

ANNUAL PROGRESS REPORT



1st APRIL-2012 TO 31ST MARCH-2013

SUBMITTED TO ZONAL PROJECT DIRECTORATE ZONE-VI, JODHPUR



SUBMITTED BY
KRISHI VIGYAN KENDRA
SAMODA-GANWADA
TA.: SIDHPUR, DIST.: PATAN (N.G.)

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ANNUAL REPORT

(1ST APRIL-12 TO 31ST MARCH-13)

1

GENERAL INFORMATION ABOUT THE K.V.K.

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra	02767	02767	www.kvksamoda@yahoo.com
Samoda-Ganwada	285528	285528	
Ta.Sidhpur, Di. Patan			
Pin. 384 151 (N.G.)			

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

Address	Telephone		E mail
	Office	FAX	
Saraswati Gram	02767	02767	www.kvksamoda@yahoo.com
Vidyapeeth,	285528	285528	
Samoda-Ganwada			
Ta.Sidhpur, Di. Patan			
Pin. 384 151 (N.G.)			

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

Name	Telephone / Contact					
	Residence	Mobile	E-mail			
Dr. Sushil Kumar Sharma	09887030798	7567719487	sushil4sharma@gmail.com			

1.4. Year of sanction: Year-1993

1.5. Staff Position (as on 31th March-2013)

Sr. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with basic	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/ Others)
1.	Programme Coordinator	Dr. Sushil Kumar Sharma	Programme Coordinator	Soil Science	15600- 39100 30320/-	8/8/2012	Permanent	General
2.	Subject Matter Specialist	Shri H.P.Patel	S.M.S.	Extension Education	15600- 39100 31270/-	8/5/1993	Permanent	General
3.	Subject Matter Specialist	Shri G.A.Patel	S.M.S.	Plant Protection	15600- 39100 31270/-	6/5/1993	Permanent	General
4.	Subject Matter Specialist	Smt. H.B.Patel	S.M.S.	Home Science	15600- 39100 26870/-	19/8/2002	Permanent	General
5.	Subject Matter Specialist	Shri S.S. Darji	S.M.S.	Horticulture	15600- 39100 21000/-	2/4/2012	Permanent	OBC
6.	Subject Matter Specialist	Shri Shayam Das	S.M.S.	Agronomy	15600- 39100 21000/-	5/4/2012	Permanent	ST
7.	Programme Assistant	Shri D.N.Patel	Programme Assistant	-	9300- 34800 21380/-	22/2/1996	Permanent	General

Sr. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with basic	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/ Others)
8.	Programme Assistant	Smt. J.N.Patel	Programme Assistant	-	9300- 34800 21380/-	27/7/1996	Permanent	General
9.	Computer Programmer	Shri D.R.Patel	Computer Programmer	-	9300- 34800 18980/-	1/9/2002	Permanent	General
10.	Accountant/ O. S.	Shri N.B.Patel	Accountant/ O. S.	-	9300- 34800 21780/-	25/1/1996	Permanent	General
11.	Steno/ Jr.Clerk	Shri J.K.Patel	Steno/ Jr.Clerk	-	5200- 20200 9860/-	1/9/2002	Permanent	General
12.	Driver	Shri R.A.Patel	Driver	-	5200- 20200 8560/-	14/8/2010	Permanent	General
13.	Supporting Staff	Shri R.H.Desai	Supporting Staff	-	5200- 20200 9330/-	14/5/1993	Permanent	OBC
14.	Supporting Staff	Shri R.D.Thakor	Supporting Staff	-	4440-7740 8810/-	25/1/1996	Permanent	OBC
15.	Supporting Staff	Shri K.A.Patel	Supporting Staff	-	4440-7740 8810/-	25/1/1996	Permanent	General
16.	Supporting Staff	Shri P.V.Parmar	Supporting Staff	-	5200- 20200 9700/-	25/1/1996	Permanent	SC

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	2.00
3.	Under Crops	9.00
4.	Orchard/Agro-forestry	5.00
5.	Others	3.00
	Total:	20.00

1.7. Infrastructural Development:

(A) Buildings

Sr.	Name of building	Source	e Stage					
No		of		Complet	е	Inc	comple	te
		funding	Completion Date	Plinth area (sq.m)	Expenditure (Rs.)	Starting Date	Plinth area sq.mt	Status of constructio
1.	Administrative Building	ICAR	1993	694	21,87,250=00	-	1	-
2.	Farmers Hostel	ICAR	1999-2000	308.82	12,37,848=11	-	1	-
3.	Staff Quarters (6)	ICAR	1996-97	731	16,89,512=74	-	1	-
4.	Demonstration Units (2)	SGVP	-	20,000	-	-	-	-
5.	Fencing	ICAR	2001-02	-	2,99,902=00	-	•	-
6.	Rain water Harvesting system	-	-	-	-	-	-	-
7.	Threshing floor Farm go down	ICAR	2006-07	262.89 44.89	2,68,039=00	-	-	-
8.	Implement shed	ICAR	2011-12	-	2,85,640=00	-	-	-

(B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total KMS. Run	Present status
Tractor	1992-93	1,82,910=00	-	Write off
Jeep	2009-10	7,60,236=00	103120	-
Motorcycle	2010-11	49,695=00	19503	-

(C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Camera	1994	1,600=00	OK
Slide Projector/ O.H.P.	1994	23,969=00	OK
Mega Phone	1994	2,140=00	OK
Type Writer	1994	30,675=00	OK
Litho machine	1994	10,925=00	OK
TV	1995	15,695=00	OK
Computer + Printer	2006	66,530=00	OK
Xerox machine	2006	58,000=00	OK
Stabilizer	2006	1,750=00	OK
LCD Projector	2007	54,326=92	OK
DVD Player	2007	3,846=16	OK
Laptop	2007	39,423=08	OK
Digital Camera	2007	19,903=84	OK
Digital Camera	2009	24,800=00	OK
P.A. System	2009	28,600=00	OK
Computer	2009	49,500=00	OK
Generator	2009	98,500=00	OK
Fax machine	2009	19,800=00	OK
Multicrop thresher	2011	1,46,000=00	OK
Rotary weeder	2011	51,450=00	OK
Power sprayer	2011	15,855=00	OK
Seed cum fertilizer drill	2011	27,250=00	OK
K-YAN	2013	76,650=00	OK

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

SI.	Date	Name & Designation of		Salient	-	Action taken of SAC
No		Participants		Recommendations		Dt. 27/3/2012
				Of SAC (Dt.22/3/13)		
1.	22/3/13	Shri L.V.Patel	>	Arrange the training	>	FLD of each crop
		Director, KVK, SGVP,		programme about		were organized on
		Samoda		reclamation of		KVK Farm
		Dr.K.A.Thakkar		problematic soil of	\triangleright	Area under MIS
		D.E.E.,S.D.A.U.,S.K.Nagar		Sami, Harij,		was increased by
		Dr. K.D.Solanki		Radhanpur &		imparting effective
		Associate Director of		Santalpur talukas of		training
		Ext.Edu.S.D.A.U.,		the district.	\triangleright	Improved seedlings
		S.K.Nagar	>	Arrange the		& saplings are
		Dr. Y.I.Sihora		demonstration about		raised at KVK
		Dy.Director of Agriculture		the use of potassic		nursery (Lime,
		State Agril. Dept., Patan		fertilizer in B.T.		Pomogranate,
		Shri A.K.Nair,		Cotton.		Brinjal, Cauliflower
		D.D.M., NABARD, Patan	>	Extension activities of		and Tobacco,
		Shri S.S.Patel		the KVK should cover		Tomato)
		Asst. Director of Agril.		all the blocks of the	>	Training
		(Extn.) State Agril.		district		programme were
		Dept., Patan	>	To study the impact of		organized to create
		Shri P.G.Patel		long term vocational		awareness
		Asst. Director (S.C.)		training programme		
		G.S.L.D.C., Patan	>	To prepare proposals		regarding usage of solar cooker
		Dr. P.H.Brahmabhatt		for OFT & FLD of	1	KVK have
		V.OI, Sidhpur				
		Shri J.B.Patel		major crops & send to		conducted two
		Dept. Incharge		the DAO of the		training programme
		G.S.F.C., Sidhpur	_	district.		for popularization of
		Dr. M.V.Patel		To increase the area		Rotary weeder,
		Programme Co-ordinator		under MIS in the		Power sprayer and
		KVK, Mehsana		district,		seed cum fertilizer
		Dr. Sushilkumar Sharma		To organize the		drill
		Programme Co-ordinator		demonstration of		During this year 4
		KVK, Patan		qualitative fodder		vocational training
		Shri Lakhubhai S.Patel		crops		programme were
		Farmer Representative		To organize		organized for Rural
		Shri Ramchandra T. Patel		vocational training		youth on agarbatti,
		Farmer Representative		programme of value		Aonla product,
		Smt. Varshaben V. Patel		addition in carrot		Vermi compost and
		Farm Women		Actively participation		Nursery raising
		Representative		in Krushi Mahotsav		
		Subject Matter Specialists				
		(Agril. Ext., Pl.Protection, Horti., Crop Production, Home				
		Science)				
		Goldfidej				

2

DETAILS OF DISTRICT (2012-13)

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

S. No	Farming system/enterprise		
1.	Livestock raising with crop production (mixed farming)		
2.	Livestock raising only		
3.	Poultry Farming.		
4.	Cropping system included in district		
	- Mono cropping - Mix cropping		
	- Inter cropping - Relay cropping		
5.	Vegetables & fruits cultivated area is very low.		

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

S. N.	Agro-climatic Zone	Characteristics							
1.	Zone No.4	- Average rainfall is 610 mm.							
	(Patan, Sidhpur and								
	Chansama taluka)	- Main crops- Cotton, Wheat, Castor, Cumin, Bajar							
	·	& Mustard, Fennel, Chilli, Carrot							
2.	Zone No.8	- Average rainfall is 500mm.							
	(Harij, Sami,	- Soil type is loamy, sandy, saline and medium black.							
	Radhanpur and	- Main Crops - Rainfed Cotton, Wheat, Gram,							
	Santalpur taluka)	Dillseed, Mustard & Cumin.							

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Heavy	- High Water holding capacity	30400
	black soil	 Low permeability 	
		 Water logging condition 	
		- Fertile soil	
2.	Medium	- Medium WHC	334400
	black soil	 Medium permeability 	
		- Fertile soil	
3.	Loamy soil	 More retain water and nutrient than 	213220
		sandy soil and low retain water and	
		nutrient than black soil	
4.	Sandy soil	- Low WHC	165424
		 High permeability 	
5.	Saline soil	- Salts accumulation on the soil surface	109535
		 Water logging condition 	
		 Crack formation during 	
		Summer Season	

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

S. N.	Cro	р	Area (00,ha)	Production (00 ,m.ton)	Productivity (kg./ha)
1.	Castor		459	756	1646
2.	Mustard		429	599	1397
3.	Cotton	Irrigated	208	1015	830
		Rainfed	480	395	140
4.	Bajra	Kharif	574	315	549
		Summer	82	212	2575
5.	Wheat		329	1030	3131
6.	Cumin		198	78	395
7.	Green-gran	n	153	55	362
8.	Black-gram	1	122	59	480
9.	Til		59	17	287
10.	Guar (seed)	81	40	494

2.5. Weather data

Month	Rainfall	Temp	perature ⁰ C	Relative I	Humidity (%)
	(mm)	Minimum	Maximum		
				At-7.40	At-14.40
April-12		29.72	38.28	-	-
May-12		31.06	39.96	-	-
June-12		31.04	40.55	-	-
July-12	115mm	30.44	40.18	-	-
August-12	122mm	26.13	35.22	-	-
September-12	160mm	25.01	30.34	-	-
Oct12		24.82	32.65	-	-
Nov12		17.78	27.82	-	-
Dec12		12.28	22.70	-	-
Jan13		10.37	19.83	-	-
Feb13		14.72	23.04	-	-
March-13		20.44	29.83	-	-

2.6. Details of Operational area / Villages (2012-13)

Sr.	Taluka	Name of the	Name of the Village	Major crops &	Major problem identified	Identified thrust area
No.		block	G	enterprises	, ,	
1,	Sidhpur	Sidhpur	Mudana, Lukhasan, Sandesari, Ganglasan, Biliya, Chandesar, Pitambarpura, Dhanawada, Vadhana, Ganeshpura, Dethali, Mesar, Chandravati, Sahesa, Mudvada, Madhapura, Dhumad, Dindrol	Castor Cotton Mustard Cumin Wheat Green-gram Fennel Bajra Carrot	-Average productivity is low in major cropLow ground water tableInadequate irrigation water & facilityPest & diseases like wilt in Castor, root rot in Cotton & termite in Wheat largely reduce the yield & blight in Cumin.	-Average productivity of major crops (castor, Cotton, Bajara, Green-gram, Mustard Wheat & Potato, Cumin) is low It can be increased by • Adoption of improved & high yielding variety & INM • Imparting training regarding plant
	Chanasma	Chanasma	Maniyar, Mithadharwa, Pindharpura, Bhatsar, Dhanodarda, Islampura Selavi		-Mealybug in cottonSoil productivity status is lowPoor knowledge & adoption of Horticultural	protection measures & IPM & IDM • Use of organic manures -Inadequate irrigation water
	Harij	Harij	Varana, Rafu, Harij,		cropsAverage production of milk per animal is low.	It can be solved by • Adoption of drip irrigation
	Sami	Sami	Zilwana, Kuwarad, Jesada		-Loss of food grains due to poor knowledge & storage	 Irrigation in alternate
	Patan	Patan	Manud, Kamliwada, Hajipur, Kuder, Balisana, Sagodiya, Khimiyana		facility.	furrow method. • Adoption of less water required crops -Area under fruits & vegetable
	Radhanpur	Radhanpur	Vasada			crops is very lowTo introduce fruits &
	Santalpur	Santalpur	Ganjisar, Hamirpura, Varnosari			vegetable crops like Aonla, Kagdi lime & Ber, Cauliflower, Cabbage, Brinjal, Pomogranate

Sr. No.	Taluka	Name of the block	Name of the Village	Major crops & enterprises	Major problem identified	Identified thrust area
					*Low income of landless Agril. Labourers	- Average milk production per animal is low
					-Very poor knowledge &	It can be increased by
					adoption regarding fruits	 Fodder management
					& vegetables preservation	Breed selection
						- Value addition of fruits & vegetable (Pickles, Jam, Jelly, Squash, Candy etc.)
						- Low income of landless Agril. Labourers.
						 Income generation activities through agro base Gruh Udoyog

2.7. Priority thrust areas

S. No	Thrust area
1.	Average productivity is low in major crops like Castor, Wheat, Mustard and Cotton.
2.	Inadequate irrigation water facility.
3.	Area under horticultural crops is less.
4.	Average productivity of milk per animal is low
5.	Deterioration of food grains
6.	Low income of landless agricultural labourers

3

TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by K.V.K. during 2012-13.

		•						
		OFT		FLD				
		1		2				
Numb	Number of OFTs Number of Farmers						f Farmers	
Targets	Achieve- ment	Targets	Achieve- ment	Targets	Achieve- ment	Targets	Achieve- ment	
02	02	20	20	09	06	210	220	

	Tra	aining		Extension Activities			
	3				4	4	
Number	of Courses	Number of Participants		Number of Number of activities Partici[ants			
Targets	Achieve-	Targets	Achieve-	Targets	Achieve-	Targets	Achieve-
	ment	_	ment		ment		ment
119	105	2380	2861	40	46	1500	1434

See	d Productio	n (Qtl.)	Planting	g materia	l (No.)	Organic manure (kg.)			
	5			6			7		
Crop	Targets	Achieve- ment	Crop	Targets	Achieve- ment	Particular	Targets	Achieve- ment	
			Lime (Kagzi Lime)	1000	703	Vermi compost	2000	1450	
			Tobacco	200000	210500				
			Ornamental	500	240				

3.B. Abstract of interventions undertaken

S.	Thrust area	Crop/	Identified problem	Title of	Title of FLD if	Title of	Title of	Extension	Supply of
No.		Enterprise		OFT in any	any	Training if any	training for extension	activities	seeds, planting
							personnel if		materials etc.
1.	Productivity of major crops is low	Cotton	-Para wilt -Integrated pest management -Integrated nutrient management	Lower income from cotton cultivation	-INM	-Production technology -INM -IPM	any Awareness about the latest technologies of agriculture	-Training -Field day -Demonstration	-Supplied of micronutrient
		Castor	-Wilt disease -No adoption of high yielding variety	-	Introduction of high yielding & disease (Wilt & root rot) resistance variety	-Scientific cultivation of Castor -Management of wilt disease	Awareness about the latest technologies of agriculture	-Training -Field day -Demonstration -Agri. magazine	-
		Mustard	-Use of local variety -Deficiency of sulphur in soil	-	-	-Scientific cultivation of Mustard -Integrated nutrient management Mustard	Awareness about the latest technologies of agriculture	-Training -Field day -Demonstration -Agri. magazine	-
		Pulses Green- gram	-Use of local variety -No use of phosphatic fertilizer	-	Introduction of Improved & high yielding variety	-Importance of phosphatic ferti. In pulses -Cultivation practices of Green-gram	Awareness about the latest technologies of agriculture	-Training -Field day -Demonstration -Agri. magazine	Seed of high yielding variety

S. No.	Thrust area	Crop/ Enterprise	Identified problem	Title of OFT in 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.
		Wheat	-Use of local variety -Less adoption of weed, fertilizer and micro nutrient management practices	Low yield of wheat	Introduction of improved & high yielding variety	-Scientific cultivation of wheat -Fertilizer and irrigation management in wheat	Awareness about the latest technologies of agriculture	-Training -Field day -Demonstration	-Supplied of seed -Supply of Thiourea
		Cumin	-Use of local variety -No adoption of disease management practices	-Incidence of wilt disease -Poor germination of seed	Introduction of improved & high yielding variety	-Scientific cultivation of cumin -Wilt disease management in cumin	Awareness about the latest technologies of agriculture	-Training -Field day -Demonstration -Articile -Agri. magazine	-Seed of high yielding variety -Bio- fungicide -Plant growth regulator
		Fennel	-Use of local variety -No adoption of IPM	-	Introduction of improved & high yielding variety	-Scientific cultivation of fennel -Sucking pest & sugary disease management	Awareness about the latest technologies of agriculture	-Training -Field day -Demonstration -Articile -Agri. magazine	Seed of high yielding variety
2.	Problematic soil	Alkaline soil Saline soil	-Exchangeable sodium content high -Soluble salts content high	-	-	-Management of problematic soil -Importance of soil and water analysis in crop production	Awareness about the latest technologies of agriculture	-Training	-

S. No.	Thrust area	Crop/ Enterprise	Identified problem	Title of OFT in 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.
3.	Shortage of irrigation water	-Agril. Engg.	-Ground water table low.	-	-	-Importance of water saving devices like alternate furrow method of irrigation Drip & sprinkler method of irrigation at critical stages	Awareness about the latest technologies of agriculture	-Training	-
4.	Area under fruit crops is less	Lime	-Less fruit production in summer season	-	-	-Introduction of less water required horticulture crop -Importance & application of Bahar treatment	Awareness about the latest technologies of agriculture	-Training	Sapling of kagzi lime
5.	Average milk production per animal is low	Live stock	-Most of the indigenous breeds -Fodder requirement imbalance	-	-	-Management of fodder & concentrate for milch animal	Awareness about the latest technologies of agriculture	-Training	-
6.	Low income of land less agril. Labour	Rural youth	-	-	-	Create awareness and skill about income generation activities	-	-Training	-

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	Vegetable	Fruits	Spices	Plantation crops	Tuber crops	Total
Varietals Evaluation	-	-	-	-	-	-		-	-	-
Seed/ Plant production	-	-	-	-	-	-	-	-	-	-
Weed management	-		-	-	-	_	-	-	-	-
Integrated crop management	-	-	-	٧	1	-	-	-	-	01
Integrated Nutrient management	٧	-	-	-	-	-	٧	-	-	02
Integrated farming systems	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	_	-	-	-	-	-	-	-	-	-
Farm Machineries	-	-	-		-	_	-	-	-	-
Value Addition	-	-	-	-	-	_	-	-	-	-
Integrated Pest management	-	-	-		-	-	-	-	-	-
Integrated Disease management	-	-	-	-	ı	-	٧	-	-	01
Resource conservation technology	-	-	-	-	I	-	-	-	-	-
Small scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL:	01	-	-	01	-	-	02	-	-	04

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

	T		1		T	I		
Thematic areas	Cereals	Oilseeds	Pulses	Commer cial crops	Fruits	Spices	Tuber crops	Total
Varietals	-	-	-	-	-	-	-	-
Evaluation								
Seed/	-	-	-	-	-	-	-	
Plant production								
Weed	-	-	-	-	-	-	-	-
Management Integrated crop				Cotton +				01
manage-ment	-	_	-		_	_	_	01
manago mont				Castor				
				intercrop				
Integrated	Use of	-	-	-		Use of		02
Nutrient	thiourea					growth		
management						hormones		
Integrated	-	_	-		-	_	_	-
farming systems								
Mushroom	-		-	-	-	-	-	-
cultivation								
Drudgery	-	-	-	-	-		-	-
Reduction								
Farm	-	-	-	-	-	-	-	-
Machineries								
Value	-	-	-	-	-	-	-	-
Addition								
Integrated Pest	-	-	-	-	-	-	-	-
management					Diagrant			01
Integrated Disease	-	-	-	-	Bioagent-	-	-	01
management					Trichoderma			
Resource	_	_	_	_	_	_		_
conservation								
technology								
Small scale	-	-	-	-	-	-	-	-
income								
generating								
enterprises								
TOTAL :	01	-	-	01	02	-	-	04

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

A. Technology Assessment

(I) Trial – 1 (Crop : Cotton) Year- 2011-12

1. Title : Lower income from Cotton mono crop

2. Problem diagnose/: Not sown intercrop in Cotton

Defined

3. Details of technology selected for assessment / Refinement & source of Technology

Category	Source of	Technology details
	technology	
T1: Farmer practices	Farmers	-No intercrop 120 x 60 cms.
T2: SAU's	State Agril.	-No intercrop
Recommendation	University	-Sowing distance 120 x 45 cms.
T3 : Refine technology	KVK	-Intercropping with Castor
		-Sowing distance 150 x 60 cms

4. Production system : Integrated Farming systems

5. Thematic area : Integrated cropping system

Performance of the technology with performance indicators (Result of 1 year)

Treatment	Av. Yield (qt./ha.)	Gross Income Rs./ha.
T1	Cotton: 22.9	91,600
T2	Cotton: 24.8	99,200
T3	Cotton: 21.6	86,400
	Castor : 14.4	43,200

(II) Trial – 2 (Crop: Cumin) Year: 2011-12

1. Title : Low yield of Cumin

2. Problem diagnose/: Incidence of wilt disease

Defined

3. Details of technology selected for assessment / Refinement & source of Technology

Category	Source of technology	Technology details
T1: Farmer practices	Farmers	-No seed treatment
T2 : SAU's Recommendation	State Agril. University	-Seed treatment with Carbendazim 50wp @ 3g./1 kg Seed
T3 : Refine technology	KVK	-Soil application of Trichoderma @ 3kg. /ha. & seed treatment by Trichoderma spp. @ 20g. /1 kg. seed

4. Production system : Integrated Farming systems

5. Thematic area : Integrated disease management

Performance of the technology with performance indicators (Result of 1 year)

Treatment	% wilt infection	Av.yield (qt./ha.)
T1	12.7	7.4
T2	9.3	8.7
Т3	7.5	9.2

(III) Trial – 3 (Crop: Wheat) Year-2012-13

- (1) Crop Production
- (a) Low yield of wheat

Title :- Low yield of wheat

Location :- Dhummad

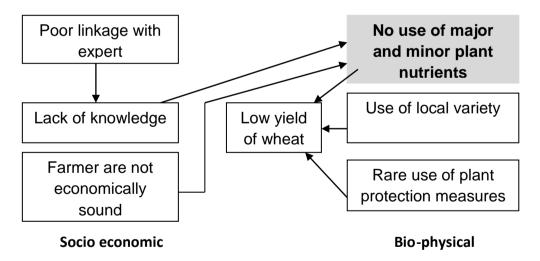
Problem:-

Abiotic stress and deficiency of sulphar diagnosed, Wheat is the main crop of Patan district. The yield of wheat could be optimize through proper fertilization. In later stage crop face some abiotic strees. Like hot wind and water scarcity, Which mitigate through spray of thiourea. It supplies N and S.

