ANNUAL PROGRESS REPORT

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.)

INDEX

ANNUAL PROGRESS REPORT

(1ST APRIL-13 TO 31ST MARCH-14)

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 Samoda-Ganwada Ta.Sidhpur, Di. Patan Pin. 384 151 (N.G.)	02767 285528	02767 285528	kvksamoda@yahoo.com

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

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

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

Name	Telephone / Contact		
	Residence	Mobile	E-mail
Shri H.P.Patel	9426521484	9426521484	kvksamoda@yahoo.com

1.4. Year of sanction: Year-1993

1.5. Staff Position (as on 31th March-2014)

Sr. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (RS.)	Present Basic(Rs.)	Date of joining	Permanent/Temporary	Category(SC/ST/ OBC/Others)
1.	Programme Coordinator								
2.	Subject Matter Specialist	Shri H.P.Patel	S.M.S. I./C. P.C.	Extension Education	15600-39100	32850/-	8/5/1993	Permanent	General
3.	Subject Matter Specialist	Shri G.A.Patel	S.M.S.	Plant Protection	15600-39100	32850/-	6/5/1993	Permanent	General
4.	Subject Matter Specialist	Smt. H.B.Patel	S.M.S.	Home Science	15600-39100	27680/-	19/8/2002	Permanent	General
5.	Subject Matter Specialist	Shri S.S. Darji	S.M.S.	Horticulture	15600-39100	21630/-	2/4/2012	Permanent	OBC
6.	Subject Matter Specialist	Shri Shayam Das	S.M.S.	Agronomy	15600-39100	21630/-	5/4/2012	Permanent	ST
7.	Programme Assistant	Shri D.N.Patel	Programme Assistant	-	9300-34800	22440/-	22/2/1996	Permanent	General
8.	Programme Assistant	Smt. J.N.Patel	Programme Assistant	-	9300-34800	22030/-	27/7/1996	Permanent	General
9.	Computer Programmer	Shri D.R.Patel	Computer Programmer	-	9300-34800	20540/-	6/5/1993	Permanent	General
10	Accountant/ O. S.	Shri N.B.Patel	Accountant/ O. S.	-	9300-34800	23520/-	25/1/1996	Permanent	General
11	Steno/ Jr.Clerk	Shri J.K.Patel	Steno/ Jr.Clerk	-	5200-20200	10570/-	25/1/1996	Permanent	General
12	Driver	Shri R.A.Patel	Driver	-	5200-20200	8820/-	14/8/2010	Permanent	General
13	Supporting Staff	Shri R.H.Desai	Supporting Staff	-	5200-20200	10000/-	14/5/1993	Permanent	OBC
14	Supporting Staff	Shri R.D.Thakor	Supporting Staff	-	5200-20200	10000/-	25/1/1996	Permanent	OBC
15	Supporting Staff	Shri K.A.Patel	Supporting Staff	-	5200-20200	10000/-	25/1/1996	Permanent	General
16	Supporting Staff	Shri P.V.Parmar	Supporting Staff	-	5200-20200	10000/-	25/1/1996	Permanent	SC

1.6. Total land with KVK (in ha) : 20.00 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. No	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (sq.m)	Expenditure (Rs.)	Starting Date	Plinth area sq.mt	Status of construction
1.	Administrative Building	ICAR	1993	694	21,87,250=00	-	-	-
2.	Farmers Hostel	ICAR	1999-2000	308.82	12,37,848=11	-	-	-
3.	Staff Quarters (6)	ICAR	1996-97	731	16,89,512=74	-	-	-
4.	Demonstration Units (2) Nursery/ Net House	RKVY	2012-13	4,000	5,45,000=00	-	-	-
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	119222	OK
Motorcycle	2010-11	49,695=00	28521	OK

(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

Sl. No	Date	Name & Designation of Participants	Salient Recommendations Of SAC (Dt. 28/2/14)	Action taken of SAC Dt. 22/3/13
1.	**28/2/14**	Shri L.V.Patel Director, Krishi Vigyan Kendra, Patan Shri B.S.Suthar Horticulture Department , Patan Shri V.V.Desai Agril. Officer, GLDC, Patan Shri N.P.Chaudhary Agril. Officer, Sidhpur Dr. R.R.Patel Veterinary Officer, Sidhpur Shri V.K.Modh Dy.Marketing Manager G.N.F.C., Sidhpur Thakkar Daxa N. I.C.D.S., Sidhpur Thakor Kiran N. B.T.M., ATMA Project H.P.Patel I/C P.C., K.V.K., Patan G.A.Patel S.M.S. (Plant Protection) H.B.Patel S.M.S. (Home Science) S.S.Darji S.M.S. (Horticulture) Shayam Das S.M.S. (Agronomy) Thakor Prabhatsih Chandaji Progressive Farmer, Der	➢ To raise the plant of kagazi lime, Pomogranate & Papaya at K.V.K. Nursery ➢ To raise the seedlings of G.C.T.-4 variety of Tobacco. ➢ To create awareness towards farm mechanization by method demonstration of farm implements ➢ To organize agro based vocational training programme for rural youth ➢ Message regarding agril. Technology should be sent to more number of farmers ➢ To organize training programme on Bakery products for rural youth ➢ To conduct the training programme on dairy farming with the help of State Animal Husbandry Department & Univeristy ➢ To impart training to farm women for kitchen gardening and motivate them to start kitchen gardening ➢ To create awareness regarding excess use of chemical fertilizer & use of organic F.Y.M. to maintain soil fertility	➢ Training programme on soil reclamation were organized with the help of integrated watershed management programme, Patan ➢ Farmers were trained to use Potash base fertilizer in B.T. Cotton cultivation by training programme ➢ K.V.K. had conducted training programme to increase the area under Drip & Sprinkler irrigation system ➢ Farm women were trained in value addition & preservation of Carrot, Lime, Chilli, Aonla & Tomato products. ➢ Subject Matter Specialist had actively participated in Krishi Mahotsav organized by Gujarat Government. ➢ K.V.K. have provided 3175 Kagzi Lime plants to the farmers ➢ K.V.K. have also provided the seedlings of

SCIENTIFIC ADVISORY COMMITTEE MEETING DT.: 28/02/2014

2 DETAILS OF DISTRICT (2013-14)

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 predominant in district - Mono cropping - Mix cropping - Inter cropping - Relay cropping

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

S. N.	Agro-climatic Zone	Characteristics
1.	North Gujarat Agro Zone No.4 (Patan, Sidhpur and Chansama taluka)	- Average rainfall is 500-700mm. - Soil type is sandy, Loamy sand, Saline and medium black - Major crops- BT. Cotton, Castor, Pulses, Wheat, Cumin, Fennel, Mustard, Chilli, Carrot and Summer Bajra
2.	North West Gujarat Agro climatic Zone No.8 (Harij, Sami, Radhanpur and Santalpur taluka)	- Average rainfall is 500mm. - Soil type is sandy, salt affected soil, Loamy sand - Major crops- BT. Cotton, Rainfed cotton, Castor, Bajara, Sorghum, Gram, Dilseed, Cumin

2.3 Soil type/s

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

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

S. N.	Crop	Area (ha.)	Production (qtl.)	Productivity (qtl. /ha)
1.	Castor	93139	1644835	17.66
2.	Bajra	18050	131043	7.26
3.	Udad	12655	86434	6.83
4.	Moong	7395	26548	3.59
5.	Guar	14415	83751	5.81
6.	Mustard	29840	486989	16.32
7.	Wheat	43335	1361152	31.41
8.	Gram	10110	64805	6.41
9.	Cotton (Deshi –rainfed) (BT Cotton- Irrigated)	53780	443685	8.25
10.	Cumin	44940	255709	5.69
11.	Fennel	5355	81985	15.31
12.	Summer Bajara	12045	337742	28.04
13.	Summer Moong	8640	49766	5.76

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April-13	-	35.6	28.6	-
May-13	-	42.1	31.0	-
June-13	120	41.1	30.4	-
July-13	510	34.5	26.3	-
August-13	225	32.2	24.6	-
September-13	240	31.1	22.6	-
Oct.-13	86	34.1	22.7	-
Nov.-13	-	27.9	17.3	-
Dec.-13	-	25.6	14.5	-
Jan.-14	-	25.9	11.7	-
Feb.-14	-	23.9	15.2	-
March-14	-	28.8	22.5	-

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

Category	Population	Production	Productivity
Cattel			
Crossbred	8354	19010 tones	10.065 kg./day
Indigenous	122662	61730 tones	4.572 kg/day
Buffalo	363514	311900 tones	5.899 kg/day
Sheep	53750	73.41 tones	1.251 kg/year
Crossbred			
Indigenous			
Goats	102937	6000 tones	0.441 kg/day
Pigs			
Crossbred			
Indigenous			
Rabbits			
Poultry			
Hens	22079	56.24 lakh	-
Desi	11229	5.29 lakh	128 egg/year
Improved	10850	50.95 lakh	261 egg/year
Ducks			
Turkey and others			
Fish			
Marine			
Inland			
Prawn			
Scampi			

2.7 Details of Operational area / Villages (2013-14)

Sr. No.	Taluka	Name of the block	Name of the Village	Major crops & enterprises	Major problem identified	Identified thrust area
1.	Sidhpur Chansma Patan	Patan	Methan, Ganeshpura, Madhupura, Kalyana, Nedra, Kayan, Lukhasan, Ankvi, Vamaiya, Kholwada, Meloj, Nedroda, Gaglasan, Jhakha, Kimbuva, Golapur, Kungher, Balisana, Hajipur, Der, Diyodarda, Chadasana , Charoop, Lanva, Pindharpura, Islampura, Chaveli, Mithadharva, Danodarda, Khimiyana	Castor Cotton Mustard Wheat Bajra Cumin Fennel Carrot Livestock	-Average productivity is low in major crop. -Low ground water table. -Soil productivity status is low -Pest & diseases intensity high para wilt in cotton, termite in wheat, Blight in Cumin, Mealybug in Cotton, Semi-looper & prodenia in castor, Leaf curl in chilli etc. -Less adoption of horticultural crops -Loss of food grains due to poor knowledge and storage facility -Average milk production per animal is low	-Average productivity of major crops is low -Inadequate irrigation water -Reclamation of problematic soil -Area under fruit & vegetable crop is very low -Scope & Importance of secondary agriculture -Average milk production per animal is low -Farm mechanization -Women empowerment through income generation activities
	Sami Harij Radhanpur Santalpur	Radhanpur	Lotiya, Shinad, Satun, Barara, Varahi, Ghilvana, Jesada, Matrota, Vadipura	Cumin Gram		

2.8. Priority thrust areas

Crop/ Enterprise	Thrust area
Castor	Integrated pest management Integrated Disease management
Cotton	Integrated crop management Integrated Nutrient management
Mustard	Integrated crop management
Wheat	Integrated pest management Weed management
Cumin/ Fennel	Integrated Disease management Production & management technology
Carrot	Post Harvest technology
Live-stock	Fodder management Up gradation of local breed

3 TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by K.V.K. during 2013-14.

OFT				FLD			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achieve-ment	Targets	Achieve-ment	Targets	Achieve-ment	Targets	Achieve-ment
02	02	20	20	08	06	230	217

Training					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of Partici[ants	
Clientele	Targets	Achieve-ment	Targets	Achieve-ment	Targets	Achieve-ment	Targets	Achieve-ment
Farmers/F.W.	102	85	2040	1965	40	34	1500	1468
Rural youth	06	09	90	204	-	-	-	-
Extn. Functionaries	05	07	125	179	-	-	-	-

Seed Production (Qtl.)			Planting material (No.)			Organic manure (kg.)		
5			6			7		
Crop	Targets	Achieve-ment	Crop	Targets	Achieve-ment	Particular	Targets	Achieve-ment
Wheat	15	18	Lime (kagzi Lime)	20000	3139	Vermi compost	-	500
			Tobacco	150000	43500			
			Fennel	150000	-			
			Chilli	200000	30000			
			Ornamental	-	390			

3.B. Abstract of interventions undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified problem	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	Productivity of major crops is low	Cotton	-Para wilt incidence -Sucking pest infestation -Weed infestation -Micronutrient deficiency	Lower income from cotton mono crop cultivation	-	-Integrated pest & disease management -Integrated Nutrient management -Weed management	-Latest know how about agricultural technologies	-Training -Demonstration -Field day	-Supplied Seed
		Castor	-Wilt & root rot disease incidence -Semi looper & proderia infestation	-	-Introduction of wilt & root rot resistance variety	-Production technology -IPM & IDM -INM	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-Supplied Seed
		Mustard	-Deficiency of sulphur -Use of local variety -Aphid & powdery mildew	-	-	-Integrated nutrient management -Integrated pest & disease management	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-
		Pulses -Green-gram -Black-gram	-Use of local variety -No use of phosphatic fertilizer	-	Introduction of Improved & high yielding variety	-Cultivation practices -Importance of phosphatic fertilizer in pulse crop	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-Supplied Seed

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 -Termite infestation -Micro nutrient deficiency	-	-Introduction of high yielding variety -INM	-Cultivation practices -Integrated pest management -Integrated nutrient management	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-Seed -ZnSO4
		Cumin	-Use of local variety -Wilt & blight incidence	-Incidence of wilt disease	Introduction of high yielding & disease resistant variety	-Scientific cultivation of cumin -Integrated pest & disease management	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-Seed -Bio-fungicide
		Fennel	-Use of local variety -Sugary disease	-	Introduction of high yielding variety	-Scientific cultivation of fennel -Integrated pest & disease management -INM	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-Seed
		Potato	-Disease incidence	-	-	-Scientific cultivation of Potato	-Latest know how about agricultural technologies	-Training	-
2.	Inadequate irrigation water	Agril. Engineering	-Ground water table low	-	-	-Importance of water saving devices -MIS -Irrigation scheduling of field crops -Rainfed horticulture	-Latest know how about agricultural technologies	-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.	Reclamation of problematic soil	-Alkaline & Saline soil	-Exchangeable Sodium content high -Soluble salts content high	-	-	-Importance of soil & water sample analysis in crop production	-Latest know how about agricultural technologies	-Training	-
4.	Area under fruit & vegetable crops is low	-Lime -Pomegranate -Papaya	-Less fruit production in summer -Unawareness about horticultural crops -Initial investment high -Marketing	-	-	-Scientific cultivation of fruit crops -Scientific cultivation of vegetable crops	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-
5.	Requirement of secondary agriculture	-Grains -Fruits & vegetable	-Storage loss -Less market price of produce	-	-	-Value addition in fruits & vegetable -Post harvest technology -Scientific method for the storage of food grain	-Latest know how about agricultural technologies	-Training	-
6.	Average .milk production per animal is low	Livestock	-Indigenous breed -Unawareness about fodder & concentrate	-	-	-Selection of improved breeds -Fodder management of milch animals	-Latest know how about agricultural technologies	-Training	-
7.	Low income of landless agriculture laborers	Rural youth	-Industries are less	-	-	-Women empowerment through income generation activities -Income generation activities through agro base gruh udhyog -Nursery raising	-	-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	-	-	-	01	-	-	-	-	-	01
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Integrated farming systems	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Farm Machineries	-	-	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest management	-	-	-	-	-	-	-	-	-	-
Integrated Disease management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL :	**-**	**-**	**-**	**01**	**-**	**-**	**-**	**-**	**-**	**01**

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

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

A.3 Abstract of the number of technologies assessed in respect of live stock /enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Total
Evaluation of Breeds	-	-	-	-	-	-	-	-
Nutrition management	-	-	-	-	-	-	-	-
Disease of management	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-
Production and management	-	-	-	-	-	-	-	-
Feed and fodder	-	-	-	-	-	-	-	-
Small scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL :	-	-	-	-	-	-	-	-

A.4 Abstract of the number of technologies refined in respect of live stock /enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Total
Evaluation of Breeds	-	-	-	-	-	-	-	-
Nutrition management	-	-	-	-	-	-	-	-
Disease of management	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-
Production and management	-	-	-	-	-	-	-	-
Feed and fodder	-	-	-	-	-	-	-	-
Small scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL :	-	-	-	-	-	-	-	-

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

A. Technology Assessment

(I) Trial – 1

1. Title : Low income of Cotton

2. Problem diagnose/ Defined : Lower income of cotton due to mono cropping

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

   T1- Farmers practices
   - No intercropping
   - Sowing distance 4' x 2'

   T2- Assessed technology
   - Inter cropping with Castor
   - Sowing distance 5' x 2'
   -

4. Source of Technology : State Agril. University, SDAU

5. Production system thematic area : Inter cropping / mix cropping system/ Relay cropping

6. Thematic area : Integrated crop management

7. Performance of the Technology With performance indicators : Result showed that treatment No.2 (Assessed technology) recorded Average yield of cotton 2260 kg./ha. + Castor 1280 kg./ha. With income Rs. 1,36,229/ha. BCR (3.84) as compare to Tr.No.1 (Farmers practice) average yield of Cotton 2570 kg./ha with income Rs.1,00,725/ha. BCR (3.15)

8. Final recommendation for micro level situation : Continued for 3rd Year

9. Constraints identified and Feedback for research : Intercropping in cotton with different crops based on location specific

10. Process of farmer's participation and their reaction : For the planning and execution of trail farmers were actively participated. In addition to this they were evaluated and recorded the yield data throughout the crop season. Farmers are highly appreciated with performance of the trial.

11. Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No.of trials	Technology Assessment	Parameter of assessment
1	2	3	4	5	6	7
Cotton + Castor	Irrigated	Lower income of cotton due to mono cropping	Low income of Cotton	10	No intercrop (Farmer practices)	Yield kg/ha.
					Intercrop with castor	Yield kg./ha.

Data on the parameter	Results of assessment	Feedback from the farmer	Technology assessed	Production per unit	Net Return (Profit) in Rs. Unit	BC Ratio
8	9	10	11	12	13	14
Rs.1,00,725/ha.	Increase in income by 35.2% in assessed technology	Farmers are appreciated by intercropping of castor in cotton	-No inter crop -Sowing distance 4' x 2'	Cotton 2570kg./ha.	68775	3.15
Rs.1,36,229/ha.			-Inter cropping cotton + castor -Sowing distance 5' x 2'	Cotton : 2260kg/ha. Castor : 1280 kg./ha.	100779	3.84

B. Technology Refinement

(I) Trial – 2

1. Title : Disease management for control of wilt in Cumin

2. Problem diagnose/ Defined : Incidence of wilt disease

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

T1- Farmers practices
- No seed treatment

T2- SAU recommendation
-Seed treatment by Carbendazim 50wp @ 3g./1kg. seed

T3- Refined technology/assessed
-Seed treatment by Trichoderma @ 20gm./1kg seed and soil application of Trichoderma @ 3kg./ha. Along with 500kg. vermi compost

4. Source of Technology	:	State Agril. University, SDAU, S.K.Nagar
5. Production system thematic area	:	---
6. Thematic area	:	Integrated disease management
7. Performance of the Technology With performance indicators	:	The refined practice of disease management had less incidence of wilt disease (9.7%) and higher yield 1040kg/ha. As compare to other treatments of disease management
8. Final recommendation for micro level situation	:	Continued for 3rd year
9. Constraints identified and Feedback for research	:	More response in organic farming
10. Process of farmers participation and their reaction	:	For the planning and execution of trail farmers are actively participated. Farmers are recorded the observation on parameters throughout the season i.e. (incidence of wilt and yield) Farmers are appreciated by the refined technology

11. Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No.of trials	Technology Refined	Parameter
1	2	3	4	5	6	7
Cumin	Irrigated	Incidence of wilt disease	Disease management for control of wilt in cumin	10	Seed treatment by Trichoderma @ 20 gm./1 kg. seed and soil application of Trichoderma @ 3 kg./ha. Along with 500 kg. vermi compost	Incidence of wilt (%)

Data on the parameter	Results of Refinement	Feedback from the farmer	Justification for refinement	Technology refined	Production per unit (kg./ha.)	Net Return (Profit) in Rs./ Unit	BC Ratio
8	9	10	11	12		13	14
T1= 14.5% T2=11.3% T3=9.7%	-Incidence of wilt disease 9.7% -Increase in income by 31.6% and 6.12% higher as compare to T1 & T2 treatments respectively	Farmers are appreciated by refined technology	In cumin growing area less scope of crop rotation, so wilt incidence increase day by day. So refinement with use of Trichoderma is necessary	T1- Farmers practices - No seed treatment T2- SAU recommendation -Seed treatment by Carbendazim 50wp @ 3g./1kg. Seed T3- Refined technology/assessed - Seed treatment by Trichoderma @20gm./1kg seed and soil application of Trichoderma @3kg./ha. Along with 500kg. vermi compost	T1-790 T2-980 T3-1040	60650/- 81750/- 87920/-	3.00 3.64 3.78

3.2. Achievements of Frontline Demonstrations

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

* List of technologies demonstrated during previous year and popularized during 2013-14 and recommended for large scale adoption in the district

Sr. No.	Crop/ Enterprise	Thematic area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of village	No. of farmers	Area in ha.
A	Green-gram	Varietal evaluation	G.M.-4	Demonstration Field day	28	1100	350
B	Castor	Varietal evaluation	GCH-7	Demonstration Field day	45	1600	800
C	Wheat	Varietal evaluation	GW-366 GW-496	Demonstration Field day	21	850	425
D	Cumin	Varietal evaluation	GC-4	Demonstration Field day	22	550	330
E *	Summer Bajra	Varietal evaluation	GHB-558	Demonstration Field day	10	350	250
F	Mustard	Varietal evaluation	GM-3	Demonstration Field day	30	1100	420
G	Fennel	Varietal evaluation	GF-11 GF-12	Demonstration Field day	15	320	130
H	Cotton	INM	Use of micronutrient	Demonstration Field day	20	350	250

b. Details of FLDs implemented during 2012-13 (Rabi), 2013-14 (Kharif)

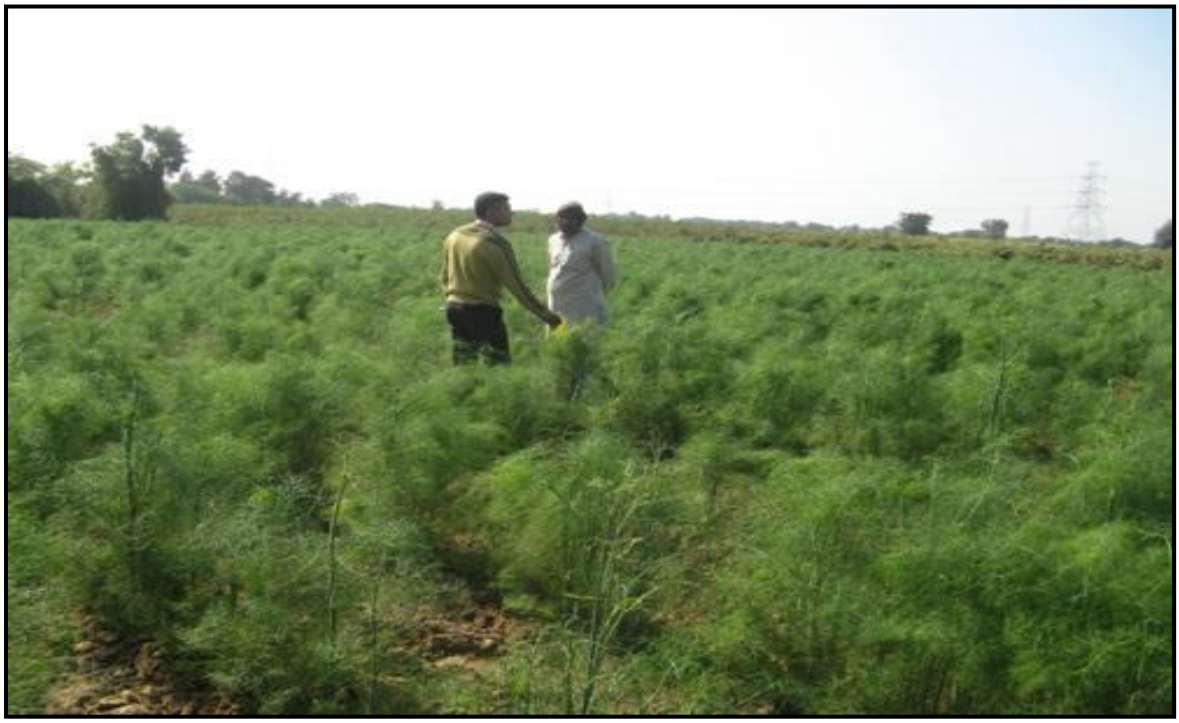
Sl. No.	Crop	Thematic area	Technology Demon-strated	Season and year	Area (ha)		No.of farmers/ demonstration			Reasons for shortfall in achievement
1	2	3	4	5	6	7	8	9	10	11
					Proposed	Actual	SC/ST	Others	Total	
1.	Fennel	Varietal evaluation	G.F.12	Rabi-2012-13	15	15	03	27	30	-
2.	Wheat	Varietal evaluation	G.W.366	Rabi-2012-13	15	15	07	40	47	-
3.	Cumin	Varietal evaluation	G.C.4	Rabi-2012-13	15	15	06	24	30	-
4.	Cumin	Bio-agent	Trichoderma	Rabi-2012-13	05	2.5	00	10	10	-
5.	Cotton	INM	ZnSO4	Kharif-2013-14	15	-	-	-	-	Late sanction of the demonstration
6.	Green-gram	Varietal evaluation	GM-4	Kharif-2013-14	15	15	00	44	44	
7.	Castor	Varietal evaluation	GCH-7	Kharif-2013-14	15	15	04	26	30	

Details of farming situation

Crop	Season	Farming situation (RF/ Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No.of rainy days
				N	P	K					
1	2	3	4	5	6	7	8	9	10	11	12
Fennel	Rabi-2012-13	Irrigated	Loamy Sand	L	L	M	Green-gram/ Black-gram	9/11/12 to 17/11/12	18/4/13 to 27/4/13	-	-
Wheat	Rabi-2012-13	Irrigated	Sandy loam to Medium black	L	L	M	Green-gram/ Black-gram	28/11/12 to 5/12/12	07/4/13 to 15/4/13	-	-
Cumin	Rabi-2012-13	Irrigated	Sandy loam to medium black	L	L	M	Fallow	14/11/12 to 23/11/12	10/3/13 to 19/3/13	-	-
Cumin (Bio-agent)	Rabi-2012-13	Irrigated	Sandy loam to medium black	L	L	M	Fallow	14/11/12 to 21/11/12	13/3/13 to 19/3/13	-	-
Cotton	Kharif-2013-14	-	-	-	-	-	-	-	-	-	-
Green-gram	Kharif-2013-14	Irrigated	Loamy sand to medium black	L	L	M	Fallow	26/6/13 to 6/7/13	-	1181	46
Castor	Kharif-2013-14	Irrigated	Sandy to Sandy Loam	L	L	M	Fallow	24/7/13 to 14/8/13	-	1181	46

FRONT LINE DEMONSTRATION

F.L.D. -CASTOR
VARIETY: G.C.H.-7



F.L.D. -FENNEL
VARIETY: G.F.-12

F.L.D. -CUMIN
VARIETY: G.C.-4

F.L.D. - WHEAT
VARIETY: G.W.-366

Performance of FLD

S.No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)
						H	L	A		
1	2	3	4	5	6	7	8	9	10	11
1.	Fennel	Varietals evaluation	G.F.12	30	15	22.1	15.4	17.8	14.9	19.5
2.	Wheat	Varietals evaluation	G.W.366	47	15	48.0	38.5	40.5	33.6	20.5
3.	Cumin	Varietals evaluation	G.C.4	30	15	8.3	6.4	7.6	6.5	16.9
4.	Cumin	Bio-agent Trichoderma	-	10	2.5	11.7	7.9	9.8	8.1	20.9
5.	Cotton	-	-	-	-	-	-	-	-	-
6.	Green-gram	Varietal evaluation	GM-4	44	15	Failure due to excess and frequent rain				
7.	Castor	Varietal evaluation	GCH-7	30	15	Result awaited				

Data on parameter in relation to technology demonstrated		Average cost of cultivation (Rs./ha.)		Average Gross return (Rs./ha.)		Average Net return (Profit) (Rs./ha.)		Benefit cost ratio (Gross return/ Gross cost)	
Demonstration	**Local**	**Demon-stratio**	**Local check**	**Demon-stratio**	**Local check**	**Demon-stratio**	**Local check**	**Demon-stratio**	**Local check**
12	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
Plant height(cm)-144.7 No. of branches-5.8 No. of umbels-12.2 Test weight (g)-6.2	147 5.4 11.7 5.6	29700	27300	71200	59600	41500	32300	2.4	2.18
Plant height(cm)-92 No. of effective tillers-8 Test weight(g)-49.0	86 7 42	27700	25850	75937	63000	48237	37150	2.74	2.43
Plant height(cm)-27.3 No. of branches -7.4 No.of umbels/plant-35 Test weight(g)-4.9	26.8 6.9 32 4.3	28930	28300	87400	74750	58470	46450	3.02	2.64
Plant height(cm)-27.4 No.of branches -7.4 No. of umbels-35 Test weight(g)-4.9	28.6 15.9 4.95	32000	30200	112700	93150	80700	62950	3.52	3.08
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

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.12	Irrigated	17.8	14.9	19.5
Wheat	Rabi	G.W.366	Irrigated	40.5	33.6	20.5
Cumin	Rabi	G.C.4	Irrigated	7.6	6.5	16.9
Cumin	Rabi	Trichoderma	Irrigated	9.8	8.1	20.9

Technical Feedback on the demonstrated technologies

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

Farmers' reactions on specific technologies

S. No	Farmer's reactions
1.	Fennel GF-12 is high yielding variety less lodging effect
2.	Wheat GW-366 is high yielding variety & quality is not superior to GW-496
3.	Cumin GC-4 is high yielding variety & not completely resistant to blight
4.	Cumin(Bio-agent) Trichoderma is moderately effective against wilt disease.

Extension and Training activities under FLD

Sr.No.	Activity	No.of activities organized	Date	No.of participants	Remarks
1.	**Fennel**				
	Training	02	20/10/12 7/11/12	17 19	
	Field day	01	12/2/13	44	
2.	**Wheat**				
	Training	01	27/11/12	46	
	Field day	01	8/3/13	18	
3.	**Cumin**				
	Training	02	10/11/12 11/11/12	20 28	
	Field day	01	7/3/13	27	
4.	**Cumin (Bio-agent)**				
	Training	01	8/1/13	19	
	Field day	-	-	-	

C. Details of FLDs on Enterprises

(i) Farm Implements

Name of the implement	Crop	No.of farmers	Area (ha.)	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated		% change in the parameter
					Demon.	Local check	
1.	2	3	4	5	**6**	**7**	
-	-	-	-	-	**-**	**-**	**-**
-	-	-	-	-	**-**	**-**	**-**

(ii) Live stock, Fisheries etc.

