ANNUAL PROGRESS REPORT

1ST APRIL-2014 TO 31ST MARCH-2015

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-2014 TO 31ST MARCH-2015)

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 285199	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 I/C P.C. Since 1/11/2013	9426521484	9426521484	kvksamoda@yahoo.com

1.4. Year of sanction: Year-1993

1.5 Staff Position (as on 31th March-2015)

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	33840/-	8/5/1993	Permanent	General
3.	Subject Matter Specialist	Shri G.A.Patel	S.M.S.	Plant Protection	15600-39100	33840/-	6/5/1993	Permanent	General
4.	Subject Matter Specialist	Smt. H.B.Patel	S.M.S.	Home Science	15600-39100	28510/-	19/8/2002	Permanent	General
5.	Subject Matter Specialist	Shri S.S. Darji	S.M.S.	Horticulture	15600-39100	22280/-	2/4/2012	Permanent	OBC
6.	Subject Matter Specialist	-	-	-	-	-	-	-	-
7.	Programme Assistant	Shri D.N.Patel	Programme Assistant	-	9300-34800	23120/-	22/2/1996	Permanent	General
8.	Programme Assistant	Smt. J.N.Patel	Programme Assistant	-	9300-34800	22690/-	27/7/1996	Permanent	General
9.	Computer Programmer	Shri D.R.Patel	Computer Programmer	-	9300-34800	21160/-	6/5/1993	Permanent	General
10	Accountant/O. S.	Shri N.B.Patel	Accountant/O. S.	-	9300-34800	24230/-	25/1/1996	Permanent	General
11	Steno/ Jr.Clerk	Shri J.K.Patel	Steno/ Jr.Clerk	-	5200-20200	10890/-	25/1/1996	Permanent	General
12	Driver	Shri R.A.Patel	Driver	-	5200-20200	9090/-	14/8/2010	Permanent	General
13	Supporting Staff	Shri R.H.Desai	Supporting Staff	-	5200-20200	10300/-	14/5/1993	Permanent	OBC
14	Supporting Staff	Shri R.D.Thakor	Supporting Staff	-	5200-20200	10300/-	25/1/1996	Permanent	OBC
15	Supporting Staff	Shri K.A.Patel	Supporting Staff	-	5200-20200	10300/-	25/1/1996	Permanent	General
16	Supporting Staff	Shri P.V.Parmar	Supporting Staff	-	5200-20200	10300/-	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	133524	OK
Motorcycle	2010-11	49,695=00	36144	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
Oven	2014	7200=00	OK
Sewing Machine	2014	8700=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.) 23/3/2015	Action taken of SAC Dt. 28/2/2014
1.	23/3/15	Shri L.V.Patel Director, KVK Dr. P.P.Rohilla Z.P.D., Zone-VI, Jodhpur Shri R.K.Chaudhary Dy. Director of Agril. And Project Director of ATMA,Patan Dr.N.B.Gadhavi Dy. Director of Animal Husbandry, Patan Smt. Joshi Rekhaben C.D.P.O., Sidhpur Smt. Patel Dipikaben A. N.H.M. Co-ordinator Shri D.B.Patel Agril. Officer Shri N.V.Patel Horticulture Officer Shri J.K.Patel Manager G.S.F.C. Depo, Sidhpur Shri D.K.Parmar Assist. Director of G.L.D.C. Shri Mayank S.Patel Assist. Director, F.T.C. Dr. M.V.Patel P.C., KVK, Mehsana Shri Thakor Prabhatsinh Progressive Farmer Shri Rajput Janaksinh Progressive Farmer	➢ To conduct at least 2 OFT of each discipline ➢ To recruit the post of SMS of the livestock production management ➢ To impart training & motivate the farm women for kitchen gardening ➢ Impact assessment study of each discipline should be carried out ➢ Strong functional linkage should be developed with ATMA & Other department of Agriculture ➢ To organize training programme on Nursery raising of vegetable crops. ➢ To organize more No.of training programme for live stock production & management with the help of state animal husbandry department/ SMS of nearby KVK. ➢ To organize training programme for Anganwadi worker on child health care & nutrition. ➢ To Create awareness regarding the various scheme of state agricultural & animal husbandry department	➢ KVK have implemented kisan mobile advisory for farming community. ➢ Vocational training programme on Tailoring course in women & children garments and Bakery products have been organized for income generation activities. ➢ Training programme on live stock production & management have been arranged with the help of SMS of nearby KVK & state Animal Husbandry Department. ➢ Training programme on Importance & scope of kitchen garden were organized for farm women. ➢ With a view to promote organic farming, KVK have organized 4 training programme for farmers ➢ Qualitative seedling & saplings of Tabacco, Chilli, Kagzi lime, Papaya, Pomegranate were raised at KVK and provided to the farmers ➢ Considering the demand of farmers for the seedlings of GCT-4 variety of Tobacco. KVK have raised the

