varietal		1								1
Evaluation										
Integrated Crop					1					1
Management										
TOTAL		1			1					2

Abstract on 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			1							1
Crop										
Management										
TOTAL			1							1

Abstract on the number of technologies assessed in respect of livestock/enterprises :- -- NIL --

Abstract on the number of technologies refined in respect of livestock/ enterprises :- -- NIL --

PERFORMANCE OF IMPORTANT TECHNOLOGIES

A. Technology Assessed

:

:

Trial 1

1.	Title	:	Refinement of Sowing time in okra
2.	Problem diagnose/defined	:	Low yield, growing during off season
			(rabi)
3.	Details of technologies selected for	:	T1. Date of sowing 15 th November
	assessment /refinement		(Farmers practices)
			T2. Date of sowing 15 th October
			T3. Date of sowing 30 th October
4.	Source of technology	:	Main Vegetable Research Station,
			Anand
5.	Production system thematic area	:	Paddy – Okra base cropping system,
			Time of Sowing
6.	Thematic area	:	Integrated crop management
7.	Performance of the Technology	:	Results showed that 15 th October
	with performance indicators		sowing date recorded higher yield
			(23.821 t/ha), No. of pods per plant
			(21.36/plot) as compared to farmers
			practices and date of sowing at 30 th
			October.
8.	Final recommendation for micro	:	Farmers of Tapi district should grow
	level situation		okra in month of 15 th October. It is the
			best time for higher yield
9.	Constraints identified and	:	Research on fertilizer management &
	feedback for research		spacing in hybrid okra.
10.	Process of farmers participation	:	Farmers appreciate the technology &
	and their reaction		ready to adopt.

11). Results of On Farm Trials

							Data or	n the para	meter		Posulte	
Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	No. of Technology trials* Assessed	No. of branches/ main stem	No. dules / main stem	No. of fruit / plant	Yield / plant	Yield / kg/ha	of assess- ment	Feedback from the farmer
1	2	3	4	5	6			7			8	9
Okra	Irrigated	Low yield growing during rabi season	Refinement of sowing time in okra	6	T1. Date of sowing at 15 th Nov. (Farmers practices)	0.2	8.5	8.7	87.36	9707	15 th Oct. sowing of okra gave	of early maturing variety for 15 th
					T2. Date of sowing at 15 th Oct.	2.06	19.03	21.36	214.4	23821.6	higher yield	October of Okra sowing
					T3. Date of sowing at 30 th Oct.	0.73	13.46	14.46	144.7	16077.3		which got better income

* No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
10	11	12	13
3. Date of sowing at 15 th October	23.821	136605.5	3.3
 Date of sowing at 15th November (Farmers practices) 	9.707	30750	0.76

*Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

** Give details of the technology assessed or refined and farmer's practice

Trial	2		
1.	Title	:	Varietal evaluation of Groundnut
2.	Problem diagnose/defined	:	Low productivity of nondescript and
			old groundnut varieties grown in
			summer season of Tapi district.
3.	Details of technologies selected for	:	T1. J-11 (Farmers practices)
	assessment /refinement		T2. GG-20
			T4. GG-6
			T5. TG-37A
4.	Source of technology	:	NRCG, Junagadh
5.	Production system thematic area	:	Paddy groundnut base cropping
			system
6.	Thematic area	:	Integrated crop management
7.	Performance of the Technology	:	Result indicated that variety GG-6
	with performance indicators		recorded higher yield (2348 kg / ha),
			No. of pod per plant (22.7 g/plant), wt.
			of dry pod per plant (20.65 g/plant)
			followed by TG-37 A, GG-2, J-11 and
			GG-20 respectively.
8.	Final recommendation for micro	:	Groundnut variety GG-6 may be
	level situation		grown in place of variety TG-37A, GG-
			2, G-20, J-11 in summer season of
			Tapi district.
9.	Constraints identified and	:	Developed suitable variety of late rabi
	feedback for research		season for this region.
			Developed duel purpose
			(fodder+kernal) variety.
10.	Process of farmers participation	:	Farmers are ready to adopt this
	and their reaction		variety

.

11). Results of On Farm Trials

Grand			lem Title osed of OFT	No			Data on th	ne parameter			Foodbook
enterprise	Farming situation	Problem Diagnosed		of trials*	Technology Assessed	No. of branches/ plants	No. of pods / plants	wt. of dry pods/plant (g/plant)	Dry pod yield kg/ha	Results of assessment	from the farmer
1	2	3	4	5	6			7		8	9
Ground-	Irrigated	Low	Varietal	7	T1. J-11	5.29	16.43	13.56	1232	Among five	Groundnut
nut	-	productivity	evaluation		T2. GG-2	4	14.43	13.79	1720	variety	cv. GG-6
		of non descript			T3. GG-20	6.14	6.14	7.2	958	Cv.GG-6 gave higher	have more
		and old			T4. GG-6	5.14	22.71	20.66	2348	yield	pod than
	S	groundnut varieties			T5. TG –37A	4.71	9.42	10.66	2138	followed by TG 37A than other Groundnut variety	older one and also get higher yield than other

* No. of farmers

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
10	11	12	13
4. J-11	1232	10614	0.61
5. GG-2	1720	21838	1.2
6. GG-6	2348	33934	1.9

*Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

** Give details of the technology assessed or refined and farmer's practice

B. Technology Refinement

Trial 1

1.	Title	:	Land configuration in Pigeon pea
2.	Problem diagnose/defined	:	Low yield, High rainfall, Poor plant
			population
3.	Details of technologies selected for assessment /refinement	-	 T1 Flat bed sowing (Farmers practices) T2 Sowing on raised bed / broad bed furrow T3 Ridge and furrow
4.	Source of technology	:	Research scientist, Pulse crop, NAU, Navsari
5.	Production system thematic area	:	Drill Paddy + pigeon pea cropping system
6.	Thematic area	:	Land configuration (ICM)
7.	Performance of the Technology	:	The refined technology ridges and
	with performance indicators		furrow sowing of pigeon pea had more
			no. of branches per plant (14.43/plant)
			and no. of pods per plant (573.4/plant)
			at harvest and higher yield (1346
			kg/ha) as compared to other treatment
			of land configuration.
8.	Final recommendation for micro	:	Ridges and furrow system found
	level situation		better for higher pigeon pea yield.
9.	Constraints identified and	:	Developed resistant variety for Tur
	feedback for research		against pod fly.
10.	Process of farmers participation	:	Appreciate the technology and ready
	and their reaction		to adopt ridge and furrow system

11). Results of On Farm Trials

		Data on the parameter						Posulte				
Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	No. of trials*	Parameters	No. of branches/ plants	s/ No. of Seed pods / wt./plant plants (dry) gm		seed yield / ha (kg/ha)	of refinem- ent	Feedback from the farmer
1	2	3	4	5	6	7		8			9	10
Pigeon pea	Irrigated	Low yield, high rain fall, poor plant population	Land configuration in pigeon pea	7	T1. Flat bed sowing (Farmer practices)	133.57	9	508.57	27.34	1011	Ridges & furrow method of	It is difficult to prepare raised bed so adoption of ridges &
					T2. Raised bed	171.57	12.43	532.71	29.63	1095	sowing gave	furrow is better
					T3. Ridges & furrow	178.56	14.42	573.42	36.4	1346	good yield	

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
Flat bed sowing	1011	18043	2.49
Ridge & furrow	1346	26418	3.65

FRONTLINE DEMONSTRATIONS

Crop/enterprise	No. of demonstrations	Area (ha)
Oilseeds	34	15
Pulses	42	10
Cereals	57	22
Vegetable crops	36	09
Fruit crops	10	05
Kitchen Gardening	50	00
Cotton	60	55
Total	289	116

OILSEEDS

					Perf	rs*					
Сгор	Season	Name of technology	No. of farmers	Area	Yield (o	ıt./ha.)	No. of Po	od / Plant	No. of E	Branch / ant	Result **
				(114)	Demon.	Local Check	Demon.	Local Check	Demon.	Local Check	
Groundnut	Kharif-08	Land Configuration Seed treatment Use of Bio- fertilizer	20	10	16.63	13.47	50-60	35-45	8-10	5-7	This technology performed in groundnut gave higher yield than local practices
Soybean	Kharif-08	Balance use of ferti., manure and Bio-fertilizer	14	5	18.74	15.05	40-55	30-40	7-10	4-6	New variety and use of Biofertilizers gave better yield than local practices and this technology maintain the soil health.

PULSES

					Perf	'S*					
Сгор	Season	Name of technology	No. of	Area	Yield (q	t./ha.)	No. of Po	od / Plant	No. of E Pla	Branch / ant	Result **
			Tarmers	(na)	Demon.	Local Check	Demon.	Local Check	Demon.	Local Check	
Pigeon pea	Kharif-08	Performance of improved variety	20	5	12.48	7.40	60-70	40-50	12-15	5-8	Performance of new variety and land configuration in pigeon pea gave higher yield than local variety
Gram	Rabi-08	-Use of Bio-fertilizer -Land configuration	15	5	20.78	14.77	55-60	40-45	3-4	2-3	Performance of new variety, land configuration and use of bio fertilizer in gram gave higher yield than local variety

Cotton

						Performance of	f technolog	y on different	parameters	*	
Cron	Saason	Name of technology	No.of farmers	of Area ers (ha)	Yield	(qt./ha.)	No.	. of Ball	Ball Wt. (gram/ball)		Pocult **
orop	Jeason				Demon.	Local Check	Demon.	Local Check	Demon.	Local Check	Nesun
Cotton	Kharif- 08	IPM	50	50	22.15	19.75	30-45	20-35	3.5-3.9	2.0-2.5	Efficacy of new technology of IPM in cotton gave better results.
Cotton	Kharif- 08	INM (KNO3)	10	5	23.00	19.00	30-45	25-35	3.5-3.9	2.0-2.5	INM in cotton gave higher yield and this technology control on imbalance use of fertilizer

CEREALS, HORTICULTURE AND OTHER CROPS

						Performa	*				
Crop	Season	Name of technology	No. of	Area	Yield ((qt./ha.)	Test	wt.	No. of pro tiller/p	oductive plant	Result **
			lanner 5	(114)	Demon.	Local Check	Demon.	Local Check	Demon.	Local Check	
Paddy GR-5	Kharif-08	New variety	4	2	18.63	11.13	28 g./1000 seed	18	4-6	2-4	Performance of new variety and its yield is
Paddy GR-8	Kharif-08	New variety	12	5	14.19	9.14	28 g./1000 seed	18	4-6	2-4	better than local variety
Paddy GR-9	Kharif-08	New variety	14	5	10.53	9.14	28 g./1000 seed	18	3-5	2-4	
Paddy Gurjari	Kharif-08	GM before T.P.	12	5	52.59	43.77	30 g./1000 seed	20	7-11	5-7	Green manuring before T.P. of Paddy maintain soil health and its residual effect on Paddy gave higher grain yield
Sorghum	Kharif-08	New variety	15	5	11.36	7.86	3.39 g./ 100 seed	0.1	Panicle length 25-29 cm	18-20	New variety of sorghum well performed in rainfed condition and gave better yield than local variety

					Performance of technology on different parameters*						
Crop	Season	Name of	No. of	Area	Yield	(qt./ha.)	Test v	vt.	No. of pro tiller/p	ductive lant	Result **
		technology	lamers	(na)	Demon.	Local Check	Demon.	Local Check	Demon.	Local Check	
Okra	Rabi-08	INM	8	2	161.7	112.5	18.60 pod/plant	12.40	192 g.yield/plant	122	INM in okra gave higher yield and also maintain the quality of okra this technology control on imbalance use of fertilizer
Brinjal	Rabi-08	INM	8	2	208.1	148.25	18.2 fruit/plant	13.3	1123 g. yield/plant	800	INM gave higher yield and also maintain the quality of brinjal this technology control on imbalance use of fertilizer
Cucurbits	Summer- 09	IPM	20	5	101.9	83.10	No. of fruit infest. 2.95 %	-	-	-	Methyl Euginol trap effective control of fruit fly
Mango	Summer- 09	IPM	10	5	5 Due to very low fruit setting this component demo. was failed.						