Live stock

Category	Thematic area	Name of the technology demonstrated	No.of KVKs	No. of Farmers	No.of Units	Major parameters		% change in major parameter	Other parameter	
						Demon-stration	Check		Demon-stration	Check
1	2	3	4	5	6	7	8	9	10	11
Dairy	-	-	-	-	-	-	-	-	-	-
Cow	-	-	-	-	-	-	-	-	-	-
Buffalo	-	-	-	-	-	-	-	-	-	-
Poultry	-	-	-	-	-	-	-	-	-	-
Rabbitry	-	-	-	-	-	-	-	-	-	-
Pigerry	-	-	-	-	-	-	-	-	-	-
Sheep and goat	-	-	-	-	-	-	-	-	-	-
Duckery	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

Economic of demonstration (Rs.)				Economic of check (Rs.)			
Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
12	13	14	15	16	17	18	19
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Fisheries

Category	Thematic area	Name of the technology demonstrated	No.of KVKs	No. of Farmers	No.of Units	Major parameters		% change in major parameter	Other parameter	
						Demon-stration	Check		Demon-stration	Check
1	2	3	4	5	6	7	8	9	10	11
Common carps	-	-	-	-	-	-	-	-	-	-
Mussels	-	-	-	-	-	-	-	-	-	-
Ornamental fishes	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

Economic of demonstration (Rs.)				Economic of check (Rs.)			
Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
12	13	14	15	16	17	18	19
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Other enterprises

Category	Name of the technology demonstrated	No.of KVKs	No. of Farmers	No.of Units	Major parameters		% change in major parameter	Other parameter	
					Demon-stration	Check		Demon-stration	Check
1	2	3	4	5	6	7	8	9	10
Oyster mushroom	-	-	-	-	-	-	-	-	-
Button mushroom	-	-	-	-	-	-	-	-	-
Vermi compost	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total :	-	-	-	-	-	-	-	-	-

Economic of demonstration (Rs.)				Economic of check (Rs.)			
Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
11	12	13	14	15	16	17	18
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Women empowerment

Category	Name of the technology	No.of KVKs	No. of demonstration	No.of observations	Demonstration	Check
1	2	3	4	5	6	7
Women	-	-	-	-	-	-
Pregnant women	-	-	-	-	-	-
Adolescent	-	-	-	-	-	-
Other women	-	-	-	-	-	-
Children	-	-	-	-	-	-
Neonats	-	-	-	-	-	-
Infants	-	-	-	-	-	-
Children	-	-	-	-	-	-

Farm implements and machinery

Name of the implement	Crops	Name of the technology demonstrated	No.of Farmer	No.of Area	Major paramet Filed observation (output/man hour)ers		% change in major parameter
					Demon-stration	Check	
1	2	3	4	5	6	7	8
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Technical Feedback on the demonstrated technologies

S. No	Farmer's reactions
-	-
-	-
-	-

Farmers reactions on specific technologies

S. No	Farmer's reactions
-	-
-	-
-	-

Extension and Training activities under FLD

Sr. No.	Activity	No.of activities organized	Date	Number of participants	Remarks
1.	Field day	-	-	-	-
2.	Farmers Training	-	-	-	-
3.	Media coverage	-	-	-	-
4.	Training for extension functionaries	-	-	-	-

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

A) ON Campus

Thematic area	No. of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(A) Farmers & Farm women										
I. Crop Production										
Weed management										
Resource conservation technologies										
Cropping systems										
Crop Diversification										
Integrated farming										
Water management	01	16	-	16	-	-	-	16	-	16
Seed production										
Nursery management										
Integrated crop management	04	94	07	101	06	-	06	100	07	107
Fodder production										
Production of organic inputs										
II. Horticulture										
a) Vegetable crops										
Production of low volume and high value crops										
Off season vegetable	01	14	-	14	-	-	-	14	-	14
Nursery raising										
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization	03	69	-	69	02	-	02	71	-	71
Protective cultivation (Green House, Shade Net etc.)										
b) Fruits										
Training and pruning										
Layout and management of orchards										
Cultivation fruits										
Management of young plants/ orchards										
Rejuvenation of old orchards										
Export potential fruit										
Micro irrigation systems of orchards										
Plant propagation techniques										

Thematic area	No. of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
c)Ornamental Plant										
Nursery management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of ornamental plants										
d) Plantation crops										
Production and management technology										
Processing and value addition										
e) Tuber crops										
Production and management technology										
Processing and value addition										
c) Spices										
Production and management technology	01	49	-	49	-	-	-	49	-	49
Processing and value addition										
d) Medicinal and Aromatic plants										
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	01	16	-	16	02	-	02	18	-	18
Production & use of organic inputs										
Management of problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Soil & water testing										

Thematic area	No. of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
IV. Livestock production and management										
Dairy management										
Poultry management										
Piggery management										
Rabbit management										
Disease management										
Feed management										
Production of quality animal products										
V. Home Science 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 through SHGs										
Storage loss minimization techniques										
Value addition	06	-	153	153	-	05	05	-	158	158
Income generation activities for empowerment of rural women	01	-	18	18	-	02	02	-	20	20
Location specific drudgery reduction technologies	01	-	20	20	-	-	-	-	20	20
Rural Craft	01	-	12	12	-	09	09	-	21	21
Women & child care										
VI. Agril. Engineering										
Installation and maintenance of micro irrigation systems										
Use of plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post harvest technology										

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
VII. Plant Protection										
Integrated pest management	04	71	-	71	03	-	03	74	-	74
Integrated Disease management	05	103	-	103	07	-	07	110	-	110
Bio-control of pests and diseases	01	23	-	23	04	-	04	27	-	27
Production of bio control agents and bio pesticides										
VIII. Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
IX. Production of Inputs at site										
Seed production										
Planting material production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee colonies and wax sheets										

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
X. Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
XI. Agro-forestry										
Production technologies										
Nursery management										
Integrated farming systems										
Total :-	**30**	**455**	**210**	**665**	**24**	**16**	**40**	**479**	**226**	**705**
(B) RURAL YOUTH										
Mushroom production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated farming										
Planting material production										
Vermi culture	01	04	02	06	02	-	02	06	02	08
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Repair and maintenance of farm machinery and implements										
Nursery management of horticulture crops	01	04	02	06	02	-	02	06	02	08
Training and pruning of orchards	01	11	-	11	04	-	04	15	-	15
Value addition	03	-	49	49	-	10	10	-	59	59
Production of quality animal products										
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	01	-	29	29	-	05	05	-	34	34
TOTAL :	**07**	**19**	**82**	**101**	**08**	**15**	**23**	**27**	**97**	**124**

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(C) Extension personnel										
Productivity enhancement in field crops										
Integrated pest management										
Integrated nutrient management	01	19	-	19	08	-	08	27	-	27
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	01	02	07	09	01	01	02	03	08	11
Care and maintenance of farm machinery and implements										
WTO and IPR issues										
Management in farm animals										
Livestock feed and fodder production	01	18	-	18	-	-	-	18	-	18
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 conservation practiced										
Training need assessment and PRA techniques										
TOTAL :	**03**	**39**	**07**	**46**	**09**	**01**	**10**	**48**	**08**	**56**

(B) OFF Campus

Thematic area	No. of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(A) Farmers & Farm women										
I. Crop Production										
Weed management	03	55	-	55	01	-	01	56	-	56
Resource conservation technologies	01	19	-	19	-	-	-	19	-	19
Cropping systems										
Crop Diversification										
Integrated farming										
Water management	01	18	-	18	-	-	-	18	-	18
Seed production										
Nursery management										
Integrated crop management	05	97	-	97	04	-	04	101	-	101
Fodder production	01	23	-	23	-	-	-	23	-	23
Production of organic inputs										
II. Horticulture										
a) Vegetable crops										
Production of low volume and high value crops										
Off season vegetable										
Nursery raising	02	47	-	47	02	-	02	49	-	49
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization	08	189	-	189	02	-	02	191	-	191
Protective cultivation (Green House, Shade Net etc.)										
b) Fruits										
Training and pruning										
Layout and management of orchards										
Cultivation of fruits	02	36	-	36	01	-	01	37	-	37
Management of young plants/ orchards										
Rejuvenation of old orchards										
Export potential fruit										
Micro irrigation systems of orchards	01	19	-	19	-	-	-	19	-	19
Plant propagation techniques										

Thematic area	No. of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
c)Ornamental Plant										
Nursery management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of ornamental plants										
d) Plantation crops										
Production and management technology										
Processing and value addition										
e) Tuber crops										
Production and management technology										
Processing and value addition										
c) Spices										
Production and management technology										
Processing and value addition	01	18	11	29	01	-	01	19	11	30
d) Medicinal and Aromatic plants										
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										
Production & use of organic inputs										
Management of problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Soil & water testing										

Thematic area	No. of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
IV. Livestock production and management										
Dairy management	01	-	15	15	-	02	02	-	17	17
Poultry management										
Piggery management										
Rabbit management										
Disease management										
Feed management	02	-	47	47	-	-	-	-	47	47
Production of quality animal products										
V. Home Science Women empowerment										
House hold food security by kitchen gardening and nutrition gardening	02	-	49	49	-	11	11	-	60	60
Design and development of low/ mini. Cost .diet	02	-	57	57	-	03	03	-	60	60
Designing and development for high nutrient efficiency diet.										
Minimization of nutrient loss in processing	01	-	20	20	-	-	-	-	20	20
Gender mainstreaming through SHGs	01	-	29	29	-	-	-	-	29	29
Storage loss minimization techniques	03	-	47	47	-	29	29	-	76	76
Value addition										
Income generation activities for empowerment of rural women	01	-	43	43	-	-	-	-	43	43
Location specific drudgery reduction technologies	01	-	19	19	-	01	01	-	20	20
Rural Craft										
Women & child care	03	-	56	56	-	27	27	-	83	83
VI. Agril. Engineering										
Installation and maintenance of micro irrigation systems										
Use of plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post harvest technology										

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
VII. Plant Protection										
Integrated pest management	05	93	-	93	07	-	07	100	-	100
Integrated Disease management	04	83	-	83	-	-	-	83	-	83
Bio-control of pests and diseases	04	76	-	76	03	-	03	79	-	79
Production of bio control agents and bio pesticides										
VIII. Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
IX. Production of Inputs at site										
Seed production										
Planting material production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee colonies and wax sheets										

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
X. Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
XI. Agro-forestry										
Production technologies										
Nursery management										
Integrated farming systems										
Total :-	**55**	**773**	**393**	**1166**	**21**	**73**	**94**	**794**	**466**	**1260**
(B) RURAL YOUTH										
Mushroom production										
Bee-keeping										
Integrated farming										
Seed production	01	53	-	53	04	-	04	57	-	57
Production of organic inputs										
Integrated farming										
Planting material production										
Vermi culture										
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
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										
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	01	-	21	21	-	02	02	-	23	23
TOTAL :	**02**	**53**	**21**	**74**	**04**	**02**	**06**	**57**	**23**	**80**

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(C) Extension personnel										
Productivity enhancement in field crops										
Integrated pest management	01	44	-	44	-	-	-	44	-	44
Integrated nutrient management	01	25	-	25	06	-	06	31	-	31
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										
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	02	-	37	37	-	11	11	-	48	48
Low cost and nutrient efficient diet designing										
Production and use of organic inputs										
Gender mainstreaming through SHGs										
Soil and water conservation practiced										
Training need assessment and PRA techniques										
TOTAL :	**04**	**69**	**37**	**106**	**06**	**17**	**23**	**75**	**48**	**123**

(C) Consolidated (ON and OFF Campus)

Thematic area	No. of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(A) Farmers & Farm women										
I. Crop Production										
Weed management	03	55	-	55	01	-	01	56	-	56
Resource conservation technologies	01	19	-	19	-	-	-	19	-	19
Cropping systems										
Crop Diversification										
Integrated farming										
Water management	02	34	-	34	-	-	-	34	-	34
Seed production										
Nursery management										
Integrated crop management	09	191	07	198	10	-	10	201	07	208
Fodder production	01	23	-	23	-	-	-	23	-	23
Production of organic inputs										
II. Horticulture										
a) Vegetable crops										
Production of low volume and high value crops										
Off season vegetable	01	14	-	14	-	-	-	14	-	14
Nursery raising	02	47	-	47	02	-	02	49	-	49
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization	11	258	-	258	04	-	04	262	-	262
Protective cultivation (Green House, Shade Net etc.)										
b) Fruits										
Training and pruning										
Layout and management of orchards										
Cultivation of fruits	02	36	-	36	01	-	01	37	-	37
Management of young plants/ orchards										
Rejuvenation of old orchards										
Export potential fruit										
Micro irrigation systems of orchards	01	19	-	19	-	-	-	19	-	19
Plant propagation techniques										

Thematic area	No. of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
c)Ornamental Plant										
Nursery management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of ornamental plants										
d) Plantation crops										
Production and management technology										
Processing and value addition										
e) Tuber crops										
Production and management technology										
Processing and value addition										
c) Spices										
Production and management technology	01	49	-	49	-	-	-	49	-	49
Processing and value addition	01	18	11	29	01	-	01	19	11	30
d) Medicinal and Aromatic plants										
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	01	16	-	16	02	-	02	18	-	18
Production & use of organic inputs										
Management of problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Soil & water testing										

Thematic area	No. of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
IV. Livestock production and management										
Dairy management	01	-	15	15	-	02	02	-	17	17
Poultry management										
Piggery management										
Rabbit management										
Disease management										
Feed management	02	-	47	47	-	-	-	-	47	47
Production of quality animal products										
V. Home Science Women empowerment										
House hold food security by kitchen gardening and nutrition gardening	02	-	49	49	-	11	11	-	60	60
Design and development of low/ mini. Cost .diet	02	-	57	57	-	03	03	-	60	60
Designing and development for high nutrient efficiency diet.										
Minimization of nutrient loss in processing	01	-	20	20	-	-	-	-	20	20
Gender mainstreaming through SHGs	01	-	29	29	-	-	-	-	29	29
Storage loss minimization techniques	03	-	47	47	-	29	29	-	76	76
Value addition	06	-	153	153	-	05	05	-	158	158
Income generation activities for empowerment of rural women	02	-	61	61	-	02	02	-	63	63
Location specific drudgery reduction technologies	02	-	39	39	-	01	01	-	40	40
Rural Craft	01	-	12	12	-	09	09	-	21	21
Women & child care	03	-	56	56	-	27	27	-	83	83
VI. Agril. Engineering										
Installation and maintenance of micro irrigation systems										
Use of plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post harvest technology										

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
VII. Plant Protection										
Integrated pest management	09	164	-	164	10	-	10	174	-	174
Integrated Disease management	09	186	-	186	07	-	07	193	-	193
Bio-control of pests and diseases	05	99	-	99	07	-	07	106	-	106
Production of bio control agents and bio pesticides										
VIII. Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
IX. Production of Inputs at site										
Seed production										
Planting material production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee colonies and wax sheets										

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
X. Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
XI. Agro-forestry										
Production technologies										
Nursery management										
Integrated farming systems										
Total :-	**85**	**1228**	**603**	**1831**	**45**	**89**	**134**	**1273**	**692**	**1965**
(B) RURAL YOUTH										
Mushroom production										
Bee-keeping										
Integrated farming										
Seed production	01	53	-	53	04	-	04	57	-	57
Production of organic inputs										
Integrated farming										
Planting material production										
Vermi culture	01	04	02	06	02	-	02	06	02	08
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
Repair and maintenance of farm machinery and implements										
Nursery management of horticulture crops	01	04	02	06	02	-	02	06	02	08
Training and pruning of orchards	01	11	-	11	04	-	04	15	-	15
Value addition	03	-	49	49	-	10	10	-	59	59
Production of quality animal products										
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	-	50	50	-	07	07	-	57	57
TOTAL :	**09**	**72**	**103**	**175**	**12**	**17**	**29**	**84**	**120**	**204**

Thematic area	No.of courses	Participants								
		Other			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(C) Extension personnel										
Productivity enhancement in field crops										
Integrated pest management	01	44	-	44	-	-	-	44	-	44
Integrated nutrient management	02	44	-	44	14	-	14	58	-	58
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	01	02	07	09	01	01	02	03	08	11
Care and maintenance of farm machinery and implements										
WTO and IPR issues										
Management in farm animals										
Livestock feed and fodder production	01	18	-	18	-	-	-	18	-	18
House hold food security										
Women and child care	02	-	37	37	-	11	11	-	48	48
Low cost and nutrient efficient diet designing										
Production and use of organic inputs										
Gender mainstreaming through SHGs										
Soil and water conservation practiced										
Training need assessment and PRA techniques										
TOTAL :	**07**	**108**	**44**	**152**	**15**	**12**	**26**	**123**	**56**	**179**

Annexure : I Details of above Training Programme

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
26/4/13	PF	Scientific cultivation of Cotton	Crop Production	Integrated crop management	01	Off	16	-	16	02	-	02	18	-	18
14/6/13	PF	Scientific cultivation of Castor	Crop Production	Integrated crop management	01	Off	24	-	24	-	-	-	24	-	24
25/6/13	PF	Scientific cultivation of Green-gram	Crop Production	Integrated crop management	01	On	37	-	37	07	-	07	44	-	44
18/7/13	PF	Scientific cultivation of Castor	Crop Production	Integrated crop management	01	On	20	-	20	04	-	04	24	-	24
26/7/13	PF	Weed management in cotton	Crop Production	Weed management	01	Off	21	-	21	-	-	-	21	-	21
1/8/13	PF	Irrigation scheduling in kharif crop	Crop Production	Water management	01	On	16	-	16	-	-	-	16	-	16
29/8/13	PF	Importance of organic farming in present scenario	Crop Production	Resource conservation technologies	01	Off	19	-	19	-	-	-	19	-	19

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
4/9/13	PF	Scientific cultivation of Fennel	Crop Production	Integrated crop management	01	Off	15	-	15	02	-	02	17	-	17
12/9/13	RY	Seed production technologies	Crop Production	Seed Production	01	Off	53	-	53	04	-	04	57	-	57
29/10/13	PF	Scientific cultivation of Fennel	Crop Production	Integrated crop management	01	Off	26	-	26	-	-	-	26	-	26
21/11/13	PF	Integrated weed management in wheat	Crop Production	Weed management	01	Off	17	-	17	01	-	01	18	-	18
23/11/13	PF	Scientific cultivation of Wheat	Crop Production	Integrated crop management	01	On	17	-	17	-	-	-	17	-	17
29/11/13	PF	Scientific cultivation of Wheat	Crop Production	Integrated crop management	01	On	20	-	20	02	-	02	22	-	22
19/12/13	PF	Integrated weed management in Wheat	Crop Production	Weed management	01	Off	17	-	17	-	-	-	17	-	17
31/12/13	PF	Integrated nutrient management in wheat	Crop Production	Integrated nutrient management	01	On	16	-	16	02	-	02	18	-	18
8/1/14 to 13/1/14	RY	Vermi compost production	Crop production	Vermi culture	01	On	04	02	06	02	-	02	06	02	08