Reason:-

- > Use of local variety
- > Rare use of plant protection measures
- > Insufficient use of major & minor plant nutrient
- ➤ Abiotic stress (Hot wind & water stress at later stage of the season)

PROBLEM CAUSE DIAGRAM



Treatment:-

T1 = Farmers practices

Use of local variety

No use of proper nutrient management

T2 = SAU recommendation

Recommended N+P and use of variety GW-496

T3 = Refined technology

Recommended N+P and use of variety GW-496 + two foliar spray of Thiourea (0.1%) at tillering and spike initiation stage.

Replication :- 10

Inputs:-

Area 2.5 ha. Seed – GW-496 Thiourea – 2.5kg.

Note :- Result awaited

(b) Castor Cotton Intercropping Year: 2012-13

Title :- Lower income of Cotton cultivation

Location :- Balisana

Problem:-

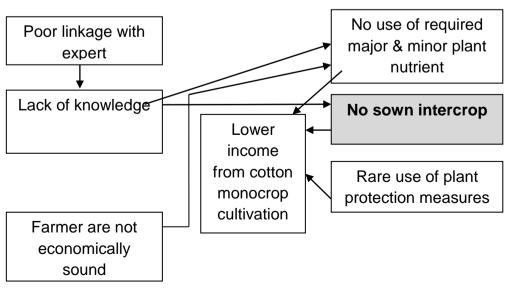
Cotton becomes a main crop so far as cultivation area of the North Gujarat. As per cash the crop canopy of the BT Cotton, Sowing distance of the crop is 150cms. between two rows. In the part of this practice intercropping of castor in cotton is possible. Intercrop of castor gives additional income.

Reason:-

- > Not sown intercrop in cotton
- > Rare use of plant protection measures
- ➤ Insufficient use of major & minor plant nutrient

Intervening point:- Not sown intercrops

PROBLEM CAUSE DIAGRAM



Socio economic Bio-physical

Treatment:-

T1 = Farmers practices

No intercrop

Spacing 120 x 60 cms

T2 = SAU recommendation

No intercrop

Spacing 120 x 45 cms

T3 = Refined technology

Intercropping with castor

Spacing 150 x 60 cms

Note:- Sowing time: Cotton: 1st fortnight of June

Castor: Last week of August

Replication:- 10

Inputs:-

Area 2.5 ha. Seed – Castor

Note:- Result awaited

(2) Plant Protection Year: 2012-13

Title :- Low yield of Cumin

Socio economic

Location :- Kuvarad, Pindharpura, Palasar

Intervening point :- Infection of wilt disease

PROBLEM CAUSE DIAGRAM Farmers not No proper adoption economically Infestation of of plant protection sound insect measures No awareness about latest Low yield Use of Local variety knowhow of cumin Irrigation & fertilizer application not Less land holding Infection of adopted wilt disease

Bio-physical

Treatment :-

T1 = Farmers practices

Use of local variety without seed treatments

T2 = SAU recommendation

Use of GC-4 variety with seed treatment by carbendazim 50 wp @ 1g./1kg seed

T3 = Refined /Assessed technology

Use of GC-4 variety with seed treatment by bio-fungicide i.e. Trichoderma @ 20g./1 kg seed and soil application of trichoderma @ 3kg./ha Along with vermi compost before sowing.

Replication:- 10

Inputs:-

Area 2.5 ha. Seed – 40kg Trichoderma :- 10kg (Bio fungicide)

Vermi compost: 500 kg

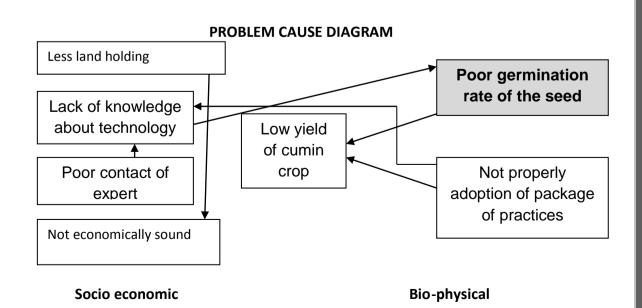
Note:-Result awaited

(3) Horticulture

Title :- Low yield of Cumin

Location :- Selavi, Palasar

Problem Diagnosis:- Poor germination of the crop



Treatment:-

T1 = Farmers practices

Use of local variety

No seed treatment

T2 = SAU recommendation

Seed treatment by Azospirilum and PSB culture

T3 = Refined /Assessed technology

Use of plant humic acid for seed treatment @ 5 ml./ 1kg seed & spraying the crop @ 0.5 ml./1 lit water 30, 45 & 60 DAS

Replication:- 10

Inputs:-

Area 2.5 ha. Seed – 40kg Sulphur – 50kg

Humico: 2 lit.

Note:- Result awaited

3.2. Achievements of Frontline Demonstrations

a. Follow-up results of FLDs implemented during previous Years

S N	Thematic Area	Technology demonstra-	Details of popularization		ontal sprea	d of
		tion	methods suggested to the Extension system	No.of Village	No.of farmers	Area in ha.
Α	Green-gram	G.M4	Demonstration Field day	20	825	240
В	Castor	1		•	•	
	Varietal evaluation	GCH-7	Demonstration Field day.	35	1200	560
С	Wheat	1	1			
	Varietal evaluation	GW-366 GW-496	Demonstration Field day.	16	670	330
D	Cumin	•				
	Varietal evaluation	GC-4	Demonstration Field day.	15	350	210
Ε	Summer Bajara	a	· ·			
	Varietal evaluation	GHB-558	Demonstration Field day.	8	300	220
F	Mustard	•				
	Varietal evaluation	G.M3	Demonstration Field day	24	830	380
G	Fennel	•				
	Varietal evaluation	G.F11	Demonstration Field day	11	270	105
Н	Cotton					
	INM	Use of micronutrient	Demonstration Field day	15	300	200

b.1 Details of FLDs implemented during 2011-12 (Rabi), 2012-13 (Kharif)

SI. No.	Crop	Thematic area	Technology Demonstrated	Season and year
1	2	3	4	5
1.	Fennel	Varietal evaluation	G.F.11	Rabi-2011-12
2.	Wheat	Wheat Varietal evaluation G.W.366		Rabi -2011-12
3.	Cumin	Varietal evaluation	G.C.4	Rabi -2011-12
4.	Cumin	Bio-agent	Trichoderma	Rabi -2011-12
5.	Bajra (INSIMP)	Varietal evaluation	GHB-538	Summer-2011-12
6.	Bajra	Varietal evaluation	GHB-538	Summer-2011-12
7	Cotton	INM	ZnSO4	Kharif-2012-13
8.	Green-gram	Varietal evaluation	GM-4	Kharif-2012-13

Area (ha)		No.of far	mers/demo	Reasons for shortfall in achievement		
6	7	8	9	10	11	
Proposed	Actual	SC/ST	Others	Total		
20	20	-	50	50	-	
20	20	03	48	51	-	
20	06	06	18	24	Unavailability of sufficient seeds of GC-4 variety	
05	05	01	13	14	-	
04	04	02	10	12	-	
20	20	01	51	52		
15	12.5	03	47	50	-	
20	12.5	02	51	53		

Details of farming situation

Crop	Season	Farming	Soil type	Stat	Status of soil		
		situation (RF/Irrigated)		N	Р	K	
1	2	3	4	5	6	7	
Fennel	Rabi-	Irrigated	Sandy loam	L	L	M	
	2011-12						
Wheat	Rabi -	Irrigated	Sandy loam	L	L	М	
	2011-12		to Medium black				
Cumin	Rabi -	Irrigated	Sandy to Sandy	L	L	М	
	2011-12		loam				
Cumin	Rabi -	Irrigated	Sandy loam	L	L	М	
	2011-12						
Bajra	Summer-	Irrigated	Sandy loam	L	L	М	
(INSIMP)	2011-12						
Bajra	Summer-	Irrigated	Sandy loam	L	L	М	
	2011-12						
Cotton	Kharif-	Irrigated	Sandy Ioam	L	L	М	
	2012-13						
Green-	Kharif-	Rainfed	Sandy Ioam	L	L	М	
gram	2012-13						

Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No.of rainy days
8	9	10	11	12
Green-gram/	25/10/11 to	20/4/12 to 28/4/12	-	-
Black-gram	05/11/11			
Green-gram/	20/11/11 to	07/4/12 to 17/4/12	-	-
Black-gram	28/11/11			
Fallow	15/11/11 to	23/3/12 to 27/3/12	-	-
	20/11/11			
Fallow	17/11/11 to	21/3/12 to 25/3/12	-	-
	22/11/11			
Mustard	25/2/12 to	3/6/12 to 8/6/12		
	29/2/12			
Green-gram	26/2/12 to	15/5/12 to 28/5/12		
	4/3/12			
Summer	-	Result awaited	397	15
Bajara				
Fallow		Crop failure due	115	8
		to Scanty rainfall		

FRONT LINE DEMONSTRATION



F.L.D. – FENNEL



F.L.D.- WHEAT



F.L.D.- CUMIN



F.L.D.- COTTON

Performance of FLD

S.No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)
1	2	3	4	5	6
1.	Fennel	Varietals evaluation	G.F.11	50	20
2.	Wheat	Varietals evaluation	G.W.366	51	20
3.	Cumin	Varietals evaluation	G.C.4	24	06
4.	Cumin	Bio-agent	Trichoderma	14	05
5.	Bajra (INSIMP)	Varietals evaluation	GHB-538	12	04
6.	Bajra	Varietals evaluation	GHB-538	52	20
7	Cotton	INM	ZnSO4	50	12.5
8.	Green- gram	Varietal evaluation	GM-4	53	12.5

De	mo. Yi Qtl/ha		Yield of local Check	Increase in yield	Data on parameter in relation to technology demonstrated		
н	L	Α	Qtl./ha	(%)	Demonstration	Local	
7	8	9	10	11	12	13	
					Plant height(cm)-140	131	
18.8	13.7	15.6	13.2	18.2	No. of branches-9	7	
					No. of umbels-20	17	
					Plant height(cm)-74	81	
51.2	40.8	45.6	38.4	38.4 18	18.8	No. of effective tillers-8	6
					Test weight(g)-39.7	37	
					Plant height(cm)-29.5	27.6	
11.2	7.9	8.8	7.1	23.9	No. of umbels-16.3	14	
					Test weight(g)-5.3	4.9	
		10.4			Plant height(cm)-31	28.6	
12.1	8.2	10.4	8.9	16.6	No. of umbels-20.5	15.9	
					Test weight(g)-5.4	4.95	
35.2	28.8	33.8	27.5	22.9	-	-	
34.4	29.6	32.3	26.4	22.3	-	-	

Average cost of cultivation (Rs./ha.)		return (Rs./ha.) (Profit) (Rs./ha.) (Gross				cost ratio s return/ ss cost)	
Demon- stratio	Local check	Demon- stratio	Local check	Demon- stratio	Local check	Demon -stratio	Local check
14	15	16	17	18	19	20	21
28500	26700	85800	72600	57300	45900	3.01	2.72
24800	23600	68400	57600	43600	34000	2.75	2.44
28200	26500	105600	85200	77400	58700	3.74	3.21
29400	28600	124800	106800	95400	78200	4.24	3.73
18950	16100	33800	27500	14850	11400	1.8	1.7
18000	15800	31300	26400	14300	10600	1.8	1.6

Analytical Review of component demonstrations

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Fennel	Rabi	G.F.11	Irrigated	15.6	13.2	18.2
Wheat	Rabi	G.W.366	Irrigated	45.6	38.4	18.8
Cumin	Rabi	G.C.4	Irrigated	8.8	7.1	23.9
Cumin	Rabi	Trichoderma	Irrigated	10.4	8.9	16.6
Bajra (INSIMP)	Summer	GHB-538	Irrigated	33.8	27.5	22.9
Bajra	Summer	GHB-538	Irrigated	32.3	26.4	22.3

Technical Feedback on the demonstrated technologies

S. No	Feed Back						
1.	Fennel						
	Required sugary disease resistant variety						
2.	Wheat						
	Required drought resistant high yielding variety						
3.	Cumin						
	Requirement of completely blight and wilt resistant variety in cloudy weather						
4.	Cumin (Bio-agent)						
	Requirement of highly viable and qualitative strain of bio agent.						
4.	Bajra						
	Required drought resistant variety.						

Farmers' reactions on specific technologies

S. No	Farmer's reactions
1.	Fennel
	GF-11 is high yielding variety less lodging effect
2.	Wheat
	GW-366 is high yielding variety
3.	Cumin
	GC-4 is high yielding variety
4.	Cumin(Bio-agent)
	Trichoderma is effective against wilt disease.
4.	Bajra
	High yield of grain and fodder, luster of grain is good.

Extension and Training activities under FLD

Sr.No.	Activity	No.of activities organized	No.of participants	Remarks
1.	Fennel			
	Training	01	18	
	Field day	01	29	
	Field visit	02	13	
2.	Wheat			
	Training	02	51	
	Field day	01	37	
	Field visit	03	21	
3.	Cumin			
	Training	02	37	
	Field day	01	25	
	Field visit	03	11	
4.	Cumin (Bio-agent)			
	Training	02	31	
	Field day	01	25	
	Field visit	03	15	
5.	Bajra(INSIMP)			
	Training	01	19	
	Field visit	01	08	
6.	Bajra			
	Training	01	15	
	Field visit	01	06	

b.2 Details of FLDs implemented during 2012-13(Rabi),

SI. No.	Crop	Thematic area	Technology Demonstrated	Season and year
1	2	3	4	5
1.	Fennel	Varietals evaluation	G.F11,12	Rabi 2012-13
2.	Cumin	Varietals evaluation	G.C4	Rabi 2012-13
3.	Cumin	Bio-agent	Trichoderma	Rabi 2012-13
4.	Wheat	Varietals evaluation	G.W366	Rabi 2012-13

Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
6	7	8	9	10	11
Proposed	Actual	SC/ST	Others	Total	
15	15	3	27	30	-
15	15	6	24	30	-
05	05	0	10	10	-
15	15	2	45	47	-

Details of farming situation

Cran	Season	Farming situation	Soil turns	Status of soil			
Crop		(RF/Irrigated)	Soil type	N	Р	K	
1	2	3	4	5	6	7	
Fennel	Rabi 2012-13	Irrigated	Sandy loam	L	L	М	
Cumin	Rabi 2012-13	Irrigated	Sandy loam	L	L	М	
Cumin	Rabi 2012-13	Irrigated	Sandy loam	L	L	M	
Wheat	Rabi 2012-13	Irrigated	Sandy loam	L	L	М	

Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
8	9	10	11	12
Green-gram/	09/11/12 to	Crop is in standing		
Black-gram	19/11/12	position		
Green-gram/	14/11/12 to	Crop is in standing		
Black-gram	23/11/12	position		
Green-gram/	14/11/12 to	Crop is in standing		
Black-gram	20/11/12	position		
Green-gram/	28/11/12 to	Crop is in standing		
Black-gram	05/12/12	position		
Fallow	09/11/12 to	Crop is in standing		
	19/11/12	position		

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

A) ON Campus

Thematic area	No. of											
	courses		Othe	r		SC/ST		Gı	and T	otal		
		M	F	Total	M	F	Total	M	F	Total		
(A) Farmers & Farm												
women												
I. Crop Production												
Weed management	01	21	-	21	-	-	-	21	-	21		
Resource conservation												
technologies												
Cropping systems												
Crop Diversification												
Integrated farming												
Water management												
Seed production												
Nursery management												
Integrated crop	04	105	-	105	23	-	23	128	-	128		
management												
Fodder production												
Production of organic												
inputs												
II. Horticulture												
a) Vegetable crops												
Production of low												
volume and high value												
crops												
Off season vegetable												
Nursery raising												
Exotic vegetables like												
Broccoli												
Export potential												
vegetables												
Grading and	01	18	-	18	07	-	07	25	-	25		
standardization												
Protective cultivation	01	19	-	19	-	-	-	19	-	19		
(Green House, Shade												
Net etc.)												
b) Fruits												
Training and pruning												
Layout and												
management of												
orchards												
Cultivation fruits												
Management of young				1				1				
plants/ orchards				1								
Rejuvenation of old								1				
orchards				1								
Export potential fruit												
Micro irrigation systems	02	47	-	47	4	-	4	51	-	51		
of orchards												
Plant propagation												
techniques				<u> </u>				<u> </u>	<u> </u>			

Thematic area No. of Courses Other SC(ST Grand Total No. of											
C) Spices M F Total M Total Total M Total Total M	Thematic area					F					
c) Spices Production and management technology Processing and value addition d) Medicinal and Aromatic plants Nursery management technology Post harvest technology Post harvest technology and value addition management technology Post harvest technology and value addition management technology Post harvest technology Ill. Soil and Health and Fertility management Soil fertility management Soil and water conservation Integrated nutrient management Production & use of organic inputs Management of problematic soils Micro nutrient deficiency In crops Nutrient use efficiency Soil & water testing IV. Livestock Production and management Fodder management Fodder management Fodder management Fodder management Fodder management Dairy management Fodder management Dairy management Dairy management Dairy management Dairy management Double hold food security by kitchen gardening and nutrition gardening Design and development of high nutrient efficiency of untiment efficiency diet. Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming		courses									
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Production & use of organic inputs Management of problematic soils Micro nutrient deficiency in crops Nutrient use efficiency Soil & water testing IV. Livestock production and management Dairy management Fodder management O2 - 58 58 - 19 19 - 77 77 V. HomeScience Women empowerment House hold food security by kitchen gardening and nutrition gardening and nutrition gardening and development of low/mini. Cost. diet Designing and development for high nutrient efficiency diet. Minimization of nutrient O1 - 37 37 - 12 12 - 49 49 loss in processing Gender mainstreaming											
organic inputs Management of problematic soils Micro nutrient deficiency in crops Nutrient use efficiency Soil & water testing IV. Livestock production and management Dairy management Fodder management House hold food security by kitchen gardening and nutrition gardening and development of low/mini. Cost .diet Design and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming	Production & use of										
Management of problematic soils Micro nutrient deficiency in crops Nutrient use efficiency Soil & water testing IV. Livestock production and management Dairy management Fodder management V. HomeScience Women empowerment House hold food 01 - 22 22 22 22 22 22 22 22 22											
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Nutrient use efficiency Soil & water testing IV. Livestock production and management Dairy management Fodder management O2 - 58 58 - 19 19 - 77 77 V. HomeScience Women empowerment House hold food security by kitchen gardening and nutrition gardening Design and development of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming	Micro nutrient deficiency										
Soil & water testing IV. Livestock production and management Dairy management Fodder management O2 - 58 58 - 19 19 - 77 77 V. HomeScience Women empowerment House hold food o1 - 22 22 22 22 security by kitchen gardening and nutrition gardening Design and development of low/ mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming											
IV. Livestock production and management Dairy management Fodder management O2 - 58 58 - 19 19 - 77 77 V. HomeScience Women empowerment House hold food security by kitchen gardening and nutrition gardening Design and development of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming	Nutrient use efficiency										
production and management Dairy management Fodder management 02 - 58 58 - 19 19 - 77 77 V. HomeScience Women empowerment House hold food	Soil & water testing										
management Dairy management 02 - 58 58 - 19 19 - 77 77 V. HomeScience Women empowerment Women empowerment - <	IV. Livestock										
Dairy management Fodder management 02 - 58 58 - 19 19 - 77 77 V. HomeScience Women empowerment House hold food security by kitchen gardening and nutrition gardening Design and development of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming	production and										
Fodder management 02 - 58 58 - 19 19 - 77 77 V. HomeScience Women empowerment House hold food											
V. HomeScience Women empowerment House hold food security by kitchen gardening and nutrition gardening Design and development of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming	Dairy management										
V. HomeScience Women empowerment House hold food security by kitchen gardening and nutrition gardening Design and development of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming	Fodder management	02		50	50		10	10		77	77
Women empowerment House hold food	1 odder management	02	_	30	30	_	19	19	_	''	''
House hold food security by kitchen gardening and nutrition gardening Design and development of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming											
security by kitchen gardening and nutrition gardening Design and development of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient 01 - 37 37 - 12 12 - 49 49 loss in processing Gender mainstreaming											
gardening and nutrition gardening Design and development of low/ mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming		01	-	22	22	-	-	-	-	22	22
gardening Design and development of low/ mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient 01 - 37 37 - 12 12 - 49 49 loss in processing Gender mainstreaming											
Design and development of low/ mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient 01 - 37 37 - 12 12 - 49 49 loss in processing Gender mainstreaming											
development of low/ mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient 01 - 37 37 - 12 12 - 49 49 loss in processing Gender mainstreaming											
mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient 01 - 37 37 - 12 12 - 49 49 loss in processing Gender mainstreaming											
Designing and development for high nutrient efficiency diet. Minimization of nutrient 01 - 37 37 - 12 12 - 49 49 loss in processing Gender mainstreaming											
nutrient efficiency diet. Minimization of nutrient 01 - 37 37 - 12 12 - 49 49 loss in processing Gender mainstreaming	Designing and										
Minimization of nutrient 01 - 37 37 - 12 12 - 49 49 loss in processing Gender mainstreaming											
loss in processing Gender mainstreaming											
Gender mainstreaming		01	-	37	37	-	12	12	-	49	49
unough onds											
	Lillough SHGS]									

Thematic area	No.of		0/1			Particip				
	courses	М	Other F	Tot	М	SC/S	Total	Gr M	and To	tal Total
		IVI	F	al	IVI	F	lotai	IVI	F	Total
Storage loss minimization										
techniques										
Value addition	80	-	248	248	-	04	04	-	252	252
Income generation activities for empowerment of rural women										
Location specific drudgery reduction technologies	02	-	36	36	-	09	09	-	45	45
Rural Craft	01	-	21	21	-	-	-	-	21	21
Women & child care										
VII. Plant Protection										
Integrated pest management	03	91	-	91	05	-	05	96	-	96
Integrated Disease management	04	112	-	112	13	-	13	125	-	125
Bio-control of pests and diseases	01	21	-	21	05	-	05	26	-	26
Production of bio control agents and bio pesticides										
TOTAL:	34	467	422	889	68	44	112	535	466	1001
(B) RURALA YOUTH										
Mushroom production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated farming										
Planting material production										
Vermi culture	01	20	-	20	03	-	03	23	-	23
Sericulture										
Protected cultivation of										
vegetable crops										
Commercial fruit										
production Repair and maintenance										
of farm machinery and implements										
Nursery management of horticulture crops	01	16	-	16	10	-	10	26	-	26
Training and pruning of orchards										
Value addition										
Production of quality animal products										