Training (including Vocational, Sponsored and FLD training)

	No. of		Participants										
Thematic area			Others			SC/ST		Grand Total					
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total			
(A) Farmers & Farm Wom	nen			-		•							
I Crop Production													
Weed Management	1	-	-	-	27	-	27	27	-	27			
Resource Conservation	2	-	-	-	16	21	37	16	21	37			
Technologies													
Cropping Systems	6	-	-	-	78	174	252	78	174	252			
Crop Diversification	2	-	-	-	28	15	43	28	15	43			
Integrated Farming	1	-	-	-	12	-	12	12	-	12			
Water management													
Seed production	3	-	-	-	27	35	62	27	35	62			

Integrated Crop	4	57	-	57	21	22	43	78	22	100
Management										
Production of organic	4	-	-	-	85	64	149	85	64	149
inputs										
II Horticulture										
a) Vegetable Crops			_							
Production of low volume	15	-	-	-	203	378	581	203	378	581
and high value crops										
Off-season vegetables	4	-	-	-	160	25	185	160	25	185
Protective cultivation	2	-	-	-	18	50	68	18	50	68
(Green Houses, Shade										
Net etc.)										
b) Fruits		•	•	•		-	•		•	-
Layout and Management	1	-	-	-	43	30	73	43	30	73
of Orchards										
Cultivation of Fruit	3	22	-	22	62	37	99	84	37	121
Plant propagation	1	-	-	-	-	37	37	-	37	37
techniques										
III Livestock Production a	and Managem	nent	•	•		-	•		•	-
Dairy Management	10	-	-	-	142	194	336	142	194	336
Feed management	1	-	-	-	1	31	32	1	31	32
IV Home Science/Women	empowerme	ent	-							
Household food security	2	-	-	-	-	108	108	-	108	108
by kitchen gardening and										
nutrition gardening										
Design and development	2	-	-	-	-	67	67	-	67	67
of low/minimum cost diet										
Value addition	4	-	25	25	-	96	96	-	-121	121
Income generation	2	-	20	20	-	26	26	-	46	46
activities for										
empowerment of rural										
Women										
Women and child care	5	-	-	-	-	162	162	-	162	162
V Agril. Engineering				-	1		-			
Repair and maintenance	1	-	-	-	-	49	49	-	49	49
of farm machinerv and										

implements										
VI Plant Protection										
IPM	27	558	-	558	282	98	380	840	98	938
Integrated Disease	1	25	-	25	-	-	-	25	-	25
Management										
Bio-control of pests and	2	-	-	-	48	-	48	48	-	48
diseases										
VII Capacity Building and	Group Dyna	mics								_
Formation and	2	-	-	-	1	67	68	1	67	68
Management of SHGs										
VIII Others										
Side effects of	1	-	-	-	63	-	63	63	-	63
insecticides & their										
solutions										
Marketing of farm	1	-	-	-	50	-	50	50	-	50
produce										
Importance of FLD	1	-	-	-	24	74	98	24	74	98
Scientific cultivation of	1	-	-	-	54	7	61	54	7	61
Rose										
TOTAL	112	662	45	707	1445	1867	3312	2107	1912	4019
(B) RURAL YOUTH	1	•	1	-	1	1	1		1	
Integrated farming	1	-	-	-	19	-	19	19	-	19
Planting material	1	-	-	-	41	-	41	41	-	41
production										
Protected cultivation of	4	-	-	-	66	-	66	66	-	66
vegetable crops										
Repair and maintenance	1	-	-	-	17	-	17	17	-	17
of farm machinery and										
implements										
Tailoring and Stitching	1	-	-	-	-	33	33	-	33	33
IPM	1	-	-	-	42	1	43	42	1	43
TOTAL	9	-	-	-	185	34	219	185	34	219
(C) Extension Personnel	[1	1	1	1	1	1	1	I	
Productivity	1	19	-	19	5	-	5	24	-	24
enhancement in field										
crops										

IPM	1	10	-	10	18	-	18	28	-	28
Integrated Nutrient	1	20	-	20	-	-	-	20	-	20
management										
Protected cultivation	1	44	-	44	-	-	-	44	-	44
technology										
Formation and	1	-	2	2	-	27	27	-	29	29
Management of SHGs										
How to conduct	1	4	-	4	10	-	10	14	-	14
demonstration										
SRI	1	38	-	38	-	-	-	38	-	38
TOTAL	7	135	2	137	33	27	60	168	29	197
GRAND TOTAL	128	797	47	844	1663	1928	3591	2460	1975	4435

Vocational training programmes

Vocation	No. of	No. of Part	icipants incl	uding SC/ST	No. of SC/ST Participants			
vocation	Courses	Male	Female	Total	Male	Female	Total	
Sewing work	1	-	33	33	-	33	33	

Sponsored Training Programmes

Thematic Area	Client	No. of	No. of F	Participants SC/ST	including	No. of SC/ST Participants			
	(FF/K1/EF)	Courses	Male	Female	Total	Male	Female	Total	
Repairs & maintenance of	RY		17	-	17	17	-	17	
farm machinery &		1							
implements									
Integrated Pest	PF	10	302	-	302	302	-	302	
Management		10							
Cropping system	FW	1	12	32	44	12	32	44	
Production of low volume &	FW	6	13	203	216	13	203	216	
high value crop		0							
Production of low volume &	PF	1	26	40	66	26	40	66	
high value crop		I							
SRI	EF	1	38	-	38	-	-	-	

Production of small tools &	FW	1	-	49	49	-	49	49
implements		Ι						
Protective cultivation	PF	1	18	-	18	18	-	18
Off season vegetables	PF	1	36	20	56	36	20	56
	Total	23	462	344	806	261	344	605

Extension activities

Noturo of							Particip	ants						
Extension	No. of activities	Farr	ners (Oth (I)	ners)	SC/	ST (Farm (II)	ers)	Exte	Extension Officials (III)			Grand Total (I+II+III)		
Activity		Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т	
Field Day	16	115	-	115	389	296	685	47	-	47	551	296	847	
Kisan Mela	5	18182	3852	22034	24034	43478	67512	50	12	62	42266	47342	89608	
Kisan Ghosthi	-	-	-	-	76	22	98	3	-	3	79	22	101	
Exhibition	18	21946	6004	27950	33183	51425	84608	67	17	84	55196	57446	112642	
Film Show	12	176	2	178	102	94	196	8	5	13	286	101	387	
Method Demonstrations	15	-	45	45	128	152	280	8	2	10	136	199	335	
Self Help Group meetings	15	-	51	51	-	295	295	-	20	20	-	366	366	
Lectures delivered as resource persons	26	468	36	504	976	1137	2113	28	1	29	1472	1174	2646	
Newspaper coverage	35	-	-	-	-	-	-	6	1	7	6	1	7	
Radio talks	2	-	-	-	-	-	-	1	1	2	1	1	2	
TV talks	8	-	-	-	-	-	-	10	1	11	10	1	11	
Popular articles	71	-	-	-	-	-	-	6	1	7	6	1	7	
Extension	20	-	-	-	-	-	-	6	1	7	6	1	7	
Literature	1	-	-	-	-	-	-	2	I	2	2	-	2	
	1	-	-	-	-	-	-	3	-	3	3	-	3	
Scientific visit to	127	122	143	265	355	165	520	42	5	47	519	313	832	

farmers field													
Farmers visit to KVK	556	193	87	280	516	295	811	47	6	53	756	388	1144
Diagnostic visits	12	7	2	9	5	1	6	16	-	16	28	3	31
Exposure visits (PF,FW)	10	60	-	60	221	137	358	11	-	11	292	137	429
Ex-trainees Sammelan	4	-	-	-	91	50	141	6	2	8	97	52	149
Animal Health Camp	3	-	-	-	-	-	-	7	-	7	7	-	7
Celebration of Women in Agril. Day	1	-	-	-	8	101	109	5	1	6	13	102	115
Khedut Shibir	20	210	43	253	1185	902	2087	45	1	46	1440	946	2386
Mahila Shibir	6	13	2	15	65	609	674	14	5	19	92	616	708
Farmers' Meeting	13	14	-	14	348	429	777	8	1	9	370	430	800
Farmers Day	2	151	22	173	1030	1915	2945	28	5	33	1209	1942	3151
Formation of SHGs	4	-	24	24	-	29	29	-	2	2	-	55	55
Telephone Helpline	865	186	38	224	512	130	642	6	1	7	704	169	873
Guidance through	2	2	-	2	-	-	-	2	-	2	4	-	4
letter													
Celebration of Technology Week	11	349	-	349	739	803	1542	51	2	53	1139	805	1944
Scientist Farmers Interaction	1	-	-	-	350	680	1030	5	1	6	355	681	1036
Formation of FIG	1	-	-	-	43	-	43	2	-	2	45	-	45
FLD visit	18	7	-	7	62	56	118	27	3	30	96	59	155
Grand Total	1901	42201	10351	52552	64418	103201	167619	567	97	664	107186	113649	220835

Production and supply of quality seed and planting material

SEED MATERIALS

SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Paddy	Jaya	25	38680	89

SUMMARY

SI. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	25	38680	89
	TOTAL	25	38680	89

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Mango	Kesar	800	36000	56
	Mango	Dasheri	200	9000	13
SPICES	Onion	White Onion	75425	10304	22
	Chilli	G-4	19800	2970	8
VEGETABLES	Brinjal	Surti Ravaiya	377720	56763	64
	Cauliflower	Mahalaxmi	28750	5363	16
	Cabbage	Early Kuwari	2450	368	5
	Tomato	S-22	7770	1183	9
	Drumstick	BKM-1	213	2130	62
	Bitter Gourd	Hybrid	70	140	35
	Bottle Gourd	Hybrid	70	140	35
	Ridge Gourd	Hybrid	70	140	35

SUMMARY							
Sr. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers			
1	FRUITS	1000	45000	69			
2	VEGETABLES	417113	66227	261			
3	SPICES	95225	13274	30			
	TOTAL	513338	124501	360			

PUBLICATIONS

Type of Publication	No. of Items/topics	Number copies	
News Letter	-	-	
Technical reports	MPR, QPR, SAC report, FLD	-	
	AGRESCO, ZREAC report		
Technical bulletins	-	-	
Popular articles	List of articles given in Annexure – V	72	
Extension literature	21	25000	
Electronic media	KVK in the service of Tribal People – DVD	2	

SOIL AND WATER TESTING

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	278	120 (158 – Farm sample)	36	55600
Water Samples	25	25	19	1250
Total	303	145	55	56850







KRISHI VIGYAN KENDRA

NAVSARI AGRICULTURAL UNIVERSITY, VYARA-394 650 DIST. TAPI (GUJARAT)


Crop/Enterprise	Thrust area
Paddy, Sorghum, Groundnut,	Crop production management (ICM)
Vegetables, Sugarcane, Oilseed	
crops & pulses	
Drumstick, Custard apple	Dry land horticulture
Organic farming	Vegetables, Soybean, Groundnut, Gram
Paddy, Sugarcane, Cotton,	Integrated pest management
Groundnut	
Paddy, Sorghum, Sugarcane,	Integrated nutrient management
Cotton, Groundnut, Vegetables	
Green house technology, Drip	High tech horticulture
irrigation, High value crops	
Soybean, Sorghum, Pigeon pea	Soil and Water conservation
Sugarcane, Paddy, Vegetables,	Water management
Maize	
Low cost green house	Low cost green house
Formation of Self Help Groups	Women empowerment
Sewing & Preservation	Self employment to farm women and rural youth
Fruits, Vegetables, Cereals &	Value addition
pulses	
Dairy management	Management of milch animals
Health & Nutrition	Health & nutrition for vulnerable groups.
Soybean & Vegetables	Introduction of Soybean & Vegetables instead of
	drilled paddy (Crop diversification)
Okra, Tomato, Watermelon	Off-season cultivation

Details of Operational area / Villages (2009-10)