		Smt. Ullasben V.Rajput Progressive Farm women Shri H.P.Patel I/c P.C., KVK, Patan Shri G.A.Patel S.M.S. (P.P.) Shri S.S.Darji S.M.S. (Horti.) Smt. H.B.Patel S.M.S.(Home Science)	➢ To raise the qualitative seedlings of vegetable & provide the farming community. ➢ To organize training programme on soil reclamation ➢ To create awareness regarding use of organic matter & FYM to maintain soil fertility. ➢ To organize training programme on soil & water conservation.	seedlings of Tobacco on large scale & provide to the farmers ➢ Method demonstration of farm implements were organized to motivate the farm mechanization. ➢ Vocational training programme have been organized for rural youth like Nursery raising of fruits & vegetable and tailoring of women & children garments.

SCIENTIFIC ADVISORY COMMITTEE MEETING DT.:23/3/2015

2 DETAILS OF DISTRICT (2014-15)

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

S. No	Farming system/enterprise
1.	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 Climatic 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

Description of taluka based on agro ecological situations of North Gujarat and North, west Gujarat agro climatic zone

Sr. No.	Agro ecological	Soil texture	Rainfall mm	Special features	Principal crops	Taluka cover
1.	Alluvial sandy soil with low rainfall	Loamy sand to sandy loam	500-700	Low rainfall dry climate	Castor, Mustard, Bajra, Cotton, Sorghum	Sidhpur :89.56% Patan :79.9%
2.	Saline soil with low rainfall	Sandy loam saline soil	500-700	Low rainfall, dry climate, and absence of vegetative cover	Cotton, Castor, Bajra, Pulses	Chanasma : 78.64%
3.	Salt affected soil	Medium black saline soil	400-500	Low rainfall dry climate and absence of vegetative cover	Bajra, Sorghum, Cumin, Gram, Cotton	Harij : 65.45% Sami :84.32% Radhanpur : 81.54% Santalpur ; 90.98%

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 (00ha.)	Production(00mt.)	Productivity(kg. /ha)
1.	Kharif Bajra	426	249	585
2.	Green-gram	96	42	434
3.	Black-gram	111	61	550
4.	Castor	859	1491	1737
5.	Sesamum	31	51	495
6.	Cotton -Irrigated (lint)	281	1405	850
	Cotton – Un irrigated (lint)	374	294	134
	Total -Cotton	655	1699	441
7.	Gaur seed	78	48	618
8.	Wheat-Irrigated	422	1414	3353
	Un irrigated	17	16	922
	Total -Wheat	439	1430	3259
9.	Gram	136	86	628
10.	Mustard	296	464	1569
11.	Cumin	353	188	532
12.	Fennel	58	86	1497
13	Potato	06	143	22632

2.5 Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April-14	-	38.52’	25.01’	-
May-14	-	42.22’	30.17’	-
June-14	-	40.58’	29.41’	-
July-14	273 mm	34.75’	25.84’	-
August-14	138 mm	30.92’	21.93’	-
September-14	567 mm	38.56’	28.66’	-
Oct.-14	-	33.05’	23.20’	-
Nov.-14	-	28.46’	17.05’	-
Dec.-14	-	25.46’	15.70’	-
Jan.-15	-	26.74’	13.84’	-
Feb.-15	-	29.31’	16.04’	-
March-15	27 mm	31.92’	20.34’	-