Thematic area	No.of					Particip				
	courses		Othe			SC/S1			and To	
Dairying		M	F	Total	M	F	Total	M	F	Tota
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Small scale processing										
Post harvest technology										
Tailoring and stitching										
Rural Crafts										
TOTAL:	02	36	_	36	13	_	13	49	_	49
(C) Extension personnel	02	- 55								
B 1 2 2 2										
Productivity enhancement in field crops										
Integrated pest										
management										
Integrated nutrient										
management Rejuvenation of old										
orchards										
Production cultivation										
technology Formation and										
management of SHGs										
Group Dynamics and										
farmers organization										
Information new working among farmers										
Capacity building for ICT										
application										

Thematic area	No.of					Particip	ants			
	courses		Othe	r		SC/S		G	rand To	tal
		M	F	Total	M	F	Total	М	F	Total
Care and maintenance of										
farm machinery and										
implements										
WTO and IPR issues										
Management in farm										
animals										
Livestock feed and										
fodder production										
House hold food security										
Women and child care										
Low cost and nutrient	01	-	25	25	-	07	07	-	32	32
efficient diet designing										
Production and use of										
organic inputs										
Gender mainstreaming										
through SHGs										
Soil and water										
conservation practiced										
Training need	01	15	25	40	05	04	09	20	29	49
assessment and PRA										
techniques										
TOTAL:	02	15	50	65	05	11	16	20	61	81

(B) OFF Campus

Thematic area	No. of				F	Participa	nts			
	courses		Other	,		SC/ST		Gr	and To	otal
		M	F	Total	М	F	Total	M	F	Total
(A) Farmers & Farm										
women										
I. Crop Production										
Weed management	01	22	-	22	01	-	01	23	-	23
Resource conservation	01	18	-	18	01	-	01	19	-	19
technologies										
Cropping systems										
Crop Diversification										
Integrated farming										
Water management	03	72	-	72	02	-	02	74	-	74
Seed production	01	19	-	19	-	-	-	19	-	19
Nursery management										
Integrated crop	05	111	-	111	06	-	06	117	-	117
management										
Fodder production										
Production of organic										
inputs										
II. Horticulture										
a) Vegetable crops										
Production of low										
volume and high value										
crops										
Off season vegetable										
Nursery raising	02	36	-	36	04	-	04	40	-	40
Exotic vegetables like										
Broccoli										
Export potential										
vegetables			+							
Grading and standardization										
Protective cultivation			_							
(Green House, Shade										
Net etc.)										
b) Fruits								<u> </u>		
Training and pruning										
Layout and										
management of										
orchards										
Cultivation fruits	04	96	-	96	04	-	04	100	-	100
Management of young	01	20	-	20	-	-	-	20	-	20
plants/ orchards										
Rejuvenation of old										
orchards										
Export potential fruit										
Micro irrigation systems	01	12	-	12	04	-	04	16	-	16
of orchards			<u></u>							
Plant propagation										
techniques										

Thematic area	No. of			1	Р	articipa				
	courses		Other		8.4	SC/ST			and To	
c) Spices		M	F	Total	M	F	Total	M	F	Tota
Production and	06	141	 -	141	14	_	14	155	_	155
management	00	141	-	141	14	_	14	133	_	133
technology										
Processing and value										
addition										
d) Medicinal and										
Aromatic plants										
Nursery management										
runeery management										
Production	01	25	-	25	-	-	-	25	-	25
management										
technology										
Post harvest technology										
and value addition										
III. Soil and Health and										
Fertility management										
Soil fertility						1				
management										
Soil and water										
conservation										
Integrated nutrient	01	14	-	14	02	-	02	16	-	16
management										
Production & use of										
organic inputs										
Management of	01	27	06	33	03	-	03	30	06	36
problematic soils										
Micro nutrient deficiency										
in crops										
Nutrient use efficiency										
Soil & water testing										
IV. Livestock										
production and										
management										
Dairy management	01	-	18	18	-	07	07	-	25	25
Fodder management	02	-	58	58	-	-	-	-	58	58
V. Home Science /			1			1				
Women empowerment										
House hold food	01		17	17	-	10	10	_	27	27
security by kitchen			''	''		10			~′	
gardening and nutrition										
gardening										
Design and	01	_	21	21	-	_	_	_	21	21
development of low/	"		'	'					~'	'
mini. Cost .diet										
Designing and										
development for high										
nutrient efficiency diet.										
Minimization of nutrient	01	-	14	14	-	-	-	-	14	14
loss in processing	".		' '						''	
Gender mainstreaming	02	-	49	49	-	-	-	-	49	49
through SHGs	-		.	.						.0

Thematic area	No.of				Р	articipa				
	courses		Other			SC/S1			and To	
		M	F	Total	M	F	Total	M	F	Total
Storage loss minimization techniques	02	-	49	49	•	-	-	-	49	49
Value addition										
Income generation activities for empowerment of rural	02	-	37	37	-	14	14	-	51	51
women										
Location specific drudgery reduction technologies	01	-	13	13	-	10	10	-	23	23
Rural Craft	01	-	22	22	1	-	-	-	22	22
Women & child care	02	-	53	53	-	-	-	-	53	53
VII. Plant Protection										
Integrated pest management	09	261	10	271	07	-	07	268	10	278
Integrated Disease management	05	128	07	135	05	-	05	133	07	140
Bio-control of pests and diseases	01	19	-	19	01	-	01	20	-	20
Production of bio control agents and bio pesticides										
TOTAL:	59	1021	374	1395	54	41	95	1075	415	1490
(B) RURALA YOUTH										
Mushroom production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated farming										
Planting material production										
Vermi culture										
Sericulture										
Protected cultivation of										
vegetable crops Commercial fruit										
production										
Repair and maintenance										
of farm machinery and										
implements Nursery management of										
horticulture crops										
Training and pruning of orchards										
Value addition										
Production of quality animal products										

Thematic area	No.of		Otho			Particip		0	and Ta	4-1
	courses	М	Othe F	r Total	М	SC/ST	Total	M Gr	and To	Tota
Dairying			•	Total		•	Total		•	Tota
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and										
processing technology										
Fry and fingerling rearing										
Small scale processing										
Post harvest technology										
Tailoring and stitching										
Rural Crafts	02	-	39	39	-	13	13	-	52	52
TOTAL:	02	-	39	39	_	13	13	_	52	52
(C) Extension personnel	02		- 00	00					0_	- 02
Productivity enhancement	02	48	01	49	03	-	03	51	01	52
in field crops	0.4	07		07				07		07
Integrated pest management	01	37	-	37	-	-	-	37	-	37
Integrated nutrient										
management										
Rejuvenation of old										
orchards Production cultivation										
technology										
Formation and	01	-	33	33	-	08	08	-	41	41
management of SHGs										
Group Dynamics and										
farmers organization Information new working										
among farmers										
Capacity building for ICT									<u> </u>	
application										

Thematic area	No.of				F	Particip	ants			
	courses		Othe	r		SC/S	Τ	Gı	rand To	tal
		М	F	Total	M	F	Total	М	F	Total
Care and maintenance of										
farm machinery and										
implements										
WTO and IPR issues										
Management in farm										
animals										
Livestock feed and										
fodder production										
House hold food security										
Women and child care										
Low cost and nutrient										
efficient diet designing										
Production and use of										
organic inputs										
Gender mainstreaming										
through SHGs										
Soil and water	01	32	-	32	02	01	03	34	01	35
conservation practiced										
Training need	01	09	12	21	01	01	02	10	13	23
assessment and PRA										
techniques										
TOTAL:	06	126	46	172	06	10	16	132	56	188

(C) Consolidated (ON and OFF Campus)

Thematic area	No. of				F	Participa	ants			
	courses		Other	,		SC/ST		Gr	and To	otal
		М	F	Total	М	F	Total	М	F	Total
(A) Farmers & Farm										
women										
I. Crop Production										
Weed management	02	43	-	43	01	-	01	44	-	44
Resource conservation	01	18	-	18	01	-	01	19	-	19
technologies										
Cropping systems										
Crop Diversification										
Integrated farming										
Water management	03	72	-	72	02	-	02	74	-	74
Seed production	01	19	-	19	-	-	-	19	-	19
Nursery management										
Integrated crop	09	216	-	216	29	-	29	245	-	245
management		<u> </u>		<u> </u>						<u> </u>
Fodder production										
Production of organic										
inputs										
II. Horticulture										
a) Vegetable crops										
Production of low										
volume and high value										
crops										
Off season vegetable										
Nursery raising	02	36	-	36	04	-	04	40	-	40
Exotic vegetables like										
Broccoli										
Export potential										
vegetables										
Grading and	01	18	-	18	07	-	07	25	-	25
standardization										
Protective cultivation	01	19	-	19	-	-	-	19	-	19
(Green House, Shade										
Net etc.)										
b) Fruits										
Training and pruning										
Layout and										
management of										
orchards	_				_					1
Cultivation fruits	04	96	-	96	04	-	04	100	-	100
Management of young	01	20	-	20	-	-	-	20	-	20
plants/ orchards		ļ		1						1
Rejuvenation of old										
orchards										1
Export potential fruit										<u> </u>
Micro irrigation systems	03	59	-	59	08	-	08	67	-	67
of orchards		ļ								1
Plant propagation										
techniques										

Courses	Thematic area	No. of				Б	Particina	ntc			
M F Total M Total Total M Total Tota	i nematic area			Otho	•	г		nts	Gr	and To	stal .
C) Spices Production and management technology Processing and value addition		Courses	M			M		Total			
Production and management technology	c) Spices		IVI	•	Total	IAI	•	Total	IVI		Total
management technology Processing and value addition do Medicinal and Aromatic plants Nursery management Production O1 25 25 25 25 25 25 25 Post harvest technology P		08	174	_	174	25	_	25	199	_	100
Internation		00	174	_	174	23		23	133	_	133
Processing and value addition d) Medicinal and Aromatic plants Nursery management											
addition											
Discrete Discrete											
Aromatic plants Nursery management Production Pro											
Nursery management											
Production											
Management technology Post harvest technology and value addition III. Soil and Health and Fertility management Soil fertility management Soil and water Conservation Integrated nutrient management Toda water Conservation Toda water	rtareery management										
Post harvest technology and value addition III. Soil and Health and Fertility management Soil fertility management Soil fertility management Soil and water conservation Integrated nutrient management Production & use of organic inputs Management of problematic soils Micro nutrient deficiency in crops Nutrient use efficiency Soil & water testing IV. Livestock production and management Dairy management O2	Production	01	25	-	25	-	-	-	25	-	25
Soil and Health and Fertility management Soil description Soil and water conservation Integrated nutrient O1											
III. Soil and Health and Fertility management Soil fertility management Soil fartility management Soil and water conservation Integrated nutrient management Production & use of organic inputs Management Production & use of organic inputs Management Managemen	Post harvest technology										
Soil fertility management	and value addition										
Soil fertility											
Management Soil and water Conservation Integrated nutrient management O1											
Soil and water conservation Integrated nutrient management O1											
Conservation Integrated nutrient Management Manag											
Integrated nutrient management											
Management	conservation										
Production & use of organic inputs	Integrated nutrient	01	14	-	14	02	-	02	16	-	16
Organic inputs	management										
Management of problematic soils Micro nutrient deficiency in crops Nutrient use efficiency Soil & water testing IV. Livestock production and management 03 - 76 76 - 26 26 102 - 102 Dairy management 02 - 58 58 58 - 58 V. Home Science/Women empowerment 58 58 58 - 58 House hold food security by kitchen gardening and nutrition gardening and nutrition gardening and evelopment of low/mini. Cost. diet 01 - 21 21 21 21 21 21 21 21 63 63 63 63 63 63 63 63 63 63 63 63 63	Production & use of	01	27	06	33	03	-	03	30	06	36
Problematic soils Micro nutrient deficiency in crops Nutrient use efficiency Soil & water testing	organic inputs										
Micro nutrient deficiency in crops Nutrient use efficiency Soil & water testing IV. Livestock production and management Dairy management 03 - 76 76 - 26 26 102 - 102 Fodder management 02 - 58 58 58 - 58 V. Home Science/Women empowerment Science/Women agardening and nutrition gardening and nutrition gardening 02 - 39 39 - 10 10 - 49 49 Design and development of low/mini. Cost .diet 01 - 21 21 21 21 Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming 02 - 49 49 49 49											
In crops Nutrient use efficiency Soil & water testing W. Livestock production and management Dairy management Dai											
Nutrient use efficiency Soil & water testing	- I										
Soil & water testing IV. Livestock production and management Dairy management O3 - 76 76 - 26 26 102 - 102											
IV. Livestock production and management Dairy management Dai	Nutrient use efficiency										
IV. Livestock production and management Dairy management Dai	Soil & water testing										
Dairy management	Son & water testing										
Dairy management	IV. Livestock										İ
Dairy management 03 - 76 76 - 26 26 102 - 102	production and										
Fodder management 02 - 58 58 - - - 58 - 58	management										
V. Home Science/Women empowerment 02 39 39 10 10 49 49 House hold food security by kitchen gardening and nutrition gardening 01 21 21 - - 21 21 Design and development of low/ mini. Cost .diet 01 - 21 21 - - - 21 21 Designing and development for high nutrient efficiency diet. 02 - 51 51 - 12 12 - 63 63 loss in processing 02 - 49 49 - - - 49 49	Dairy management	03	-	76	76	-	26	26	102	-	102
V. Home Science/Women empowerment 02 39 39 10 10 49 49 House hold food security by kitchen gardening and nutrition gardening 01 21 21 - - 21 21 Design and development of low/ mini. Cost .diet 01 - 21 21 - - - 21 21 Designing and development for high nutrient efficiency diet. 02 - 51 51 - 12 12 - 63 63 loss in processing 02 - 49 49 - - - 49 49											
Science/Women empowerment House hold food security by kitchen gardening and nutrition gardening Design and overlopment of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming 02 - 49 49 49 49 - 10 10 - 49 49 49 - 10 10 - 49 49 - 49 49 49 49	Fodder management	02	-	58	58	-	-	-	58	-	58
Science/Women empowerment House hold food security by kitchen gardening and nutrition gardening Design and overlopment of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming 02 - 49 49 49 49 - 10 10 - 49 49 49 - 10 10 - 49 49 - 49 49 49 49	V Home										
House hold food O2 - 39 39 - 10 10 - 49 49 49											
House hold food security by kitchen gardening and nutrition gardening Design and development of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming 02 - 39 39 - 10 10 - 49 49 49 49											
security by kitchen gardening and nutrition gardening Design and O1 - 21 21 21 21 development of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming O2 - 49 49 49 49		02	_	39	39	-	10	10	_	49	49
gardening and nutrition gardening Design and of low/mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming 01 - 21 21 21 21 Endown and development for high nutrient efficiency diet. Minimization of nutrient of nutri		02						10			.0
Design and O1 - 21 21 - - - 21 21											
Design and development of low/mini. Cost .diet 01 - 21 21 - - - 21 21 Designing and development for high nutrient efficiency diet. 02 - 51 51 - 12 12 - 63 63 Ioss in processing 02 - 49 49 - - - 49 49											
development of low/ mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient		01	-	21	21	-	-	-	-	21	21
mini. Cost .diet Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming 02 - 49 49 49 49		-									
Designing and development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming 02 - 49 49 49 49											
development for high nutrient efficiency diet. Minimization of nutrient loss in processing Gender mainstreaming 02 - 49 49 49 49											
nutrient efficiency diet. 02 - 51 - 12 12 - 63 63 loss in processing Gender mainstreaming 02 - 49 49 - - - 49 49											
Minimization of nutrient loss in processing 02 - 51 51 - 12 12 - 63 63 Gender mainstreaming 02 - 49 49 - - - 49 49											
loss in processing 49 49 - - 49 49		02	-	51	51	-	12	12	-	63	63
Gender mainstreaming 02 - 49 49 49 49											
		02	-	49	49	-	-	-	-	49	49
IIIIUUUII 3	through SHGs										

Thematic area	No.of					ticipa				
	courses		Other			SC/S			and To	
		M	F	Total	M	F	Total	M	F	Tota
Storage loss minimization techniques	02	-	82	82	-	-	-	-	82	82
Value addition	08	-	248	248	-	04	04	-	252	252
Income generation activities for empowerment of rural women	02	-	37	37	-	14	14	-	51	51
Location specific drudgery reduction technologies	03	-	49	49	-	19	19	-	68	68
Rural Craft	02	-	43	43	-	-	-	-	43	43
Women & child care	02	_	53	53	_	_	_	_	53	53
	02			- 00					- 00	00
VII. Plant Protection	12	250	10	362	12		12	364	40	374
Integrated pest management		352	10			-			10	
Integrated Disease management	09	240	07	247	18	-	18	258	07	265
Bio-control of pests and diseases	02	40	-	40	06	-	06	46	-	46
Production of bio control agents and bio pesticides	00	4.400	700	0004	400	0.5	007	1010	201	0.404
TOTAL:	93	1488	796	2284	122	85	207	1610	881	2491
(B) RURALA YOUTH Mushroom production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated farming										
Planting material production										
Vermi culture	01	20	-	20	03	-	03	23	-	23
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit										
production Repair and maintenance										
of farm machinery and implements										
Nursery management of	01	16	-	16	10	-	10	26	-	26
Training and pruning of										
orchards Value addition										
Production of quality										
animal products										

Thematic area	No.of					Particip				
	courses		Othe			SC/S1			and To	
		M	F	Total	M	F	Total	M	F	Tota
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and										
processing technology										
Fry and fingerling rearing										
Small scale processing										
Post harvest technology										
Tailoring and stitching										
Rural Crafts	02	-	39	39	-	13	13	-	52	52
TOTAL :	04	36	39	75	13	13	26	49	52	101
(C) Extension personnel	04	30	- 55	7.0	10	10	20	75	52	101
Productivity enhancement	02	48	01	49	03	-	03	51	01	52
in field crops										
Integrated pest	01	37	-	37		-	-	37	-	37
management										
Integrated nutrient management										
Rejuvenation of old										
orchards										
Production cultivation										
technology										
Formation and	01	-	33	33	-	08	08	-	41	41
management of SHGs										
Group Dynamics and										
farmers organization Information new working									-	
among farmers										
Capacity building for ICT										
application										

Thematic area	No.of				Pa	articipa				
	courses		Other			SC/ST	-	G	rand To	tal
		M	F	Total	M	F	Total	M	F	Total
Care and maintenance of										
farm machinery and										
implements										
WTO and IPR issues										
Management in farm										
animals										
Livestock feed and										
fodder production										
House hold food security	01	-	25	25	-	07	07	-	32	32
Women and child care										
Low cost and nutrient										
efficient diet designing										
Production and use of										
organic inputs										
Gender mainstreaming										
through SHGs									0.4	
Soil and water	01	32	-	32	02	01	03	34	01	35
conservation practiced										
Training need	02	24	37	61	06	05	11	30	42	72
assessment and PRA										
techniques										
TOTAL:	08	141	96	237	11	21	32	152	111	269
Grand Total :	105	1665	931	2596	146	119	265	1811	1050	2861

Achievements on Training (Including the sponsored and FLD training programme)

(A) ON CAMPUS

Farmers and Farm Women

(1) Crop Production

Sr. No.	Name of Training programme	Type of training	Duration	_	tal No				C/ST	Grand Total
		programme		М	F	Τ	М	F	Τ	
1.	Scientific cultivation of pulse crops	On	18/6/12	22	-	22	3	-	3	25
2.	Cultivation of pulses crops green-gram & moth bean against drought prone condition	On	24/7/12	31	-	31	12	-	12	43
3.	Weed management in castor	On	22/8/12	21	-	21	-	-	-	21
4.	Production technology of Wheat	On	27/11/12	41	-	41	5	-	5	46
5.	Advances in production technology of summer Bajara	On	13/3/13	11	-	11	3	-	3	14

(2) Plant Protection

Sr. No.	Name of Training programme	Type of training	Duration		al No icipa		No.	of SC	/ST	Grand Total
		programme		M	F	Τ	М	F	Т	
1.	Selection & time of pesticide application for insect pest control	On	7/5/12	28	-	28	3	-	3	31
2.	Precautionary measures of control the sucking pest in BT Cotton.	On	6/6/12	22	-	22	-	-	1	22
3.	Control measures of sucking pest in cotton	On	5/7/12	41	-	41	02	-	02	43
4.	Control measures of disease in BT cotton	On	30/8/12	36	-	36	80	-	80	44
5.	Control measures of citrus canker & gummosis in lime	On	29/9/12	33	-	33	02	-	02	35

Sr. No.	Name of Training programme	Type of training	Duration		al No		No.	of SC	C/ST	Grand Total
		programme		M	F	Т	M	F	Т	
6.	Precautionary measures to control the disease of Fennel	On	7/11/12	18	-	18	1	-	1	19
7.	Control measures of sugary disease in fennel	On	9/1/13	25	-	25	2	-	2	27
8.	Importance of Bioagent (Trichodemra) in disease management of field crops	On	15/3/13	21	-	21	5	-	5	26

(3) Horticulture

Sr. No.	Name of Training programme	Type of training	Duration		al No ticipa		No.	of SC	S/ST	Grand Total
		programme		М	F	Т	М	F	Т	
1.	Grading and standardization in brinjal	On	23/5/12	18	-	18	8	-	8	26
2.	Importance of MIS in fruit orchards	On	2/7/12	25	-	25	-	-	-	25
3.	Production management technology in cumin	On	11/11/12	18	-	18	10	-	10	28
4.	Protective cultivation of green capsicum in green house	On	29/12/12	19	-	19	-	-	-	19
5.	Production technology of medicinal crops	On	24/1/13	15	-	15	1	-	1	16
6.	Importance & scope of Micro irrigation systems of orchards	On	12/3/13	12	-	12	4	-	4	16

(4) Animal Science :-

Sr. No.	Name of Training programme	Type of training	Duration		otal No irticipa		No.	of SC	;/ST	Grand Total
		programme		М	F	Т	М	F	Т	
1.	Dairy management	On	15/6/12	-	21	21	-	7	7	28
2.	Management of milch animal & calf raising	On	21/9/12	-	37	37	-	12	12	49

(5) Home Science:-

Sr. No.	Name of Training programme	Type of training	Duration	pa	tal No		,	No.d	T	Grand Total
1.	Alternate source of energy (solar cooker)	programme On	9/4/12	<u>M</u>	15	15 15	<u>M</u>	5 5	T 5	20
2.	Preparation and preservation of mango product	On	9/5/12	-	25	25	-	-	-	25
3.	Preparation and preservation of mango product	On	14/6/12	-	30	30	-	-	1	30
4.	Preparation & preservation of mango product	On	29- 30/6/12	-	28	28	-	3	3	31
5.	Importance & techniques of kitchen gardening	On	12/7/12	-	22	22	-	1	-	22
6.	Minimization of nutrient loss while preparation of pulses food	On	28/8/12	-	37	37	-	1 2	12	49
7.	Value addition in soya products	On	7/9/12	-	35	35	-	-	-	35
8.	Production and preservation of mixed fruit jam and chatney	On	24/11/12	-	33	33	-	1	1	34
9.	Preparation and preservation of Aonla product	On	5/12/12	-	17	17	-	-	-	17
10.	Preparation and preservation of tomato ketch up, soop & chatney	On	27/12/12	-	39	39	-	-	-	39

Sr. No.	Name of Training programme	Type of training programme	Duration		otal No rticipa F			No.d SC/S		Grand Total
11.	Preparation of decorative items from waste material	On	3/1/13	-	21	21	-	-	-	21
12.	Preparation & preservation of mixed fruit jam and chataney	On	31/1/13	-	41	41	-	-	-	41
13.	Awareness regarding kitchen appliances (Juicer, Blender, Chilli cutter etc.)	On	2/3/13	-	21	21	-	4	4	25