Sr.No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Vyara	Mirpur	Mirpur	Paddy, Groundnut, Gram, Vegetable, Sorghum	 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 	 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
2.	Vyara	Vanskui	Vanskui	Paddy, Sugarcane, Groundnut, Vegetables	 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 	 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
3.	Songadh	Ghodchit	Ghodchit	Paddy, Pigeon pea, Soybean,	 Low awareness about Agriculture and Animal 	Organic farmingIntroduction of soybean crop to

Sr.No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				Sorghum, Sugarcane, Gram, Groundnut	 Husbandry Fear in adoption of new technology Lack of guidance about new agricultural technology Poor animal management Equipments (Oil-engine) for irrigation is very less Poor food grain storage practices Lack of awareness about Health & Nutrition 	 replace drilled paddy Dry land horticulture Advanced irrigation methods 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
4.	Songadh	Nishana (Amji)	Nishana (Amji)	Paddy, Pigeon pea, Sorghum, Groundnut, Watermelon and Brinjal	 Low irrigation facility Erratic heavy rainfall Majority of area has light soil with undulated land Low technological level among farmers Poor economic status Poor food grain storage Lack of awareness about health & nutrition 	 Increase area under drip irrigation Low-cost green house Storage of food grains High-value horticultural crop 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

Sr.No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
5.	Uchchhal	Bhadbhunja	Bhadbhunja	Paddy, Gram, Pigeon pea, Sorghum, Vegetable, Udad, Maize	 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 	 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 deworming
6.	Uchchhal	Selud	Selud	Paddy, Pigeon pea, Sorghum, Gram, Maize, Groundnut	 No facilities for irrigation after October Soil of this area is very light Uneven distribution of rainfall Socio-economic condition is very poor No knowledge of scientific agricultural production 	 Increase area under Soybean Low cost production technology and drip irrigation Income generation activities and kitchen gardening Livestock management Disease management

Sr.No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
					 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 	 Initiating youth club activities Women and child care Low cost green house Calf rearing
7.	Valod	Kanjod	Kanjod	Paddy, Sugarcane, Groundnut, Okra	 Low production in field crops Lack of knowledge about scientific production technology High doses of insecticides Youth club is not active Poor facilities of rural bank Low productivity of okra Lack of knowledge about off season cultivation of vegetable. 	 Crop production technology Increase area under vegetable crops Increase area under oil seed crops Drip irrigation Initiating youth club activities Value addition INM in vegetable Off season cultivation
8.	Valod	Degama	Degama	Sugarcane, Paddy, Groundnut, Vegetable	 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 	 Crop production technology Value addition Income generating activities Activation of SHGs IPM in field crops & vegetables INM in vegetables & sugarcane

Sr.No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
					 Lack of knowledge about insect & pest Lack of knowledge about Sugarcane & vegetable 	
9.	Nizar	Sarvala	Sarvala	Cotton, Gram, Wheat, Sorghum, Soyabean, Papaya, Banana	 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 	 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
10.	Nizar	Mubarakpur	Mubarakpur	Cotton, Papaya, Banana, Wheat, Gram, Soybean, Castor, Sorghum	 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 	 Crop production technology IPM in Cotton Value addition Marketing management Food grain storage Livestock management

ANNUAL ACTION PLAN –2009-10

Quarter wise summary of Annual Action plan KVK, Vyara for the year-2009-10

1. Training Programme

Sr		ON CAMPUS/ OFF CAMPUS							TOTAL ON		Ν	TOTAL OFF				Grand										
No.	Subject		P	۶F			F١	W			R	Y			E	F			CAM	IPUS	5	(CAN	IPUS	5	TOTAL
INO		I	Π	III	IV	I	Π	II	IV	T	Ш		IV		Π	Ш	IV	T	II	III	IV	T	Ш	Ш	IV	IUIAL
1	Crop production	1	1	1	2	2	2	1	-	2	1	1	1	-	-	-	1	2	1	1	1	3	3	2	3	16
2	Horticulture	2	2	2	2	-	-	-	-	2	1	2	-	1	-	-	-	2	1	1	2	2	2	2	2	14
3	Plant Protection	2	3	2	1	1	-	-	1	-	1	-	2	-	1	-	-	1	2	1	2	2	3	1	2	14
4	Extension Education	1	-	1	1	-	1	-	-	-	1	1	-	1	-	-	-	1	1	1	-	-	1	1	2	07
5	Home Science	-	-	-	-	3	3	4	3	-	-	1	-	1	-	-	-	1	1	2	1	2	2	4	2	15
6	Animal Science	1	1	1	1	2	2	1	-	-	-	1	2	-	-	-	-	1	1	1	1	2	2	2	2	12
7	Sponsored	1	1	-	-	-	1	1	-	-	-	-	1	-	-	-	-	1	1	1	1	-	1	-	-	05
	Total	8	8	7	7	8	9	6	4	4	4	6	6	3	1	-	1	9	8	8	8	11	14	12	13	83

PF : Practicing Farmers, **FW** : Farm Women, **RY** : Rural Youth, **EF** : Extension Functionary

	Particulars of			Area	No of
No.	the FLD	Season	Crop	(ha.)/No.	Demonstration
1	FLD on Oilseeds		Groundnut	5	10
		Kharif-2010	Soybean	10	20
		Summer-2010	Groundnut	15	30
		Kharif-2010	Castor	5	10
2	FLD on Pulses	Kharif-2010	Pigeon pea	5	10
		Rabi-2010	Gram	5	10
3	Cereal crops	Kharif-2010	Paddy-Irri	10	20
		Kharif-2010	Paddy- Rainfed	5	10
		Kharif-2010	Maize	15	30
4	Vegetable crops	Rabi-2009-10	Brinjal	2	8
		Rabi-2009-10	Okra	2	8
		Late kharif-2010	Cauliflower	3	10
5	Plant Protection		Okra	3	10
		Pabi-2000-10	Brinjal	3	10
		11abi-2003-10	Cucurbits	2	5
			Gram	5	10
		Summer-10	Mango	5	10
		Kharif-2010	Cotton	50	50
		Kharif -2010	Paddy	5	10
6	Home Science	Rabi-2010	Introduction of improved sickle	20	20
		Summer-2010	Feeding of POSHAK to malnourished rural tribal children	10	10
		Kharif-2010	Kitchen gardening	50	50
7	Animal Science	Rabi-2010	Mineral mixture	50	50
			UMMB	50	50
			Urea	20	20
			treatment		
			Silage	10	10
			Total	365	491

2. Demonstrations

3. On Farm Testing

- (i) Land configuration in pigeon pea
- (ii) Varietal performance of groundnut variety
- (iii) Low milk production of Cow.
- (iv) Refinement of sowing time in okra

4. Extension Activities

Sr. No.	Name of Activities	Proposed No.
1.	Field day	8
2.	Farmers day	1
3.	Agril. Exhibition	5
4.	Awareness programmes	3
5.	Scientist farmers interaction/Vichar gosthi	4
6.	Farm science club	2
7.	Mahila mandal / SHGs	8
8.	SHG meeting for activation of Groups	12
9.	Ex. Trainees meeting	4
10.	Day's celebration	3
11.	Diagnostic services	
	(i) Farmers visit to KVK	500
	(ii) Scientist visit to farmers field	120
12.	Lectures to be delivered in other programmes	As per need
13.	Distribution of seed on cost basis	8 tons
14.	Soil & water sample analysis	100
15.	Publication - Calendar-Toran (Slogan)	2
16.	Leaflet/ Folders	4
17.	Poster	2
18.	Booklet	1
19.	Guidance through mail	4
20.	Communication media	
	(i) Radio talk	As per AIR
		allotment
	(ii) TV /Film show	20
	(iii) News paper coverage	20
	(iv) Subscription to farm Magazine	50

5. Proposed plan of work for instructional farm.

- Graft -- 1000 no.
- Vegetable Seedling -- 3.00 Lakhs
- Paddy seed production 2.00 ha.
- 6. SAC meeting proposed. (Sept.-2010)

1. TRAINING PROGRAMME

1.1 On campus Trainings (For practicing farmers, farm women and rural youth)

Subject	Title of training	Month	Duration (days)	No. of Parti.	Type of Parti.
I Quarter					
Crop production	Scientific production technology of oil seed crops	Nov09	2	20	FW
	Integrated weed management in groundnut and soybean	Oct-09	2	20	RY
Horticulture	Use of drip irrigation in watermelon cultivation	Oct-09	2	20	RY
Plant protection	Integrated pest management in vegetables	Oct-09	2	20	PF
Home science	Health & Nutrition for vulnerable groups	Nov.09	2	20	FW
Extension Education	Value addition in farm produce	Nov.o9	2	20	PF
Animal Science	Calf rearing	Dec09	2	20	FW
II Quarter					
Crop production	Seed production technology in sugarcane and paddy	Jan-10	2	20	PF
Horticulture	High Value vegetable crops cultivation (Water melon, cauliflower)	Feb-10	2	20	RY
Plant protection	Integrated pests and diseases management in field crops	Feb-10	2	20	RY
Home science	Value addition in fruits & vegetables	Jan-10	2	20	FW
Extension Education	Contract farming	Jan-10	2	20	FW

Subject	Title of training	Month	Duration (days)	No. of Parti.	Type of Parti.
Animal Science	Management of pregnant animal.	March-10	2	20	FW
III Quarter					
Crop production	Importance of land preparation in paddy/sugarcane/cotton based cropping sequence	May-10	2	20	RY
Horticulture	High Value vegetable crops cultivation (Banana, Papaya)	April-10	2	20	PF
Plant protection	Integrated pest management in cotton	April-10	2	20	PF
Home science	Formation and management of Self Help Groups	April-10	2	20	FW
Extension Education	Agricultural development programme of tribal farmer	April-10	2	20	RY
Animal Science	Urea treatment and its importance.	April-10	2	20	PF
IV Quarter					
Crop production	Integrated nutrient and water management in major crops (sugar cane)	Aug-10	2	20	PF
Horticulture	Integrated Nutrient Management in Okra & Brinjal	July-10	2	20	PF
Plant protection	Integrated pests and diseases management in vegetables	July-10	2	20	RY
Home Science	Anemia & its management	Aug-10	2	20	FW
Animal Science	Important infections disease and it's prevention and control	July-10	2	20	RY

Subject	Title of training	Month	Duration (days)	No. of Parti.	Type of Parti.
I Quarter					
Crop production	Organic farming cultivation of field crops	Oct-09	1	20	FW
	Production technology of gram & wheat cultivation	Nov-09	1	20	PF
	Scientific package & practices of summer paddy cultivation	Dec-09	1	20	RY
Horticulture	Short duration vegetable crop cultivation (Watermelon, cauliflower)	Oct-09	1	20	PF
	Short duration vegetable crop cultivation (Watermelon, cabbage)	Oct-09	1	20	PF
Plant protection	Integrated pest management in okra	Oct-10	1	20	FW
	Integrated management of mango pests	Dec-09	1	20	PF
Home Science	Importance of fruits vegetables in a daily diet	Nov-09	1	20	FW
	Processing & preservation of tomato ketchup and papaya jam	Dec-09	1	20	FW
Animal Science	Silage making and it's importance	Nov09	1	20	PF
	Mineral mixture feeding and it's important in health and milk production.	Dec 09	1	20	FW
II Quarter				·	
Crop production	Improvement in summer crop cultivation	Jan-10	1	20	RY
	Importance of organic farming and its input	Feb-10	1	20	FW
Horticulture	Scientific cultivation of vine crop	Jan-10	1	20	PF
	Arid horticulture development	Feb-10	1	20	PF
Plant protection	Management of groundnut pests and diseases	Jan-10	1	20	PF
	Integrated pest management in field crops	Feb-10	1	20	PF
	Integrated pest management in cotton	Mar-10	1	20	PF
Home science	Preparation of low cost nutritious diet for children	Feb-10	1	20	FW

1.2 Off campus Trainings (For practicing farmers, farm women and rural youth)

Subject	Title of training	Month	Duration (days)	No. of Parti.	Type of Parti.
	Nutrition deficiency diseases in women &	Mar-10	1	20	FW
	children and its management				
Extension Education	Information of fruits and vegetables market	Jan-10	1	20	RY
Animal Science	Use of urea block in feeding	Jan-10	1	20	FW
	Dairy record keeping	Feb10	1	20	PF
III Quarter					
Crop production	Weed management in cotton based cropping system	April-10	1	20	PF
	Green manuring	June-10	1	20	FW
Horticulture	Care & management of mango orchard	April-10	1	20	PF
	Planning & management of kharif vegetable	May-10	1	20	RY
	Soil & water management for kharif vegetable crop cultivation	May-10	1	20	RY
Plant protection	Integrated pest management in paddy	June-10	1	20	PF
Home science	Preparation of masala	May-10	1	20	FW
	Maternal health and child care	June-10	1	20	FW
Extension Education	Incentives for Agriculture Business	April-10	1	20	PF
Animal Science	Deworming and it's benefit	April-10	1	20	FW
	Housing of an animal.	June-10	1	20	RY
IV Quarter			·	·	
Crop production	Scientific cultivation of castor & maize	Aug-10	1	20	PF
	Importance of soil & water conservation technology for rain fed cultivation	July-10	1	20	FW
Horticulture	Scientific cultivation of turmeric & ginger crop	Aug-10	1	20	RY
Plant protection	Integrated pest management in vegetables	July-10	1	20	FW
	Integrated pest management in sugarcane	Aug-10	1	20	PF
Home science	Anemia & its management	July-10	1	20	FW
	Balanced diet from locally available food material	Sep-10	1	20	FW

Subject	Title of training	Month	Duration (days)	No. of Parti.	Type of Parti.
Extension	WTO and rural farmers	Sep-10	1	20	PF
Education					
Animal Science	Vaccination and it's importance.	July-10	1	20	PF
	Role of artificial insemination in breed	July-10	1	20	RY
	improvement.				