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
21/1/14	PF	Efficient use of irrigation water for higher Rabi crop production	Crop production	Water management	01	Off	18	-	18	-	-	-	18	-	18
19/2/14	PF	Scientific cultivation of summer bajra	Crop Production	Integrated crop management	01	Off	16	-	16	-	-	-	16	-	16
4/3/14	PF	Scientific cultivation of fodder bajara & Sorghum	Crop Production	Fodder production	01	Off	23	-	23	-	-	-	23	-	23
11/3/14	EF	Integrated nutrient management	Crop Production	Integrated nutrient management	01	Off	25	-	25	06	-	06	31	-	31
1/4/13	PF	Control measures of sucking pest in summer vegetable	Plant Protection	Integrated pest management	01	Off	21	-	21	-	-	-	21	-	21
30/4/13	PF	Identification and control measures of sucking pest	Plant Protection	Integrated pest management	01	On	19	-	19	01	-	01	20	-	20
22/5/13	PF	Identification of Bio-agent and their role in insect pest management	Plant Protection	Bio-control of pest and diseases	01	Off	19	-	19	-	-	-	19	-	19
5/6/13	PF	Precautionary measures to control the pest and diseases in BT Cotton	Plant Protection	Integrated disease management	01	Off	24	-	24	-	-	-	24	-	24

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
18/6/13	PF	Plant Protection measures of insect pest in pulse crop	Plant Protection	Integrated pestmanagement	01	On	18	-	18	-	-	-	18	-	18
27/7/13	PF	Precautionary measures to control the diseases in castor	Plant Protection	Integrated disease management	01	On	18	-	18	05	-	05	23	-	23
31/7/13	PF	Disease management in cotton viz Root rot and wilt	Plant Protection	Integrated disease management	01	Off	23	-	23	-	-	-	23	-	23
2/8/13	PF	Integrated pest and disease management in castor	Plant Protection	Integrated disease management	01	On	19	-	19	-	-	-	19	-	19
30/8/13	PF	Sucking pest management in cotton	Plant Protection	Integrated pest management	01	Off	10	-	10	04	-	04	14	-	14
6/9/13	PF	Control measures of pest and disease in fennel	Plant Protection	Integrated pest management	01	On	15	-	15	02	-	02	17	-	17
10/9/13	PF	Bio-control measures of diseases in cotton and castor	Plant Protection	Bio-control of pest and diseases	01	Off	17	-	17	03	-	03	20	-	20
3/10/13	PF	Plant Protection measures of insect pest in Mustard	Plant Protection	Integrated pest management	01	Off	26	-	26	01	-	01	27	-	27

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
21/10/13	PF	Plant Protection measures of Fennel	Plant Protection	Integrated diseases management	01	On	30	-	30	-	-	-	30	-	30
12/11/13	PF	Precautionary measures to control the termite in wheat	Plant Protection	Integrated pest management	01	On	19	-	19	-	-	-	19	-	19
13/11/13	PF	Control measures of disease of cumin and fennel	Plant Protection	Integrated disease management	01	Off	20	-	20	-	-	-	20	-	20
10/12/13	PF	Control measures of pest and diseases of Mustard	Plant Protection	Integrated pest management	01	Off	16	-	16	02	-	02	18	-	18
18/12/13	EF	Safely and effective use of pesticides in pest & diseases management	Plant Protection	Integrated pest management	01	Off	44	-	44	-	-	-	44	-	44
3/1/14	PF	Control measures of pest & disease of castor	Plant Protection	Integrated pest management	01	Off	16	-	16	-	-	-	16	-	16
10/1/14	PF	Effective use of pesticide for pest & disease management	Plant Protection	Integrated pest management	01	On	17	-	17	02	-	02	19	-	19

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
23/1/14	PF	Biological control of insect pest in field crops	Plant Protection	Bio-control of pests and diseases	01	Off	23	-	23	-	-	-	23	-	23
11/2/14	PF	Plant protection measures of vegetable crops	Plant Protection	Integrated pest management	01	Off	20	-	20	-	-	-	20	-	20
25/2/14	PF	Biological control of insect pest of Lucerne	Plant Protection	Bio-control of pests and diseases	01	Off	17	-	17	-	-	-	17	-	17
14/3/14	PF	Plant Protection measures in raising the seedling of fruit and vegetable crops	Plant Protection	Integrated disease management	01	On	19	-	19	-	-	-	19	-	19
19/3/14	PF	Role of Bio-fungicide in disease management of field crops	Plant Protection	Bio-control of pests and diseases	01	On	23	-	23	04	-	04	27	-	27
23/7/13	FW	Fodder management in milch animal	Animal Science	Feed management	01	Off	-	25	25	-	-	-	-	25	25
7/8/13	FW	Management of milch animal	Animal Science	Dairy management	01	Off	-	15	15	-	02	02	-	17	17

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
22/10/13	FW	Importance of fodder management and mineral mixture for milch animal	Animal Science	Feed management	01	Off	-	22	22	-	-	-	-	22	22
12/12/13	EF	Live stock production and management	Animal Science	Live stock feed and fodder production	01	On	18	-	18	-	-	-	18	-	18
12/4/13 to 13/4/13	FW	Preparation of various khakhra	Home Science	Value addition	02	On	-	22	22	-	-	-	-	22	22
17/4/13	FW	Storage of food grains	Home Science	Storage loss Minimization techniques	01	Off	-	19	19	-	04	04	-	23	23
7/5/13	FW	Alternate source of energy (solar cooker and smokeless chulha)	Home Science	Location specific drudgery reduction	01	On	-	20	20	-	-	-	-	20	20
08/5/13 to 9/5/13	FW	Preparation and preservation of mango products	Home Science	Value addition	02	On	-	27	27	-	-	-	-	27	27
10/5/13	FW	Minimization of nutrient loss while preparation of pulse food	Home Science	Minimization of nutrient loss in processing	01	Off	-	20	20	-	-	-	-	20	20
31/5/13 to 1/6/13	FW	Preparation and preservation of mango products	Home Science	Value addition	02	On	-	24	24	-	-	-	-	24	24

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
14/6/13	FW	Importance of self help group	Home Science	Gender mainstreaming through SHGs	01	Off	-	29	29	-	-	-	-	29	29
18/6/13 to 19/6/13	FW	Preparation of various khakhra	Home Science	Value addition	02	On	-	20	20	-	-	-	-	20	20
17/7/13	FW	Importance of fruit and vegetable in human diet	Home Science	Women and child care	01	Off	-	18	18	-	05	05	-	23	23
26/7/13	FW	Child care and nutrition	Home Science	Women and child care	01	Off	-	20	20	-	06	06	-	26	26
16/8/13	FW	House hold food security by kitchen gardening and nutritional gardening	Home Science	House hold food security by kitchen gardening and nutritional gardening	01	Off	-	24	24	-	-	-	-	24	24
30/8/13	FW	Storage of food grains	Home Science	Storage loss minimization techniques	01	Off	-	26	26	-	04	04	-	30	30
12/9/13	FW	Value added soya products (Soya chips, Milk, Chakri)	Home Science	Value addition	01	On	-	37	37	-	03	03	-	40	40
17/9/13	FW	Importance of fruit and vegetable in human diet	Home Science	Women and child care	01	Off	-	26	26	-	14	14	-	40	40
18/9/13 to 19/9/13	FW	Preparation of Detergent powder	Home Science	Rural Craft	02	On	-	29	29	-	05	05	-	34	34

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
20/9/13	FW	Balance diet for pregnant women	Home Science	Women and child care	01	Off	-	12	12	-	08	08	-	20	20
3/10/13 to 4/10/13	RY	Preparation of detergent powder	Home Science	Rural craft	02	Off	-	21	21	-	02	02	-	23	23
10/10/13	FW	Storage of food grains	Home Science	Storage loss-minimization techniques	01	Off	-	02	02	-	21	21	-	23	23
23/10/13	EF	Balance diet for pregnant women and children	Home Science	Women and child care	01	Off	-	17	17	-	05	05	-	22	22
29/10/13	FW	Preparation of decorative items from waste materials	Home Science	Rural craft	01	On	-	12	12	-	09	09	-	21	21
21/11/13	FW	Designing and development of low/minimum cost diet	Home Science	Designing and development of low/ minimum cost diet	01	Off	-	38	38	-	-	-	-	38	38
16/12/13 to 17/12/13	RY	Value addition in aonla	Home Science	Value addition	02	On	-	19	19	-	03	03	-	22	22
19/12/13	FW	Income generation activities for empowerment of rural women	Home Science	Income generation activities empowerment of rural women	01	Off	-	43	43	-	-	-	-	43	43
1/1/14	FW	Designing and development of low/minimum cost	Home Science	Designing and development of low/minimum	01	Off	-	19	19	-	03	03	-	22	22

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participants			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
3/1/14	FW	Income generation activities for empowerment of rural women	Home Science	Income generation activities for empowerment of rural women	01	On	-	23	23	-	02	02	-	25	25
8/1/14	FW	Awareness regarding kitchen appliances (Juicer, Blender, Chilli and Onion cutter etc.)	Home Science	Location specific drudgery reduction	01	Off	-	19	19	-	01	01	-	20	20
24/1/14	FW	Income generation activities for empowerment of rural women	Home Science	Income generation activities for empowerment of rural women	01	On	-	18	18	-	02	02	-	20	20
28/1/14 to 4/2/14	RY	Preparation of various aonla candy, pickle, cherry, syrup	Home Science	Value addition	08	On	-	10	10	-	07	07	-	17	17
13/2/14	FW	Importance and technique of kitchen gardening	Home Science	House hold food security by kitchen gardening and nutritional gardening	01	Off	-	25	25	-	11	11	-	36	36
7/3/14 to 8/3/14	FW	Preparation of preservation of vegetable pickle (Brinjal, Chilli pickle and Tomato ketchup)	Home Science	Value addition	02	On	-	20	20	-	-	-	-	20	20

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participant			Number of SC/ST			Total Number of Participant		
							M	F	T	M	F	T	M	F	T
17/4/13	PF	Importance and scope of MIS	Horti-culture	Micro irrigation systems of orchards	01	Off	19	-	19	-	-	-	19	-	19
29/5/13	PF	Scientific cultivation of Papaya	Horti-culture	Cultivation fruits	01	Off	20	-	20	01	-	01	21	-	21
12/6/13	PF	Scientific cultivation of Cowpea	Horti-culture	Grading and standardization	01	Off	23	-	23	-	-	-	23	-	23
29/8/13	PF	Scientific cultivation of Potato	Horti-culture	Grading and standardization	01	Off	20	-	20	-	-	-	20	-	20
20/9/13	PF	Scientific cultivation of Brinjal	Horti-culture	Nursery raising	01	Off	18	-	18	02	-	02	20	-	20
28/9/13	PF	Scientific cultivation and importance of grading and standardization of Brinjal	Horti-culture	Grading and standardization	01	On	18	-	18	02	-	02	20	-	20
23/10/13	PF	Scientific cultivation of Cumin	Horti-culture	Production and management technology	01	On	49	-	49	-	-	-	49	-	49
28/10/13	PF	Scientific cultivation of Carrot	Horti-culture	Grading and standardization	01	Off	23	-	23	01	-	01	24	-	24
9/11/13	EF	Scientific cultivation of Pomegranate and Papaya	Horti-culture	INM	01	On	19	-	19	08	-	08	27	-	27
11/11/13	PF	Post harvest technology in Brinjal	Horti-culture	Grading and standardization	01	Off	22	-	22	-	-	-	22	-	22
4/12/13	RY	Training and pruning technique in pomegranate	Horti-culture	Training pruning of orchard	01	On	11	-	11	04	-	04	15	-	15

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participant			Number of SC/ST			Total Number of Participants		
							M	F	T	M	F	T	M	F	T
9/12/13	PF	Scientific cultivation of Cowpea	Horti-culture	Grading and standardization	01	Off	20	-	20	-	-	-	20	-	20
13/12/13	PF	Scientific cultivation of Cluster bean	Horti-culture	Grading and standardization	01	On	25	-	25	-	-	-	25	-	25
19/12/13	PF	Scientific cultivation of cowpea	Horti-culture	Grading and standardization	01	Off	21	-	21	-	-	-	21	-	21
24/12/13	PF	Importance of sorting, grading and standardization of carrot	Horti-culture	Grading and standardization	01	Off	43	-	43	-	-	-	43	-	43
1/1/14 to 7/1/14	RY	Nursery raising in vegetable crops	Horti-culture	Nursery management of horticulture crop	07	On	04	02	06	02	-	02	06	02	08
7/1/14	PF	Scientific cultivation of pomegranate	Horti-culture	Cultivation fruits	01	Off	16	-	16	-	-	-	16	-	16
27/1/14	PF	Scientific cultivation of chilli	Horti-culture	Nursery raising	01	Off	29	-	29	-	-	-	29	-	29
13/2/14	PF	Scientific cultivation of summer vegetable guar	Horti-culture	Grading and standardization	01	On	26	-	26	-	-	-	26	-	26
19/2/14	PF	Scientific cultivation of Bottle gourd	Horti-culture	Grading and standardization	01	Off	17	-	17	01	-	01	18	-	18
7/3/14	PF	Post harvest technology in cumin	Horti-culture	Post harvest technology and value addition	01	Off	18	11	29	01	-	01	30	-	30
13/3/14	PF	Scientific cultivation of okra	Horti-culture	Grading and standardization	01	On	14		14	-	-	-	14	-	14
29/7/13 to 30/7/13	EF	PRA Techniques	Extension	Capacity Building	02	On	02	07	09	01	01	02	03	08	11

ON CAMPUS TRAINING PROGRAMME

PRACTICING FARMERS TRAINING

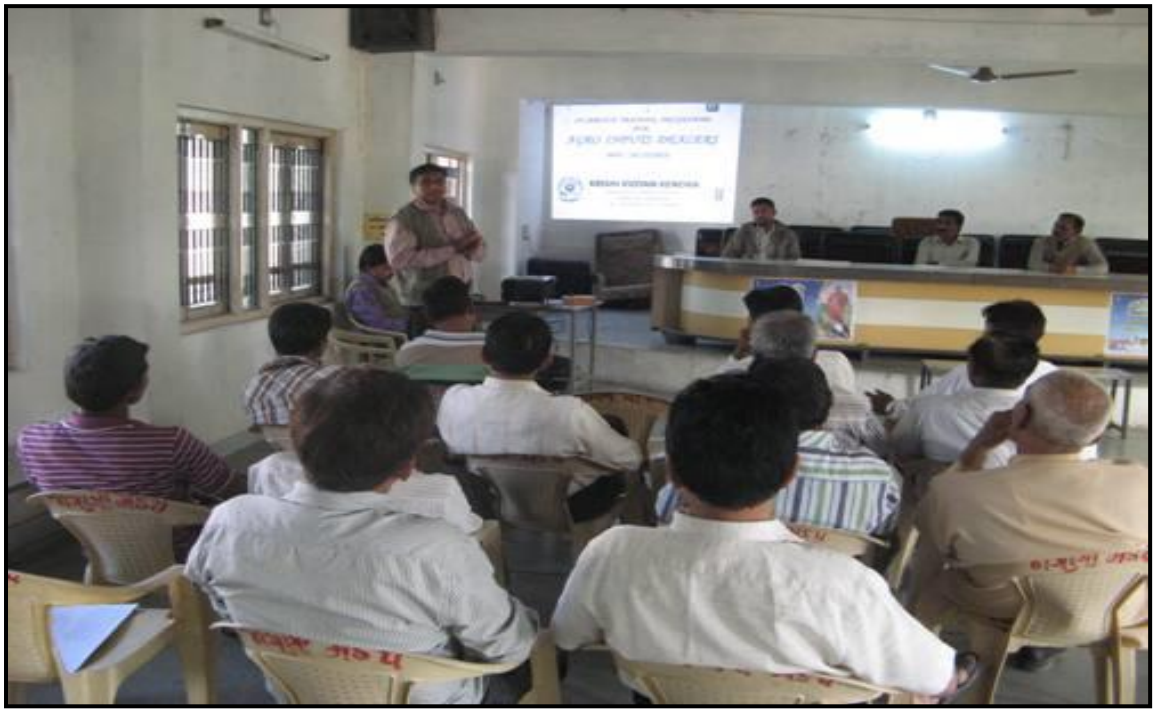
FARM WOMEN TRAINING

OFF CAMPUS TRAINING PROGRAMME

PRACTICING FARMERS TRAINING

FARM WOMEN TRAINING

IN -SERVICE TRAINING PROGRAMME



AGRO INPUT DEALER - PATAN

DAIRY MANTRI- SIDHPUR

(D) Vocational Training programmes for Rural Youth

Crop/ Enterprise	Date	Training title	Identified Thrust Area	Duration (days)	Number of participant			Self employed after training			Number of persons employed else where
					Male	Female	Total	Type of units	No.of Units	No.of persons employed	
Home Science	18/6/13 to 19/6/13	Preparation of various khakhra	Value addition	02	-	20	20	-	-	-	-
Crop production	12/9/13	Seed production technologies	Seed production	01	57	-	57	-	-	-	-
Home Science	18/9/13 to 19/9/13	Preparation of detergent powder	Rural crafts	02	-	34	34	-	-	-	-
Home Science	3/10/13 to 4/10/13	Preparation of detergent powder	Rural Craft	02	-	23	23	-	-	-	-
Horticulture	4/12/13	Training and pruning techniques in pomegranate	Training and pruning of orchards	01	15	-	15	-	-	-	-
Home Science	16/12/13 to 17/12/13	Value addition in aonla	Value addition	02	-	22	22	-	-	-	-
Horticulture	1/1/14 to 7/1/14	Nursery raising in vegetable crops	Nursery management of horticulture crops	07	06	02	08	-	-	-	-
Crop production	8/1/14 to 13/1/14	Vermi compost production	Vermi culture	06	06	02	08	-	-	-	-
Home Science	28/1/14 to 4/2/14	Preparation of various aonla candy, pickle, chery , syrup	Value addition	08	-	17	17	-	-	-	-