(B) For Rural Youth/ School dropout:-

Sr. No.	Name of Training	Type of training	Duration		tal No		No	o.of SC	/ST	Grand Total
	programme	programme		М	F	Total	М	F	Total	
1.	Nursery raising	On	31/8/12	16	-	16	10	-	10	26
	of kagzi lime		to 1/9/12							
2.	Method of vermi	On	28/2/13	20	-	20	3	-	3	23
	composting		to 1/3/13							

(C) For Extension functionaries / In-service training programme :-

Sr. No.	Name of Training	Type of training	Duration		otal No		No	o.of S0	C/ST	Grand Total
	programme	programme		М	F	Total	М	F	Total	
1.	Preparation & preservation of fruit and vegetable	On	19/4/12	-	25	25	1	7	7	32
2.	PRA techniques	On	31/7/12	15	25	40	05	04	09	49

(D) Sponsored Training Programme:-

Sr. No.	Name of Training	Type of training	Duration		otal N articipa			o.of SC		Grand Total
	programme	programme		М	F	Total	М	F	Total	
1.	Irrigation management in rainfed crops	On	25/4/12	34	-	34	1	-	1	35
2.	Importance and use of organic matter in rainfed cotton	On	30/4/12	14	-	14	1	-	1	15
3.	Preparation & Preservation of Mango product	On	25/5/12	-	44	44	-	-	-	44
4.	Production technology of rainfed cotton	On	4/6/12	34	-	34	-	-	-	34
5.	Fruits & vegetable preservation	On	8/6/12	-	58	58	-	-	-	58
6.	Scientific cultivation of castor	On	29/8/12	32	-	32	03	-	03	35
7.	Post harvest technology of food grains	On	30/8/12 to 31/8/12	38	-	38	07	-	07	45
8.	Production technology of Rabi crops Cumin & wheat	On	28/9/12	23	-	23	02	-	02	25
9.	Preparation of value added products from fruit and vegetable	On	19/11/12 to 23/11/12	-	33	33	-	1	1	34

(B) OFF CAMPUS

Farmers and Farm Women

(1) Crop Production

Sr. No.	Name of Training programme	Type of training	Duration		Total I artici		No	of S	C/ST	Grand Total
140.	programme	programme		M	F	Total	М	F	Total	Total
1.	Reclamation of problematic soil	Off	13/4/12	27	06	33	03	-	03	36
2.	Integrated nutrient management in BT Cotton	Off	29/5/12	14	-	14	02	-	02	16
3.	Scientific cultivation green-gram	Off	25/6/12	20	-	20	-	-	-	20
4.	Scientific cultivation of Cotton	Off	26/6/12	22	-	22	-	-	-	22
5.	Draught mitigation strategies in cotton crop viz. Life saving irrigation & water saving Irrigation methods	Off	13/7/12	33	-	33	-	-	-	33
6.	Water management in castor & cotton crops	Off	27/8/12	22	-	22	02	-	02	24
7.	Scientific cultivation of mustard	Off	18/9/12	38	-	38	-	-	-	38
8.	Seed production technique of Mustard	Off	19/10/12	19	-	19	-	-	-	19
9.	Production technology of Fennel	Off	2/11/12	14	-	14	6	-	6	20
10.	Water management in Wheat and Mustard crop	Off	11/12/12	17	-	17	-	-	-	17
11.	Importance and use of organic inputs like biofertilizer FYM in crop production	Off	10/1/13	18	-	18	1	-	1	19
12.	Integrated weed mgt. in Rabi crops	Off	19/2/13	22	-	22	1	-	1	23
13.	Scientific cultivation of fodder sorghum and bajara	Off	8/3/13	17	-	17	-	-	-	17

(2) Plant Protection

Sr. No.	Name of Training programme	Type of training	Duration		otal No		No	oof S	C/ST	Grand Total
		programme		М	F	Tot al	М	F	Total	
1.	Plant Protection measures of sucking pest in summer vegetables	Off	16/4/12	28	-	28	-	-	-	28
2.	Identification of Bioagent & their role in insect pest control	Off	16/5/12	19	-	19	1	-	1	20
3.	Control measures of insect pest and disease in pulse crops	Off	1/6/12	14	-	14	4	-	4	18
4.	Precautionary measures to control para wilt in BT Cotton	Off	25/6/12	40	-	40	-	-	-	40
5.	Insect pest management technique in drought condition for kharif crops	Off	12/7/12	20	-	20	-	-	-	20
6.	Identification & control measures of insect pest of castor	Off	31/8/12	23	-	23	-	-	-	23
7.	Control measures of sucking pest mealy bug in BT Cotton	Off	7/9/12	19	-	19	01	-	01	20
8.	Precautionary measures of control the pest & disease of Mustard	Off	11/10/12	44	10	54	-	-	-	54
9.	Importance of seed treatment in pest & disease management	Off	15/10/12	51	-	51	3	-	3	54
10.	P.P. measures of fennel & suva	Off	9/11/12	22	-	22	1	-	1	23

Sr. No.	Name of Training	Type of training	Duration	ра	rticip	lo.of ants		o.of SC		Grand Total
	programme	programme		М	F	Total	М	F	Total	
11.	Control measures of termite in wheat	Off	19/11/12	30	-	30	3	-	3	33
12.	Precautionary measures to control the aphids and powdery mildew in mustard	Off	13/12/12	22	-	22	-	-	-	22
13.	P.P. measures of sucking pest in Lucerne	Off	21/12/12	27	-	27	-	-	-	27
14.	P.P. measures of pest and disease in cumin	Off	8/1/13	19	-	19	-	-	-	19
15.	Importance of seed treatment by fungicide for disease management in field crops	Off	15/2/13	30	7	37	-	-	-	37

(3) Horticulture

Sr. No.	Name of Training programme	Type of training	Duration			lo.of ants	No	o.of S	C/ST	Grand Total
		programme		M	F	Total	M	F	Total	
1.	Production technology of chilli crops	Off	27/4/12	21	-	21	-	-	-	21
2.	Nursery management in brinjal crop	Off	17/5/12	20	-	20	1	-	1	21
3.	Management of young plants of pomegranate	Off	8/6/12	20	-	20	-	-	-	20
4.	Cultivation of pomegranate and lemon fruits	Off	16/6/12	21	-	21	4	-	4	25

Sr. No.	Name of Training programme	Type of training	Duration	l l		No.of pants	No	o.of S	C/ST	Grand Total
		programme		М	F	Total	М	F	Total	
5.	Production management technology of aloe vera	Off	19/7/12	25	-	25	-	-	-	25
6.	Production technology of carrot	Off	7/8/12	16	-	16	3	-	3	19
7.	Production & management technology of cumin & fennel	Off	22/9/12	41	-	41	10	-	10	51
8.	Production management technology of fennel	Off	20/10/12	17	-	17	-	-	-	17
9.	Production management technology of Cumin	Off	10/11/12	16	-	16	4	-	4	20
10.	Scientific cultivation of Cumin	Off	21/11/12	26	-	26	-	-	-	26
11.	Nutrient management in chilli	Off	11/12/12	20	-	20	-	-	-	20
12.	Scientific cultivation of pomegranate plants	Off	10/1/13	21	-	21	-	-	-	21
13.	Scientific cultivation of Papaya	Off	5/2/13	32	-	32	-	-	-	32
14.	Importance & scope of pomegranate cultivation in north Gujarat	Off	8/3/13	22	-	22	-	-	-	22
15.	Importance & scope of MIS in orchards	Off	12/3/13	12	-	12	4	-	4	16

(4) Animal Science

Sr. No.	Name of Training	Type of training	Duration	р	otal N articipa	ants		o.of SC		Grand Total
1.	Importance of	programme Off	17/5/12	- -	F 18	Total 18	- -	F 7	Total 7	25
	vaccination in livestock management									
2.	Importance of fodder management and mineral mixture for milch animals	Off	29/8/12	-	30	30	-	-	-	30
3.	Fodder management for milch animals	Off	22/2/13	-	28	28	-	-	-	28

(5) Home Science:-

Sr. No.	Name of Training	Type of training	Duration		otal N articip		No	o.of SC	S/ST	Grand Total
110.	programme	programme		M	F	Total	М	F	Total	Total
1.	Storage of food grains	Off	17/4/12	-	25	25	-	-	-	25
2.	Income generation activities for empowerment of rural women	Off	25/4/12	-	19	19	-	11	11	30
3.	Alternate source of energy solar cooker	Off	17/5/12	-	13	13	-	10	10	23
4.	Minimization of nutrient loss while preparation of pulses food	Off	11/6/12	-	14	14	-	-	-	14
5.	House hold food security by kitchen gardening & nutrition gardening	Off	5/7/12	-	17	17	-	10	10	27

Sr. No.	Name of Training	Type of training	Duration		otal N articip		No	o.of SC	C/ST	Grand Total
	programme	programme		М	F	Total	М	F	Total	
6.	Balance diet for pregnant women	Off	29/8/12	-	30	30	-	-	-	30
7.	Preparation of decorative items from waste materials	Off	25/9/12	-	22	22	-	-	-	22
8.	Care and nutrition for children	Off	18/10/12	-	23	23	-	-	-	23
9.	Preparation of low cost diet from sargavi	Off	30/11/12	-	21	21	-	-	-	21
10.	Dehydration of green leafy vegetable like palak, Methi	Off	19/12/12	-	57	57	-	-	-	57
11.	Importance of self help group	Off	11/1/13	-	23	23	-	-	-	23
12.	Importance of self help group	Off	20/2/13	-	26	26	-	-	-	26
13.	Income generation activities for empowerment of Rural Women	Off	13/3/13	-	18	18	-	3	3	21

(B) For Rural Youth/ School dropout :-

Sr. No.	Name of Training	Type of training	Duration		otal N articip		No	o.of SC	C/ST	Grand Total
	programme	programme		М	F	Total	М	F	Total	
1.	Detergant powder making	Off	1-2/6/12	-	14	14	-	2	2	16
2.	Agarbatti making	Off	22/8/12 to 23/8/12	-	25	25	-	-	-	25

(C) For Extension functionaries / In-service training programme :-

Sr. No.	Name of Training	Type of training	Duration	ра	otal No rticipa	ants		o.of SC		Grand Total
	programme	programme		М	F	Total	M	F	Total	
1.	Training need assessment & PRA techniques	Off	1/5/12	9	12	21	01	01	02	23
2.	Awareness regarding latest agril. Technology	Off	23/8/12	30	-	30	03	-	03	33
3.	Soil and water conservation practice	Off	17/1/13	32	-	32	2	1	3	35
4.	Awarness regarding latest agril. Know how	Off	23/1/13	18	1	19	-	-	-	19
5.	Establishment & formation of SHG	Off	6/2/13	-	33	33	-	8	8	41
6.	Method of application for new molecules of pesticide in pest management	Off	8/2/13	37	-	37	-	-	-	37

(D) Sponsored Training Programme :-

Sr. No.	Name of Training	Type of training	Duration	Total No.of participants		No	Grand Total			
	programme	programme		М	F	Total	М	F	Total	
1.	Vermi compost	Off	27/4/12	-	34	34	-	-	-	34
	& Nursery									
	raising									
2.	Preparation and	Off	13/9/12	-	58	58	-	02	02	60
	preservation of									
	lemon pickle									
3.	Preparation of	Off	14/12/12	-	22	22	-	5	5	27
	different sweet									
	by value									
	addition in									
	coconut & date									
	palm									

ON CAMPUS TRAINING PROGRAMME



FARMERS



FARM WOMEN

OFF CAMPUS TRAINING PROGRAMME



FARMERS



FARM WOMEN

(C) Vocational Training Programme for Rural Youth (On + Off Campus)

Sr. No.	Name of Training	Crop/ Enterprise	Durati on	Date		o.of ants	No.	C/ST	Grand Total		
110.	programme	Littorphico	(Day)		М	F	Total	М	F	Total	rotar
1.	Detergent powder making	Home science	02	1/6/12 to 2/6/12	-	14	14	-	2	2	16
2.	Agarbatti making	Home Science	02	22/8/12 to 23/8/12	-	25	25	-	-	-	25
3.	Nursery raising of kagzi lime	Horticul- ture	02	31/8/12 to 1/9/12	16	-	16	10	-	10	26
4.	Method of vermi composting	Crop production	02	28/2/13 to 1/3/13	20	-	20	3	-	3	23

(D) Sponsored training programme:-

(On + Off Campus)

Sr. No.	Date	Title	Discipline	Duration (Days)
1	2	3	4	5
1.	25/4/12	Irrigation management in Rainfed crop	Agriculture	01
2.	27/4/12	Vermi compost and Nursery raising	Agriculture	01
3.	30/4/12	Importance and use of organic matter in rainfed cotton	Agriculture	01
4.	22/5/12	Preparation and preservation of mango products	Home Science	01
5.	4/6/12	Production technology of rainfed cotton	Agriculture	01
6.	8/6/12	Fruit and vegetable preservation	Home Science	01
7.	29/8/12	Scientific cultivation of castor	Agriculture	01
8.	30/8/12 to 31/8/12	Post harvest technology of food grain	Agriculture	02
9.	13/9/12	Preparation and preservation of lemon pickle	Home Science	01
10.	28/9/12	Production technology of Rabi crops cumin and wheat	Agriculture	01
11.	19/11/12 to 23/11/12	Preparation of value added products from fruit and vegetables	Home Science	05
12.	9/1/13	Use of solar cooker as alternate sources of energy	Home Science	01

No.of		Sponsoring									
courses	Other	Other						Total	Agency		
	M	F	T	M	F	Т	М	F	Т		
6	7	8	9	10	11	12	13	14	15	16	
01	34	-	34	01	-	01	35	-	35	ATMA Patan	
01	-	34	34	-	-	-	-	34	34	IWMP Patar	
01	14	-	14	01	-	01	15	-	15	ATMA Patar	
01	-	44	44	-	-	-	-	44	44	ATMA Patar	
01	34	-	34	-	-	-	34	-	34	ATMA Patar	
01	-	58	58	-	-	-	-	58	58	ATMA Patar	
01	32	-	32	03	-	03	35	-	35	ATMA B.K.	
01	38	-	38	07	-	07	45	-	45	Central Ware	
										Housing	
										corporation	
										Ahmedabad	
01	-	58	58	-	02	02	-	60	60	FTC Patan	
01	23	-	23	02	-	02	25	-	25	ATMA	
										Surandranaga	
01	-	33	33	-	01	01	-	34	34	FTC Patan	
01	-	24	24	-	06	06	-	30	30	FTC Patan	

SPONSORED TRAINING PROGRAMME



ATMA-PATAN



ATMA- BANASKANTHA



F.T.C.-PATAN



CENTRAL WARE HOUSING CORPORATION, AHMEDABAD

3.4. Extension Activities (including activities of FLD Programme)

S.	Nature of Extension Activity	Purpose/T	•	Participants Farmers & SC/ST Extensio Total													
N.		opic and date	No.of activities	Farmers & Farm women			5	SC/S		Ext			•	Total	I		
			S	M	F	Т	M	F	Т	М	F	T	M	F	Т		
1.	Field day	S.Bajara 25/5/12	1	41	-	41	-	-	-	-	-	-	41	-	41		
		Green-gram 15/9/12 Cotton	1	38	-	38	3	-	3	-	-	-	41	-	41		
		26/9/12 Fennel	1	28	-	28	2	-	2	-	-	-	30	-	30		
		12/2/13 Cumin	1	41	-	41	3	-	3	-	-	-	44	-	44		
		7/3/13 Wheat	1	19	-	19	8	-	8	-	-	-	29	-	29		
	NA di i	8/3/13	1	18	-	18	-	-	-	-	-	-	18	-	18		
2	Method demonstration	Sandasary 23/5/12	1	11	-	11	3	-	3	-	-	-	14	-	14		
		Matpur 26/6/12	1	12	-	12	2	-	2	2	-	2	16	-	16		
		Samoda, Nagvasana 5/7/12	1	18	-	18	-	-	-	-	-	-	18	-	18		
		Samoda 29/1/12	1	05	-	05	6	-	6	-	-	-	11	-	11		
3.	Ex-trainee meeting	Samoda	1	-	10	10	-	6	6	-	-	-	-	16	16		
4.	Self Help Group formation	Pindharpura 22/2/13	2	-	13 19	13 19	-	3 -	16 -	-	-	-	- -	16 19	16 19		
5.	Night meeting	Ganwada 21/5/12	1	18	5	23	1	1	2	-	-	-	19	6	25		
6.	Farm Science club	Madhupura 28/6/12	1	24	10	34	-	-	-	2	-	2	36	-	36		
		Palasar 8/1/13	1	19	-	19	-	-	-	-	-	-	19	-	19		
7.	Kisan Gosthi	Nagvasana 3/5/12	1	36	-	36	9	-	9	-	-	-	45	-	45		
8.	World food day	Khimiyana 16/10/12	1	-	62	62	-	-	-	-	-	-	62	-	62		
9.	Women in agril day	Kahoda 4/12/12	1	-	31	31	-	-	-	-	-	-	31	-	31		
10	Farmer day	Palasar Selavi 23/12/12	1	20	31	51	-	-	-	-	-	-	20	31	51		
11	Celebration of ICAR establishment day	Kamliwada 16/7/12	1	22	-	22	1	-	1	-	-	-	23	-	23		

S.	Nature of	Purpose/T		Participants												
N.	Extension Activity	opic and date	No.of activities	Farmers & Farm		SC/ST			Extensi on			Total				
			o.of				officers									
			Ses	M	F	Т	M	F	Т	M	F	T	M	F	Т	
12	Lecture delivered to	BRS Stu. 31/8/12	1	-	23	23	-	12	12	-	-	-	35	-	35	
	other programme	BRS Stu. 12/9/12	1	-	30	30	-	7	7	-	-	-	37	-	37	
	1 - 3	BRS Stu. 10/11/12	1	12	8	20	5	2	7	-	-	-	17	10	27	
		BRS Stu. 16/1/13 to 31/1/13	16	-	39	39	-	23	23	-	-	-	-	62	62	
		BRS Stu. 4/2/13	1	9	12	21	5	7	12	-	-	-	14	19	33	
13	Radio talk	17/12/12	1													

EXTENSION ACTIVITIES



WORLD FOOD DAY



FIELD DAY-COTTON



FARMER DAY



KISAN DIWAS



FARM SCIENCE CLUB



METHOD DEMONSTRATION (POWER WEEDER)

3.5. Production and supply of Technological products

PLANTING MATERIALS

Sr.No.	Crop	Variety	Quantity (no.)	Value (Rs.)	Provided to No. of farmer
FRUITS	Lime	Kagzi lime	703	10545	38
SPICES	-	1	-	ı	-
VEGETABLES	-	1	-	ı	-
FOREST SPECIES	-	-	-	-	-
ORNAMENTAL CROPS	-	-	240	2670	53
OTHERS	Tobacco	GCT-4	210500	21050	39
	Vermi compost	-	1450kg	4350	4

SUMMARY

Sr.No.	Crop	Quantity (no.)	Value (Rs.)	Provided to No. of farmer
1.	FRUITS	703	10545	38
2.	SPICES	-	-	-
3.	VEGETABLES	-	-	-
4.	FOREST SPECIES	-	-	-
5.	ORNAMENTAL CROPS	240	2670	53
6.	PLANTATION CROPS	-	-	-
7.	OTHERS	210500	21050	39
8.	VERMI COMPOST	1450kg	4350	04

- 3.6. Literature Developed/ Published (with full title, author & reference)
 - (A) KVK News letter (Date of start, Periodicity, Number of copies distributed etc.)
 -----NIL-----

(B) Literature developed/ published

Item	Title	Authors name	Name of	Number
1.0111	1.110	, tatiloi o ilailio	Journal	
Research papers	Effect of paddy straw and paper mill effluent on the physico chemical properties of wheat rhizosphere	S.K.Sharma Y.K.Sharma Shayamdas	International conference on Education in the prospective of advances in "natural resource management in agriculture" (NaRMA-IV) 19-21 Dec.2012	
	Effect of paddy straw and paper mill effluent on physico chemical properties of soil	S.K.Sharma Y.K.Sharma Shayamdas	Journal of Green agricultural science, Vol.1, Issue 1	
	Weed management Study in gram (cicer aritinum L) + mustard (Brassica Juncea) intercropping system in north western Rajasthan	S.R.Dhikwal S.M.Kumawat Shayam Das Abdul Amin	International conference on Education in the prospective of advances in "natural resource management in agriculture" (NaRMA-IV) 19-21 Dec.2012	
	Response of different methods of potassium application on growth and yield of barley (Hordeum vulgare L.) in western Rajasthan		International conference on Education in the prospective of advances in "natural resource management in agriculture" (NaRMA-IV) 19-21 Dec.2012	

Item	Title	Authors name	Name of Journal	Number
	Response of phosphoru on growth yield and quality of chickpea (Cicer arietinum L.) in North western Rajasthan	Shayam Das B.L.Paseek S.R. Dhikwal Abdul Amin	International conference on Education in the prospective of advances in	
			"natural resource management in agriculture" (NaRMA-IV) 19-21 Dec.2012	
News letters	-	-	-	-
Technical bulletins	-	-	-	-
Popular articles	Jaivik Kheti : Tikau Kheti ka ek aavshayak aadhar	Dr.Sushil Kumar Sharma	Kisan International July – Dec.12	
Books	Jaivik Kheti evam Vermi composting	Dr.S.K.Sharma Dr. R.K.Gangwar		500
	Samanya Krishi Vigyan	Dr.S.K.Sharma Dr. R.K.Gangwar		500
Extension literature	 Scientific cultivation of Castor Scientific cultivation of Cotton Scientific cultivation of Potato Scientific cultivation of Wheat Scientific cultivation of Cumin Scientific cultivation of Chiku & mango Scientific cultivation of Lime Preparation & preservation of lemon products Preparation & preservation of Aonla products Preparation & preservation of Mango products 			500 each

(C) Details of Electronic Media Produced

Sr.No.	Type of media (CD/VCD/DVD/Audio-cassette)	Title of the	Number
		programme	

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)



SUCCESS STORY AONLA PRODUCT Thematic area: Rural Craft

Cultivation of fruit crops like Lemon and Aonla in Patan district. Value addition in this crops gives maximum return as compared to direct selling to market.

With the objective to motivate farmer/farm women for preparation of Aonla products, KVK Samoda had arranged vocational training programme. After the completion of training programme. Thakor Taraben Pradipsinh has started the preparation of Chavanprash at her home.