1.3 In-service Training Programme

Subject	Title of training	Date	Duration (days)	No. of parti.	Type of parti.	Sponsoring agency
Crop Production	Refresher course on crop production	Aug-10	2	20	VLWs/ sugar	Dist. Panchayat,
	technology				factory field	Тарі
					staff	
Horticulture	High tech horticulture	July-10	2	20	VLWs	Dist. Panchayat,
						Тарі
Plant protection	Integrated pest management in	July-10	2	20	VLWs	Dist. Panchayat,
	vegetables					Тарі
Home Science	Formation and management of Self	April-10	2	20	Anganwadi	ICDS
	Help Groups				workers	
Extension	Recent trends in agriculture	Nov-09	2	20	Agri.teacher	Dist. Panchayat,
Education					of	Тарі
					Uttarbuniyadi	
					school, Tapi	

1.4 Vocational Training Programme

Title of training	Discipline	Month	Duration (days)	No. of parti.	Type of parti
Vegetable nursery raising & seed production of vegetable crop	Horticulture	Oct-09	15	20	RY
Preparation of vermicompost and their use in field crops	Agronomy	Feb'10	8	20	FW
Mushroom cultivation	Plant Protection	Aug-10	30	20	RY
Value addition in fruits & vegetables	Home Science	April-10	7	20	FW
Preparation of Agarbatti and candle	Home Science	May-10	05	20	FW

2. **DEMONSTRATION**

2.1 Front Line Demonstrations

Title of	Objective	Varioty	Farming	Area	No. of	Existing technology	Specific	Critical inputs	Pomarks
Demon.	Objective	variety	situation	(ha)	farmers	Existing technology	technology	Critical inputs	Neillai KS
Oilseeds									
G'nut	Demonstration of high yielding variety & technology	GG-6	Irrigated	5	30	- Use old variety & tradition cultivation.	Biofertilizer Performance of improve variety.	Seeds , Bio fertilizer,	Summer (Jan–10)
G'nut	Land configuration	GG-20	Irrigated	15	20	 Use of old variety. No use of bio- fertilizer Growing G'nut on flat bed 	Land configuration, seed treatment, use of bio-fertilizer	Seeds, Bio fertilizer,	Kharif (June-10)
Soybean	Integrated nutrient management	G.S2	Rainfed	10	20	-Use of local variety -No use of FYM -Inadequate use of fertilizer.	Balance use of fertilizer, manure & Bio fertilizer.	Seeds Rhizobium & Reco.fertilizer.	Kharif (June-10)
Castor	Introduction of new crop.	GCH- 4/6	Rain fed	5	10	Low productive cropping system	To replace low out put crops (Jowar,Mung,Urid)	Seed	Kharif (June-10)
Pulses	•	•	•		•				-
Gram	Land	GG-2	Irrigated	5	10	-Lack of knowledge	- Use of bio-	Seeds,	Rabi-2009-

Title of Demon.	Objective	Variety	Farming situation	Area (ha)	No. of farmers	Existing technology	Specific technology	Critical inputs	Remarks
	configuration.					about use of bio fertilizer& imbalance use of fertilizer. - Growing in flat bed.	fertilizer - Land configuration.	Bio-fertilizer.	10
Pigeon pea	Demonstration of high yielding variety	Vaishali	Rainfed	5	10	 Use local variety No use of bio- fertilizer 	Performance of improved variety.	Seeds, Bio- fertilizer	Kharif (June-10)

Demonstrations other than FLD

Title of	Objective	Variatu	Farming	Area	No. of	Existing	Proposed	Critical	Demerika
Demon.	Objective	variety	situation	(ha)	farmers	technology	technology	inputs	Remarks
A. Crop Demor	stration					·			
Paddy	Importance of green manuring in paddy cultivation.	Jaya	Irrigated	5	10	No green manuring	Green manuring before planting.	Seeds,	Kharif- 2010
	Popularize new variety	NAUR-1	Irrigated	5	10	Use of low yielding disease susceptible variety	New variety	Seeds	Kharif 2010
	Popularize new variety	GR-5, GR-8, GR-9	Rainfed	5	10	Use of low yielding old variety Imbalance use of fertilizers	New variety	Seeds	Kharif 2010
Maize	Popularize new variety	QPM, Baby corn, Signal cross hybrid	Irrigated	15	30	Use of local variety and low quality protein maize.	Popularize newly maize variety	Seeds	Kharif 2010
B. Vegetable P	roduction								

Title of			Farming	Area	No. of	Existing	Proposed	Critical	
Demon.	Objective	Variety	situation	(ha)	farmers	technology	technology	inputs	Remarks
Brinjal	Integrated nutrient management.	Surtiravaiya	Irrigated	2	8	-Imbalance use of fertilizer. - No use of organic matter.	 Balance use of fertilizer. Use of organic matter. 	O.M., Chemical Fertilizer	Rabi- 2009-10
Okra	Integrated nutrient management	Hybrid	Irrigated	2	8	-Imbalance use of fertilizer. - No use of organic matter.	 Balance use of fertilizer. Use of organic matter. 	O.M., Chemical Fertilizer	Rabi- 2009-10
Cauliflower	Introduction of new high value crop	Pusa early	Irrigated	3	10	- Cultivation of low out put crops	- To replace low out put crops (paddy)	Seedling	Late Kharif- 2010
C . Plant prote	ction	-				· ·			
Brinjal	Management of Brinjal fruit and shoot borer	Surtiravaiya	Irrigated	3	10	Un –know about P.P. measures.	Integrated pest management.	Pheromone trap, Bio pesticide	Rabi- 2009-10
Okra	Management of okra fruit and shoot borer	Hybrid	Irrigated	3	10	Un –know about P.P. measures	Integrated pest management	Pheromone trap,Bio pesticide	Rabi- 2009-10
Cucurbits	To manage fruit fly	Improved	Irrigated	2	5	Un –know about P.P. measures	Mass trapping	Pheromone trap	Rabi- 2009-10
Chick pea	Management of wilt	GG-2	Irrigated	5	10	Unable to manage wilt	Application of <i>Trichoderma</i>	Trichoderma	Rabi 2009-10
Mango	Control fruit fly		Irrigated	5	10	Un –know about fruit fly control.	To popularize Methyl eugenol trap	Methyl eugenol trap	Summer- 2010
Cotton	IPM		Irrigated	50	50	Un –know about P.P. measures	Integrated pest management.	Pheromone trap, Bio pesticide	Kharif- 2010
Paddy	IPM	Improved	Irrigated	5	10	Unknown about management	IPM module by N.A.U.	Chemicals/ seed treatments	Kharif- 2010

Title of			Farming	Area	No. of	Existing	Proposed	Critical	
Demon.	Objective	Variety	situation	(ha)	farmers	technology	technology	inputs	Remarks
D. Home Scien	ce		I	I	I				1
Introduction of improved Sickle	 To reduce drudgery of weeding To increase working efficiency in short period of time To create awareness among farm women about improved tools/technology 	-	Irrigated	-	20	Use of traditional sickle	Use of improved sickle	Improved sickle	Rabi-2010
Feeding of POSHAK to malnourished rural tribal children	To overcome malnutrition in rural tribal children	-	-	-	10	Unknown about balanced diet Use of traditional diet	Protein rich diet with locally available food material	POSHAK (Mixture of cereals & pulses with 3:1 ratio)	Summer- 2010
Kitchen gardening	 To create awareness regarding kitchen gardening in encouraging balance nutrition at low cost To improve health & nutritional status of family 	-	Irrigated	-	50	They are growing single one or two vegetables in backyard	Layout of kitchen garden and techniques of sowing & planting	Seed and Seedling	Kharif- 2010
E. Animal Scie	nce				-			-	_
Mineral	Important of	-	-	-	50	They not give	-	Mineral	Rabi-

Title of	Objective	Variety	Farming	Area	No. of	Existing	Proposed	Critical	Pomarks	
Demon.	Objective	variety	situation	(ha)	farmers	technology technology		inputs	Kentarko	
Mixture	mineral mixture in milk production and animal health					mineral mixture in animal feeling		mixture bay or break (mineral salt brick)	2009-10	
UMMB	Introduce farmer for use of UMMB	-	-	-	50	Farmers are not - using this type of feeling block		UMMB block	Rabi- 2009-10	
Urea treatment on paddy traw	Increase nutritive value of paddy straw so it helping increase milk production	-	-	-	20	Farmers fed - paddy straw without any treatment		Plastic, urea molasses	Rabi- 2009-10	
Silage making	Supply of green feed in milling animal	-	-	-	10	Farmers not know this type of treatment	-	Plastic self molasses	Rabi- 2009-10	

2.3 Vadi Yojna: 4 Units each of one acre (NAU Vadi model)

2.4 Demonstration Unit

1	Crop museum
2	Vermicompost
3	Mushroom production
4	Bio control Laboratory
5	Calf rearing unit
6	Drip irrigation
7	Low cost greenhouse
8	Kitchen Garden
9	Nursery Unit
10	Seed Production Unit
11	Farm Forestry

3. On Farm Testing

3.1 Title: - Land configuration in pigeon pea. (On going)

Pigeon pea is grown in *kharif* season in this area. Due to heavy rainfall and water logged condition the germination and growth of pigeon pea is poor. Further, the farmers of the area sow their crop in flat soil which increases the chances of accumulation of water in root zone resulted congenial condition for the wilt disease which some time leads to complete failure of the crop.

Reasons of low productivity:-

- 1. Improper field condition and poor drainage
- 2. Sowing in flat soil
- 3. Lack of good quality of seed
- 4. No seed treatment is given
- 5. No use of bio-fertilizer
- 6. Imbalance use of fertilizer

Intervention point:-

- 1. Sowing on raised bed
- 2. Seed treatment with fungicides and bio fertilizers
- 3. Use of recommended fertilizer

Technology intervention:-

Sowing on raised bed

Variety: Vaishali

Treatment sowing of seeds

- 1. Local method of sowing (flat bed)
- 2. Growing on raised bed with recommended practices
- 3. Ridges and furrow sowing

Plot size: - 0.25 ha

No. of farmers: - 5

Critical input to be supplied: seeds, bio-fertilizer and fungicides.

3.2 Title: - Varietal performance of summer groundnut variety (New).

Farmers are growing old variety like GG-2 & SB-11. Which give comparatively low yield. Newly release variety GG-6 & TG-26 gave more yields as compared to this older one but farmers are not adopting these new varieties. To sow the performance of newly released varieties, in this region OFT is proposed.