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

Category	Population	Production	Productivity
Cattle			
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	-	-	-
Crossbred	-	-	-
Indigenous	102937	6000 tones	0.441 kg/day
Goats	-	-	-
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	-	-	-
Shrimp	-	-	-

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

Sr. No.	Taluka	Name of the block	Name of the Village	Major crops & enterprises	Major problem identified	Identified thrust area
1.	Sidhpur Patan Chansma	Patan	Varsila, Ganeshpura, Mudvada, Nedra, Chandravati, Ganglasan, Chandansar, Dhanawada Mesar, Ruvavi, Golapur, Hajipur, Muna Maniyari, Pimpal, Ambapura Vadavali	Castor Cotton Mustard Wheat Bajra Cumin Fennel Tobacco Carrot Pomogranate Kagzi lime	-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, and citrus canker & dieback in lime -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	Gujarwada, Mubarakpura Gochnad Sodhav, Boratwada Nayatwada, Bhilot, Kamalpur Sinad Varahi	Cumin Gram Guar Castor Wheat		

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 Improvement of local breed
Pomegranate and Lime	Integrated nutrient management Integrated pest & disease management

3 TECHNICAL ACHIEVEMENTS

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

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
06	06	60	49	12	09	330	399

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.	97	87	1990	2115	50	52	2000	2001
Rural youth	07	07	105	115	-	-	-	-
Extn. Functionaries	08	04	160	97	-	-	-	-

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 GW-366	20	11.20	Lime (kagzi lime)	5000	4500	Vermi compost	-	4000
			Pomegranate	1000	250	-	-	-
			Papaya	2000	1000	-	-	-
			Tobacco	3.0 lakh	1.0 lakh	-	-	-
			Chilli	1.0lakh	10000	-	-	-

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	Varietal evaluation with G.Cott.Hy.-8 BG-II	-Integrated pest & disease management -Integrated Nutrient management -Weed management	-Latest know how about agricultural technologies	-Training -Demonstration -Field day	-Seed
		Castor	-Wilt & root rot disease incidence -Semi looper & proderia infestation	-	-Introduction of wilt & root rot resistance variety GCH-7	-Production technology -IPM & IDM -INM	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-Seed
		Mustard	-Deficiency of sulphur -Use of local variety -Aphid & powdery mildew	-	Varietal evaluation - GDM-4 -INM -Sulphar	-Integrated nutrient management -Integrated pest & disease management	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-Seed sulphar element
		Green-gram	-Use of local variety -No use of phosphatic fertilizer	-	Introduction of Improved & high yielding variety G.M.-4	-Cultivation practices -Importance of phosphatic fertilizer in pulse crop	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-Seed -PSB culture

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.
		Black-gram	-Use of local variety -No use of phosphatic fertilizer	-	Introduction of Improved & high yielding variety Guj.Urid-1	-Cultivation practices -Importance of phosphatic fertilizer in pulse crop	-Latest know how about agricultural technologies	-Training -Field day -Demonstration	-Seed
		Wheat	-Use of local variety -Termite infestation -Micro nutrient deficiency	Low yield of wheat -Low yield due to termite infestation of wheat	-Introduction of high yielding variety GW-366 -INM	-Cultivation practices -Integrated pest management -Integrated nutrient management	-Latest know how about agricultural technologies	-Training -Field day -Demons-tration	-Seed -ZnSO4 -Insecticide Fipronil 5% SC
		Cumin	-Use of local variety -Wilt & blight incidence	-Incidence of wilt disease	Introduction of high yielding & disease resistant variety GC-4 With fungicide Mancozeb	-Scientific cultivation of cumin -Integrated pest & disease management	-Latest know how about agricultural technologies	-Training -Field day -Demons-tration	-Seed -Bio-fungicide -Fungicide
		Fennel	-Use of local variety -Sugary disease	-	Introduction of high yielding variety GF-11 With fungicide Mancozeb	-Scientific cultivation of fennel -Integrated pest & disease management -INM	-Latest know how about agricultural technologies	-Training -Field day -Demons-tration	-Seed -Fungicide Mancozeb
		Carrot	-Disease incidence -Use of Local variety	Low yield of carrot	Varietal evaluation with Pusa Rudhira variety	-Scientific cultivation of Carrot	-Latest know how about agricultural technologies	-Training -Field day -Demon-stration	-Seed
		Lime	-Low yield -Disease incidence	Low yield of Lime in summerseason	-	Scientific cultivation of kagzi lime	-	Training	Cycocel Flowering inducing harmon