(1) Aonla Product (Chavanprash)

General Information:-

1.	Name	Thakor Taraben Pradipsinh	
2.	Address	At. & Po.: Brahmanvada, Ta.Sidhpur,	
		Dist. Patan	
3.	District	Patan	
4.	Age	43 years	
5.	Occupation	House wife	
6.	Training	Preparation of Aonla Products	
7.	Venue	KVK, Samoda	
8.	Total No.of participants	34	
9.	Income before training	-	
10.	Date of training	19/11/12 to 23/11/12	
11.	Date of starting	Dec2012	

ECONOMICS OF CHAVANPRASH

Name of	Production	Selling price	Production	Expenditure	Income
products	cost kg./Rs.	Rs./kg	quantity	(Rs.)	(Rs.)
Chavanprash	167=00	220=00	50kg	8350=00	11000=00

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

- (1) For effective & fruitful training programme for farmers, farm women & rural youth presentation of subject matter with action photograph by LCD projector
- (2) To give more emphasis on method demonstration for effective dissemination of technology.
- (3) To prepare technology display plot in village to exhibit the technologies at a time

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

Sr.No.	Crop/Enterprise	ITK Practiced	Purpose of ITK
1.	Nursery seedling	Use of Tobacco dust solution	To control damping off disease in Nursery plants
2.	Wheat, Chilli, Cotton etc.	Use of calotropics decomposed leaves & twigs solution along with irrigation water	To control termite in different crops
3.	Cumin	Using wood ash + old Bajara flour dusting	To control blight disease in Cumin
4.	Lemon	To broadcast Tobacco dust	To control aphid & other sucking pest in Lemon

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

- (a) Identification of courses for farmers/farm women
 - Benchmark Survey as well as PRA technique
 - Group discussion
- (b) Rural Youth
 - Group discussion
 - Pre-structure interview
- (c) In-service personnel
 - To identify the common needs of in-service personnel by
 Group discussion

3.11 Field activities

i. Number of villages adopted - 05

ii. No. of farm families selected - 200

iii. No. of survey/PRA conducted - 05

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab

(i) Year of establishment : 2004

(ii) List of equipments purchased with amount

SI. No	Name of the Equipment	Qty.	Cost
1	Sepctophotometer	01	1,10,294=00
2	Flame Photometer	01	
3	PH meter	01	18,630=00
4.	Condectivity meter	01	
5.	Rotary shekar (for 16 flask)	01	88,504=00
6.	Rotary shekar (for 25 flask)	01	
7.	Hot Plate 18 x 24	01	
8.	Hot Plate 12 x 18	01	
9.	Physical Balance	01	23,348=00
10.	Chemical Balance	01	1.09,760=00
11.	Hot Air oven	01	29,536=00
12.	Glass distillation unit	01	75,832=00
13.	Vili mil	01	
14.	Kel Plus digestion system	01	2,35,675=00
15.	Distilation system	01	
16.	Acid nutrilizer	01	
17.	Electroleux freeze	01	14,000=00
18.	Gas sagadi	03	2,200=00
19.	Stabilizer (for freeze)	01	550=00
20.	Store vel	01	7,900=00
21.	Iron table	02	
22.	Hygrometer	01	5,292=00
23.	Revolving chair	02	6,300=00
24.	Round stool with wheel	01	
25.	Round stool	01	
26.	Burner	02	5,328=00
27.	Stand	02	
28.	Electrice Hot plate	02	
29.	Stabilizer	02	13,120=00
30.	Exost fen	02	1,500=00
31.	Gas connection	01	1,643=00

(iii) Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	458	351	54	-
Water Samples	48	44	21	-
Plant samples	-	-	-	-
Total	506	395	75	-

(iv) Details of samples analyzed during 2012-13

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples	-	-	-	-
Plant samples	-	-	-	-
Total	-	-	-	-

4.0 IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period). No.of Ex.Trainee-50

Name of specific technology/skill transferred	No.of participants	% of adoption
Improved variety		
Castor-GCH-7	43	86
Green-gram-GM-4	38	76
Fennel-GF-11	26	52
Wheat-GW-322	20	40
Cumin-GC-4	37	74
Integrated Nutrient management		
Use of ZnSO4 in BT Cotton	23	46
Use of sulphatic fertilizer in oil seed crops	30	60
Weed management in Wheat & Cumin	34	68
Integrated pest management & integrated disease		
management		
-Seed treatment by pesticide	21	42
-Identification of insect	33	46
-Selection & time of pesticide application	30	60
Importance of soil & water analysis	18	36
Micro irrigation system	17	34
Colostrums feeding in calf raising	39	78
Value addition in fruits & vegetable	24	48
Storage of food grains	36	72
Importance of organic matter	32	64

4.2 Cases of large scale adoption

Sr.No	Case	Adoption
1.	Use of improved variety of Castor, Mustard, Wheat, Cumin & Green-gram	Most of the farmers of adopted villages have sown improved variety of Castor, Mustard, Wheat, Cumin & Green-gram
2.	Cultivation of genetically modified variety (B.T.) of Cotton	Majority of the farmers have adopted B.T. variety of Cotton
3.	Water saving devices (Drip irrigation)	Some of the farmers have adopted the drip & sprinkler irrigation
4.	Colostrum feeding in calf raising	Most of the live stock keeper have adopted the colostrums feeding technology
5.	Use of sulphatic fertilizer in Oil seed crops	Majority of the farmers have adopted the use of sulphatic fertilizer in oil seed crop

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

For the impact analysis of the activities the technical personnel of the KVK have carried out the follow up study of Ex-trainees.

Along with follow up study, the ex-trainee meeting of farmers and farm women also arranged at Krishi Vigyan Kendra for impact analysis of KVK activities carried out during the previous years.

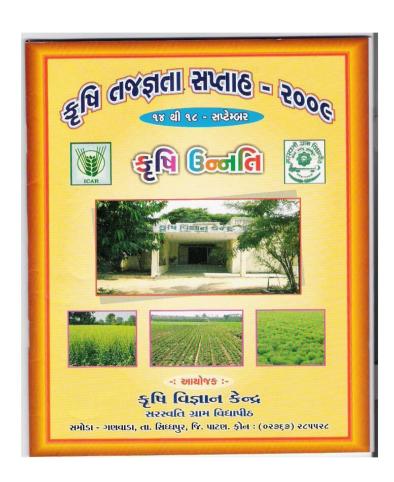
5.0 LINKAGES

5.1 Functional linkage with different organizations

Sr. No.	Name of Organization	Nature of Linkage
1.	Sardarkrushinagar Dantiwada	-Linkage for seasonal training cum workshop of
	Agril. University	kharif, Rabi and summer crops.
		-Linkage for various demonstration of farm
		technology.
		-Linkage for diagnostic services
2.	Agril. Department Gujarat State, Patan	-Linkage for exchange of information regarding farming.
		-Linkage for training programme of seasonal crops.
		-Linkage for training of extension functionaries.
3.	Gujarat State Fertilizer & Chemical Ltd. Sidhpur	-linkage for demonstration about efficient and proper use of chemical fertilizer and importance of bio-fertilizer.
		-Linkage for soil and water analysis and training programme to farmers
4.	G.N.F.C. Sidhpur	-Linkage for soil and water analysis.
	·	-Linkage for farmer training programme
5.	Department of Animal Husbandry, Gujarat State, Patan	-Linkage for training of management of milking animal & steps to solve the burning problem of cattle owner.
6.	Dept. of Horticulture Gujarat State, Patan	To create awareness regarding different scheme Horticulture development.
		-To increase the awareness about protective cultivation in shade net
7.	Farmers Training Centre, Patan	-linkage for imparting training of kitchen gardening and fruits & vegetable preservation.
8.	ICDS Patan	In-service training programme and sponsored training programme
9.	ATMA Patan	-Seasonal training programme
		-Demonstration of Agril. technology
		-Survey work
10.	IWMP, Patan	Imparting training to the extension functionaries,
		farmers & farm women about soil reclamation.
11.	VIKSAT Ahmedabad	-Imparting training to the members of farm
		science club of patan district

Agriculture Magazine : - " Krushi Unnati"

Name of Newsletter	Number of issues of newsletter published by your KVK
Krushi Unnati	Quarterty-500



FUNCTIONAL LINKAGE



I.W.M.P.-PATAN



F.T.C.-PATAN



A.T.M.A.-PATAN



A.T.M.A.-PATAN

DEMONSTRATION UNITS



NURSERY UNIT



NET HOUSE



VERMI COMPOST UNIT



TOBACCO NURSERY



KITCHEN WESTE



MUSEUM

5.3 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.)
-	_	-	-

5.4 Details of linkage with ATMA

Sr.No.	Programme	Nature of linkage	Remarks
1.	Survey/training	Survey for identification of gap	
		Imparting training to farmers & farm	
		women	

5.5 Give details of programmes implemented under National Horticultural Mission

Sr.No.	Programme	Nature of linkage	Constraints if any	
-	-	-	-	

5.6 Nature of linkage with National Fisheries Development Board

Sr.No.	Programme	Nature of linkage	Constraints if any	
-	-	-	-	

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sr.	Demonstratio	Year	Area	Detai	Is of produc	tion	Amo	unt (Rs.)
No	n unit	of estt.		Variety	Produce	Qty	Cost of inputs	Gross income
1.	Nursery	1995						
	Tomato		200sq.mt	Abhinav	Fruits (kg)	214	1830	1810
	Tobacco		400sq.mt.	GCT-4	Seedling (No.)	210500	1200	21050
	Ornamental crops				Seedling (No.)	240	-	2670
	Lime				Sapling (No.)	703	-	10545
2.	Orchard							
	Chiku	1994	0.25ha.	Kalipatti	Tree (No.)	20	-	-
	Mango	1994	0.30 ha.	Kesar	Tree (No.)	38	-	-
	Lime	2004	2.5ha.	Kagdi lime	Tree (No.)	571	-	-
3.	Vermi compost	2003	200sq.mt.		Compost bag (50kg each)	29	-	4350

6.2 Performance of instructional farm (Crops) including seed Production

Name of	Date of	Date of	Area	Details	Details of production			Amount (Rs.)	
the crop	sowing	harvest	eha.)	Variety	Type of produce	Qty. (qt.)	Cost of inputs	Gross income	
Cotton	6/6/12	2/10/12	0.5	BT Cotton	Seed	0.93	5387=00	-	
Cotton	11/6/12	-	0.8	BT.Cotton (Express)	Bulk	10.74	9552=00	44800=00	
Guar	15/7/12	29/10/12	1.5	GG-4	Bulk	1.50	-	11270=00	
Castor	11/8/12	-	2.0	GCH-7	Bulk	-	9025=00	-	
Mustard	18/10/12	4/3/12	1.5	GM-3	Bulk	-	5114=00	-	
Tobacco	18/11/12	-	1.75	GCT-4	Bulk	-	13468=00	-	
Wheat	7/12/12	-	1.5	GW-366	Bulk	-	5695=00	-	

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

SI.	Name of the	-	Amou	nt (Rs.)		
No.	Product	Qty	Cost of inputs	Gross income	Remarks	
-	-	-	-	-	-	

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

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

6.5 Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2012	35	30	-
May 2012	35	14	-
June 2012	37	30	-
July 2012	37	31	-
August 2012	37	12	-
September 2012	39	30	-
October 2012	39	07	-
November 2012	34	05	-
December 2012	38	06	-
January 2013	38	31	-
February 2013	23	28	-
March 2013	38	03	-

7. DETAIL ON RAIN WATER HARVESTING	
STRUCTURE AND MICRO-IRRIGATION SYSTEM	
NIL	
1412	

8. FINANCIAL PERFORMANCE

8.1 Details of KVK Bank accounts

Bank Account	Name of the Bank	Location	Account Number
With Host Institute	S.B.I.	Sidhpur	10265325092
With KVK	MDCC	Sidhpur & Kahoda	063 & 04

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

Item	Released B	Released By ICAR Expenditure Unspe		Expenditure	
	Kharif 2012-13	Rabi 2012-13	Kharif 2012-13	Rabi 2012-13	as on 1st April 2012
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	•	-	-
Total	-	-	-	-	-

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

Item	Released By ICAR Expenditure			Unspent balance	
	Kharif 2012-13	Rabi 2012-13	Kharif 2012-13	Rabi 2012-13	as on 1st April 2012
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
Total	-	-	-	-	-

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

Item	Released E	y ICAR	Expen	Unspent balance	
	Kharif 2012-13	Rabi 2012-13	Kharif 2012-13	Rabi 2012-13	as on 1st April 2012
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
Total	-	-	•	-	-

8.5 Utilization of KVK funds during the year (year-wise separately) (current year and previous year)

(1) KVK funds during the year-2011-12

Sr.	Particulars	Sanctioned	Released	Progressive
No		(In lacs)	(In lacs)	Expenditure up to
		, ,	, ,	31st March-12
A.	RECURRING CONTIGENCES			
1.	Pay and allowance	60.00	60.00	55,18,551=00
2.	Traveling allowance	01.50	01.50	41,169=00
3.	Contingencies			
a.	Stationery, telephone, postage and other	01.75	01.75	1,96,798=00
	expenditure on office running publication of			
	Newsletter and library maintenance (Purchase			
	of News paper & Magazines)			
b.	POL, repair of vehicle, tractor and equipment	01.05	01.05	89,818=00
c.	Meals/refreshment of trainees (ceiling up to	00.80	00.80	64,675=00
	Rs. 40=00 day/trainees be maintained)			
d.	Training materials (Postage, charts,	00.90	00.90	25,777=00
	demonstration materials including chemicals			
	etc. required for conducting the training)			
e.	Front line demonstration except oilseed and	02.00	02.00	1,39,128=00
	pulses (Minimum of 30 demonstration			
f.	On farm testing (On need based location	00.60	00.60	6,136=00
	specific and newly generated information in			
	the major production system on the area)			
g.	Training of extension functionaries	00.50	00.50	12,990=00
h.	Maintenance of building	00.40	00.40	39,737=00
	TOTAL	69.50	69.50	61,34,779=00
B.	NON-RECURRING CONTIGENCE			
1.	Equipment and furniture	-	-	-
	a. Multicrop thresher			
	b. Roatry weeder			
	c. Power sprayer			
	d. Seed cum firtilizer drill			
2.	Works (Implement shed)	-	-	-
3.	Vehicle (Motorcycle)	-	-	-
4.	Library (Purchase of assets like books &	-	-	-
	journals)			
	TOTAL	-	-	-
C.	REVOLVING FUNDS	-	-	-
	GRAND TOTAL (A+B+C)	69.50	69.50	61,34,779=00

(2) KVK funds during the Year-2012-13

Sr. No	Particulars	Sanctioned (In lacs)	Released	Progressive Expenditure up to 31st March-11
Α.	RECURRING CONTIGENCES			
1.	Pay and allowance	68.50	68.50	67,44,059=00
2.	Traveling allowance	01.00	01.00	68,875=00
3.	Contingencies			
a.	Stationery, telephone, postage and other expenditure on office running publication of Newsletter and library maintenance (Purchase of News paper & Magazines)	02.00	02.00	1,80,660=00
b.	POL, repair of vehicle, tractor and equipment	01.20	01.20	1,39,324=00
C.	Meals/refreshment of trainees (ceiling up to Rs.40=00 day/trainees be maintained)	01.00	01.00	87,224=00
d.	Training materials (Postage, chards, demonstration materials including chemicals etc required for conducting the training	01.00	01.00	1,13,129=00
e.	Front Line demonstration except oilseed and pulses (Minimum of 30 demonstration)	01.20	01.20	1,24,429=00
f.	On farm testing (On need based location specific and newly generated information in the production system on the area)	00.60	00.60	37,953=00
g.	Training of extension functionaries	00.60	00.60	23,270=00
h.	Maintenance of building	00.40	00.40	40,255=00
	TOTAL –A	77.50	77.50	75,59,178=00
1.	Equipment and furniture	00.00		
a.	Digital Camera with accessories	00.00		
b.	LCD projector with accessories	00.00		
2.	Works	00.00		
a.	Adm. Building (02 and final Instt.)	00.00		
b.	Farmers Hostel (02 and final Instt.)	00.00		
C.	Staff Quarter (02 and final Instt.)	00.00		
3.	Library (purchase of assets like books & journals)	00.00		
4.	Vehicle	00.00		
	TOTAL- B	00.00		
C.	REVOLVING FUNDS	00.00	-	-
	GRAND TOTAL (A+B)	77.50		

8.6. Status or 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-2010 to March-2011	1,65,618=00	6,11,046=00	4,96,926=00	2,79,738=00
April-2011 to March-2012	2,79,738=00	7,22,660=00	8,47,467=00	1,54,655=00
April-2012 to March-2013	1,54,655=00	4,25,917=00	4,23,780=00	1,56,792=00

9. PLEASE INCLUDE INFORMATION WHICH HAS NOT BEEN REFLECTED ABOVE (Write in details)

9.1. Constrains:

- (a) Financial --
- (b) Technical:
- Orientation training programme should be arranged for the newly appointed technical personnel.
- (c) Administrative:-
 - -Rules & regulation should be same for all the NGO's KVKs. Same as ICAR or SAU's

ANNEXURES

DISTRICT PROFILE- I

GENERAL SENSUS

AREA & POPULATION AS PER CENSUS -2001

Sr.No.	Name of Taluka	Area	Total population	Population density/sq.km.	No.of village	No.of cities
1.	Patan	1011.2	383961	415	138	01
2.	Sidhpur	443.6	190937	345	54	01
3.	Chanasma	448.6	128629	186	59	01
4.	Harij	377.38	84813	194	39	01
5.	Sami	1513.8	164705	97	98	00
6.	Radhanpur	559.05	120177	64	56	01
7.	Santalpur	1350.6	1094487	178	73	00
	Total	5703.6	1182709	1479	517	05

CLASSIFICATION OF CITIES BASES IN POPULATION

Sr.No.	Group according to size	No.of city	Percentage of total No. city	Urban population	% of the total urban population
1.	1,00,000 and above	01	20	1137749	47.70
2.	50,000 to 99,999	01	20	58194	24.40
3.	20,000 to 49,999	01	20	32191	13.50
4.	10,000 to 19,999	02	40	34234	14.38
5.	5,000 to 9,999	00	00	00	00
6.	5,000 and above	00	00	00	00
	Total	05	100	238368	99.98

URBAN POPULATION AS PER CENSUS-2001

Sr.No.	Name of Taluka	No.of cities	Urban Population		
			Male	Female	Total
1.	Patan	Patan	59955	53794	113749
2.	Sidhpur	Sidhpur	30138	28056	58194
3.	Chanasma	Chanasma	8244	7578	15822
4.	Harij	Harij	9728	8744	18472
5.	Sami	Sami	00	00	00
6.	Radhanpur	Radhanpur	16769	15422	32191
7.	Santalpur	Santalpur	00	00	00
	Total		124834	113594	238428

NAME OF VILLAGE MORE THAN 5000 POPULATION AS PER 2001 CENSUS

Sr.No.	Name of taluka	Name of village	Population	Name of village	Population
1.	Patan	Nayata	5143	Kungher	5717
		Aghar	5599	Ranuj	6634
		Der	7092	Sander	5052
		Balisana	9939	Sariyad	5315
2.	Sidhpur	Kakosi	8456	Biliya	6732
		Kuwara	5028	Dindrol	5709
3.	Chanasma	Dhinoj	10860	Vadowali	5136
		Sunasar	6322	-	-
4.	Harij	-	-	-	-
5.	Sami	Sami	11607	Sankheswar	7646
6.	Radhanpur	-	-	-	-
7.	Santalpur	Varahi	8802	Santalpur	5324
	Total		68848		53265

SCHEDULE CAST & SCHEDULE TRIBE POPULATION AS PER CENSUS-2001

Sr.	Name of	Rural	SC ST		Т					
No.	taluka	Urban	Male	Female	Total	%	Male	Female	Total	%
1.	Sidhpur	Rural	8149	7363	15512	16.87	337	304	641	9.59
		Urban	3555	3296	6851	27.49	547	451	998	16.75
		Total	11704	10659	22363	19.14	884	755	1639	12.96
2.	Patan	Rural	14991	13435	28426	30.91	562	485	1047	15.75
		Urban	5979	5435	11414	45.08	1170	1564	2734	56.29
		Total	20970	18870	39840	34.08	1732	2049	3781	34.82
3.	Chanasma	Rural	5508	4941	10449	11.36	268	209	477	6.70
		Urban	999	914	1913	7.67	43	23	66	1.10
		Total	6507	5855	12362	10.57	311	232	543	4.30
4.	Harij	Rural	3331	3107	3362	7.01	211	144	355	5.31
		Urban	869	729	1598	6.41	356	263	619	10.38
		Total	4200	760	4960	6.88	567	407	974	7.70
5.	Sami	Rural	8876	8358	17234	18.74	301	244	545	8.15
		Urban	00	00	00	0.00	00	00	00	0.00
		Total	8876	8358	17234	18.74	301	244	545	8.15
6.	Radhanpur	Rural	3321	3192	6513	7.08	1136	1134	2270	33.98
		Urban	1610	1537	3147	12.60	858	463	1321	15.45
		Total	4931	4729	9660	19.68	1994	1597	3591	25.25
7.	Santalpur	Rural	3835	3549	7384	8.03	713	631	1344	20.12
		Urban	00	00	00	0.00	00	00	00	0.00
		Total	3835	3549	7384	8.03	713	631	1344	20.12
	District Total	Rural	48011	40869	88880	78.67	3528	3151	6679	52.85
		Urban	13012	11911	24923	21.32	2974	2764	5738	47.14
		Total	61023	52780	113803	99.99	6502	5915	12417	99.99

MAJOR AGRICULTURE AND ALLIED CENSUS

(I) LAND CLASSIFICATION

1. Total Geographical area of the district : 5740 sq.km.

2. Total cultivation area of the district : 422445 ha.

3. Uncultivated land : 45152 ha.

4. Forest land : 46526ha.

5. Pasture /fallow land : 15540ha.

6. Irrigated land : 1,19,141 ha.(29.0%)

7. Un irrigated land : 2,96,154 ha. (71%)

(II) LIVE STOCK POPULATION

1. Cow : 55338

2. Buffalo : 173756

3. Sheep : 49235

4. Goat : 99601

5. Poultry birds: 10311

(III) MILK CO-OPERATIVE SOCIETY OF THE DISTRICT

Sr.No.	Name of the taluka	No.of the milk co-operative society
1.	Patan	NA
2.	Sidhpur	58
3.	Chanasma	NA
4.	Harij	52
5.	Sami	104
6.	Radhanpur	56
7.	Santalpur	54
	Total	342

(IV) AREA UNDER SPICES AND CONDIMENTS CROP IN PATAN DISTRICT

Sr. No.	Name of Taluka	Chilli	Fennel	Cumin	Isabgul	Spice & condiment
1.	Chanasma	166	1526	3539	498	5365
2.	Harij	05	05	5348	37	5358
3.	Patan	314	566	2697	482	3847
4.	Radhanpur	12	25	4100	110	4137
5.	Sami	08	00	3583	10	3591
6.	Santalpur	00	00	7525	280	7525
7.	Sidhpur	338	580	872	165	2145
	Total	843	2702	27664	1582	31968

(V) AREA UNDER FRUITS AND VEGETABLE CROP IN PATAN DISTRICT

Sr.No.	Name of Taluka	Fruits	Potato	Vegetables	Total fruits vegetable
1.	Chanasma	46	00	86	132
2.	Harij	04	00	123	127
3.	Patan	165	04	2658	2823
4.	Radhanpur	13	00	179	192
5.	Sami	04	00	31	35
6.	Santalpur	00	00	37	37
7.	Sidhpur	348	337	1247	1595
	Total	580	341	4361	4941

(VI) Area under oilseed crops

Sr.No.	Name of Taluka	Total area
1	Chanasma	9132
2.	Harij	2950
3.	Patan	24744
4.	Radhanpur	5625
5.	Sami	1167
6.	Santalpur	8429
7.	Sidhpur	9979

AGRO-CLIMATIC ZONES

S. N.	Agro-climatic Zone	Characteristics
1.	Zone No.4	- Average rainfall is 610 mm.
	(Patan, Sidhpur	- Soil type is loamy , sandy, saline & medium black.
	and Chansama	- Main crops- Cotton, Wheat, Castor, Cumin, Bajara
	taluka)	& Mustard
2.	Zone No.8	- Average rainfall is 500mm.
	(Harij, Sami,	- Soil type is loamy, sandy, saline and medium
	Radhanpur and	black.
	Santalpur taluka)	- Main Crops - Rainfed Cotton, Wheat, Gram,
		Dillseed, Mustard & Cumin.