Reasons of low productivity:-

- 1. Lack of knowledge of High yielding new variety.
- 2. No seed treatment is given
- 3. No use of bio-fertilizer
- 4. Imbalance use of fertilizer
- 5. Lack of irrigation facility at last stage

Intervention point:-

- 1. High yielding variety
- 2. Seed treatment with fungicides and bio fertilizers
- 3. Use of recommended fertilizer

Technology intervention:-

High yielding variety.

Treatment

- 1. GG-2
- 2. SB-11
- 3. GG-6
- 4. TG-26

Plot size: - 0.20 ha

No. of farmers: - 5

Critical input to be supplied: seeds, bio-fertilizer and fungicides.



3.3 Title: - Low milk production of Cow. (New)

Farmers are giving paddy straw to animal without any treatment. In this area, majority of farmers growing paddy during kharif season. But paddy straw is less digestible and less nutritive, too. To convert the paddy straw in more digestible as well as to reduce the fodder loss this OFT on urea treatment is proposed.

Reasons of low productivity:-

- 1. Lack of knowledge about urea treatment.
- 2. Poor management.
- 3. Poor knowledge of health & hygiene.
- 4. Lack of knowledge about feeding management.

Intervention point:-

- 1. Urea treated paddy straw for higher milk production.
- 2. Effect of mineral mixture on milk production and health.

Technology intervention:-

Effect of Balanced feeding on milk production.

Treatment

- 1. Farmers practice (Paddy straw without urea treatment)
- 2. Paddy straw with urea treatment
- 3. Paddy straw with urea treatment + Mineral mixture

(No. of Demo.)-5 No. of Farmers: -5

Critical input to be supplied: . (Urea, Mineral Mixtures)



PROBLEM CAUSE DIAGRAM

3.4 Title: - Refinement of sowing time in okra (New)

The farmers of eastern belt of Surat and Tapi and some part of Dang districts are growing okra in Rabi season; sow their crops immediate after harvesting of kharif crops i.e. from October onward. The university recommends growing of okra either in kharif or in summer. Farmers have no irrigation facility during summer so they grow okra as vegetable crop during Rabi season.

Reason for Low Productivity

- 1. Growing during Rabi season.
- 2. Imbalance use fertilizer.
- 3. Use high seed rate.
- 4. Higher incidence of pest & diseases.

Intervention point

- 1. Time of sowing
- 2. Use of recommended fertilizer

Technology intervention

Time of sowing

Variety: Hybrid

Treatment

- 1. Date of sowing 15th Nov.(Famers practices)
- 2. Date of sowing 15th Oct.
- 3. Date of sowing 30th Oct.

Plot size: - 0.20 ha NO. Of farmers: - 6

Critical input to be supplied: - Chemical fertilizer

4. EXTENSION ACTIVITIES

Sr.	Name of Activities		Qua	rter		Total
No.		I	II	III	IV	
1.	Field day	2	2	2	2	8
2.	Farmers day	1	-	-	-	1
3.	Agril exhibitions	1	2	2	-	5
4.	Awareness Programmes	1	1	1	-	3
5.	Scientist farmers interaction- Vichar	1	1	1	1	4
	Gosthi					
6.	Farm science club	1	-	1	-	2
7.	Mahila mandal / SHGs	2	2	2	2	8
8.	SHG meeting for activation of Groups	3	3	3	3	12
9.	Ex. Trainees meeting	1	1	1	1	4
10.	Day's celebration	2	1	-	-	3
11.	Diagnostic service					
	(i) Farmers visit to KVK	125	125	125	125	500
	(ii) Scientist visit to farmers field	30	30	30	30	120
12.	Lectures to be delivered in other		-/	As per n	eed-	
	programmes					
13.	Distribution of seed on cost basis	-	-	8 ton	-	8 ton
14.	Soil & water sample analysis	25	25	25	25	100
15.	Publication - Calendar- Toran (slogan)	-	1	1	-	2
16.	Leaflet/Folders	1	1	1	1	4
17.	Poster	1	-	1	-	2
18.	Booklet	1	-	-	-	1
19.	Guidance through mail	1	1	1	1	4
20.	Communication media					
	(i) Radio talk		As p	er AIR a	llotment	
	(ii) TV /Film show	5	5	5	5	20
	(iii) News paper coverage	5	5	5	5	20
	(iv) Subscription to farm Magazine	12	13	13	12	50

5. Proposed plan of work for instructional farm.

- ✤ Graft -- 1000 no.
- ✤ Vegetable seedling 3 lakhs
- Paddy seed production -- 2<u>ha.</u>
- 6. SAC meeting proposed. (Sep-2010)

<u> Annexure - I</u>

Proceeding of Sixth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, N.A.U., Vyara held on 06/07/2009 at 10:00 am at Vyara

Sr.	Name	Members/	Designation
NO		Invitees	
1	Dr. H. C. Pathak	Chairman	I/c. Vice Chancellor and
			Director of Research,
			Navsari Agricultural University,
	Dr. M. K. Mandana	N A succh a m	Navsari Zanal Dusis et Dinester
2	Dr. M. K. Mandape	Inemper	Zonal Project Director,
			Zone-VI, I.C.A.R., Joanpur,
		Marahar	Rajastnan
3	Dr. R. B. Paler	nember	Director of Extension Education,
			Navsan Agricultural University,
4	Shri D. Z. Dotol	Mambar	Navsall
4	Shir D. Z. Paler	Inemper	Deputy Director of Agriculture and
			Herticulture Lal Runglow
			Athwalings Surat
5	Shri S. M. Modi	Member	Project Administrator Integrated
5		Member	Tribal Development Project
			Songadh Dist Tani
6	Shri R. K. Gavli	Member	Representative of District Agriculture
Ŭ		Wernber	officer
			District Panchavat, Vvara Tapi
7	Shri P. R. Chuadhari	Member	Deputy Director of Agriculture
		monibol	(Training), FTC, Vyara and
			A.D.A. (TV). Surat
8	Shri K. K. Bhatt	Member	Representative of Director,
			District Rural Development Agency,
			Ramkabir Society, Vyara, Dist. Tapi.
9	Shri K. B. Tandel	Member	Assistant Director (Fisheries), Near
			CRPF Campus, Ukai, Dist. Tapi.
10	Shri D. G. Gamit	Member	Divisional Forest Officer, Vyara, Dist.
			Тарі.
11	Shri I. L. Mahyavanshi	Member	Range Forest Officer, Vyara range,
			Dist. Tapi.
12	Shri K. D. Verma	Member	Representative of Lead Bank Officer,
			Regional Office, B.O.B., Dutch
			Garden, Surat.
13	Shri H. N. Mevada	Member	General Manager,
			District Industrial Center, Dist. Tapi
14	Dr. H. B. Kharecha	Member	Lokseva Trust, At. Moti Bhamti,
			Ta. Vansada, Dist. Navsari
15	Shri Dilipbhai Gamit	Member	Farmer Representative,
			At & Po.Gadat, Ta. Vyara, Dist.Tapi
16	Smt. Premlataben A. Gavit	Member	Farm Women Representative,
			At & Po. Bhitkhurd-1,

* List of the members remained present in the meeting :

			Ta.Uchhal, Dist. Tapi
17	Smt. Induben R. Gamit	Member	Farm Women Representative,
			At.Po. Kapura, Ta.Vyara, Dist. Tapi
18	Dr. H. D. Mehta	Member	Associate Research Scientist
			Regional Rice Research Station,
			N.A.U., Vyara, Dist. Tapi
19	Dr. N. M. Chauhan	Member	Programme Coordinator
			Krishi Vigyan Kendra,
			N.A.U.,Vyara, Dist. Tapi
20	Shri R. S. Bhamre	Invitees	Dist. Deputy Manager,
			NABARD, Surat
21	Shr N. G. Gamit	Invitees	Seed Officer, G.S.S.C., Vyara
22	Shri T. M. Gamit	Invitees	Assi. Director of Agri.(Ext.),
			Songadh, Dist. Tapi
23	Shri Bhupendra R. Desai	Invitees	Progressive Farmer, Valod,
			Dist. Tapi
24	Shri B. J. Saraliya	Invitees	GNFC Ltd., Vyara
25	Shri R. M. Patel	Invitees	GSFC Ltd., Vyara
26	Dr. A. P. Patel	Invitees	I/c. Programme Coordinator,
			Krishi Vigyan Kendra, Navsari
27	Shri I. R. Rathva	Invitees	Extension Officer of Agriculture,
			Vyara
28	Father Fransis Desoza	Invitees	Mandal, Po. Kikakani, Ta. Songadh
29	Shri Rajubhai Jantraniya	Invitees	Progressive Farmer, Vyara
30	Shri B. G. Aahir	Invitees	Khedut Agro, Buhari, Ta. Valod
31	Shri D. G. Gamit	Invitees	Assistant Conservator of Forest,
			Vyara

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

Sr. No.	Designation	Members/ Invitees		
1	Deputy Director (Animal Husbandry), District Panchayat, Vyara, Tapi.	Member		
2	Executive Engineer, Ukai Kakrapar Irrigation Project, Vyara, Dist.Tapi.	Member		
3	Social Welfare Officer, District Panchayat, Vyara, Dist. Tapi	Member		
4	Office Incharge, All India Radio, Bhatar Road, Surat.	Member		
5	Information Officer, Information and Broadcasting Dept., Chawk	Member		
	Bazar, Surat.			
6	Assistant Director, GLDC, Parsiwad, Vyara, Dist. Tapi	Member		
7	Principal, Gandhi Vidyapith, Vedachhi, Valod, Dist. Tapi	Member		

The Sixth Scientific Advisory Committee meeting of Krishi Vigyan Kendra, NAU, Vyara was organized to review the progress made by KVK during October-2006 to May-2009 and to discuss the action plan for 2009-10. The SAC meeting was held in training hall of KVK, Vyara on 6th July, 2009. The meeting was inaugurated by Dr. H.C. Pathak, Honorable Vice Chancellor, N.A.U., Navsari. Dr. N.M. Chauhan, Programme Coordinator, KVK, Vyara welcomed dignitaries, committee members, farmers and invitees. Dr. M.K. Mandape, Zonal Project Director, Zone-VI, Jodhpur in his speech emphasised the importance of OFT, technical feedback from farmers, value addition and women

empowerment. Dr. R.B. Patel, Director Of Extension Education, NAU, Navsari explained the satellite village concept adopted in KVKs of Navsari Agricultural University. Honorable Vice- Chancellor, Dr. H. C. Pathak in his concluding remarks congratulated Programme Coordinator and his team of scientists and suggested to publish FAQs data base for the major crops of the area. The thorough discussion made during the meet was really unique culminating into a number of remarkable suggestions and feedback which can be utilized for future betterment of the KVK. Vote of thanks was presented by Dr. C. K. Timbadia, Subject Matter Specialist (Extension Education) KVK, Vyara

6.1	Approval of minutes of fifth Scientific Advisory Committee.										
	Th	e action taken report on the minutes of Fifth Scientific Advisory Committee									
	meeting	of KVK, Vyara held on 14 th October, 2006 was presented by programme									
	Coordinator and approved by the house.										
6.2	Progress made by KVK during October 2006 to May 2009.										
	Programme Coordinator, KVK, Vyara presented the report on progress										
	made by KVK, Vyara for the period of October, 2006 to May 2009. Following										
	suggest	suggestions were made by the house.									
	6.2.1	The number of On Farm Testing should be increased.									
	6.2.2	Impact assessment of mandatory activities of KVK should be made.									
	6.2.3	Prepare and publish FAQs data base for different crops and value added									
		products.									
6.3	Action p	lan for the period of July 2009 to September 2010.									
	The	Action Plan for the period of July 2009 to September 2010 was presented									
	by Prog	ramme Coordinator, KVK, Vyara which was thoroughly discussed and									
	approve	d with following suggestions.									
	6.3.1	Prepare an action plan to popularize the organic farming in the area and									
		organize demonstration on organic farming incorporating all elements of									
		NCF.									
	6.3.2	The number of Vocational trainings pertaining to income generation by									
		farm women should be increased.									
	6.3.3	Efforts should be made to make a seed village by KVK, Vyara.									
	6.3.4	Arrange exposure tour for progressive farmers.									
	6.3.5	The KVK Scientists should be given more exposures for HRD.									
	6.3.6	Efforts should be made to enhance value added products from turmeric									
		and ginger.									
	6.3.7	Find out specific thrust areas and resource inventory of newly formed									
		Tapi district and incorporate all of the elements in Action Plan in the form									
		of all four mandates of the KVK.									