VOCATIONAL TRAINING PROGRAMME

VERMI COMPOST PREPARATION

NURSERY RAISINING

(E) Sponsored Training programmes

Date	Title	Disci-pline	Thematic area	Dura-tion (days)	Client (PF/RY /EF)	No.of courses	Others			SC/ST			Total			Sponsoring agency	Amount of fund received (Rs.)
							M	F	T	M	F	T	M	F	T		
4/6/13 to 6/6/13	Fruit and vegetable preservation	Home Science	Value addition	03	RY	01	-	30	30	-	-	-	-	30	30	ATMA Junagadh	-
8/7/13	Fruit and vegetable preservation	Home Science	Value addition	01	PF	01	-	16	16	-	12	12	-	28	28	FTC Mehsana	-
3/8/13	Control measures of pest and disease in cotton	Plant Protec-tion	Integrated pest management	01	PF	01	25	-	25	03	-	03	28	-	28	IWMP Patan	-
6/8/13	Fruit and vegetable preservation	Home Science	Value addition	01	PF	01	-	29	29	-	17	17	-	46	46	IWMP Patan	-
3/9/13	Seed production in self pollinated crop	Crop Produc-tion	Seed production	01	RY	01	22	-	22	02	-	02	24	-	24	ATMA Banaskantha	-
3/9/13	Design and development of low minimum cost diet	Home Science	Design and development of low/minimum cost diet	01	PF	01	-	39	39	-	06	06	-	45	45	IWMP Patan	-
4/9/13	Preparation and preservation of lemon ginger syrup and papaya tutifuti	Home Science	Value addition	01	PF	01	-	24	24	-	14	14	-	38	38	IWMP Patan	-

Date	Title	Disci-pline	Thematic area	Dura-tion (days)	Client (PF/RY /EF)	No.of courses	Others			SC/ST			Total			Sponsoring agency	Amount of fund received (Rs.)
							M	F	T	M	F	T	M	F	T		
20/9/13	Importance of fruit & vegetable preservation	Home Science	Value addition	01	PF	01	-	32	32	-	-	-	-	32	32	IWMP Patan	-
25/9/13	Value addition in fruit and vegetable preservation	Home Science	Value addition	01	PF	01	-	33	33	-	06	06	-	39	39	ATMA B.K.	-
25/10/13	Importance of trap crop in plant Protection	Plant Protec-tion	Bio-control of pest and disease	01	PF	01	24	-	24	-	-	-	24	-	24	FTC Patan	-
18/2/14 to 20/2/14	Fruit and vegetable preservation	Home Science	Value addition	03	PF	01	-	24	24	-	04	04	-	28	28	FTC Patan	-

SPONSORED TRAINING PROGRAMME-ATMA

FARM SCHOOL MEMBERS TRAINING

FARMERS TRAINING

3.4. Extension Activities (including activities of FLD Programme)

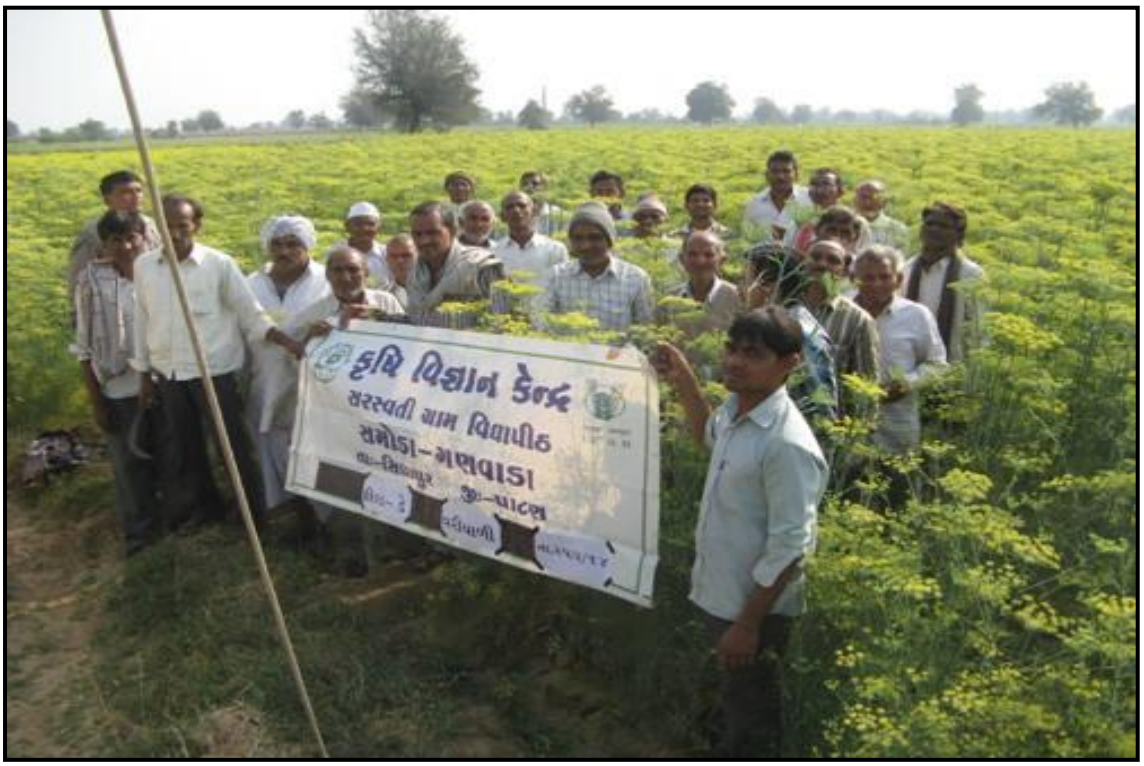
S. N.	Nature of Extension Activity	Purpose/ Topic and date	No.of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension officers (III)			Grand Total (I+II+III)		
				M	F	T	M	F	T	M	F	T	M	F	T
1.	Field day	Green-gram 18/9/13	01	24	-	24	-	-	-	-	-	-	24	-	24
2.	Field day	Castor 20/12/13	01	25	-	25	01	-	01	-	-	-	26	-	26
3.	Field day	Fennel 25/2/14	01	47	-	47	01	-	01	-	-	-	48	-	48
4.	Field day	Cumin 4/3/14	01	40	-	40	-	-	-	-	-	-	40	-	40
5.	Field day	Cumin 7/3/14	01	29	-	29	02	-	02	-	-	-	31	-	31
6.	Field day	Wheat 14/3/14	01	40	-	40	-	-	-	-	-	-	40	-	40
		Total :	**06**	**205**	**-**	**205**	**04**	**-**	**04**	**-**	**-**	**-**	**209**	**-**	**209**
7.	Kisan mela	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Kisan Ghosthi	10/2/14	01	18	-	18	01	-	01	-	-	-	19	-	19
9.	Kisan Ghosthi	19/2/14	01	55	-	55	-	-	-	-	-	-	55	-	55
10	Exhibition	21/10/13	01	30	-	30	-	-	-	-	-	-	30	-	30
11	Exhibition	23/10/13	01	49	-	49	-	-	-	-	-	-	49	-	49
12	Exhibition	29/11/13	01	20	-	20	02	-	02	-	-	-	22	-	22
13	Film Show	30/4/13	01	19	-	19	01	-	01	-	-	-	20	-	20
14	Film show	6/9/13	01	15	-	15	02	-	02	-	-	-	17	-	17
15	Film show	21/10/13	01	30	-	30	-	-	-	-	-	-	30	-	30
16	Film show	23/10/13	01	49	-	49	-	-	-	-	-	-	49	-	49
17	Film show	29/11/13	01	58	-	58	-	-	-	-	-	-	58	-	58
18	Film show	23/12/13	01	44	-	44	03	-	03	-	-	-	47	-	47
19	Method demonstra-tion	12/11/13	01	19	-	19	-	-	-	-	-	-	19	-	19
20	Method demonstra-tion	31/12/13	01	16	-	16	02	-	02	-	-	-	18	-	18
21	Farmer Seminar														
22	Workshop														
23	Group meeting	9/7/13	01	-	30	30	-	-	-	-	-	-	-	30	30
24	Lectures delivered as resource person	11/7/13	01	09	12	21	14	08	22	-	-	-	23	20	43
25	Lectures delivered as resource person	21/10/13 to 22/10/13	02	12	08	20	11	02	13	-	-	-	23	10	33

S. N.	Nature of Extension Activity	Purpose/ Topic and date	No.of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension officers (III)			Grand Total (I+II+III)		
				M	F	T	M	F	T	M	F	T	M	F	T
26	Lectures delivered as resource person	20/11/13	01	16	-	16	11	-	11	-	-	-	27	-	27
27	Lectures delivered as resource person	23/11/13	01	-	36	36	-	14	14	-	-	-	-	50	50
28	Lectures delivered as resource person	24/12/13	01	13	14	27	08	06	14	-	-	-	21	20	41
29	Lectures delivered as resource person	29/1/14	01	03	12	15	01	04	05	-	-	-	04	16	20
30	Newspaper coverage														
31	Radio talk														
32	TV talks														
33	Popular articles														
34	Extension literature														
35	Advisory service														
36	Scientist visit to farmers field		52	231	-	231	-	-	-	-	-	-	231	-	231
37	Farmer visit to KVK		48	198	-	198	-	-	-	-	-	-	198	-	198
38	Diagnostic visit														
39	Exposure visit														
40	Ex-trainees sammelan	12/10/13	01	20	-	20	04	-	04	-	-	-	24	-	24
41	Ex-trainees sammelan	22/10/13	01	-	23	23	-	-	-	-	-	-	-	23	23
42	Soil health camp														
43	Animal health camp														
44	Agri mobile clinic														
45	Soil test campaigns														
46	Farm science club conveners meet	11/2/14	01	11	-	11	-	-	-	-	-	-	11	-	11

S. N.	Nature of Extension Activity	Purpose/ Topic and date	No.of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Exten-sion officer (III)			Grand Total (I+II+III)		
				M	F	T	M	F	T	M	F	T	M	F	T
47	Self help group conveners meeting	16/8/13	01	-	19	19	-	-	-	-	-	-	-	19	19
48	Mahila mandals conveners meeting														
49	Celebration of important days (i) Women in Agri. Day (ii) Farmer day	4/12/13 23/12/13	01 01	- 44	24 -	24 44	- 03	01 -	01 03	- -	- -	- -	- 47	25 -	25 47
	Grand Total :		**34**	**1184**	**178**	**1362**	**71**	**35**	**106**	**-**	**-**	**-**	**1255**	**213**	**1468**