MAJOR AND MICRO FARMING SYSTEMS

S. No	Farming system/enterprise
1.	Livestock raising with crop production (mixed farming)
2.	Livestock raising only
3.	Poultry Farming.
4.	Cropping system included in district - Mono cropping
	- Mix cropping - Inter cropping
	- Relay cropping
5.	Vegetables & fruits cultivated area is very low.

MAJOR PRODUCTION SYSTEMS

Cotton based - Cotton - fallow

Cotton - Wheat

Cotton - Bajara

Castor based- Castor- Fallow

Other Kharif Rabi Summer

Bajara Mustard Fallow

Black gram Wheat Bajara

Sesamum Cumin Sorghun

Green-gram Tobacco Black-gram

Lucerne Bajra

Potato

Fennel

Dill seed

MAJOR AGRICULTURE AND ALLIED ENTERPRISES

Sr.No.	Name of enterprises	No.of Registered factory
1.	Agriculture production industries	16
2.	Food product	80
3.	Tobacco	05
4.	Wood & wooden product	04
5.	Rubber plastic petrol and coal product	02
6.	Chemical production	10
7.	Non metal mineral product	13

AGRICULTURE PRODUCT MARKETING COMMITTEE IN PATAN DISTRICT

Sr.No.	Name of Taluka	Functional	Non functional
1.	Patan	01	-
2.	Sidhpur	01	-
3.	Chansma	01	-
4.	Harij	01	-
5.	Radhanpur	01	-
6.	Sami	-	01
7.	Santalpur	-	01

AGRO – ECOSYSTEM ANALYSIS OF THE FOCUS/TARGET AREA – II

1. Name of the Village :-

Mithadharva, Bhatsar, Selavi, Zilwana, Kuvarad, Balisana, Manud, Kamliwada, Danodarda, Khimiyana, Dhummad, Ganeshpura, Dethli, Chandravati, Ganglasana

2. Survey methods used :-

-Survey by questionnaire

-PRA

3. List of Location specific problems:-

- > Salt affected soil.
- In adequate irrigation water
- Average land holding is less
- Calving interval is too long in buffalo.
- Low market price of the farm produce (fruits & vegetable) at the harvesting time.

- No storage facility in nearer area.
- Average productivity of major crops is low.
- Average milk production per animal is low.
- Low income of landless agriculture laboures

4. Matrix ranking of the problem :-

- I = Inadequate irrigation water
- II = Salt affected soil.
- III = Average productivity of major crops is low.
- IV = Calving interval is too long in buffalo.
- V = Average milk production per animal is low.
- VI = No storage facility
- VII= Low market price at the time of harvesting.
- VIII= Average land holding is low.
- IX= Low income of landless agriculture laboures

5. List of location specific thrust area:

Average productivity of the major crops is low.

Castor

- -IDM
- -AlterNet furrow method of irrigation

Wheat

- -Weed management
- -Termite control
- -Irrigation at critical stages.

<u>Mustard</u>

- -Use of sulphatic fertilizer
- -Plant protection powdery mildew & aphid control
- -INM

Cotton

- -use of Bollworm complex resistant variety i.e. B.T. Cotton
- -INM

Green-gram

-Use of high yielding & improved variety GM-4

Salt affected soil

- -Use of soil amendments
- -Use of organic manures.

Inadequate irrigation water

- -Adoption of less water required crops
- -Awareness about water saving devices i.e. MIS, Alternate furrow method of irrigation, mulching etc.

Average milk production per animal is low

- -Fodder management
- -Breed selection

Low market price at the time of harvesting

-Value addition of fruits & vegetables

Deterioration of food grain

-Storage of food grain by scientific method.

6. List of location specific technology needs for OFT & FLD

1. Improved & high yielding varieties of major crops

Castor: GCH-7

Mustard: GM-3

Green-gram: GM-4

Wheat: GW-322, GW-366

Cotton: B.t. Cotton

Fennel: GF-2 (Kharif)

GF-11 (Rabi), GF-12 (Rabi)

Cumin: GC-4

Cabbage- Pusa drumhead

Cauliflower - Pusa snowball K-10

- 2. Use of soil amendments e.g. Gypsum, well decomposed FYM
- 3. Use of sulphatic fertilizer in oil seed crop i.e. Castor, Mustard
- 4. Seed treatment by fungicide
 - Chemical fungicide
 - Bio-fungicide
- 5. Spraying schedule for disease management
- 6. Integrated nutrient management
- 7. Protected cultivation for fruits & vegetables

7. List of location specific training needs:

- a. Production technology of major crops.
- b. Integrated nutrient management
- c. Importance & method of soil sampling and soil water analysis
- d. Integrated pest & disease management
- e. Management of problematic soil
- f. Importance of water saving devices in crop production
- g. Fodder management & use of concentrate for milch animal
- h. Fruit & vegetable preservation
- i. Storage of food grains
- j. Create awareness & skills about income generation activities.
- k. Protected cultivation

TECHNOLOGY INVENTORY AND ACTIVITY CHART-III

Sr. No.	Technology	Crop/ Enterprise	Source of technology
1.	GCH-7 -High yielding & wilt resistant variety	Castor	SDAU-S.K.Nagar
2.	G.M4 -High yielding variety	Green-gram	
3.	G.H.B558, G.H.B538	Bajra	J.A.U., Junagadh
4.	Use of sulphar in Mustard GM-3 -High yielding variety	Mustard	SDAU-S.K.Nagar
5.	Guj.Cumin-4 -Wilt resistant spraying of D.M45 to control blight disease	Cumin	SDAU-S.K.Nagar
6.	High yielding variety GW-322, GW-366 -Use of pendimythylene weedicide in Wheat	Wheat	SDAU-S.K.Nagar
7.	Seed production technology 1. Wheat-GW-496 & 322 2. Mustard-GM-3	Wheat Mustard	SDAU-S.K.Nagar
8.	Integrated pest management	Chilli Cotton Castor	SDAU-S.K.Nagar
9.	Weed management in Cumin by fluchloraline weedcide	Cumin	SDAU-S.K.Nagar
10.	INM in Cotton	BT Cotton	SDAU-SKNagar

* Activity chart

Crop/ Animal enterprise	Problem	Cause	Solution	Activity	Reference of technolog
Green- gram	Low productivity of K-851 & local variety Green-gram	Lack of know ledge about new improved variety Green-gram GM- 4	To create awareness regarding new improved variety GM-4	-FLD on GM-4 variety -Training -Filed day	SDAU- S.K.Nagar
Castor	Wilt infection	-Poor plant protection measures -No crop rotation -Not using wilt resistant variety	To popularize the wilt & root rot resistant and high yielding variety of GCH-7	-FLD on GCH-7 variety of Castor -Training -Field day	SDAU- S.K.Nagar
Cotton	Low productivity of Cotton	-Sucking pest infestation -Lack of knowledge regarding plant production measures	-To create awareness regarding BT.Cotton cultivation -To provide knowledge regarding plant protection measures	-FLD on BT Cotton -Training regarding production technology & plant Protection measures -OFT	SDAU- S.K.Nagar
Mustard	Low productivity of local variety	-Use of local variety -Not using sulphar fertilizer -Poor knowledge regarding P.P. measures	-To create awareness regarding high yielding variety GM-3 -To provide knowledge regarding production technology & P.P. measures -Sulphar fertilizer	-FLD on GM-3 variety of Mustard -Training regarding production technology	SDAU- S.K.Nagar
Cumin	Low yield of Cumin	-Wilt & blight infection in Cumin -Use of local variety	-To create awareness regarding New improved variety of Cumin & Plant protection technology	-FLD on GM-4 variety of Cumin -Training regarding production technology & P.P. measures -OFT on wilt infection -OFT on poor germination	SDAU- S.K.Nagar
Wheat	Low yield of Wheat	Termite infestation in Wheat -Abiotic stress	-To create awareness regarding termite control measures introduction of high yielding variety	Training regarding P.P. measures in Wheat -Awareness about critical stages of irrigation -OFT on abiotic stress	-SDAU – SKNagar SKRAU- Bikaner

Crop/ Animal enterprise	Problem	Cause	Solution	Activity	Reference of technology
Lime	Low yield of lime & poor quality of fruit	-Not using kagadi lime variety -Poor knowledge regarding plant protection & fertilizer management in Lime crop	-To provide seedling of kagadi lime variety -To provide training for fertilizer management in lime -To show the method demonstration for preparation of Bordaux paste and pl.protection measures	-Training & method demonstration for Bordaux paste	-SDAU

SUMMARY OF ANNUAL PROGRESS OF K.V.K. 2012-13

STAFF POSITION

KVK		PC			SMS			PA		ļ	MDA	J		AX		S	UP	Р	Т	OTAL	-
	S	F	٧	S	F	٧	S	F	٧	S	F	٧	S	F	٧	S	F	٧	S	F	V
	1	1	0	6	5	1	3	3		2	2	-	2	1	-	2	4	-	16	16	-

REVOLVING FUND

KVK	Opening Balance on 1.4.12 (Rs.in lakhs)	Revenue Generated (Rs. In lakhs)	Closing Balance on 31.3.13 (Rs. In lakhs)
Krishi Vigyan Kendra Saraswati Gram Vidyapith Samoda-Ganwada	1,54,655=00	4,25,917=00	1,56,792=00
Ta.Sidhpur, Dist.Patan			

SCIENTIFIC ADVISORY COMMITTEE (2012-13)

KVK	No.of meetings conducted	Date of meeting
Patan	01	22/03/2013

ACTIVITIES OF K.V.K.

(a) Technologies assessed during 2012-13

Sr.	Crop/Enterpri	Name of the technology	Thematic area
No.	se		
1.	Castor	Var. GCH-7	Variential Evaluation
		Use of sulphatic fertilizer	INM
		Use of Trichoderma for wilt control	IPM
2.	Green-gram	Var. G.M.4	Variential evaluation
			Seed production
3.	Cotton	Use of MgSO4, ZnSO4	INM
		Use of Neem Oil, Verticillum fungas	IPM
4.	Mustard	Var. GM-3	Variential evaluation
		Use of Sulphatic fertilizer	INM
5.	Wheat	Var. GW-496 & 322 & 366	Variential evaluation
		Use of pendimethalin & 2,4-D weedicide	Weed management
		Use of ZnSO4	INM

Sr. No.	Crop/Enterprise	Name of the technology	Thematic area
6.	Cumin	Var.GC-4	Variential evaluation
		Spraying schedule of D.M45 in Cumin to control blight disease & Use of Trichoderma	IPM
7.	Brinjal	Use of Pheroman trap	IPM
8.	Potato	Use of MIS	Resource conservation technology
8.	Aonla	Preparation of various Aonla product (Aonla Candy and Aonla Pickles)	Value addition

(b) Technologies Refined

Sr.	Crop/Enterprise	Name of the technology	Thematic area
No.			
1.	Castor	Var. GCH-7	Variential Evaluation
		Use of sulphatic fertilizer	INM
		Use of Trichoderma for wilt control	IPM
2.	Green-gram	Var. G.M.4	Variential evaluation
			Seed production
3.	Cotton	Use of MgSO4, ZnSO4	INM
		Use of Neem Oil, Verticillum fungas	IPM
4.	Mustard	Var. GM-3	Variential evaluation
		Use of Sulphatic fertilizer	INM
5.	Wheat	Var. GW-496 & 366	Variential evaluation
		Use of pendimethalin & 2,4-D	Weed management
		weedicide	
		Use of ZnSO4	INM
6.	Cumin	Var.GC-4	Variential evaluation
		Spraying schedule of D.M45 in	IPM
		Cumin to control blight disease &	
		Trichoderma	
7.	Brinjal	Use of Pheroman trap	IPM
8.	Potato	Use of MIS	Resource conservation
			technology
8.	Aonla	Preparation of various Aonla product	Value addition
		(Aonla Candy and Aonla Pickles)	

ABSTRACT OF THE NUMBER OF TECHNOLOGY ASSESSED* IN RESPECT OF CROPS/ ENTERPRISES

Thematic areas	Cereals	Oilseeds	Pulses	Commercial crops	Vegetable	Fruits	Spices	Plantation crops	Tuber crops	Total
Varietals Evaluation	1	-	-	-	1	-		-	-	-
Seed/ Plant production	-	-	-	-	-	-	-	-	-	-
Weed management	-		-	-	-	-	-	-	-	-
Integrated crop management	-	-	-	٧	-	-	-	-	-	01
Integrated Nutrient management	٧	-	-	-	-	-	٧	-	-	02
Integrated farming systems	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	=	-	1	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Farm Machineries	=	-	=		-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-	-	=
Integrated Pest management	-	-	=		1	-	-	-	-	-
Integrated Disease management	-	-	-	-	-	-	٧	-	-	01
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL:	01	-	-	01	-	-	02	-	-	04

ABSTRACT OF THE NUMBER OF TECHNOLOGIES REFINED* IN RESPECT OF CROPS/ ENTERPRISES

	I						I I	
Thematic areas	Cereals	Oilseeds	Pulses	Commer cial crops	Fruits	Spices	Tuber	Total
Varietals Evaluation	-	-	•	-	-	-	-	-
Seed/ Plant production	-	-	-	-	-	-	-	
Weed Management	-	-	-	-	-	-	-	-
Integrated crop management	-	-	•	Cotton + Castor intercrop	-	-	-	1
Integrated Nutrient	Use of	-	-	-		Use of		2
management	thiourea					growth		
						hormone		
Integrated farming systems	-	-	-	-	-	-	-	-
Mushroom cultivation	-		1	-	-	-	-	-
Drudgery Reduction	-	-		-	-		-	-
Farm Machineries	-	ı	•	-	1	-	-	-
Value Addition	-	-		-	-	-	-	-
Integrated Pest management	-	-	1	-	-	-	-	-
Integrated Disease	-	-	-	-	Bioagent-	-	-	1
manage-ment					Trichoderma			
Resource conservation technology	-	-	-	-	-	-		-
Small scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL :	01	-	-	01	02	-	-	4

PERFORMANCE OF IMPORTANT TECHNOLOGIES

A. Technology Assessment:-

(I) Trial – 1 (Crop : Cotton) Year : 2011-12

1. Title : Lower income from Cotton monocrop

2. Problem diagnose/: Not sown intercrop in Cotton

Defined

3. Details of technology selected for assessment / Refinement & source of Technology

Category	Source of technology	Technology details
T1: Farmer practices	Farmers	-No intercrop 120 x 60 cms.
T2: SAU's	State Agril.	-No intercrop
Recommendation	University	-Sowing distance 120 x 45 cms.
T3 : Refine technology	KVK	-Intercropping with Castor
		-Sowing distance 150 x 60 cms

4. Production system : Integrated Farming systems

5. Thematic area : Integrated cropping system

Performance of the technology with performance indicators
 (Result of 1 year)

Treatment	Av. Yield (qt./ha.)	Gross Income Rs./ha.
T1	Cotton: 22.9	91,600
T2	Cotton: 24.8	99,200
T3	Cotton: 21.6	86,400
	Castor: 14.4	43,200

(II) Trial - 2 (Crop : Cumin) Year :-2011-12

1. Title : Low yield of Cumin

2. Problem diagnose/: Incidence of wilt disease

Defined

3. Details of technology selected for assessment / Refinement & source of Technology

Category	Source of technology	Technology details
T1: Farmer practices	Farmers	-No seed treatment
T2: SAU's	State Agril.	-Seed treatment with
Recommendation	University	Carbendazim 50wp @ 3g./1 kg Seed
T3 : Refine technology	KVK	-Soil application of Trichoderma @ 3kg./ha. & seed treatment by Trichoderma spp. @ 20gm./1 kg. seed

4. Production system : Integrated Farming systems

5. Thematic area : Integrated disease management

6. Performance of the technology with performance indicators (Result of 1 year)

Treatment	% wilt infection	Av.yield (qt./ha.)
T1	12.7	7.4
T2	9.3	8.7
Т3	7.5	9.2

(III) Trial – 3 (Crop: Wheat) Year-2012-13

(2) Crop Production

(a) Low yield of wheat

Title :- Low yield of wheat

Location :- Dhummad

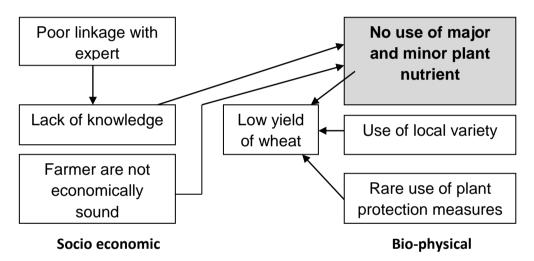
Problem :-

Abiotic stress and deficiency of sulphar diagnosed, Wheat is the main crop of Patan district. The yield of wheat could be optimize through proper fertilization. In later stage crop face some abiotic stress. Like hot wind and water scarcity, Which mitigate through spray of thiourea. It supplies N and S.

Reason:-

- > Use of local variety
- > Rare use of plant protection measures
- ➤ Insufficient use of major & minor plant nutrient
- ➤ Abiotic stress (Hot wind & water stress at later stage of the season)

PROBLEM CAUSE DIAGRAM



Treatment:-

T1 = Farmers practices

Use of local variety

No use of proper nutrient management

T2 = SAU recommendation

Recommended N+P and use of variety GW-496

T3 = Refined technology

Recommended N+P and use of variety GW-496 + two foliar spray of Thiourea (0.1%) at tillering and spike initiation stage.

Replication:- 10

Inputs:-

Area 2.5 ha. Seed – GW-496 Thiourea – 2.5kg.

Note :- Result awaited

(b) OFT Castor Cotton Intercropping Year : 2012-13

Title :- Lower income of Cotton cultivation

Location :- Balisana

Problem:-

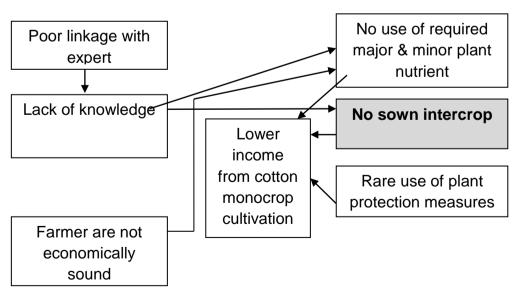
Cotton becomes a main crop so far as cultivation area of the cash crop North Gujarat. As per cash the crop canopy of the BT Cotton. Sowing distance of the crop is 150cms. between two rows. In the part of this practice intercropping of castor in cotton is possible. Intercrop of castor gives additional income.

Reason:-

- > Not sown intercrop in cotton
- > Rare use of plant protection measures
- ➤ Insufficient use of major & minor plant nutrient

Intervening point:- Not sown intercrops

PROBLEM CAUSE DIAGRAM



Socio economic Bio-physical

Treatment :-

T1 = Farmers practices

No intercrop

Spacing 120 x 60 cms

T2 = SAU recommendation

No intercrop

Spacing 120 x 45 cms

T3 = Refined technology

Intercropping with castor

Spacing 150 x 60 cms

Note :- Sowing time : Cotton : 1st fortnight of June

Castor: Last week of August

Replication:- 10

Inputs:-

Area 2.5 ha. Seed – Castor

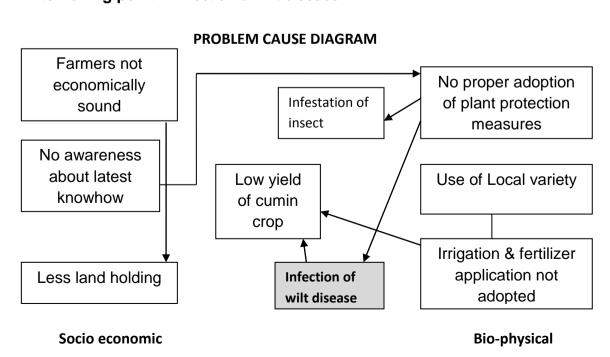
Note:- Result awaited

(2) Plant Protection Year: 2012-13

Title :- Low yield of Cumin

Location:- Kuvarad, Pindharpura, Palasar

Intervening point :- Infection of wilt disease



Treatment:-

T1 = Farmers practices

Use of local variety without seed treatments

T2 = SAU recommendation
Use of GC-4 variety with seed treatment by carbendazim 50 wp @ 1g./1kg
seed

T3 = Refined /Assessed technology
Use of GC-4 variety with seed treatment by bio-fungicide i.e. Trichoderma @ 20g./1 kg seed and soil application of trichoderma @ 3kg./ha Along with vermi compost before sowing.

Replication:- 10

Inputs:-

Area 2.5 ha. Seed – 40kg Trichoderma :- 10kg (Bio fungicide)

Vermi compost: 500 kg

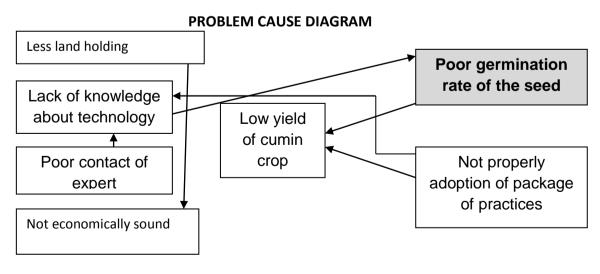
Note:-Result awaited

(3) Horticulture

Title :- Low yield of Cumin

Location :- Selavi, Palasar

Problem Diagnosis :- Poor germination of the crops



Socio economic Bio-physical

Treatment :-

T1 = Farmers practices

Use of local variety

No seed treatment

T2 = SAU recommendation

Seed treatment by Azospirilum and PSB culture

T3 = Refined /Assessed technology

Use of plant humic acid for seed treatment @ 5 ml./ 1kg seed & spraying the crop @ 0.5 ml./1 lit water 30, 45 & 60 DAS

Replication:- 10

Inputs :-

Area 2.5 ha. Seed – 40kg Sulphar – 50kg

Humico :- 2 lit.