<u>Annexure – II</u>

District Profile

Include the details of

1. General census

Information regarding District villages and Population

Taluka		Population (2001)									
Taluka	NO. OF VITAGES	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	6531	33	356	66500	12.73
				(22.87)					
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	1378
Vegetables	1785
Spices &	2080
condiments	

- 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 :
- Major agriculture and alled enterprises :
 Sugar factory, Rice based industry, Groundnut based factory, Dairy industries, Cold storage

Annexure – III

Agro-ecosystem analysis of the focus / target area

- 1. Names of villages, focus area, target area etc.: As per Table no. 2.6
- 2. Survey methods used (survey by questionnaire, PRA, RRA, etc.) : PRA
- 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 explore 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 points 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. 2.6
- 6. Matrix ranking of problems

Matrix Ranking : It makes the comparision 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. 2.7
- 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 Annexure IV

<u>Annexure - IV</u>

Details of Training programmes :

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Number of other participants			Numl	ber of S	SC/ST	Total number of participangs		er of Igs
		programme	_		days	Campus)	Μ	F	Т	М	F	Т	М	F	Т
10/10/08	FW	Kitchen gardening	Home Science	Kitchen gardening	1	On	-	-	-	-	53	53	-	53	53
21/10/08	FW	Anemia & its control	Home Science	Design and development of low/minimum cost diet	1	Off	-	-	-	-	19	19	-	19	19
23/10/08 to 24/10/08	RY	Cultivation of high value vegetable crops	Horticulture	Protected cultivation of vege.crops	2	On	-	-	-	25	-	25	25	-	25
23/10/08	PF	Scientific cultivation of Gram	Agronomy	Cropping system	1	Off	-	-	-	21	-	21	21	-	21
24/10/08	RY	Land preparation & planting tech. of Rabi/Summer crops	Agronomy	Planting material production	1	On	-	-	-	41	-	41	41	-	41
26/10/08	RY	Okra cultivation	Horticulture	Protected cultivation of vege.crops	1	On	-	-	-	8	-	8	8	-	8
08/11/08	PF	Recent Advances in Sugarcane cultivation	Agronomy	IPM	1	On	-	-	-	19	-	19	19	-	19
15/10/08	RY	National Horticulture Mission (Low cost tech.)	Multi disciplinary	NHM	1	On	44	-	44	-	-	-	44	-	44
05/11/08	FW	Okra	Extension Education	Production of low volume and high value crops	1	On	-	-	-	21	49	70	21	49	70
10/11/08	RY	Drip irrigation	Extension Education	Protected cultivation of vege.crops	1	On	-	-	-	17	-	17	17	-	17

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Durat- Venue ion in (Off / On	Number of other participants			Number of SC/ST			Total number of participangs		
		programme	-		days	Ċampus)	М	F	Т	Μ	F	Т	М	F	Т
10/11/08 to 03/12/08	RY	Micro irrigation maintenance & repairs	Extension Education (GGRC)	Repair and maintains of farm machinery and implements	24	Off	-	-	-	17	-	17	17	-	17
24/11/08	FW	Preparation of Masalas	Home Science	Income generation activities for women empowerment	1	Off	-	20	20	-	-	-	-	20	20
25/11/08	FW	Preparation of Masalas	Home Science	Income generation activities for women empowerment	1	Off	-	-	-	-	26	26	-	26	26
25/11/08 to 26/11/08	FW	Integrated Pest Management in vegetables	Plant Protection	IPM	2	On	-	-	-	-	39	39	-	39	39
27/11/08	PF	Integrated Pest Management in vegetables	Plant Protection	IPM	1	Off	-	-	-	19	01	20	19	01	20
08/12/08	FW	Cultivation practices of Rabi vegetables (Brinjal, Tomato, Chillies)	Horticulture	Production of low volume and high value crops	1	On	-	-	-	05	20	25	05	20	25
10/12/08	PF	INM in Rabi vegetables (Brinjal, Tomato, Okra, Chillies)	Horticulture	Production of low volume and high value crops	1	On	-	-	-	33	-	33	33	-	33
16/12/08 to 17/12/08	FW	Value addition in fruits & vegetables	Home Science	Value addition	2	On	-	-	-	-	25	25	-	25	25
22/12/08	PF	Weed management in	Agronomy	Weed managment	1	Off	-	-	-	27	-	27	27	-	27
Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of	other nts	Num	ber of \$	SC/ST	Tota pa	l numb rticipar	er of ngs
----------	-----------	---	---------------------	--	------------------	--------------------	-----------	--------	--------------	-----	-----------	-------	------------	--------------------	--------------
		programme	_		days	Campus)	Μ	F	Т	М	F	Т	М	F	Т
		Rabi crops													
26/12/08	PF	IPM in vegetables	Plant Protection	IPM	1	Off	2	-	2	17	01	18	19	01	20
29/12/08	PF	Cultivation practices of short duration rabi vege.	Horticulture	Production of low volume and high value crops	1	Off	-	-	-	23	-	23	23	-	23
30/12/08	FW	Preparation of Tomato ketchup	Home Science	Value addition	1	Off	-	25	25	-	-	-	-	25	25
01/01/09	RY	Low cost green house cultivation and maintenance	Horticulture	Protected cultivation of vege.crops	1	On	-	-	-	16	-	16	16	-	16
05/01/09	PF	Management of Mealy bugs in cotton (RKVY)	Plant Protection	IPM	1	Off	32	-	32	-	-	-	32	-	32
05/01/09	PF	Management of Mealy bugs in cotton (RKVY)	Plant Protection	IPM	1	Off	15	-	15	-	-	-	15	-	15
06/01/09	FW	Improvement in summer groundnut cultivation	Agronomy	Integrated crop managment	1	Off	-	-	-	-	22	22	-	22	22
07/01/09	RY	Scientific cultivation of rabi crops	Agronomy	Integrated farming	1	On	-	-	-	19	-	19	19	-	19
09/01/09	FW	Balanced diet from locally available food material	Home Science	Design and development of low/minimum cost diet	1	On	-	-		-	45	45	-	45	45
29/12/09	VLWS	How to conduct demostration	Ext.Edu.	FLD	1	On	4	-	4	10	-	10	14	-	14
22/12/09	PF	Marketing of farm produce	Ext.Edu.	Marketing	1	Off	-	-	-	50	-	50	50	-	50
20/1/09	PF	Integrated management of	Plant Protection	IPM	1/2	Off	-	-	-	32	-	32	32	-	32

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of rticipa	other nts	Num	ber of S	SC/ST	Tota pa	l numb rticipar	er of ngs
		programme	-		days	Campus)	М	F	Т	М	F	Т	М	F	Т
		mealy bugs													
20/01/09	PF	Integrated management of mealy bugs	Plant Protection	IPM	1/2	Off	-	-	-	29	-	29	29	-	29
21/01/09	PF	Integrated management of mealy bugs	Plant Protection	IPM	1/2	Off	13	-	13	-	-	-	13	-	13
21/01/09	PF	Integrated management of mealy bugs	Plant Protection	IPM	1/2	Off	36	-	36	-	-	-	36	-	36
22/01/09	PF	Integrated management of mealy bugs	Plant Protection	IPM	1/2	Off	-	-	-	42	-	42	42	-	42
22/01/09	PF	Integrated management of mealy bugs	Plant Protection	IPM	1/2	Off	-	-	-	36	-	36	36	-	36
22/01/09	PF	Cultivation practices of high value fruit crop	Horticulture	Cultivation Of Fruits	1	Off	22	-	22	-	-	-	22	-	22
23/01/09 24/01/09	VLWS	Oilseed production technology	Agronomy	Productivity enhancement in field crops	2	On	19	-	19	5	-	5	24	-	24
27/01/09	RY	Integrated management in field crops	Plant Protection	IPM	1	Off	-	-	-	42	1	43	42	1	43
10/02/09	FW	Nutrition for mother and child	Home Science	Design and development of low/minimum cost diet	1	On	-	-	-	-	20	20	-	20	20
10/02/09 11/02/09	FW	Green house technology	Ext.Edu.	Protected cultivation (green house, shadnet etc)	2	Off	-	-	-	-	50	50	-	50	50
20/02/09	PF	INM in vegetable crops	Horticulture	Production of low volume and	1	On	-	-	-	4	22	26	4	22	26

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of	other nts	Num	ber of S	SC/ST	Tota pa	l numb rticipar	er of ngs
		programme			days	Campus)	M	F	Т	Μ	F	Т	M	F	Т
				high value crops											
26/02/09	PF	Artificial Insemination & its benefit	Vety.Science	Dairy mamagement	1	On	-	-	-	15	-	15	15	-	15
17/02/09	FW	Importance of Front Line Demonstration	Ext.Edu.	FLD	1	Off	-	-	-	24	74	98	24	74	98
19/02/09	FW	Scientific cultivation of groundnut	Ext.Edu.	Cropping system	1	Off	-	-	-	-	50	50	-	50	50
22/02/09	FW	Scientific cultivation of groundnut	Ext.Edu.	Cropping system	1	Off	-	-	-	12	32	44	12	32	44
26/02/09	FW	Scientific cultivation of Okra	Ext.Edu.	Production of low volume and high value crops	1	Off	-	-	-	13	50	63	13	50	63
2-6/03/09	FW	Scientific cultivation of vegetables	Ext.Edu.	Production of low volume and high value crops	5	Off	-	-	-	-	28	28	-	28	28
02/03/09	FW	Scientific cultivation of Okra	Ext.Edu.	Production of low volume and high value crops	1	Off	-	-	-	-	32	32	-	32	32
03/03/09	FW	Scientific cultivation of Okra	Ext.Edu.	Production of low volume and high value crops	1	Off	-	-	-	-	26	26	-	26	26
05/03/09	FW	Scientific cultivation of Okra	Ext.Edu.	Production of low volume and high value crops	1	Off	-	-	-	26	40	66	26	40	66
06/03/09	FW	Scientific cultivation of Okra	Ext.Edu.	Production of low volume and high value crops	1	Off	-	-	-	-	27	27	-	27	27
09/03/09	FW	Preparation of low cost nutritious diet for children	Home Science	Design and development of low/minimum cost diet	1	Off	-	-	-	-	22	22	-	22	22
13/03/09	FW	Importance of	Agronomy	Production of	1	Off	-	-	-	1	24	25	1	24	25

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of rticipa	other nts	Num	ber of S	SC/ST	Tota pai	l numb rticipar	er of ngs
		programme			days	Campus)	М	F	Т	М	F	Т	М	F	Т
		organic farming and its input		organic inputs											
18/03/09	FW	IPM in vegetables	Plant Protection	IPM	1	Off	-	-	-	-	48	48	-	48	48
19/03/09	PF	Management of fruit flies in cucurbeats	Plant Protection	Biocontrole of pests and disease	1	Off	-	-	-	22	-	22	22	-	22
19/03/09	PF	Management of fruit flies in crop	Plant Protection	Biocontrole of pests and disease	1	Off	-	-	-	26	-	26	26	-	26
21/03/09	PF	IPM in cotton	Plant protection	IPM	1	Off	77	-	77	-	-	-	77	-	77
21/03/09	PF	Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	28	-	28	-	-	-	28	-	28
21/03/09	PF	Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	39	-	39	-	-	-	39	-	39
25/03/09	PF	IPM in field crop	Plant Protection	IPM	1	On	-	-	-	43	9	52	43	9	52
30/03/09	FW	Importance of land preparation for important kharif crops	Agronomy	Resource conservation technologies	1	On	-	-	-	-	19	19	-	19	19
08/04/09	FW	Nutritional deficiency diseases and their management	Home Science	Design and development of low/minimum cost diet	1	Off	-	-	-	-	52	52	-	52	52
31/03/09	PF	Animal vaccination & its advantages	Ani.Sci.	Dairy mamagement	1	Off	-	-	-	40	5	45	40	5	45
01/04/09	FW	Daily nutrition requirement in	Ani. Sci.	Feed management	1	Off	-	-	-	1	31	32	1	31	32