EXTENSION ACTIVITY

FIELD DAY- WHEAT

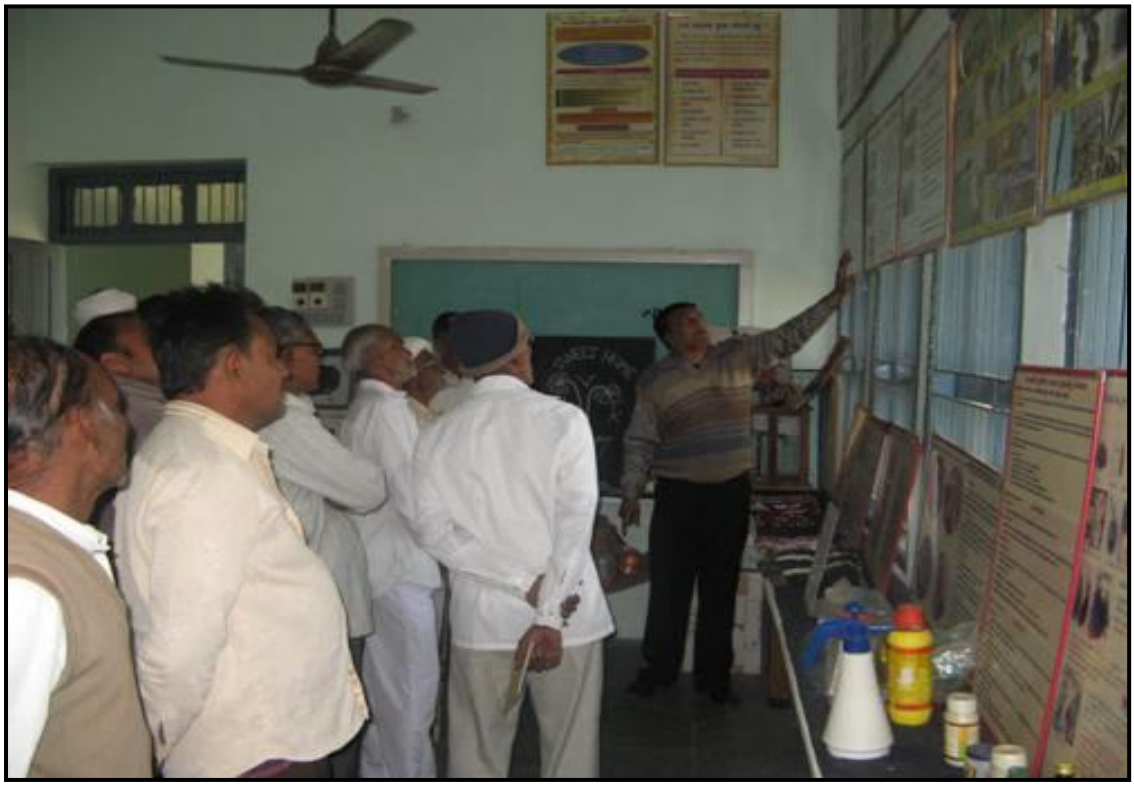


FIELD DAY- FENNEL

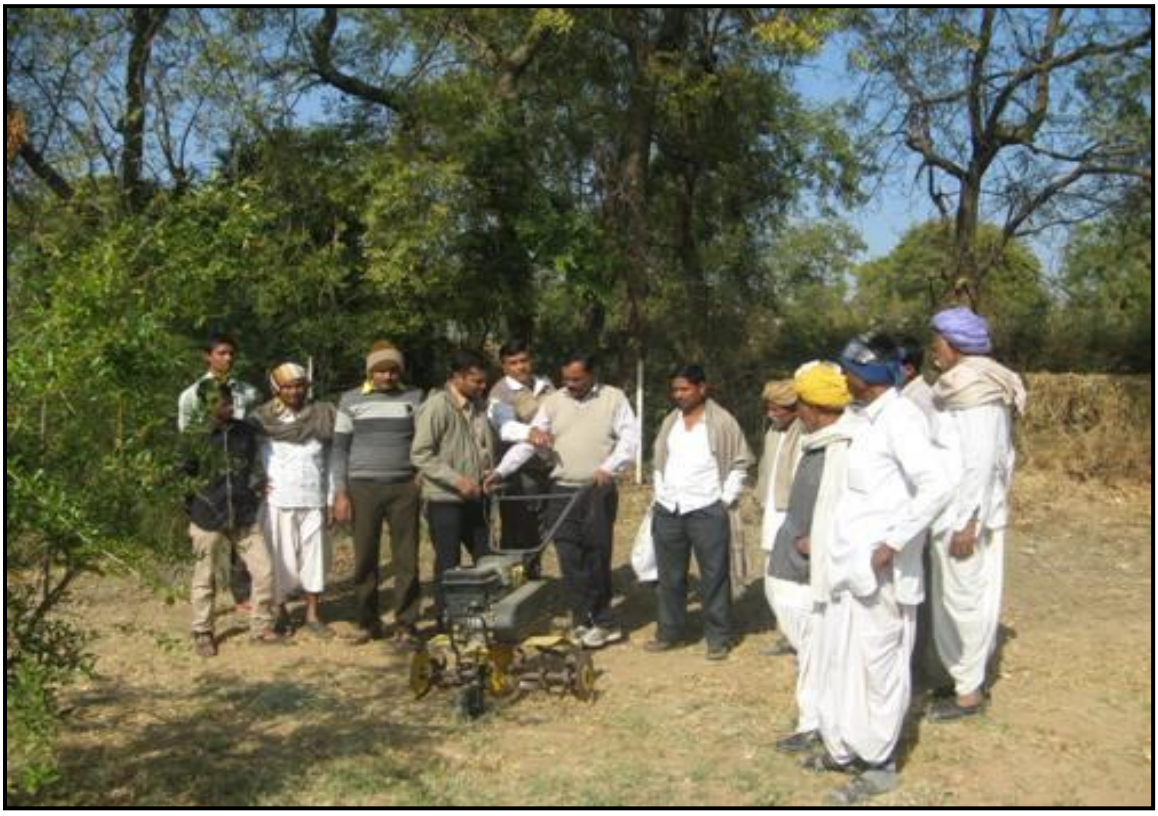
FIELD DAY- CASTOR

FIELD DAY- CUMIN

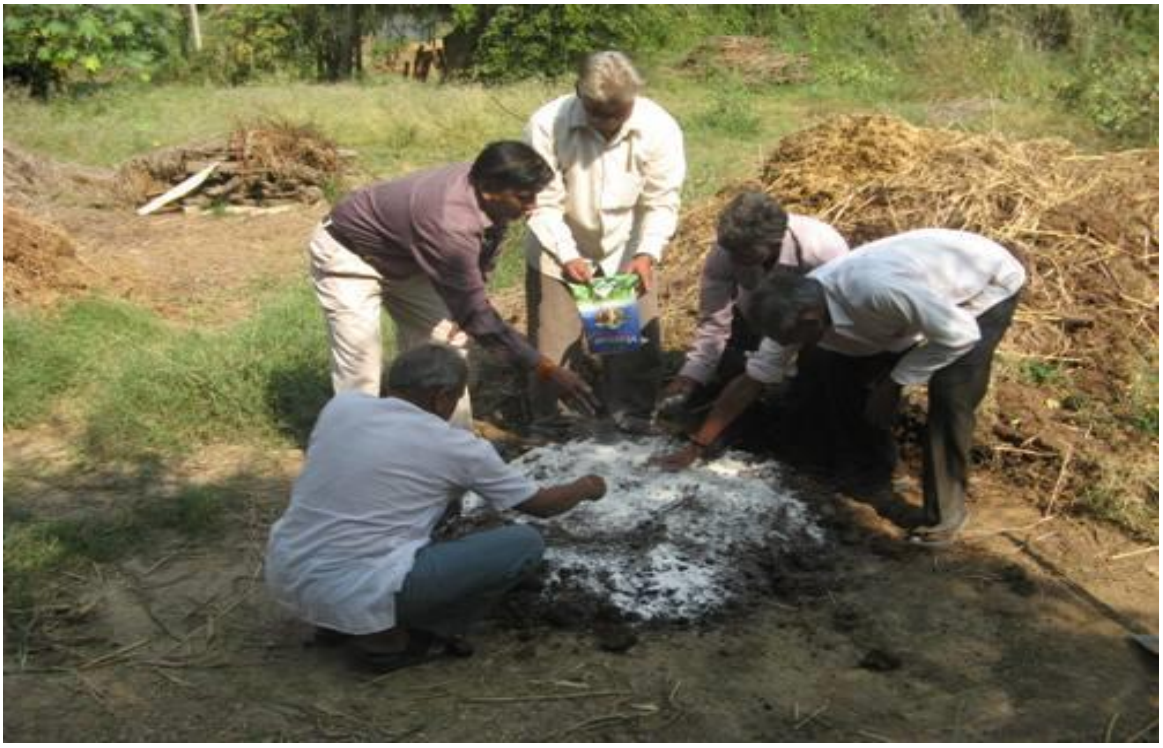
KISAN GOSTHI



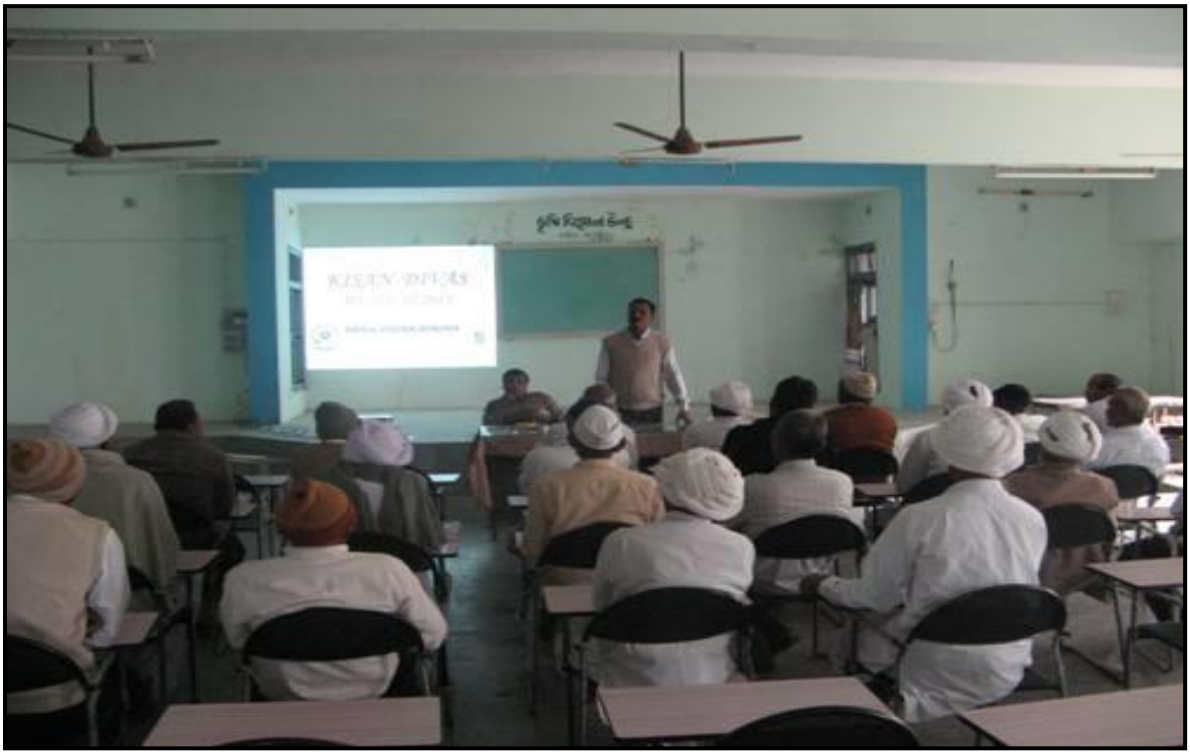
EXHIBITION



METHOD DEMONSTRATION (ROTARY WEEDER)



METHOD DEMONSTRATION (TRICHODERMA + VERMI COMPOST)

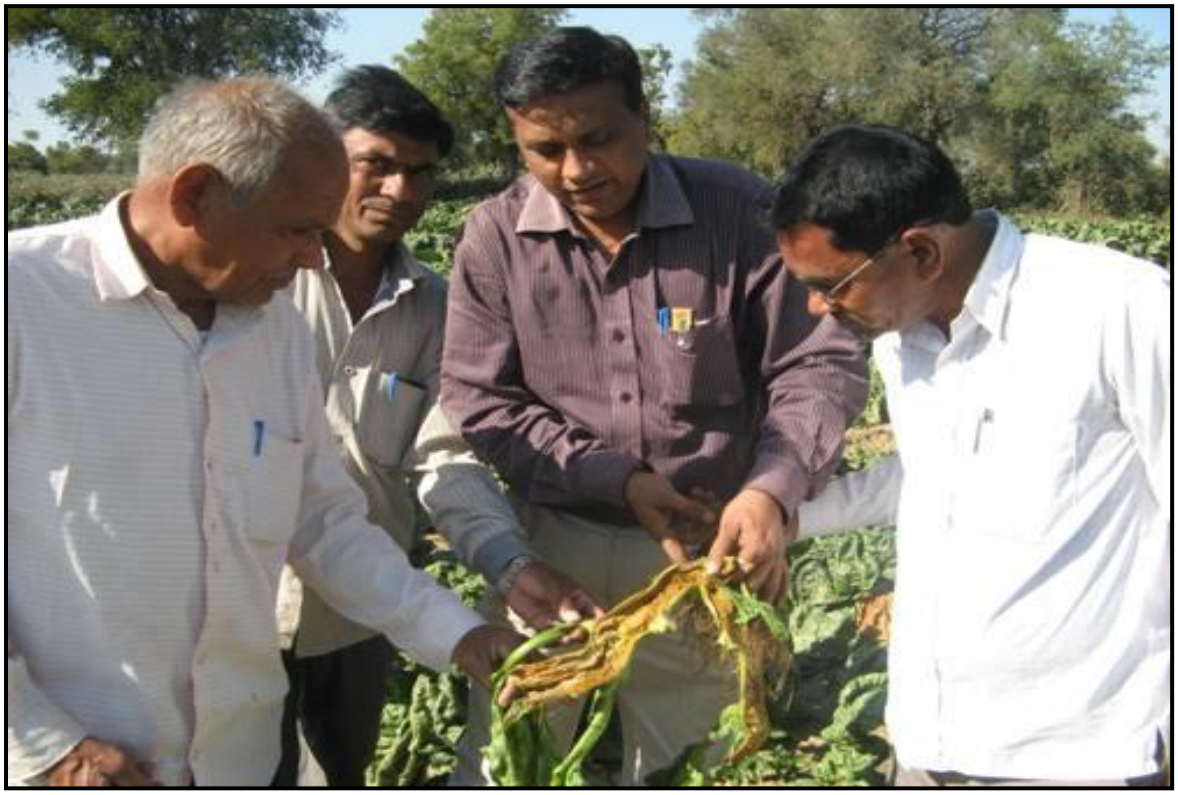


KISAN DIWAS-23rd DECEMBER

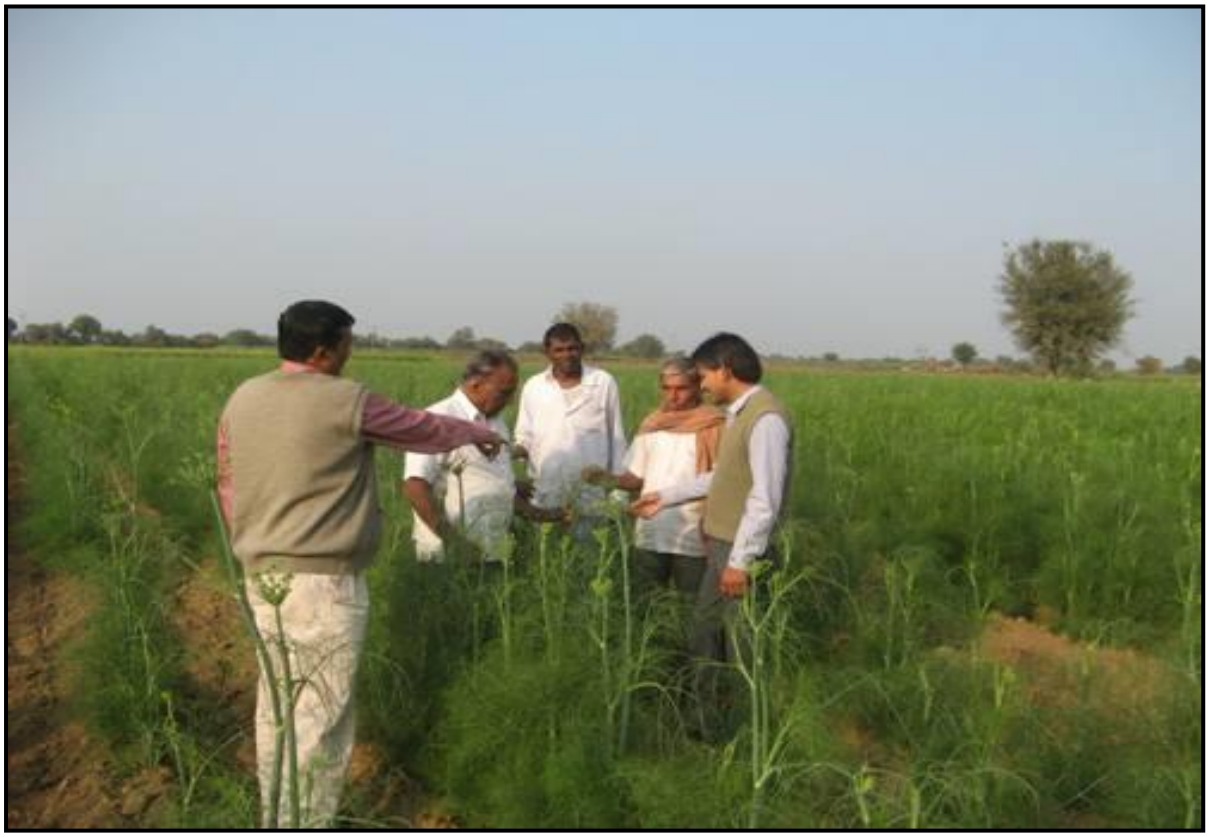
NIGHT MEETING

DIAGNOSTIC VISIT- CUMIN

DIAGNOSTIC VISIT- WHEAT



DIAGNOSTIC VISIT- TOBACCO



DIAGNOSTIC VISIT- FENNEL

EXPOSURE VISIT- POMEGRANATE

BI-MONTHLY REVIEW MEETING AT KVK-PATAN

KISHAN MOBILE ADVISORY

No. of Farmers registered:- 787

Details of SMSs

Content Category	No.of Messages	No.of Farmers	Feed back of farmers if any	
Crop Production	01	271	-	-
Crop Protection	07	3278	-	-
Live stock & Fisheries Advisory	-	-	-	-
Weather Advisory	-	-	-	-
Market Information	-	-	-	-
Events Information	-	-	-	-
Input availability	01	772	-	-
Others Home Science Rural craft	 01 01	 623 762	 - -	 - -
Total :-	11	5706	-	-

INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

State	Crops/Cultivars	Area (ha.)	Number of beneficiaries
-	-	-	-

Major area coverage under alternate crops/ varieties

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

Farmers scientists interaction on livestock management

State	Livestock components	Number of interactions	Number of participants
-	-	-	-
-	-	-	-
Total :-	-	-	-

Animal health camps organized

State	Number of camps	Number of Animals	Number of Farmers
-	-	-	-
-	-	-	-
Total :-	-	-	-

Seed distribution in drought hit states

State	Crop	Quantity(qtl)	Coverage of area (ha)	Number of Farmers
-	-	-	-	-
-	-	-	-	-
Total :-	-	-	-	Total :-

Large scale adoption of resource conservation technologies

State	Crop/cultivars and gist of resource conservation technologies introduced	Area (ha.)	Number of Farmers
-	-	-	-
-	-	-	-
Total :-	-	-	-

Awareness campaign

KVK	Meeting		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
Total :-	-	-	-	-	-	-	-	-	-	-	-	-

3.5. Production and supply of Technological products

SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of farmer
CEREALS	Wheat	GW-496	18	25,135=00	26
OILSEEDS	-	-	-	-	-
PULSES	-	-	-	-	-
VEGETABLES	-	-	-	-	-
FLOWER CROPS	-	-	-	-	-
OTHERS	-	-	-	-	-

SUMMARY

Sr.No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of farmer
1.	CEREALS	18	25,135=00	26
2.	OILSEEDS	-	-	-
3.	PULSES	-	-	-
4.	VEGETABLES	-	-	-
5.	FLOWER CROPS	-	-	-
6.	OTHERS	-	-	-
	Total :	18	25,135=00	26

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (no.)	Value (Rs.)	Provided to No. of farmer
FRUITS	Lime	Kagzi Lime	3,175	51,285=00	112
SPICES	-	-	-	-	-
VEGETABLES	Chilli	Guj.Chilli-3	30,000	3,000=00	05
FOREST SPECIES	-	-	-	-	-
ORNAMENTAL CROPS	Ornamental Plants	-	467	4,670=00	31
PLANTATION CROPS	-	-	-	-	-
OTHERS	Tobacco	Guj. Calcutti Tobacco-4	43,500	8,700=00	11

SUMMARY

Sr.No.	Crop	Quantity (no.)	Value (Rs.)	Provided to No. of farmer
1.	FRUITS	3,175	51,285=00	112
2.	SPICES	-	-	-
3.	VEGETABLES	30,000	3,000	05
4.	FOREST SPECIES	-	-	-
5.	ORNAMENTAL CROPS	467	4,670=00	31
6.	PLANTATION CROPS	-	-	-
7.	OTHERS (Tobacco)	43,500	8,700=00	11
	Total :-	77,142	67,655=00	159

BIO PRODUCT

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No.of farmers
			No.	(kg)		
Bio-agents	-	-	-	-	-	-
Bio-fertilizer	-	-	-	-	-	-
Bio-pesticides	-	-	-	-	-	-
Others	Vermi compost	-	10	500	1500=00	02

SUMMARY

Sr. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No.of farmers
			No.	(kg)		
1.	Bio-agents	-	-	-	-	-
2.	Bio-fertilizer	-	-	-	-	-
3.	Bio-pesticides	-	-	-	-	-
4.	Others(vermin compost)	-	10	500	1,500=00	02
	Total :-	-	10	500	1,500=00	02

LIVE STOCK

Sr.No.	Type	Breed	Quantity		Value (Rs.)	Provided to No.of farmers
			No.	(kg)		
Cattle	-	-	-	-	-	-
SHEEP AND GOAT	-	-	-	-	-	-
POULTRY	-	-	-	-	-	-
FISHERIES	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-

SUMMARY

Sr. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No.of farmers
			No.	(kg)		
1.	Cattle	-	-	-	-	-
2.	SHEEP AND GOAT	-	-	-	-	-
3.	POULTRY	-	-	-	-	-
4.	FISHERIES	-	-	-	-	-
5.	OTHERS	-	-	-	-	-

3.6. Literature Developed / Published

(A) KVK News letter (Date of start, Periodicity, Number of copies distributed etc.)