Note:- Result awaited

FRONT LINE DEMONSTRATION

Crop/enterprise	No.of demonstrations	Area (ha)
Oilseeds – Castor	-	-
Mustard	-	-
Pulses –Green-gram	53	12.5
Cereals –Wheat	47	15.0
Millets -Bajara	-	-
Cash crops-Cotton	50	12.5
Fodder crops	-	-
Fruit crops	-	-
Vegetable crops	-	-
Plantation crops	-	-
Spices and condiments –		
Cumin	30	15.0
Fennel	30	15.0
Flowers and ornamental	-	-
crops		
Medicinal and aromatic	-	-
plants		
Bio-agent Trichoderma	10	2.5
Total	200	72.5
		Units (No.)
Dairy		
Sheep and goat		
Poultry		
Piggery		
Rabbitary		
Apiculture		
Mushroom units		
Total		
Grand total		

(1) Fennel

Crop and Variety	Season	Name of technology	No.of farmers	Area (ha.)
Fennel (GF-11)	2011-12	Variental evaluation	50	20

Performance of technology on different parameters						Increase yield
Av. Cost of		Av. Gross return		Av. Net	in (%)	
cultiv	ation	(Rs./	(Rs./ha.)		/ha.)	
Demon-	Local	Demon-	Local	Demon-	Local check	
stration	check	stration	check	stration		
28500	26700	85800	72600	57300	45900	18.2

(2) Wheat

Crop and Variety	Season	Name of technology	No.of farmers	Area (ha.)
Wheat-GW-366	2011-12	Variental evaluation	51	20

Po	Performance of technology on different parameters					
	ost of	Av. Gross return (Rs./ha.)		Av. Nets return		in (%)
CUITIV	ation	(RS./	na.)	(Rs./ha.)		
Demon-	Local	Demon-	Local	Demon-	Local check	
stration	check	stration	check	stration		
24800	23600	68400	57600	43600	34000	18.8

(3) Cumin

Crop and Variety	Season	Name of technology	No.of farmers	Area (ha.)
Cumin-GC-11	2011-12	Variental evaluation	24	06

Performance of technology on different parameters						Increase yield
	Av. Cost of cultivation		Av. Gross return (Rs./ha.)		ts return /ha.)	in (%)
Demon-	Local	Demon-	Local	Demon-	Local check	
stration	check	stration	check	stration		
28200	26500	105600	85200	77400	58700	23.9

(4) Cumin (Bio agent)

Crop and Variety	Season	Name of technology	No.of farmers	Area (ha.)
Cumin-GC-4	Rabi 2011-12	Trichoderma	14	05

Po	Performance of technology on different parameters					
	Av. Cost of cultivation		Av. Gross return (Rs./ha.)		ts return /ha.)	in (%)
Demon-	Local	Demon-	Local	Demon-	Local check	
stration	check	stration	check	stration		
29400	28600	124800	106800	95400	78200	16.6

(5) Bajara (INSIMP)

Crop and Variety	Season	Name of technology	No.of farmers	Area (ha.)
Bajara GHB-538	Summer 2011-12	Variental evaluation	12	04

Po	Increase yield					
	ost of ation	Av. Gros (Rs./		Av. Nets return (Rs./ha.)		in (%)
Demon-	Local	Demon-	Local	Demon-	Local check	
stration	check	stration	check	stration		
18950	16100	33800	27500	14850	11400	22.9

(6) Bajra

Crop and Variety	Season	Name of technology	No.of farmers	Area (ha.)
GHB-538	Summer 2011-12	Variental evaluation	52	20

Pe	Increase yield					
	ost of ation	Av. Gros (Rs./		Av. Nets return (Rs./ha.)		in (%)
Demon-	Local	Demon-	Local	Demon-	Local check	
stration	check	stration	check	stration		
18000	15800	31300	26400	14300	10600	22.3

(7) Green-gram

Crop and Variety	Season	Name of technology	No.of farmers	Area (ha.)
Green-gram GM-4	Kharif 2012-13	Variental evaluation	53	12.5

Po	erformance	of technolo	gy on diffe	rent parame	eters	Increase yield				
Av. C	ost of	Av. Gros	in (%)							
cultiv	ation	(Rs./ha.) (Rs./ha.)								
Demon-	Local	Demon-	Local	Demon-	Local check					
stration	check stration check stration									
	Crop failure due to scanty rainfall									

TRAINING (Including Vocational, Sponsored and FLD training)

Thematic area	No. of				-	Particip	ants			
	courses		Othe	r	SC/ST			Grand Total		
		М	F	Total	М	F	Total	М	F	Total
(A) Farmers & Farm										
women										
I. Crop Production										
Weed management	02	43	-	43	01	-	01	44	-	44
Resource conservation	01	18	-	18	01	-	01	19	-	19
technologies										
Cropping systems										
Crop Diversification										
Integrated farming										
Water management	03	72	-	72	02	-	02	74	-	74
Seed production	01	19	-	19	-	-	-	19	-	19
Nursery management										
Integrated crop	09	216	-	216	29	-	29	245	-	245
management		<u> </u>		<u> </u>	<u>L</u>	<u> </u>	<u> </u>	<u> </u>		<u>L</u>
Fodder production										
Production of organic										
inputs										
II. Horticulture										
a) Vegetable crops										
Production of low										
volume and high value										
crops										
Off season vegetable										
Nursery raising	02	36	-	36	04	-	04	40	-	40
Exotic vegetables like										
Broccoli										
Export potential										
vegetables										
Grading and	01	18	-	18	07	-	07	25	-	25
standardization										
Protective cultivation	01	19	-	19	-	-	-	19	-	19
(Green House, Shade										
Net etc.)										
b) Fruits										
Training and pruning										
Layout and										
management of										
orchards	0.1				0.1			400		400
Cultivation fruits	04	96	-	96	04	-	04	100	-	100
Management of young	01	20	-	20	-	-	-	20	-	20
plants/ orchards		1								1
Rejuvenation of old										
orchards			-		-		1	-		
Export potential fruit										
Micro irrigation systems	03	59	-	59	80	-	80	67	-	67
of orchards							-			-
Plant propagation										
techniques										

Thematic area	No. of courses		Other		F	articipa SC/ST		C.	and To	ntal
	Courses	М	F	Total	М	50/51 F	Total	M	F	Tota
c) Spices			-	- Otal		-	Total		•	1014
Production and	08	174	-	174	25	-	25	199	-	199
management										
technology										
Processing and value										
addition										
d) Medicinal and										
Aromatic plants										
Nursery management										
Production	01	25	_	25		_		25		25
management technology	01	23	_	23	-	_	-	25	_	25
Post harvest technology										
and value addition										
III. Soil and Health and										
Fertility management										
Soil fertility										
management										
Soil and water										
conservation										
Integrated nutrient	01	14	_	14	02	-	02	16	_	16
management	0.				02		02			
Production & use of	01	27	06	33	03	-	03	30	06	36
organic inputs					00					
Management of										
problematic soils										
Micro nutrient deficiency										
in crops										
Nutrient use efficiency										
Soil & water testing										
IV. Livestock			-						-	
production and										
management										
Dairy management	03	_	76	76		26	26	102	_	102
Daily management	00		'	7.0		20	20	102		102
Fodder management	02	-	58	58	-	-	-	58	-	58
V. Home										
Science/Women										
empowerment										
House hold food	02	-	39	39	-	10	10	-	49	49
security by kitchen]		
gardening and nutrition]		
gardening										
Design and	01	-	21	21	-	-	-	-	21	21
development of low/										
mini. Cost .diet			ļ						ļ	
Designing and										
development for high										
nutrient efficiency diet.	20					40	4.0			
Minimization of nutrient	02	-	51	51	-	12	12	-	63	63
loss in processing	20		40	40		-		-	40	40
	02	-	49	49	-	-	-	-	49	49
Gender mainstreaming through SHGs	02	-	49	49	-	-	-	-	49	

Thematic area	No.of					ticipa				
	courses		Other	1 =		SC/S			and To	
		M	F	Total	M	F	Total	M	F	Tota
Storage loss minimization techniques	02	-	82	82	-	-	-	-	82	82
Value addition	08	-	248	248	-	04	04	-	252	252
Income generation activities for empowerment of rural women	02	-	37	37	-	14	14	-	51	51
Location specific drudgery reduction technologies	03	-	49	49	-	19	19	-	68	68
Rural Craft	02	-	43	43	-	-	-	-	43	43
Women & child care	02	-	53	53	-	-	-	-	53	53
VII. Plant Protection										
Integrated pest	12	352	10	362	12	-	12	364	10	374
management										
Integrated Disease management	09	240	07	247	18	-	18	258	07	265
Bio-control of pests and diseases	02	40	-	40	06	-	06	46	-	46
Production of bio control										
agents and bio pesticides										
TOTAL:	93	1488	796	2284	122	85	207	1610	881	2491
(B) RURALA YOUTH										
Mushroom production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated farming										
Planting material										
production										
Vermi culture	01	20	-	20	03	-	03	23	-	23
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										
Repair and maintenance										
of farm machinery and										
implements										
Nursery management of horticulture crops	01	16	-	16	10	-	10	26	-	26
Training and pruning of orchards										
Value addition										
Production of quality animal products										

Thematic area	No.of				Participants					
	courses	Other			SC/ST			Grand Total		
Daimina		M	F	Total	М	F	Total	M	F	Tota
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Small scale processing										
Post harvest technology										
Tailoring and stitching										
				00		40	40			
Rural Crafts	02	-	39	39	•	13	13	-	52	52
TOTAL:	04	36	39	75	13	13	26	49	52	101
(C) Extension personnel	00	40	04	40	00		00	F4	04	
Productivity enhancement in field crops	02	48	01	49	03	-	03	51	01	52
Integrated pest	01	37	_	37		_	_	37	_	37
management		0,		0,				07		0,
Integrated nutrient										
management										
Rejuvenation of old										
orchards										
Production cultivation										
technology										
Formation and	01	-	33	33	-	08	08	-	41	41
management of SHGs										
Group Dynamics and										
farmers organization										
Information new working										
among farmers				-					 	
Capacity building for ICT										
application]	l			l		1	

Thematic area	No.of					Particip	ants				
	courses		Other			SC/ST			Grand Total		
		М	F	Total	M	F	Total	M	F	Total	
Care and maintenance of											
farm machinery and											
implements											
WTO and IPR issues											
Management in farm											
animals											
Livestock feed and											
fodder production											
House hold food security	01	-	25	25	-	07	07	-	32	32	
Women and child care											
Low cost and nutrient											
efficient diet designing											
Production and use of											
organic inputs											
Gender mainstreaming											
through SHGs											
Soil and water	01	32	-	32	02	01	03	34	01	35	
conservation practiced											
Training need	02	24	37	61	06	05	11	30	42	72	
assessment and PRA											
techniques											
TOTAL:	08	141	96	237	11	21	32	152	111	269	

SPONSORED TRAINING PROGRAMME

Sr. No.	Date	Title	Discipline	Duration (Days)
1	2	3	4	5
1.	25/4/12	Irrigation management in Rainfed crop	Agriculture	01
2.	27/4/12	Vermi compost and Nursery raising	Agriculture	01
3.	30/4/12	Importance and use of organic matter in rainfed cotton	Agriculture	01
4.	22/5/12	Preparation and preservation of mango products	Home Science	01
5.	4/6/12	Production technology of rainfed cotton	Agriculture	01
6.	8/6/12	Fruit and vegetable preservation	Home Science	01
7.	29/8/12	Scientific cultivation of castor	Agriculture	01
8.	30/8/12 to 31/8/12	Post harvest technology of food grain	Agriculture	02
9.	13/9/12	Preparation and preservation of lemon pickle	Home Science	01
10.	28/9/12	Production technology of Rabi crops cumin and wheat	Agriculture	01
11.	19/11/12 to 23/11/12	Preparation of value added products from fruit and vegetables	Home Science	05
12.	9/1/13	Use of solar cooker as alternate sources of energy	Home Science	01

No.of	No.of participants						Sponsoring				
courses		Other	•		SC/ST	•		Total	Agency		
	M	F	Т	M	F	Т	M	F	Т		
6	7	8	9	10	11	12	13	14	15	16	
01	34	-	34	01	-	01	35	-	35	ATMA Patan	
01	-	34	34	-	-	-	-	34	34	IWMP Patan	
01	14	-	14	01	-	01	15	-	15	ATMA Patan	
01	-	44	44	-	-	-	-	44	44	ATMA Patan	
01	34	-	34	-	-	-	34	-	34	ATMA Patan	
01	-	58	58	-	-	-	-	58	58	ATMA Patan	
01	32	-	32	03	-	03	35	-	35	ATMA B.K.	
01	38	-	38	07	-	07	45	-	45	Central Ware	
										Housing	
										corporation	
										Ahmedabad	
01	-	58	58	-	02	02	-	60	60	FTC Patan	
01	23	-	23	02	-	02	25	-	25	ATMA	
										Surandranagar	
01	-	33	33	-	01	01	-	34	34	FTC Patan	
01	-	24	24	-	06	06	-	30	30	FTC Patan	

EXTENSION ACTIVITIES

S.	Nature of	Purpose/T	0)	Participants											
N.	Extension Activity	opic and date	No.of activities		rmer Farm	1	5	SC/S	T		tens n fice		•	Total	
			S	М	F	Т	М	F	Т	М	F	Т	М	F	Т
1.	Field day	S.Bajara 25/5/12	1	41	-	41	-	-	-	-	-	-	41	-	41
		Green-gram 15/9/12 Cotton	1	38	-	38	3	-	3	-	-	-	41	-	41
		26/9/12 Fennel	1	28	-	28	2	-	2	-	-	-	30	-	30
		12/2/13 Cumin	1	41	-	41	3	-	3	-	-	-	44	-	44
		7/3/13 Wheat	1	19	-	19	8	-	8	-	-	-	29	-	29
		8/3/13	1	18	-	18	-	-	-	-	-	-	18	-	18
2	Method demonstration	Sandasary 23/5/12	1	11	-	11	3	-	3	-	-	-	14	-	14
		Matpur 26/6/12	1	12	-	12	2	-	2	2	-	2	16	-	16
		Samoda, Nagvasana 5/7/12	1	18	-	18	-	-	-	-	-	-	18	-	18
		Samoda 29/1/12	1	05	-	05	6	-	6	-	-	-	11	-	11
3.	Ex-trainee meeting	Samoda	1	-	10	10	-	6	6	-	-	-	-	16	16
4.	Self Help Group formation	Pindharpura 22/2/13	2	-	13 19	13 19	-	3 -	16 -	- -	-	-	-	16 19	16 19
5.	Night meeting	Ganwada 21/5/12	1	18	5	23	1	1	2	-	-	-	19	6	25
6.	Farm Science club	Madhupura 28/6/12	1	24	10	34	-	-	-	2	-	2	36	-	36
		Palasar 8/1/13	1	19	-	19	-	-	-	-	-	-	19	-	19
7.	Kisan Gosthi	Nagvasana 3/5/12	1	36	-	36	9	-	9	-	-	-	45	-	45
8.	World food day	Khimiyana 16/10/12	1	-	62	62	-	-	-	-	-	-	62	-	62
9.	Women in agril day	Kahoda 4/12/12	1	-	31	31	-	-	-	-	-	-	31	-	31
10	Farmer day	Palasar Selavi 23/12/12	1	20	31	51	-	-	-	-	-	-	20	31	51

S.	Nature of	Purpose/T		Participants											
N.	Extension Activity	opic and date	No.of activities	Farmers & Farm women		1	SC/ST			Extensi on officers			Total		
			S	M	F	T	M	F	Т	М	F	Т	M	F	Т
11	Celebration of ICAR establishment day	Kamliwada 16/7/12	1	22	-	22	1	-	1	-	1	-	23	-	23
12	Lecture delivered to	BRS Stu. 31/8/12	1	-	23	23	-	12	12	-	-	-	35	-	35
	other programme	BRS Stu. 12/9/12	1	-	30	30	-	7	7	-	-	-	37	-	37
		BRS Stu. 10/11/12	1	12	8	20	5	2	7	-	-	-	17	10	27
		BRS Stu. 16/1/13 to 31/1/13	16	-	39	39	-	23	23	-	-	-	-	62	62
		BRS Stu. 4/2/13	1	9	12	21	5	7	12	-	-	-	14	19	33
13	Radio talk	17/12/12	1												

PRODUCTION AND SUPPLY OF QUALITY SEED AND PLANTING MATERIAL

PLANTING MATERIALS

Sr.No.	Crop	Variety	Quantity (no.)	Value (Rs.)	Provided to No. of farmer
FRUITS	Lime	Kagzi lime	703	10545	38
SPICES		•	-	1	-
VEGETABLES	ı	ı	-	ı	-
FOREST SPECIES	-	-	-	-	-
ORNAMENTAL CROPS	-	-	240	2670	53
OTHERS	Tobacco	GCT-4	210500	21050	39
	Vermi compost	-	1450kg	4350	4

SUMMARY

Sr.No.	Crop	Quantity (no.)	Value (Rs.)	Provided to No. of farmer
1.	FRUITS	703	10545	38
2.	SPICES	-	-	-
3.	VEGETABLES	-	-	-
4.	FOREST SPECIES	-	-	-
5.	ORNAMENTAL CROPS	240	2670	53
6.	PLANTATION CROPS	-	-	-
7.	OTHERS	210500	21050	39
8.	Vermi Compost	1450 kg	4350	04

PUBLICATIONS

Research			Journal	Number
	Effect of paddy straw and	S.K.Sharma	International	
papers	paper mill effluent on the	Y.K.Sharma	conference on	
l l	physico chemical	Shayamdas	Education in the	
	properties of wheat	,	prospective of	
	rhizosphere		advances in	
			"natural resource	
			management in	
			agriculture"	
			(NaRMA-IV)	
			19-21 Dec.2012	
	Effect of paddy straw and	S.K.Sharma	Journal of Green	
	paper mill effluent on	Y.K.Sharma	agricultural	
	physico chemical	Shayamdas	science, Vol.1,	
	. ,	•	Issue 1	
_	properties of soil	0.0.01	1.6	
	Weed management Study	S.R.Dhikwal	International	
	in gram (cicer aritinum L) +	S.M.Kumawat	conference on	
	mustard (Brassica Juncea)	Shayam Das	Education in the	
	intercropping system in	Abdul Amin	prospective of advances in	
	north western Rajasthan	7 1.0 0.0 1.7 1.1 11.1	"natural resource	
	Hortif Western Rajastrian			
			management in agriculture"	
			(NaRMA-IV)	
			19-21 Dec.2012	
	Doopongo of different		International	
	Response of different		conference on	
	methods of potassium		Education in the	
	application on growth and		prospective of	
	yield of barley (Hordeum		advances in	
	vulgare L.) in western		"natural resource	
	Rajasthan		management in	
	Rajastriari		agriculture"	
			(NaRMA-IV)	
			19-21 Dec.2012	

Item	Title	Authors name	Name of	Number
			Journal	
	Response of phosphoru on	Shayam Das	International	
	growth yield and quality of	B.L.Paseek	conference on	
	chickpea (Cicer arietinum L.)	S.R. Dhikwal	Education in the	
	in North western Rajasthan	Abdul Amin	prospective of	
	•		advances in	
			"natural resource	
			management in	
			agriculture"	
			(NaRMA-IV)	
NI I. ((19-21 Dec.2012	
News letters	-	-	-	-
Technical	-	-	-	-
bulletins	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 6 1 11 17	IZ'	
Popular	Jaivik Kheti : Tikau Kheti ka	Dr.Sushil Kumar	Kisan International	
articles	ek aavshayak aadhar	Sharma	July – Dec.12	
Books	Jaivik Kheti evam Vermi	Dr.S.K.Sharma		500
	composting	Dr. R.K.Gangwar		
	Samanya Krishi Vigyan	Dr.S.K.Sharma		500
	,	Dr. R.K.Gangwar		
Extension	 Scientific cultivation of 			500
literature	Castor			each
	2. Scientific cultivation of			
	Cotton			
	Scientific cultivation of Potato			
	4. Scientific cultivation of			
	Wheat			
	5. Scientific cultivation of			
	Cumin			
	6. Scientific cultivation of			
	Chiku & mango			
	7. Scientific cultivation of			
	Lime 8. Preparation & preservation			
	of lemon products			
	Preparation & preservation			
	of Aonla products			
	10. Preparation & preservation			
	of Mango products			

SOIL AND WATER TESTING (Year : 2012-13)

Details	No.of Samples	No.of Farmers	No.of villages	Amount realized
Soil Samples				
Water Samples				
Plant Samples				
Total				

RAINWATER HARVESTING
NIL



1st APRIL-2013 TO 31ST MARCH-2014

SUBMITTED TO ZONAL PROJECT DIRECTORATE ZONE-VI, JODHPUR



SUBMITTED BY
KRISHI VIGYAN KENDRA
SAMODA-GANWADA
TA.: SIDHPUR, DIST.: PATAN (N.G.)

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ANNUAL ACTION PLAN





GUJARAT STATE

PATAN DISTRICT

(1ST APRIL-2013 TO 31ST MARCH-2014)

MAJOR THRUST AREA

Thrust area identified through PRA or any other method.

- Average productivity of major crops (Castor, Mustard, Cotton, Cumin, Wheat & Green-gram, Carrot) is low It can be increased by
 - ✓ Adoption of improved and high yielding variety.
 - ✓ Adoption of Plant Protection measures and I.P.M.
 - ✓ Use of organic manures and chemical fertilizer management.
- In adequate irrigation water It can be solved by
 - ✓ Adoption of drip irrigation.
 - ✓ Irrigation in alternate furrow method.
 - √ Adoption of less water required crops
- 3. Reclamation of Alkaline soil.
 - ✓ It can be solved by using soil amendment.
- 4. Area under fruits and vegetable crops is very low. It can be solved by
 - ✓ Introduction of fruits and vegetables crops.

5. Unavailability of Agril. labour It can be solved by

√ Farm mechanization

- 6. Post harvest technology in fruit and vegetable crops is highly required.
 - ✓ Training regarding, Grading, packing, Transportation and marketing techniques.
- 7. Average milk production per animal is low It can be increased by
 - √ Fodder management
 - ✓ Selection of breed.
 - ✓ Health care management
- 8. Requirement of value addition of fruits and vegetable.
 - ✓ Preparation & Preservation of pickles, Jam, Jelly, Squash, Candy.
- 9. Low income of landless agril. labour
 - ✓ Income generation activities through agro. base gruh udyog.
 - ✓ Women empowerment through income generation activities.
- 10. Scope & importance of solar energy- Solar Coker

QUARTER WISE SUMMARY OF ANNUAL ACTION PLAN OF KVK - PATAN FOR THE YEAR: 2013-14

(1ST April.-2013 TO 31ST March. -2014)

1. TRAINING PROGRAMME: -

S.	Subject		ON CAMPUS														
N.			PF				F	FW			F	RY			Е	F	
		ı	П	Ш	IV	ı	П	Ш	IV	ı	П	Ш	IV	ı	П	Ш	IV
1.	Crop Production	3	3	2	2	-	-	-	-	1	-	-	1	1	-	-	-
2.	Horticulture	3	3	-	-	-	-	-	-	1	-	1	-	-	-	-	-
3.	Plant Protection	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	1
4.	Animal Science	-	-	-	-	1	2	1	1	-	-	-	-	-	1	-	-
5.	Home Science	-	-	-	-	2	3	3	3	1	-	1	-	1	-	-	-
6.	Agril. Engg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.	Multi. Discipline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
8.	Plant Breeding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.	Rural Craft	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total :-	9	9	5	4	3	5	4	4	3	-	2	1	2	1	1	1

S.	Subject	Sponsored			On (n Campus			Off Campus				Grand	
N.		ı	Ш	Ш	IV	1	II	Ш	IV	I	II	Ш	IV	Total
1.	Crop Production	1	-	-	-	5	3	2	3	3	3	3	4	27
2.	Horticulture	-	-	1	-	4	3	1	-	3	3	3	5	23
3.	Plant Protection	1	-	-	-	3	3	3	3	3	3	3	3	25
4.	Animal Science	-	-	-	-	1	3	1	1	1	-	1	1	09
5.	Home Science	1	1	-	-	3	3	4	3	3	3	3	3	27
6.	Agril. Engg.	ı	-	-	-	-	-	-	-	-	-	-	-	-
7.	Multi. Discipline	-	-	-	1	-	-	1	-	-	-	-	-	2
8.	Plant Breeding	-	-	-	-	-	-	-	-	-	-	-	-	-
9.	Rural Craft	-	-	-	1	-	-	-	-	-	-	-	-	-
	Total :-	3	1	1	1	16	15	12	10	13	12	13	16	113

PF : Practicing Farmer FW: Farm Women RY: Rural Youth

EF: Extension Functionaries

2. **DEMONSTRATION:**-

Sr. No.	Type of Demonstration	Crop	Farming situation	No. of Demon- stration	Area (ha.)
1.	F.L.D.				
	I. Kharif				
	 Cotton- Crop production 	Cotton	Irrigated	30	15
	Castor- Crop production	Castor	Irrigated	30	15
	3. Green-gram-Crop production	Green-gram	Irrigated	30	15
	II. Rabi				
	Fennel- Crop production	Fennel	Irrigated	30	15
	2. Cumin- Crop production	Cumin	Irrigated	30	15
	3. Wheat- Crop production	Wheat	Irrigated	30	15
	4. Cauliflower- horticulture	Cauliflower	Irrigated	10	2.5
	5. Cabage-Horticulture	Cabage	Irrigated	10	2.5
	III. Summer				
	1, Bajra - Crop production	Bajra	Irrigated	10	05

3. ON FARM TESTING:-

- 3.1. Low income from Cotton crop
- 3.2. Low yield of Cumin
- 3.3. Low yield of Cumin
- 3.4. Low yield of Wheat

4. EXTENSION ACTIVITIES :-

Sr.No.	Activity	Total
1.	Field day	08
2.	Method demonstration	04
3.	Ex-trainee meeting	02
4.	Agri. Exhibition	02
5.	Self help group	02
6.	Farm science club	02
7.	Night meeting	01
8.	Group meeting	02
9.	World food day	01
10.	Women in Agril. day	01
11.	Celebration of international women day	01
12.	Farmer day	01
13.	Celebration of establishment of ICAR day	01
14.	Lectures to be delivered in other programme	04
15.	Exposure visit	01
16.	Scientist farmer interaction	01
17.	Diagnostic service -Farmers visit to KVK -Scientist visit to farmers field	-
18.	Soil and water sample analysis	150
19.	Publication	
	-Popular article to be published	10
	-Success story	02
	-Case study	02
20.	Communication media	
	-New paper coverage	05
	-Subscription for agril magazine	150
21.	Distribution of seed/seedling on cost basis	

5. PROPOSED PLAN OF WORK FOR INSTRUCTIONAL FARM:-

5.1.	Crop Production	-	9.0 ha.
5.2.	Horticulture	-	5.0 ha.
5.3	Demonstration	-	2.0 ha.
5.4	Land under development	-	3.0 ha.
5.5	Land under Infrastructure facility	-	1.0 ha.