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of rticipa	other nts	Num	ber of S	SC/ST	Tota pa	l numb rticipar	er of ngs
		programme	_		days	Campus)	М	F	Т	М	F	Т	М	F	Т
		milking animals													
04/04/09	FW	Scientific calf rearing & its importance	Ani. Sci.	Dairy mamagement	1	Off	-	-	-	-	32	32	-	32	32
13/04/09	PF	IPM in field crops	Plant Protection	IPM	1	Off	21	-	21	-	-	-	21	-	21
17/03/09	PF	Arid horticulture development	Horticulture	Cultivation Of Fruits	1	Off	-	-	-	58	15	73	58	15	73
17/03/09	PF	Planning for kharif vegetables cultivation	Horticulture	Off season vegetables	1	Off	-	-	-	51	3	54	51	3	54
18/03/09	PF	Mango orchad development	Horticulture	Layout and management of orchards	1	Off	-	-	-	43	30	73	43	30	73
19/3/2009	FW	Arid horticulture development	Horticulture	Cultivation Of Fruits	1	Off	-	-	-	4	22	26	4	22	26
28/3/2009	PF	INM in vegetables	Horticulture	Production of low volume and high value crops	1	On	-	-	-	38	7	45	38	7	45
6/4/2009	FW	Scientific cultivation of brinjal & Indian bean	Horticulture	Production of low volume and high value crops	1	On	-	-	-	16	25	41	16	25	41
Jan-09 to Mar-09	RY	Sewing work	Home Science	Tailoring and stitching		Off	-	-	-	-	33	33	-	33	33
22/4/2009	FW	Capacity building of Self Help Groups	Home Science	Formation and management of SHGs	1	On	-	-	-	1	22	23	1	22	23
18/4/2009	EF	Paddy cultivation through SRI	Agronomy	SRI	1	On	38	-	38	-	-	-	38	-	38
20/4/2009	PF	Scientific cultivation of Paddy. Important	Agronomy	Resource conservation technology	1	On	-	-	-	16	2	18	16	2	18

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of rticipa	other nts	Num	ber of S	SC/ST	Tota pa	l numb rticipar	er of ngs
		programme	-		days	Campus)	Μ	F	Т	Μ	F	Т	М	F	Т
		points and care and Importance of land preparation in summer													
2/5/2009	FW	Scientific cultivation of paddy & other kharif crops	Agronomy	Cropping system	1	Off	-	-	-	-	70	70	-	70	70
22/3/2009 to 28/3/2009	FW		Ext.Edu.	Production of low volume and high value crops	7	Off	-	-	-	-	40	40	-	40	40
26/3/2009	FW	Training for agricultural equipment	Ext.Edu.	Production of small tools and implements	1	Off	-	-	-	-	49	49	-	49	49
29/3/2009 to 4/4/2009	PF	High tech green house	Ext.Edu.	Protective cultivation (green house, shadnet etc)	7	Off	-	-	-	18	-	18	18	-	18
4/5/2009	FW	Anemia & its management	Home Science	Women and child care	1	On	-	-	-	-	26	26	-	26	26
4/5/2009	PF	IPM in cotton and Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	44	-	44	-	-	-	44	-	44
4/5/2009	PF	IPM in cotton and Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	30	-	30	-	-	-	30	-	30
4/5/2009	PF	IPM in cotton and Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	28	-	28	-	-	-	28	-	28

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of	other nts	Num	ber of S	SC/ST	Tota pa	l numb rticipar	er of ngs
		programme			days	Campus)	Μ	F	Т	Μ	F	Т	М	F	Т
5/5/2009	PF	IPM in cotton and Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	56	-	56	-	-	-	56	-	56
11/5/2009	PF	IPM in cotton and Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	40	-	40	-	-	-	40	-	40
11/5/2009	PF	IPM in cotton and Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	28	-	28	-	-	-	28	-	28
21/4/2009	PF	Filling of compost pit	Agronomy	Production of organic inputs	1	Off	-	-	-	27	18	45	27	18	45
22/4/2009	PF	Filling of compost pit	Agronomy	Production of organic inputs	1	Off	-	-	-	43	22	65	43	22	65
20/5/2009	PF	IPM in cotton and Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	34	-	34	-	-	-	34	-	34
20/5/2009	PF	IPM in cotton and Integrated management of mealy bugs in cotton	Plant Protection	IPM	1	Off	-	-	-	30	-	30	30	-	30
29/5/2009	PF	Cultivation of vegetable crops in monsoon	Horticulture	Production of low volume and high value crops	1	On	-	-	-	24	12	36	24	12	36
30/5/2009	PF	Planning for vegetable crops and their cultivation in	Horticulture	Off season vegetables	1	On	-	-	-	28	2	30	28	2	30

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of rticipa	other nts	Num	ber of S	SC/ST	Tota pa	l numb rticipar	er of ngs
		programme	_		days	Campus)	М	F	Т	М	F	Т	М	F	Т
		monsoon													
30/5/2009	PF	IPDM in rice	Plant Protection	Integrated disease management	1	On	25	-	25	-	-	-	25	-	25
28/5/2009	FW	Nutritional deficiencies & their management	Home Science	Women and child care	1	On	-	-	-	-	45	45	-	45	45
16/6/2009	FW	Value addition in soyabean and demonstration of different soyabean products	Home Science	Value addition	1	Off	-	-	-	-	40	40	-	40	40
8/6/2009	FW	Mango graft planting techniques, design & management	Horticulture	Plant propagation techniques	1	Off	-	-	-	-	37	37	-	37	37
4/6/2009	PF	-Land preparation and treatment for vegetable crops in monsoon -Profitable management of Animal Husbandary	Horticulture	Off season vegetables	1	On	-	-	-	45	-	45	45	-	45
4/6/2009	PF	Green manuring in paddy	Agronomy	Production of organic inputs	1	On	-	-	-	14	-	14	14	-	14
8/6/2009	PF	SRI technology in paddy	Agronomy	Integrated farming	1	On	-	-	-	12	-	12	12	-	12
9/6/2009	PF	FLD on soyabean	Agronomy	Crop diversification	1	On	-	-	-	15	7	22	15	7	22

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of	other nts	Num	ber of S	SC/ST	Tota pa	l numb rticipar	er of ngs
		programme	•		days	Campus)	М	F	Т	Μ	F	Т	М	F	Т
10/6/2009	PF	FLD/OFT on pegionpea	Agronomy	Crop diversification	1	On	-	-	-	13	8	21	13	8	21
19/6/2009	PF	-Scientific cultivation of cotton -IPM in cotton	Agronomy	Integrated crop management	1	Off	42	-	42	2	-	2	44	-	44
20/6/2009	FW	Preparation of tomato ketchup & potato wafer	Home science	Value addition	1	On	-	-	-	-	31	31	-	31	31
20/6/2009	FW	Calf rearing	Animal Science	Dairy management	1	Off	-	-	-	12	17	29	12	17	29
20/6/2009	FW	Sowing method, planning and lay out for kitchen garden	Horticulture	Kitchen gardening	1	On	-	-	-	-	55	55	-	55	55
20/6/2009	FW	FLD training on sorghum	Agronomy	Cropping systems	1	On	-	-	-	2	20	22	2	20	22
22/6/2009	PF	FLD training on paddy GR-9	Agronomy	Seed production	1	On	-	-	-	7	5	12	7	5	12
10/7/2009	PF	Scientific cultivation of drill paddy	Agronomy	Seed production	1	Off	-	-	-	16	13	29	16	13	29
16/7/2009	PF	IPM in cotton	Plant protection	IPM	1	Off	35	-	35	15	-	15	50	-	50
16/7/2009	PF	Scientific cultivation of paddy	Agronomy	Integrated crop management	1	Off	15	-	15	-	-	-	15	-	15
27/7/2009	PF	-Scientific cultivation of castor -Importance of soil and its analysis	Agronomy	Cropping systems	1	On	-	-	-	43	2	45	43	2	45
28- 29/7/2009	EF	Integrated Pest and disease management	Plant protection	IPM	2	On	10	-	10	18	-	18	28	-	28

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of rticipa	other nts	Num	ber of S	SC/ST	Tota pa	l numb rticipar	er of Igs
		programme			days	Campus)	М	F	Т	М	F	Т	М	F	Т
30- 31/7/2009	EF	Book keeping system in SHGs	Home Science	Formation and management of SHGs	2	On	-	2	2	-	27	27	-	29	29
31/7/2009	PF	Scientific cultivation in rose	Horticulture	Scientific cultivation of rose	1	Off	-	-	-	54	7	61	54	7	61
3/8/2009	PF	IPM in paddy	Plant protection	Production of low volume and high value crops	1	On	-	-	-	15	-	15	15	-	15
8/8/2009	FW	-Cultivation practices of paddy (drill & T.P.) -Care & management against pest, insect & diseases	Agronomy	Seed production	1	Off	-	-	-	4	17	21	4	17	21
1/9/2009	FW	-Formation & management of SHGs	Home Science	Formation and management of SHGs	1	On	-	-	-	-	45	45	-	45	45
4/9/2009	PF	Planning for rabi vegetable	Horticulture	Off seasons vegetables	1	On	-	-	-	36	20	56	36	20	56
5/9/2009	PF	-Side effects of insecticides & their solutions -How to purchase insecticides	Ext.Edu.	Side effects of insecticides & their solutions -How to purchase insecticides	1	On	-	-	-	63	-	63	63	-	63
22/9/2009	FW	AI and its importance in dairy animals	Animal Science	Dairy management	1	On	-	-	-	-	25	25	-	25	25
23/9/2009	PF	Important point to be considered by farmer in dairy	Animal Science	Dairy management	1	Off	-	-	-	21	38	59	21	38	59

Date	Clientele	Title of the training	Discipline	Thematic area	Durat- ion in	Venue (Off / On	Num pa	ber of rticipa	other nts	Numl	ber of S	SC/ST	Tota pa	l numb rticipar	er of Igs
		programme	-		days	Campus)	М	F	Т	М	F	Т	М	F	Т
		animal during whole day													
24/9/2009	FW	Scientifically calf rearing	Animal Science	Dairy management	1	Off	-	-	-	1	64	65	1	64	65
25/9/2009	PF	AI and its importance in dairy animals	Animal Science	Dairy management	1	Off	-	-	-	16	4	20	16	4	20
24- 25/09/2009	EF	INM	Horticulture	INM	2	on	20	-	20	-	-	-	20	-	20
26/9/2009	PF	Important point to be considered by farmer in dairy animal during whole day	Animal Science	Dairy management	1	Off	-	-	-	19	6	25	19	6	25
26/9/2009	FW	Important point to be considered by farmer in dairy animal during whole day	Animal Science	Dairy management	1	Off	-	-	-	18	3	21	18	3	21