------NIL-----

(B) Literature developed/ published

Item	Title	Authors name	Name of Journal	Number
Leaflets and folders	• Value addition in aonla product • Value addition in mango products • Scientific cultivation of kagzi lime • Scientific cultivation of Ber • Production technology of Pomegranate • Scientific cultivation of Exotic vegetable tables like Broccoli & lettuce • Scientific cultivation of Papaya • Management of Mealy bug in Cotton • IPM in Castor	S.M.S. (Extension, Crop Production, Plant Protection, Horticulture, Home Science)	- - - - - - - - -	500 500 500 500 500 500 500 500 500
Research Paper	• Effect of phosphoras and Bio-fertilizer on productivity on chickpea (Cicer arietinum L.) In North western Rajasthan, India	Shayam Das B.L.Pareck Amit Kumawat Shish Ram Dhikwal	Legume Research, 36(6) : 511-514	-

(C) Details of Electronic Media Produced

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

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

SUCCESS STORY

HORTICULTURAL CROP CULTIVATION

Name of Farmer :- Karovalia Hajaratali Valibhai

(a) Socio-economic back ground :-

Full address		:-	Karovalia Hajaratali Valibhai At & Po.: - Methan, Ta.: Sidhpur, Di.: Patan
Education		:-	B.Com
Age		:-	40 years
Resources		:-	
(i)	Land	:-	21.67 ha. (Lease base for 10 years)
(ii)	Tube well	:-	One
(iii)	MIS	:-	Total land under MIS
(iv)	Farm machinery & implements	:-	Tractor & Tractor mounted all the implements viz. Cultivator, Rotavator, Bund former, Thresher, Power weeder & Sprayers, Duster, Pit digger etc.

(b) Technology developed / Adopted :-

With the objective to motivate the farmers of the district for horticultural crop cultivation, Subject matter specialists of the KVK imparted the training and intensive follow up for achieving the target.

Few of the farmers have adopted the horticultural crop cultivation in the district. Among these farmers, Karovaliya Hajratali Valibhai has excellent horticultural crop cultivation with micro irrigation systems. In addition to this he has adopting the preparation of organic matter by crop residue & farm yard manure.

(c) Intervention inducted in the farming system :-

- Protective cultivation of vegetable crops viz. Tomato, Chilli & musk melon in Green house.
- Raising the seedlings in Net house
- Value addition / Post harvest technology
- MIS in all the fruits vegetable crops

(d) Gross and Net income, BCR for last three years

Sr. No.	Crop	Variety	Av. Per Acre				
			Production mt./acre	Income Rs. In lakh	Expenditure Rs. Lakh	Profit Rs.in lakhs	BCR
1.	Papaya	Red lady-786	45.00	02.61	00.70	01.91	03.72
2.	Water melon	Ice Box Kiran	28.00	01.68	00.68	01.00	02.47
3.	Potato	LR	12.25	01.23	00.49	00.74	02.51
4.	Onion	Local	21.40	01.29	00.52	00.77	02.48
5.	Banana	Guj.9	36.24	02.67	01.45	01.22	01.84
6.	Turmeric powder (Value addition)	Rajapuri	2.40	04.80	01.60	03.20	03.00
7.	Pomegranate	Sindury	20 Acre plantation of the crop is about 18 months old				

- One of the best practices in adoption of micro irrigation system with mulching as well as protective cultivation in fruit & vegetable crops.
- Micro irrigation system not only increase the production of the crops but also improve the quality of the produce and decrease the pest disease & weed infestation

PHOTOGRAPHS

Banana plantation with MIS

Mulching

Pomegranate with MIS

Pit digger

Net House

Tomato (Var.Abhinav)

Chilli (Var. Simala Mirch)

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 k-yan 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
5.	Chilli	-Use of sour butter milk & cow urine spraying -Spraying of the mixture of sour butter milk & cow urine in chilli	To control sucking pest & leaf curl in chilli

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
- Group discussion
- Pre evaluation of In-service personnel

3.11 Field activities

i. Number of villages adopted - 05

ii. No. of farm families selected - 100

iii. No. of survey/PRA conducted - 05

3.12 Activities of Soil and Water Testing Laboratory

Status of establishment of Lab

(1) Year of establishment : 2004

(2) List of equipments purchased with amount

Sl. 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

(3) 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	-	-	-	-
Petiole Sample				
Total	**506**	**395**	**75**	**-**

(4) Details of samples analyzed during 2013-14

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

4 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 adoptio	Change in income after (Rs./unit)
Improved variety			
Castor-GCH-7	38	76	-
Green-gram-GM-4	21	42	-
Fennel-GF-11	19	38	-
Wheat-GW-366	18	36	-
Cumin-GC-4	31	62	-
Chilli-Guj.Chilli-3	16	32	-
Pomegranate Sinduri	07	14	-
Integrated Nutrient management			
• Use of ZnSO4 in Wheat	28	56	-
• Use of ZnSO4 & MgSO4 in Cotton	31	62	-
• Use of Sardar Amin Granules in cotton	23	46	-
• Use of Sulphatic fertilizer in oil seed crops (Castor & Mustard)	32	64	-
Weed management in Wheat & Cumin	35	70	-
Use of Bio-fungicide (Trichoderma spp.) for wilt disease management in Cumin	12	24	-
Micro irrigation system in horticultural crops	09	18	-
Scientific method of storage of food grains	29	58	-
Use of preservatives in fruit & vegetable preservation	21	42	-
Colostrums feeding in calf raising	40	80	-

4.2 Cases of large scale adoption

Sr.No	Case	Adoption
1.	Improved variety of major crops viz Castor, Cumin, Green-gram, Wheat, Mustard	Most of the farmers have adopted the improved varieties of major crops
2.	Use of sulphatic fertilizer i.e. Amonium sulphate & Granulated sulphur 90%	Majority of the farmers have adopted this technology in Mustard & Castor crops
3.	Integrated nutrient management in Cotton & Wheat	Most of the farmer have adopted the use of micro nutrient viz. ZnSO4 & MgSO4 in Cotton & ZnSO4 in Wheat
4.	Weed management in Wheat & Cumin	Majority of the farmers have adopted the integrated weed management practices
5.	Micro irrigation system	-Some of the farmers have adopted the MIS in horticultural crops -Day by Day area under MIS increased significantly
6.	Colostrums feeding in calf raising	Most of the live stock keepers have adopted the use of colostrums feeding technology
7.	Termite control in wheat with seed treatment by pesticide i.e Chlorpyriphos 20EC @ 450ml./100 kg seed / 5 lit. water before sowing	-Majority of the farmer are applied seed treatment by pesticide for termite control

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

Technical personnel's of the KVK have carried out the follow up study of the Ex-trainees to see the effectiveness or adoption of the technologies which were imparted during the previous years by different extension activities.

In addition to follow up study Ex-trainees meeting of the farmers & farm women also carried out at KVK for impact analysis of KVK activities

5 LINKAGES

5.1 Functional linkage with different organizations

Sr. No.	Name of Organization	Nature of Linkage
1.	Sardarkrushinagar Dantiwada Agril. University, S.K.Nagar	-Linkage for seasonal training cum workshop of kharif, Rabi and summer crops. -Linkage for various demonstration of farm technology. -Linkage for diagnostic services -Technical guidance
2.	Agril. Department Gujarat State, Patan	-Linkage for exchange of information regarding farming. -Linkage for training programme of seasonal crops for practicing farmers. -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 Dudhsagar Dairy, Mehsana	-Linkage for training of management of milking animal & steps to solve the burning problem of cattle owner. -Linkage for training to Ext. functionaries.
6.	Dept. of Horticulture Gujarat State, Patan	To create awareness regarding different schemes of Horticulture development. -To increase the awareness about protective cultivation in shade net
7.	Farmers Training Centre, Patan	-linkage for imparting training to farmers & farm women & rural youth
8.	ICDS Patan	In-service training programme and sponsored training programme
9.	ATMA Patan	-Seasonal training programme -Demonstration of Agril. technology
10.	IWMP, Patan	Imparting training to the extension functionaries, farmers & farm women about soil reclamation & other enterprises
11.	NABARD, Patan	Training to members of farm science club

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

Name of the scheme	Date/Month of initiation	Funding agency	Amount (Rs.)
-	-	-	-

5.3 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	

5.4 Give details of programmes implemented under National Horticultural Mission

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

5.5 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. No	Demonstration unit	Year of estt.	Area	Details of production			Amount (Rs.)	
				Variety	Produce	Qty	Cost of inputs	Gross income
1.	Nursery	2010-11						
	Tobacco		300sq.mt	G.C.T-4	Seedling (No.)	43500	1800	8700=00
	Ornamental plants		-	-	Sapling (No.)	467	600	4670=00
	Lime		-	Kagzi Lime	Sapling (No.)	3175	1500	51285=00
	Chilli			G.C.-3	Seedling (No.)	30000	250	3000=00
2.	Orchard							
	Pomegranate	2012-13	3500sq.mt.	Sinduri	Plants	216	3500	-
3.	Vermi compost	2003-04	-	-	Compost (kg.)	500	200	1500=00

6.2 Performance of instructional farm (Crops) including seed Production

Name of the crop	Date of sowing	Date of harvest	Area (ha.)	Details of production			Amount (Rs.)		Remark
				Variety	Type of produce	Qty. (qt.)	Cost of inputs	Gross income	
Castor	11/8/12	-	2.0	G.C.H.-7	Bulk	61.40	9025/-	262338/-	-
Mustard	18/10/12	4/3/13	1.5	G.M.-3	Bulk	17.00	5114/-	51785/-	-
Tobacco	18/11/12	30/4/13	1.75	G.C.T.-4	Bulk	51.38	13468/-	275406/-	-
Wheat	7/12/12	4/4/13	1.5	G.W.-496	Seed	29.86	5695/-	41057/-	-
S.Bajara	15/4/13	8/7/13	0.5	Pioneer 86 M52	Bulk	9.98	2812/-	10130/-	excess rain
Cotton	22/6/13	-	1.5	BT.Cotton	Bulk	5.73	8597/-	30583/-	excess rain
Guar	23/6/13	20/11/13	3.75	G.G.-4	Seed	7.50	1430/-	29512/-	excess rain

Name of the crop	Date of sowing	Date of harvest	Area (ha.)	Details of production			Amount (Rs.)		Remark
				Variety	Type of produce	Qty. (qt.)	Cost of inputs	Gross income	
Til	24/6/13	-	1.5	Ganesh	Seed	-	600/-	-	Failed due to excess rain Through out the season
Green-gram	25/6/13	-	0.75	G.M.-4	Seed	-	770/-	-	
Castor	13/8/13 to 19/8/13	-	4.75	G.C.H.-7	Bulk	-	14856/-	-	Crop is standing position
Mustard	19/10/13	13/3/14	1.25	G.M.-3	Bulk	-	3318/-	-	Product yet to sale
Tobacco	18/11/13 to 26/11/13	-	1.25	G.C.T.-4	Bulk	-	12564/-	-	Crop is standing position
Wheat	9/12/13	-	0.50	G.W.-496	Seed	-	4797/-	-	Crop is standing position
S.Bajara	3/3/14	-	1.00	-Pioneer 86 M11 -Nandi-61	Bulk	-	4743/-	-	Crop is standing position

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
-	-	-	-	-	-

6.4 Performance of instructional farm (livestock and fisheries production)

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

6.5Utilization of hostel facilities

Accommodation available (No. of beds) = 30

Months	Title of the training course/Purpose of stay	No.of trainees stayed	Trainee days (days stayed)	Reason for short fall
April-2013 25/4/13 to 30/4/13	Rural Agricultural works experience for under graduate student of SDAU,	10	60 *	-
Total		**10**	**60**	**-**
May-2013 1/5/13 to 9/5/13	Rural Agricultural works experience for under graduate student of SDAU,	10	80	-
10/5/13 to 24/5/13	Rural Agricultural works experience for under graduate student of SDAU,	10	140	-
Total		**20**	**220**	
June-2013 4/6/13 to 6/6/13	Fruit & vegetable preservation ATMA, Junagadh	30	60	-
Total		**30**	**60**	**-**
December-2013 14/12/13 to 31/12/13	Kendra Nivas, Vedchhi	03	51	-
Total		**03**	**51**	**-**
January-2014 1/1/14 to 15/1/14	Kendra Nivas, Vedchhi	03	42	-
2/1/14 to 21/1/14	Kendra Nivas, Vedchhi	03	57	
1/1/14 to 31/1/14	Kendra Nivas, Ratanpur	02	60	-
28/1/14 to 31/1/14	Vocational training programme	17	68	-
Total		**25**	**227**	**-**
February-2014 1/2/14 to 4/2/14	Vocational training programme	17	51	-
Total		**17**	**51**	**-**
March-2014 7/3/14 to 8/3/14	Fruit & vegetable preservation	20	20	-
13/3/14 to 14/3/14	Scientific cultivation of Okra	14	14	-
14/3/14 to 15/3/14	Plant Protection measures in Raising the seedling of fruits & vegetables crops	17	17	-
Total		**51**	**51**	**-**
Grand Total		**156**	**720**	**-**

DEMONSTRATION UNIT

NURSERY UNIT

VERMI COMPOST UNIT

CROP PRODUCTION

MUSTARD VARIETY-G.M.-3

TOBACCO VERIETY-DCT-4

DIGNITORY VISIT TO K.V.K.

D.E.E., S.D.A.U.