^	INICOAC	TDUO	TUDE	DEVEL	ODMENT -
n.	INFRA	SIRUL	IURE	DEVEL	OPMENT :-

Details is given in report

7. S.A.C. MEETING PROPOSED:-

March-2014

1. VOCATIONAL TRAINING PROGRAMME:-

1.1. On-Campus Programme :-

			Г	· - ·		
Sr. No.	Subject	Title of Training	Date	Duration	No.of Partici- pants	Type of participants
I- QL	JARTER					
1.	Crop Production	Importance of summer ploughing and green manuring	April-13	03	20	Farmer
		Advances in Kharif pulses production technology	May-13	03	20	Farmer
		Integrated nutrient management in Castor and cotton	June-13	03	20	Farmer
		Seed production technology of green gram	June-13	07	15	Rural youth
2.	Horticulture	Rejuvenization of old orchards like lime & pomogranate	April-13	03	20	Farmer
		Training & pruning in pomegranate & lime	May-13	03	20	Farmers
		Nursery raising of vegetable crops	May-13	07	15	Rural youth
		Scientific cultivation of custard apple	June-13	03	20	Farmers
3.	Plant Protection	Identification of sucking pest & their management	April-13	03	20	Farmer
		Identification of Bio-agent & their role in insect pest management	May-13	03	20	Farmer
		Precautionary measures to control the sucking pest & parawilt in BT Cotton.	June-13	03	20	Farmer
4.	Animal Science	Importance of vaccination in Livestock management	May-13	03	20	Farm women
5.	Home Science	Alternate source of energy solar cooker , Bio-gas and smokeless chulha	April-13	03	20	Farm women
		Preparation and preservation of mango products	May-13	03	20	Farm women
		Tailoring course in women and children garments	June-13	15	15	Rural youth

Sr. No.	Subject	Title of Training	Date	Duration	No.of Partici- pants	Type of participants
II- Q	UARTER					
1.	Crop Production	Scientific cultivation of Castor	July-13	03	20	Farmer
		Irrigation scheduling in Kharif crops	Aug13	03	20	Farmer
		Importance of soil and water analysis in crop production	Sep13	03	20	Farmer
2.	Horticulture	Nursery raising of chilli crops	July-13	03	15	Farmer
		Scientific cultivation of tomato	Aug13	03	20	Farmer
		Protective cultivation of capsicum green	Sept13	03	20	Farmer
3.	Plant Protection	Precautionary measures to control the pest & diseases in Castor	July-13	03	20	Farmer
		Control measures of pest & diseases of vegetables	Aug.13	03	20	Farmer
		Plant protection measures of pest & diseases of citrus	Sept13	03	20	Farmer
4.	Animal Science	Importance of green and dry fodder and mineral mixture for milch animal	July-13	03	20	Farm woman
		Importance of colostrums feeding in calf raising	Aug13	03	20	Farm women
5.	Home Science	Importance and techniques of kitchen gardening	July-13	03	20	Farm women
		Awareness regarding kitchen appliances (Juicer, Blenderm Chilli and Onion cutter etc.)	Aug13	03	20	Farm women
		Value addition in soya products	Sept13	03	20	Farm women

Sr. No.	Subject	Title of Training	Date	Duration	No.of Partici- pants	Type of participants
III- Q	UARTER				J	
1.	Crop Production	Advances in chickpea production technology	Oct13	03	20	Farmer
		Scientific cultivation of Tobacco	Nove13	03	20	Farmer
2.	Horticulture	Plant Propagation tech. in fruit crops	Dec13	05	15	Rural Youth
3.	Plant Protection	Plant protection measures of insect pest in Mustard	Oct13	03	20	Farmer
		Precautionary measures to control the termite in wheat	Nov13	03	20	Farmer
		Identification of lady bird beetle & their role to control the aphids in mustard & Lucerne	Dec13	03	20	Farmer
4.	Animal Science	Importance of vaccination in livestock management	Dec12	03	20	Farm women
5.	Home Science	Preparation of decorative items from waste materials	Oct13	03	20	Farm women
		Income generation activities for empowerment of rural women	Nov13	03	20	Farm women
		Preparation and preservation of Aonla products	Dec,-13	03	15	Farm women

		1				
Sr. No.	Subject	Title of Training	Date	Dura- tion	No.of Partici- pants	Type of participants
IV- Q	UARTER					
1.	Crop Production	Efficient use of water for higher Rabi crop production	Jan14	03	20	Farmer
		Scientific cultivation of summer bajra	Feb14	03	20	Farmer
		Vermi compost production	March-14	07	15	Rural youth
2.	Horticulture	-	-	-	-	-
3.	Plant Protection	Importance & method of preparation & application of Bordaux mixture & Bordaux paste.	Feb14	03	20	Farmer
		Importance & method of seed treatment by pesticides for pest & disease management	Mar14	03	20	Farmer
4.	Animal Science	Importance of artificial insemination in live stock	Jan14	03	25	Farm women
5.	Home Science	Preparation of value added product from fruits and vegetables.	Jan14	02	20	Farm women
		Designing and development of low/minimum cost diet	Feb14	03	20	Farm women
		Income generation activities for empowerment of rural women	Mar14	03	15	Farm women

1.2. Off Campus Programme :-

Sr. No.	Subject	Title of Training	Date	Duration	No.of Partici- pants	Type of partici-pants
	JARTER					
1.	Crop	Reclamation of problematic soil	April-13	03	20	Farmer
	Production	Scientific Cultivation of B.T. cotton	May-13	03	20	Farmer
		Importance and efficient use of biofertilizer and organic manure in Kharif crops.	June-13	03	20	Farmer
2.	Horticulture	Scientific cultivation of papaya	April-13	01	20	Farmer
		Micro irrigation systems in orchards of fruits crop	May-13	01	20	Farmer
		Production technologies of guava	June-13	01	20	Farmer
3.	Plant Protection	Plant Protection measures of insect pest in summer vegetables	April-13	01	20	Farmer
		Safely & effective use of pesticide in insect pest management	May-13	01	20	Farmer
		Plant Protection measures of insect pest in pulse crops i,e Green-gram & Black-gram	June-13	01	20	Farmer
4.	Animal Science	Importance of fooder management & mineral mixture for milch animals	June-13	01	20	Farm women
5.	Home Science	Storage of food grains	April-13	01	20	Farm women
		Minimization of nutrient loss while preparation of pulses food	May-13	01	20	Farm women
		Preparation and preservation of mango pickles	June-13	01	20	Farm women

Sr. No.	Subject	Title of Training	Date	Duration	No.of Partici-	Type of partici-
					pants	pants
II- Q	UARTER					
1.	Crop Production	Integrated weed management in cotton.	July-13	03	20	Farmer
		Importance of organic farming in present scenario.	Aug13	03	20	Farmer
		Scientific cultivation of fennel.	Sept13	03	20	Farmer
2.	Horticulture	Scientific cultivation of bottle gourd and sponge goard	July-13	01	20	Farmer
		Scientific cultivation of chilli.	Aug13	01	20	Farmer
		Improved package of practices of cualiflower	Sept13	01	20	Farmer
3.	Plant Protection	Plant Protection measures of insect pest in chilli & tomato	July-13	01	20	Farmer
		Integrated pest & disease management in Castor	Aug13	01	20	Farmer
		Control measures of pest & disease of fennel	Sept13	01	20	Farmer
4.	Home Science	Preparation and feeding of poshak in children	July-13	01	20	Farm women
		Storage of food grains	Aug13	01	20	Farm women
		House hold food security by kitchen gardening and nutritional gardening	Sept13	01	20	Farm women

Sr. No.	Subject	Title of Training	Date	Duration	No.of Partici- pants	Type of participants
III- Q	UARTER					
1.	Crop Production	Scientific cultivation of mustard	Oct13	01	20	Farmer
		Scientific cultivation of Wheat Integrated weed management in wheat	Nov13	01	20	Farmer
		Scientific cultivation of mustard	Dec13	01	20	Farmer
2.	Horticulture	Production of low income and high value crops like cumin	Oct13	01	20	Farmer
		Scientific cultivaiton of potato	Nov.13	01	20	Farmer
		Scientific cultivation of muskmelon	Dec.13	01	20	Farmer
3.	Plant Protection	Precautionary measures to control the diseases in Potato	Oct13	01	20	Farmer
		Control measures of disease in Cumin by bio agent	Nov13	01	20	Farmer
		Control measures of sugary disease in fennel	Dec13	01	20	Farmer
4.	Animal Science	Importance of vaccination in livestock management	Oct12	01	20	Farm women
5.	Home Science	Importance of self help group	Oct13	01	20	Farm women
		Dehydration of green leafy vegetable like palak methi	Nov.13	01	20	Farm women
		Balanced diet for pregnant women	Dec13	01	20	Farm women

Sr. No.	Subject	Title of Training	Date	Duration	No.of Partici- pants	Type of participants				
IV- QUARTER										
1.	Crop Production	Scientific cultivation of Rabi fodder crop , Lucerne and oat	Jan-14	01	20	Farmer				
		Role of micronutrient in Crop production specially in reference to Zn and S	Feb14	01	20	Farmer				
		Scientific cultivation of fodder bajra and sorghum	Mar14	01	20	Farmer				
		Production and use of organic manure.	Mar14	01	20	Farmer				
2.	Horticulture	Scientific cultivation of water melon	Jan14	01	20	Farmer				
		Production technology of okra	Jan14	01	20	Farmer				
		Advances production technologies of cucumber	Feb14	01	20	Farmer				
		Nursery raising of papaya	Feb14	01	20	Farmer				
		Production technologies of cowpea	Mar.14	01	20	Farmer				
3.	Plant Protection	Plant Protection measures of potato	Jan14	01	20	Farmer				
		Plant protection measures of sucking pest in vegetables	Feb-14	01	20	Farmer				
		Integrated pest & disease management for field crops	March-14	01	20	Farmer				
4.	Animal Science	Importance of fodder management and mineral mixture for milch animals	Feb14	01	25	Farm women				
5.	Home Science	Designing and development of low/minimum cost diet	Jan14	01	20	Farm women				
		Designing and development for high nutrient efficiency diet	Feb14	01	20	Farm women				
		Use of solar cooker	Mar14	01	20	Farm women				

1.3. Sponsored Training Programme:-

Sr. No.	Title of Training	Month	Dur	No. of participant	Type of participant	Sponsoring Agency
			Duration	partioipant	participant	/ igolicy
1.	Water use efficiency	May-13	01	25	Farmer & Farm women	IWMP Patan
2.	Production technology of Cumin	Oct13	01	25	Farmer & Farm women	IWMP Patan
3.	Fruit & vegetable preservation	April-13	01	25	Farm women	FTC Patan
4.	Fruit & vegetable preservation	Aug13	01	25	Farm women	ATMA Patan
5.	Integrated pest & disease management	June-13	01	25	Farmers	FTC
6.	Awareness regarding various scheme of NABARD for agril. Development	Feb.14	01	25	Farmers	NABARD Patan

1.4. In-service Training Programme :-

Subject	Title of Training	Month	Duration (Days)	No,of participant	Type of participant
Agriculture	Awarness regarding latest know how about Agriculture	June-13	02	20	VLW & Ext. Officer
	Training need assessment	Dec13	02	20	WDT members
	Safely & effective use of pesticide	Feb-14	01	20	Agro input dealer
Home Science	Formation & management of SHG	May-13	02	20	WDT member
Animalscie nce	Importance of artificial insemination in live stock production	July-13	01	20	Dairy mamber

2. **DEMONSTRATION**

Front Line Demonstration

Title of Demon- stration	Objective	Variety	Farming situation	Area (ha.)	No. of farmers	Existing Technology	Specific technology intervention	Critical Inputs	Remarks
			on On	ha.)	ß				rks
I. Kharif									
Cotton	Integrated nutrient management	BT. Cotton	Irrigated	15	30	No use of ZnSO4	Application of ZnSO4	ZnSO4	Kharif
Castor	To introduce wilt and root rot resistant and high yielding variety	GCH-7	Irrigated	15	30	GCH-4 & GCH-2 variety	Wilt resistant & high yielding variety Use of bio-	Seed of GCH-7 variety	Kharif
	yleiding variety					No use of Bio-fertilizer	fertilizer Seed	Azatobactor & PSB culture	
						No use of fungicide	treatment with fungicide Recommended	Carbendenzi m & Trichoderma	
						Not giving ferti. As per recommend ed dose	dose of fertilizer	Urea, DAP, A.S.	
Green- gram	To introduce high yielding variety	GM-4	Rainfed	15	30	Local variety K- 851	Improved variety	Seed of GM- 4 variety	Kharif
						No use of bio-fertilzier	Seed treatment with bio-fertilizer	Rhizobium culture & PSB culture	
II. Rabi	I		I	ı					
Fennel	To introduce & popularize high yielding variety	GF-12	Irrigated	15	30	Local variety	Improved variety	Seed of GF- 12 variety	Rabi
Cumin	To introduce & popularize high yielding & wilt resistance variety	GC-4	Irrigated	15	30	Local variety	Improved variety	Seed of GC- 4 variety	Rabi
Wheat	To introduce & popularize high yielding variety	GW- 366	Irrigated	15	30	GW-496 variety Local variety	Improved variety	Seed of GW- 366 variety	Rabi

Title of Demon- stration	Objective	Variety	Farming situation	Area (ha.)	No.of farmers	Existing Technology	Specific technology intervention	Critical Inputs	Remarks
Cauliflower	To introduce high yielding & early variety	Improved variety	Irrigated	2.5	10	Use of local variety	Early improved variety	Seed	Rabi
Cabbage	To introduce high yielding variety	Pusa drumhead	Irrigated	2.5	10	Local	Improved variety	Seed	Rabi
III. Summer									
Bajara	To introduce & popularize high yielding variety	GHB-558	Irrigated	15	30	Nandi-5	Improved variety	Seed	Sum mer

3. ON FARM TESTING:-

(I) Title: Low income from Cotton Crop

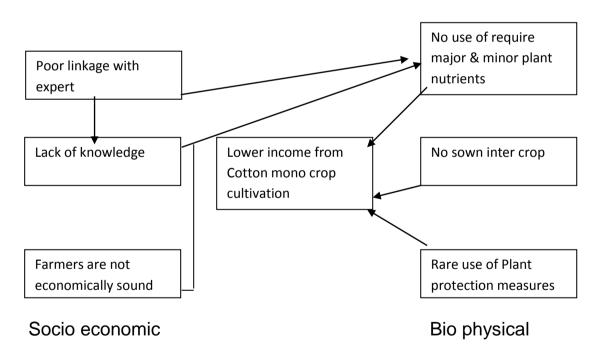
Cotton become a main crop so far as cultivation area of the cash crops of the North Gujarat. As per the crop canopy of the BT. Cotton, sowing distance of the crop is 150cm. between two rows. In the part of this practices inter cropping of Castor in Cotton is possible. Inter crop of Castor give additional income.

Reason:-

- Not sown inter crop in Cotton.
- Rare use of plant protection measures.
- Insufficient use of major & minor plant nutrients

_

PROBLEM CAUSE DIA-GRAM



Intervening point :

Inter cropping of Castor in BT.Cotton for additional income

Treatments:

T1: Farmers practices

- No inter crop
- Sowing distance 120 x 60 cm.

T2: SAU recommendation

- No inter crop
- Sowing distance 120 x 45 cms.

T3: Refined/assessed technology

- Inter cropping with Castor
- Sowing distance 150 x 60 cms.

Note: Sowing time: Cotton: 1st fortnight of June

Castor: Last week of August

(II) Title: Low yield of Cumin

Cumin is the main spice crop of the North Gujarat area. Productivity of the crop decrease day by day to the no scope of crop rotation in Cumin growing area.

Reason:-

- Rare use of Plant protection measures
- Incidence of wilt disease
- No crop rotation

Intervening point:

Incidence of wilt disease

Treatments:

T1: Farmers practices

- No seed treatment

T2: SAU recommendation

- Seed treatment with Carbendazim 50wp @ 3g./1 kg seed

T3: Assessed / refined technology Soil application of Trichoderma viridae @ 3kg/ha. & seed treatment by Trichoderma spp @ 20gm./1kg. seed.

(III) Title: Low yield of Cumin (Horti.)

1. Title : Low yield of Cumin

2. Problem diagnose/: Poor germination of the crop

Defined

3. Details of technology selected for assessment / Refinement & source of Technology

Category	Source of technology	Technology details
T1 : Farmer practices	Farmers	-No seed treatment
		Use of local variety
T2: SAU's	State Agril.	Seed treatment by Azospirilum
Recommendation	University	and PSB culture
T3 : Refine technology	KVK	Use of plant humic acid for seed
		treatment @ 5 ml./ 1kg seed &
		spraying the crop @ 0.5 ml./1 lit
		water 30, 45 & 60 DAS

4. Production system : Integrated Farming systems

5. Thematic area : Integrated disease management

(IV) Title :- Low yield of Wheat (Crop Production)

Title :- Low yield of wheat

Reason:-

- > Lack of knowledge
- Less no. of tillers due to higher plant population.
- > Rare use of plant protection measures
- ➤ Imbalance use of plant nutrients.

Intervention point : Seed rate

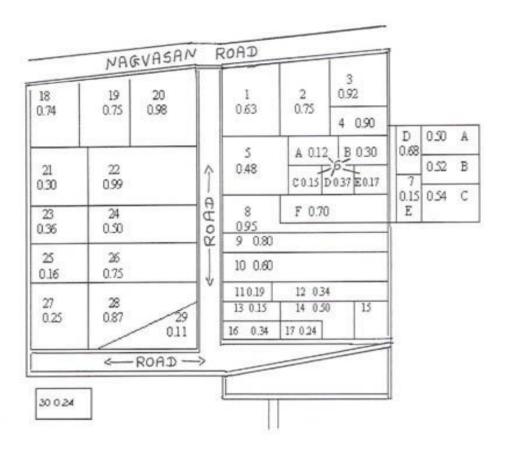
Treatment:-

- T1 = Farmers practices
 Use of GW-496 variety, seed rate 160kg/ha
- T2 = SAU recommendation Recommended practices, use of GW-496 variety, seed rate 125 kg/ha.
- T3 = Refined technology Recommended practices, use of GW-496 variety, seed rate 140 kg/ha.

4. **EXTENSION ACTIVITY:**

Sr.	Activity	ı	II	III	IV	Total
No.		April-June	July-Sept	OctDec	Jan Mar.	
1.	Field day	01	01	01	05	80
2.	Method demonstration	01	01	01	01	04
3.	Ex-trainee meeting	01	-	-	01	02
4.	Agri. Exhibition	-	-	01	01	02
5.	Self Help Group	-	01	01	-	02
6.	Farm Science club	01	-	01	-	02
7.	Night meeting	-	-	01	-	01
8.	Group meeting	01	01	01	01	04
9.	World food day	-	-	01	-	01
10.	Women in Agri. Day	-	-	01	-	01
11.	Celebration of international women	-	-	-	01	01
12.	Farmer day	-	-	01	-	01
13.	Celebration establishment of ICAR day	-	01	-	-	01
14.	Lectures to be delivered in other programme	02	02	02	02	08
15.	Exposure visit	-	-	-	01	01
16.	Scientist farmer	01	-	-	-	01
17.	interaction Diagnostic service	_	_			
17.	Farmers visit to KVKScientist visit to farmers field					
18	Soil and water sample analysis	50	50	50	50	200
19	Publication Popular article to be published	02	02	02	02	08 01
	Success storyCase study	-	01 -	- 01	-	01
20.	Communication media New paper coverage	01	01	01	01	04
	Subscription for agril magazine	50	50	50	50	200
21	Distribution of seed/seedling on cast basis					
	Seed- Wheat Seedling- Lemon Tobacco	- - -	20000	1500kg - 150000	- - -	1500 20000 150000
	Fennel	-	150000	-	-	150000
	Chilli	-	200000	-	-	200000

5. PROPOSED PLAN OF WORK FOR INSTRUCTIONAL FARM:



Plot	Area (ha.)		Proposed crop	
No.		Kharif	Rabi	Summer
1	0.63	Green-gram	Mustard	Bajara
2	0.73	Guar	Fennel	
3	0.92	Castor	Continue	
4	0.90	Castor	Continue	
5	0.48	Lemon		
6 A	0.12			
В	0.30		Cumin	
С	0.15			
D	0.37			
Е	0.17			
F	0.70			
7 A	0.50	Guar		
В	0.52	Guar		
С	0.54	Guar		
D	0.68	Guar		
Е	0.15	Guar		
8	0.95	Mango		
9	0.80	Lemon		
10	0.60	Chiku		

Plot	Area (ha.)	Proposed crop						
No.		Kharif	Rabi	Summer				
11	0.18	Lemon						
12	0.34	Lemon						
13	0.15	Lemon						
14	0.50	Lemon						
15	0.29	Lemon						
16	0.34	Tobacco seedling	Wheat					
17	0.24	Lemon						
18	0.74		Mustard					
19	0.75	Cotton						
20	0.98	Cotton						
21	0.30		Tobacco	Bajara				
22	0.99	Cotton						
23	0.36							
24	0.50		Tobacco	Bajara				
25	0.15	Guava						
26	0.75	Mango						
27	0.25	Mango						
28	0.87		Wheat					
29	0.11							
30	0.24		Wheat					

6. INFRASTRUCTURE DEVELOPMENT:

Sr.No.	Particulars	Existing	Proposed during the year 2012-13	Approximate cost
1.	Building			
	Office Building	Completed	-	-
	2. Hostel	Completed	-	-
	3. Residential Quarter	Completed	-	-
2.	Demonstration Unit			
	1. Nursery Unit	Completed	-	-
	2. Vermi compost Unit	Completed	-	-
	3. Net House	Completed	-	-
3.	Farm Development			
	1. Tube well	Completed	-	-
	2. Threshing yard	Completed	-	-
	3. Fencing	Completed	-	-
	4. Electrification	Completed	-	-
4.	Any other			
	1. Tractor	-	Proposed for New Tractor	5.0 lakhs