<u> Annexure - V</u>

• List of Popular Articles

1.	Shri B.M. Tandel and Shri V.N. Parmar(2008) " GREEN HOUSE MA CAPSICUM
	MARCHA NI KHETI PADHHATI" Gujarat Mitra, Date-13th October'2008.
2.	Arit N. Soni (2008) "SWA SAHAY JUTHO- GRAM VIKAS NI EK GURU CHAVI"
	Gujarat Mitra, Date-20 th October'2008.
3.	Shri B.M. Tandel (2008) " OIL PAM NI KHETI" Krushi Jivan, October'2008.
4.	Dr. H.M. Viradia and Dr. H.D. Mehta (2008) "OCHHA KHARCHE VADHU AAVAK
	AAPTO PAK: DIVELA" Krushi Jivan, October'2008.
5.	Dr. J.J. Pastagia (2008) "BHINDANI JIVATO ANE TENU SANKLIT NIYANTRAN"
	Gujarat Mitra, Date-3 rd November'2008.
6.	Dr. J.J. Pastagia (2008) "RINGAN NI JIVATO ANE TENU SANKLIT NIYANTRAN"
_	Gujarat Mitra, Date-10 ^{°°} November'2008.
1.	Arti N. Soni (2008) "KHETI MA KARYA KARTI MAHILAAO MATE POSHAK
•	AAHAAR" Gujarat Mitra, Date- 17" November 2008.
8.	Dr.J.J. Pastagia (2008) " VELAWALA SHAKBHAJI NI JIVATO ANE TENU SANKLIT
0	NIYANI RAN GUJAFAT MITRA, DATE- 24" NOVEMBER 2008.
9.	AILIN. SOIII (2008) BAALAKONA SUTOGTA UCHHER MATE KETLIK BABATO NU AMAL KARO" Krushi Covidva, November'2008
10	Shri B.M. Tandel and Dr. C.K. Timbadia. (2008) "OIL PAAM LAMBA GALA SUDHI
10.	NIVAMIT AAVAK AAPTO EK BAGAVATI PAK" Krushi Govidva, November'2008
11	Shri B.M. Tandel and Dr. 1 J. Pastagia (2008) "PAPAIYANI KHETI DWARA TUNKA
	GALA MA VADHU NAFO MELAVO" Krushi Viqyan, November'2008
12	Arti N Soni (2008) "BHARAT NA GRAMYA SAMAAJ MA STRIONI STHITI" Gujarat
	Mitra. Date- 1 st December'2008.
13.	Dr. J.J. Pastagia (2008) " KOBIJ ANE KOBI FLOWER NI JIVATO ANE TENU
	SANKLIT NIYĂNTRAN ^{[*] Gujarat Mitra, Date- 15th December'2008.}
14.	Dr. H.M. Viradia (2008) "GHAUNU UTPADAN VADHARVANI CHAVIO" Gujarat
	Mitra, Date-22 nd December'2008.
15.	Arti N. Soni (2008) "GRAMIN BAALAKO MATE OCHHA KHARCHE
	POSHANYUKTA VIVIDH VANGIO BANAVO" Gujarat Mitra, Date-29 th
	December'2008.
16.	Arti N. Soni (2008-09) "SWA SAHAAY JUTH : UDYOG SAHSI KTAA SATE SWA
	ROJGAAR" Techno economic letter. Vol. 156, year' 2008-09 (Total 18 Articles).
17.	Dr. J.J. Pastagia (2009) "AAMBAWADIYA MA PAK SANRAKSHAK ROG
10	NIYANI RAN [®] Gujarat Mitra, Date- 5 ^{°°} January 2009.
18.	Arti N. Soni (2009) "KHETI KSHETRE MAHILAO" Gujarat Mitra, Date- 12"
10	January 2009. Dr. H.M. Virodia and Dr. H.D. Mohto (2000) "LINALLI DANCAR NI KHETI
19.	DI. H.M. VIIAUIA AND DI. H.D. MENIA (2009) UNALU DANGAR IN RHETT PADHHATI" Guiarat Mitra, Date, 12 th and 19 th January 2000
20	Shri B.M. Tandel and Shri V.N. Parmar (2009) "GREEN HOUSE MA CAPSICUM
20.	MARCHA NI KHETI PADHHATI" Krushi Govidva January'2009
21	Dr. H.M. Viradia and Dr. H.D. Mehta (2009) "DAKSHIN GUJARAT MA OCHHA
£1.	KHARCHE VADHU AAVAK AAPTO AASHASPAD PAAK DIVELA" Krushi Govidva
	January'2009.
22.	Arti N. Soni (2009) " GRAMIN MAHILAAO GHARE BETHA FAL ANE SHAKBHAJI
	PARI RAKSHAN VISHE JAANO" Gujarat Mitra, Date- 2 nd February'2009.
23.	Dr. H.M. Viradia (2009) "MUL VISTAR NU VATAVARAN ANE PAK UTPADAN"
	Gujarat Mitra, Date- 9 th and 16 th February'2009.

24.	Shri B.M. Tandel (2009) " UNAALU RINGAN NI AADHUNIK KHETI PADHHATI APPNAVO" Krushi Govidya, February 2009.
25.	Dr. J.J. Pastagia and Dr. H.D. Mehta (2009) "PHEROMONE TRAPE TECHNOLOGY- KITAK NIYANTRAN NI ANOKHI TECHNOLOGY" Krushi Govidya, February'2009.
26.	Shri B.M. Tandel (2009) "UNNALU RINGAN NI AADHUNIK KHETI PADHHATI" Champion Agro World, February 2009.
27.	Arti N. Soni (2009) "GRAMYA STRIO NU SASHAKTI KAARAN" Champion Agro World, February'2009.
28.	Arti N. Soni (2009) "GRAMYA GARIBO MAATE AASHIRWAD RUP MICROFINANCE" Champion Agro World, February'2009.
29.	Dr. H.M. Viradia (2009) "MUL VISTARNU VAATAVARAN ANE PAAK UTPADAN" Gujarat Mitra, Date- 9 th March'2009.
30.	Dr. N.M. Chauhan (2009) "AGRICULTURE INFORMATION TECHNOLOGY" Gujarat Mitra, Date-16 th March' 2009.
31.	Dr. N.M. Chauhan (2009) "MODERN AGRI-INFORMATICS AND AGRI POLICLINICS" Gujarat Mitra, Date-30 th March' 2009.
32.	Arti N. Soni (2009) "BAALAKONE OCHHA KHARCHE POSHAN YUKTA VIVDH VAANGIO BANAVI PIRSO" Krushi Govidya, March'2009.
33.	Arti N. Soni (2009) "MAHILAA KUEDUTO NA SASHAKTI KARAN MATE NI VYUH RACHANA" Champion Agro World, March' 2009.
34.	Arti N. Soni (2009) " SWA SAHAY JUTHO- GRAM VIKAS NI GURU CHAAVI" Champion Agro. World March'2009.
35.	Arti N. Soni (2009) " KHETI KSHETRE MAHILAAO" Gram Swaraj, March'2009.
36.	Arti N. Soni (2009) "SOYA FLOUR" Kheti Aadharit Udyogo, A.A.U., Anand, March'2009.
37.	Dr. H.M. Viradia (2009) "UNAALA MA MAGFALI NU DODH THI BE GHANU UTPADAN MELAVO" Divya Bhaskar, Date- 6 th April'2009.
38.	Dr. N.M. Chauhan (2009) " AGRI INFORMATICS ANE AGRI POLICLINIC NA KARYAKSHETRO" Gujarat Mitra, Date- 6 th April'2009.
39.	Dr. J.J. Pastagia (2009) "TAMETAA MA PAK SANARAKSHAN" Gujarat Mitra, Date- 13 th April'2009.
40.	Dr. J.J. Pastagia (2009) "MARCHAMAA PAAK SANRAKSHAN" Gujarat Mitra, Date- 20 th April'2009.
41.	Shri B.M. Tandel (2009) "AAMBA NU VANSH VARDHAN, KALAMO NI PASANDGI ANE ROPNI" Krushi Govidya, April'2009.
42.	Shri B.M. Tandel and Shri V.N. Parmar (2009) " GREEN HOUSE MA CAPSICUM MARCHANI KHETI PADHHATI" Narmada Kisan Parivaar Patra, April'2009.
43.	Dr. N.M. Chauhan (2009) " KHETI MA JAIVIK KHATARONI AGATYATA" Krushi Jivan, April'2009.
44.	Dr. J.J. Pastagia (2009) "SHAKBHAJI PAAKO RINGAN ANE BHINDAMA ROG NIYANTRAN" Gujarat Mitra, Date- 11 th May'2009.
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Annexure - VI

TECHNOLOGY INVENTORY AND ACTIVITY CHART- III

Include

- 1. Name of research institutes, research stations, regional centres 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	Introduction of new variety	Pigeon pea – Vaishali	2007-08	Pulse Res. Station, NAU, Navsari	-
2	New variety & land configuration	Groundnut – GG-20	1991	NRCG, Junagadh	-
3	New variety & land configuration	Groundnut – GG-6	1996	NRCG, Junagadh	-
4	New variety & land configuration	Gram – GG-2	1994	Pulse Res. Station, NAU, Navsari	-

3. Activity Chart

Crop/ Enterprise	Problem	Cause	Solution	Activity	Reference of technology
Cotton	Low productivity of cotton under rainfed black soil	 Imbalance use of fertilizer application. Pest and disease occurrence 	 Application of RD of fertilizer. IPM 	 Conduct component FLD to demonstrate on farmers field on RD of fertilizer Training, awareness and FLD 	Main cotton research station, NAU., Surat
				programme on IPM of cotton.	

Soybean	Low productivity of soybean	1.Use of imbalance fertilizer 2. No use of Bio fertilizer.	1. An application of RD of fertilizer and	Conducted FLD training and	
			biofertilizer	awareness programme	
Ground nut	Low productivity of groundnut	No use of biofertilizer and imbalance use of RD of fertilizer	1. An application of RD of fertilizer and biofertilizer	Conducted FLD training and awareness programme	
Pigeon pea	Low productivity of pigeon pea	Use of local variety and sowing on flate land	 Introduce new variety of Pigeon pea like Vaishali Land configuration, Use of bio fertilizer and RD of fertilizer 	Conducted FLD and OFT on Pigeon pea and training programme	Director of Research and Pulse research station NAU, Navsari
Gram	Low productivity	Use of local variety	1.Introduce new variety 2.use of Bio fertilizer and RD of fertilizer	Conducted FLD and training , awareness programme	Director of Research and Pulse research station NAU, Navsari
Drill Paddy (GR-5,8,9)	Low productivity	Use of local variety	Introduce new variety	Conducted FLD and training programme	Rice research Station, NAU, Vyara
Paddy	Low productivity	They are not sowing of Green manure before TP of planting	Imbalance use of fertilizer and	 1.Introduce Green manure and conducted FLD and training programme on Paddy 2. Use of RD of ferilizer 3. Use of improved variety 	Director of Research,m Rice Research Station,NAU, Vyara

Crop	Name of technology	Recommended by Whom	Reason of selection	Characteristics of variety.
Groundnut (Kharif)	Land configuration	Research Scientist, Oil seeds, Junagadh	Growing G'nut on flat bed There is possibility of water stagnation during heavy rain which affect groundnut plant.& use old variety.	GG-20 Virginia bunch type, Erect pod bold, thick, oil content 54.9 %, protein 25.1 %.
Pigeon pea (Kharif)	Introduction of new variety	Research Scientist, Pulses Crop, Navsari	Use Local variety which give low yield & susceptible to wilt.	Vaishali Seed are white & red, more branches in plant, pod number high, tolerant to wilt, SMD, phytophtera, maturity days 150-160.
Soybean (Kharif)	INM	Research Scientist, Nizer Res. Sta. NAU, Vansda	Farmers grown non productive drilled paddy which is not remunerative. To replace drill paddy to introduce with agronomic practices.	Guj. Soy 2 Yellow, Bold seeded, Suitable to heavy rainfall area.
Gram (Rabi)	Land configuration	Research Scientist, Pulses Crop, Navsari	Use Local variety & growing on flat bed.	GG-2 Bold size seeds with reddish colure also suitable for dalia. It is god variety for inter culturing with sugarcane.
Paddy (TP)	ICM	Research Sct. NARP, NAU, Navsari	To introduction of new variety for transplant and drill paddy.	 GR-7 (Early maturing-115 day) Medium grain, good cooking quality, Tolerant to grain discoloration ,blight, blast & hoppers, stem borer GR-12 Medium duration ,fine long slender grain. Tolerant to grain discoloration ,blight, blast & hoppers, stem borer
Drill Paddy	ICM	Research Sct. MRRS,AAU, Navagam	To introduction of new variety for drill paddy	GR-8,GR-9 Early maturing, course grain, suitable to hilly region, non lodging type.
Brinjal	INM	Vegetable Research Unit, NAU, Navsari	Imbalance use of fertilizer & not using FYM.	
Okra	INM	Vegetable Research Unit, NAU, Navsari	Imbalance use of fertilizer & not using FYM.	

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