Mr.DILIP PANDYA, M.P.GUJARAT

7 FINANCIAL PERFORMANCE

7.1 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

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

Item	Released By ICAR		Expenditure		Unspent balance as on 1st April 14
	Kharif 2013-14	Rabi 2013-14	Kharif 2013-14	Rabi 2013-14	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
Total	-	-	-	-	-

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

Item	Released By ICAR		Expenditure		Unspent balance as on 1st April 2014
	Kharif 2013-14	Rabi 2013-14	Kharif 2013-14	Rabi 2013-14	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
Total	-	-	-	-	-

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

Item	Released By ICAR		Expenditure		Unspent balance as on 1st April 2014
	Kharif 2013-14	Rabi 2013-14	Kharif 2013-14	Rabi 2013-14	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
Total	-	-	-	-	-

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

(1) KVK funds during the year-2012-13

Sr. No	Particulars	Sanctioned (In lacs)	Released	Progressive Expenditure up to 31st March-13
A.	**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
i.	Establishment of soil, plant & water testing laboratory	-	-	-
j.	Library	-	-	-
	TOTAL –A	**77.50**	**77.50**	**75,59,178=00**
1.	Works	00.00	-	-
2.	Equipments including SWLT & Furniture	00.00	-	-
3.	Vehicle (Four wheeler/ Two wheeler)	00.00	-	-
4.	Library (Purchase of assets like books & journals)	00.00	-	-
	TOTAL- B	**00.00**		
C.	**REVOLVING FUNDS**	**00.00**	**-**	**-**
	GRAND TOTAL (A+B)	**77.50**		

(2) KVK funds during the Year-2013-14

Sr. No	Particulars	Sanctioned (In lacs)	Released	Progressive Expenditure up to 31st March-14
A.	**RECURRING CONTIGENCES**			
1.	Pay and allowance	73.00	73.00	73,62,820=00
2.	Traveling allowance	01.00	01.00	25,975=00
3.	Contingencies			
a.	Stationery, telephone, postage and other expenditure on office running publication of Newsletter and library maintenance (Purchase of News paper & Magazines)	3.30	3.30	1,99,973=00
b.	POL, repair of vehicle, tractor and equipment			1,23,708=00
c.	Meals/refreshment of trainees (ceiling up to Rs.40=00 day/trainees be maintained)	04.95	04.95	80,954=00
d.	Training materials (Postage, chards, demonstration materials including chemicals etc required for conducting the training			38,632=50
e.	Front Line demonstration except oilseed and pulses (Minimum of 30 demonstration)			1,51,649=00
f.	On farm testing (On need based location specific and newly generated information in the production system on the area)			13,580=00
g.	Training of extension functionaries			16,846=00
h.	Maintenance of building			42,237=00
i.	Establishment of soil, plant & water testing laboratory			-
j.	Library			-
	TOTAL –A	**82.25**	**82.25**	**80,56,374=50**
1.	Works	-	-	-
2.	Equipments including SWLT & Furniture	-	-	-
3.	Vehicle (Four wheeler/ Two wheeler)	-	-	-
4.	Library (Purchase of assets like books & journals)	-	-	-
	TOTAL- B	**-**	**-**	**-**
C.	**REVOLVING FUNDS**	**-**	**-**	**-**
	GRAND TOTAL (A+B)	**82.25**	**82.25**	**80,56,374=50**

7.6. Status or revolving fund (Rs. In lakhs) for the three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April-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
April-2013 to March-2014	1,56,792=00	8,23,787=00	4,85,351=00	4,95,228=00

8 PLEASE INCLUDE INFORMATION WHICH HAS NOT BEEN REFLECTED ABOVE (WRITE IN DETAIL)

8.1 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 CENSUS

SOURCE : **(1) Statistics Department District Panchayat, Patan**

(2) Strategic Research and Extension Plan, ATMA, District : Patan

AREA & POPULATION AS PER CENSUS -2011

Sr.No.	Name of Taluka	Area Sq.km.	Total population	Population density/sq.km.	No.of village	No.of cities
1.	Patan	1011.2	430784	426	139	01
2.	Sidhpur	443.6	214219	482	55	01
3.	Chanasma	448.6	144091	321	60	01
4.	Harij	377.38	96375	255	39	01
5.	Sami	1513.8	187245	123	98	00
6.	Radhanpur	559.05	136423	247	55	01
7.	Santalpur	1350.6	133609	98	73	00
	Total	5703.6	1342746	234	519	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	134082	47.71
2.	50,000 to 99,999	01	20	68601	24.41
3.	20,000 to 49,999	02	40	59706	21.25
4.	10,000 to 19,999	01	20	18647	6.64
5.	5,000 to 9,999	00	00	00	00
6.	5,000 and above	00	00	00	00
	Total	05	100	281036	100

URBAN POPULATION AS PER CENSUS-2011

Sr.No.	Name of Taluka	No.of cities	Urban Population		
			Male	Female	Total
1.	Patan	01	70688	63394	134082
2.	Sidhpur	01	35528	33073	68601
3.	Chanasma	01	9715	8932	18647
4.	Harij	01	11462	10304	21766
5.	Sami	00	00	00	00
6.	Radhanpur	01	19763	18177	37940
7.	Santalpur	00	00	00	00
	Total	05	147156	133880	281036

NAME OF VILLAGE MORE THAN 5000 POPULATION AS PER 2011 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-2011

Sr. No.	Name of taluka	Rural Urban	SC				ST			
			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 AGRICULTURAL AND ALLIED CENSUS

(I) LAND CLASSIFICATION

1. Total Geographical area of the district : 566772 ha.
2. Total cultivation area of the district : 447438 ha.
3. Uncultivated land : 15538 ha.
4. Forest land : 46526ha.
5. Pasture Land : 28341ha.
6. Fallow land : 34002 ha.
7. Irrigated land : 1,24,800 ha.
8. Non irrigated land : 3,22,638 ha.

(II) LIVE STOCK POPULATION

1. Cattle : 131023
2. Buffalo : 363514
3. Sheep : 53750
4. Goat : 102937
5. Horse : 691
6. Camel : 3639
7. Pig : 131
8. Poultry : 22079
9. Donkey : 3333

(III) MILK CO-OPERATIVE SOCIETY OF THE DISTRICT

Sr.No.	Name of the taluka	No.of the milk co-operative society
1.	Patan	139
2.	Sidhpur	63
3.	Chanasma	61
4.	Harij	44
5.	Sami	87
6.	Radhanpur	57
7.	Santalpur	64
	Total	**515**

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

Sr.No.	Name of Taluka	Chilli	Fennel	Cumin	Isabgul	Spice & condiment
1.	Chanasma	18	4974	1190	25	2377
2.	Harij	-	60	1748	32	705
3.	Patan	46	735	1369	62	2500
4.	Radhanpur	-	35	10222	-	965
5.	Sami	-	12	17195	-	4742
6.	Santalpur	-	-	8728	-	983
7.	Sidhpur	158	384	1258	91	394
	Total	**222**	**6200**	**41710**	**210**	**12666**

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

Sr.No.	Name of Taluka	Fruits	Potato	Vegetables	Total fruits vegetable
1.	Chanasma	274	01	246	521
2.	Harij	227	-	154	381
3.	Patan	556	191	1731	2478
4.	Radhanpur	130	-	194	324
5.	Sami	334	-	182	516
6.	Santalpur	36	-	147	183
7.	Sidhpur	335	635	627	1597
	Total	**1892**	**827**	**3281**	**6000**

(VI) AREA UNDER OILSEED CROPS

Sr.No.	Name of Taluka	Total area
1.	Chanasma	7605
2.	Harij	9989
3.	Patan	16072
4.	Radhanpur	13200
5.	Sami	20835
6.	Santalpur	19300
7.	Sidhpur	7525
	Total	**94526**

AGRO-ECOSYSTEMS

Sr. No.	AES	Soil Type	Rainfall (mm)	Taluka
1.	Alluvial Sandy soil with low rainfall	Sand and Loamy sand	500-700	Patan, Sidhpur
2.	Saline soil with low Rainfall	Sandy Loam Saline	500-700	Chanasma
3.	Salt affected soil	-	400-500	Harij, Sami, Radhanpur, Santalpur

MAJOR PRODUCTION SYSTEMS

Cotton based	Cotton – fallow	Cotton-Mustard-Summer Bajara	
	Cotton – Wheat		
	Cotton – Bajara		
Castor based	Castor- Fallow		
Other	Kharif	Rabi	Summer
	Bajara	Mustard	Fallow
	Black gram	Wheat	Bajara
	Seasamum	Cumin	Sorghum
	Green-gram	Tobacco	Fallow
	Sorghum	LucerneBajara	
	Mothbean	Potato	Bajara
	Fallow	Dill seed	Fallow
	Fallow	Safflower	-
	Fallow	Gram	-

MAJOR AGRICULTURE AND ALLIED ENTERPRISES

Sr.No.	Name of enterprises	No.of Registered factory
1.	Agriculture production industries	16
2.	Food product	12
3.	Tobacco	05
4.	Wood & wooden product	04
5.	Rubber plastic petrol and coal product	04
6.	Chemical production	04
7.	Non metal mineral product	14
8.	Textile	19
9.	Paper	02
10.	Metal product	06

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**

   Methan, Mithadharva, Charup, Hajipur, Zilwana, Kayan, Matrota, Lanva, Islampur, Danodarda, Khimiyana, Ganeshpura, Ganglasana, Der, Nedroda, Kungher, Ankvi, Chaveli, Kimbuva, Kalyana

2. **Survey method used**

   -Survey by questionnaires
   - PRA

3. **Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map etc.**

   -Survey regarding agricultural technology were administered to the farmers for Identifying the technological gaps and training need assessment.

4. **Analysis and conclusions**

   ------

5. **List of location specific problems and brief description of frequency and extent/ intensity/ severity of each problem**

   -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 (Fruit & 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

6. **Matrix ranking of problems**

   1. Inadequate irrigation water
   2. Salt affected soil
   3. Average productivity of major crops is low
   4. Calving interval is too long in buffalo.
   5. Average milk production per animal is low
   6. No storage facility
   7. Low market price at the time of harvesting
   8. Average land holding is low
   9. Low income of landless agriculture laboures

7. List of location specific thrust areas

(a) Average productivity of the major crops is low.

Castor

-IPDM

-Alternate furrow method of irrigation

Wheat

-Weed management

-Termite control

-Irrigation at critical stages.

Mustard

-Use of sulphatic fertilizer

-Plant protection – powdery mildew & aphid control

-INM

Cumin

-IDM

-Weed management

Cotton

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

-INM

Green-gram

-Use of high yielding & improved variety G.M.-4

(b) Salt affected soil

-Use of soil amendments

-Use of organic manures.

(c) Inadequate irrigation water

-Adoption of less water required crops

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

(d) Average milk production per animal is low

-Fodder management

- Breed selection

- Up gradation of local breed

(e) Low market price at the time of harvesting

-Value addition of fruits & vegetables

(f) Deterioration of food grain

-Storage of food grain by scientific method.

8. List of location specific technology needs for O.F.T. and F.L.D.

1. Improved & high yielding varieties of major crops

Castor	:	G.C.H.-7
Mustard	:	G.M.-3
Green-gram	:	G.M.-4
Wheat	:	G.W.-322, G.W.-366
Cotton	:	B.t. Cotton
Fennel	:	G.F.-2 (Kharif), G.F.-11 (Rabi), G.F.-12 (Rabi)
Cumin	:	G.C.-4
Cluster bean	:	Pusa Navbahar (Vegetable)

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
4. Spraying schedule for disease management
5. Integrated nutrient management

9. Matrix ranking of technologies

I. Improved & high yielding varieties of major crops
II. Water conservation technique
III. Integrated Nutrient management
IV. Integrated pest & diseases management
V. Weed management
VI. Protected cultivation
VII. Storage loss minimization
VIII. Post harvest technology

10. 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	Year of release or recommen-dation of technology	Source of technology	Reference/ citation
1.	G.C.H.-7 -High yielding & wilt resistant variety	Castor	2006	S.D.A.U.-S.K.Nagar	
2.	G.M.-4 -High yielding variety	Green-gram	2002	S.D.A.U.-S.K.Nagar	
3.	G.H.B.-558, G.H.B.-538 -High yielding variety	Bajra		J.A.U., Junagadh	
4.	Use of sulphar in Mustard G.M.-3 -High yielding variety	Mustard		S.D.A.U.-SKNagar	
5.	Guj.Cumin-4 -Wilt resistant variety - Spraying schedule of fungicide for disease management	Cumin	2003	S.D.A.U.-SKNagar	
6.	High yielding variety G.W.-322, G.W.-366 -Use of pendemithylene weedicide in Wheat	Wheat	2006	S.D.A.U.-SKNagar	
7.	Seed production technology 1. Wheat-G.W.-496 & 322 2. Mustard-G.M.-3	Wheat Mustard		S.D.A.U.-SKNagar	
8.	Integrated pest management	Chilli Cotton Castor		S.D.A.U.-SKNagar	
9.	Weed management in Cumin by fluchloraline weedcide	Cumin		S.D.A.U.-SKNagar	
10	INM in Cotton	BT Cotton		S.D.A.U.-SKNagar	
11	G.F.-11 & G.F.-12	Fennel	2010	S.D.A.U.-SKNagar	
12	Pusa Navbahar	Clusterbean		S.D.A.U.-SKNagar	

ACTIVITY CHART

Crop/ Animal enterprise	Problem	Cause	Solution	Activity	Reference of technology
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 -Field day	S.D.A.U.-S.K.Nagar
Castor	Wilt & root rot incidence	-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-7variety -Training -Field day	S.D.A.U.-S.K.Nagar
Cotton	Low productivity of Cotton	-Sucking pest infestation -Lack of knowledge regarding plant protection measures	-To create awareness regarding BT.Cotton cultivation -To provide knowledge regarding plant protection measures -INM	-FLD on BT Cotton -Training regarding production technology & plant Protection measures -OFT	S.D.A.U.-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 -Sulphur fertilizer	-FLD on GM-3 variety -Training regarding production technology -Field day	S.D.A.U.-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 -Use of Bio-fungicide	-FLD on GM-4 variety -Training regarding production technology & P.P. measures -OFT on wilt disease management	S.D.A.U.-S.K.Nagar
Wheat	Low yield of Wheat	Termite infestation in Wheat -Use of local variety	-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	-S.D.A.U .–S.K.Nagar

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 -Bahar treatments	-Training & method demonstration for Bordaux paste -O.F.T.	-S.D.A.U., S.K.Nagar

DETAILE OF EACH OF THE TECHNOLOGY UNDER ASSESSMENT, REFINEMENT AND DEMONSTRATION INCLUDE

a. Details account on varietal/ breed characters for each of the variety / breed selected for FLD and OFT

Sr.No.	FLD/OFT input Crop	Variety	Characters
1.	Castor	G.C.H.-7	Variety released in the year 2006. It is the cross between SKP-84 and SKI -214 potential yield of variety is 3000kg/ha. Plants have red stem, capsule with medium spine. Plant height is medium tall and horizontal spread is high so harvesting is easy. It is resistant against wilt and nematode while tolerant against root rot disease.
2.	Cumin	G.C.-4	Variety released in the year 2003. Potential yield of the variety is 1250kg/ha., Plant height 27.3cm, No. of branches per plant 7.4., No. of the umbels per plant 35, test weight 4.9g., oil content 4,53% , crop mature in 113 days. It is resistant against wilt disease.
3.	Fennel	G.F.-12	Variety released in the year 2010. It is recommended for both Kharif and Rabi season. Potential yield of the variety for Kharif transplanting 2588 kg./ha., While 1875kg./ha. For Rabi season, Plant height is 144.7 cm., branches per plant 5.8, umbels per plant 12.2, test weight 6.19gm. and oil content 2.05%. It have synchronize maturity hardy stem which decrease lodging problem. It matures in 151-160 days in Rabi while 197-205 days in Kharif transplanted
4.	Summer vegetable Guar	Pusa Navbahar	Potential yield of variety is 12000 to 16000kg./ha green pod. Pod comes in bunches. Pod length 15cm. long, sword shape and smooth surface so highly acceptable for vegetable purpose. Seed size in pod is small. First picking come after 40-45 days. It is moderately tolerant to bacterial blight.
5.	Wheat	G.W.-366	Variety released in the year of 2006. Plant have erect growth habit, Plant height is 92 cm, heading stage is comes after 69 days, test weight is 49g. Grain is amber colour , hard textured, rounded oval shape. It matures in 117 days.

Sr.No.	FLD/OFT input Crop	Variety	Characters
6.	Green-gram	G.M.-4	Variety released in the year 2002. Potential yield of the variety is 859 kg./ha., Medium tall height, Pods comes in bunches which facilitate, harvesting. It is suitable for both Kharif and summer season. It moderately tolerant to yellow vein mosaic virus.

b. Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc. for technologies selected under FLD and OFTs

Technology selected for OFT :-

Use of Bio-fungicide i.e. Trichoderma for wilt disease management in Cumin.

- Seed treatment by Trcihoderma @ 20 g./1 kg. seed before sowing.
- Soil application of Trichoderma @ 3 kg./ha. Along with 500kg. vermi compost at the time of sowing.

c. Details of location/ area specificity of recommended technology viz. for each of the variety / breed/ technology selected for FLD and OFT

Sr.No.	OFT/FLD (Crop)	Technology input (Variety/ technology)	Recommended area
1.	Castor	G.C.H.-7	Whole Gujarat state
2.	Green-gram	G.M.-4	Gujarat State
3.	Cumin	G.C.-4	Gujarat & Rajasthan
4.	Fennel	G.F.-12	Gujarat State
5.	Wheat	G.W.-366	Central zone of India and Gujarat State
6.	Summer vegetable Guar	Pusa Navbahar	All India
7.	Cumin	Trichoderma	All India