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.
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	-
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	-

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.
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	-
8.	Unavaibility of agril. labourer	Ag.Engineering	Scarcity of Agril.labour	-	-	Scope & importance of farm mechanization of Agriculture	-	-Method Demonstration	-
9.	Unawareness about solar enery-solar cooker	Home Sicence	Nutrient losses	-	-	Importance & method of using solar cooker	-	-Training -Method demonstration	

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	-	-	-	-	01	-	-	-	-	01
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	01	-	-	-	-	-	-	-	-	01
Integrated Disease management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL :	01	-	-	-	01	01	-	-	-	03

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	01	01	-	-	-	-	-	02
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	-	-	-	01	-	03

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 yield of Wheat
2.	Problem diagnose/ Defined	:	Low yield due to termite infestation
3.	Details of technology selected For assessment T1- Farmer practices - No seed treatment T2- Assessed technology - Seed treatment by Fipronil 5% SC@ 2 ml./50 ml. water/ 1 kg. seed before 8 hr. of sowing and soil application of Fipronil 5% SC @ 1.6 lit./ha. With irrigation water at grain formation stage.	:	
4.	Source of Technology	:	State Agril. University SDAU, S.K.Nagar
5.	Production system	:	-
6.	Thematic area	:	Integrated pest management
7.	Performance of the Technology with Performance indicators	:	Result showed that treatment No.2 (Assessed technology) recorded. Average yield 41.2 q./ha. and termite infestation about 3.6% with gross return Rs. 82400/ha. BCR (3.3) as compare to Tr.No.1 (Farmers practices) av. Yield 38.2 q./ha. and termite infestation about 10.2% with gross return Rs. 76400/ha. BCR (3.1)
8.	Final recommendation for Micro level situation	:	Continued for 2nd year
9.	Constraints identified and Feedback for research	:	--
10.	Process of farmer's Participation and their reaction	:	Farmers were activity participated for planning & execution of trails

11. Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No.of trials	Technology Assessed	Parameter
1	2	3	4	5	6	7
Wheat	Irrigated	Low yield due to termite infestation	Low yield of Wheat	08	Seed treatment by Fipronil 5% SC @ 2 ml./50 ml. water/ 1 kg. seed befor 8 hr. of sowing and soil application of Fipronil 5% SC @ 1.6 lit./ha. With irrigation water at grain formation stage	-Termite Infestation (%) -Yield (kg./ha.)

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./ ha.	BC Ratio
8	9	10	11	12		13	14
T1= 10.0% 3820 kg./ha. T2=3.6% 4120kg./ha.	Termite infestation 3.2% Increase in yield by 7.1% as compare to Treatment No.T1	Farmers are appreciated by refined technology	Soil of Wheat cultivation area is sandy to sandy loam, so termite infestation found much more	T1- Farmer practices - No seed treatment T2- Assessed technology - Seed treatment by Fipronil 5% SC@ 2 ml./50 ml. water/ 1 kg. seed before 8 hr. of sowing and soil application of Fipronil 5% SC @ 1.6 lit./ha. With irrigation water at grain formation stage.	T1=3820 T2=4120	51960 57210	3.1 3.3

A. Technology Assessment

(II) Trial – 2

1.	Title	:	Low yield of Carrot
2.	Problem diagnose/ Defined	:	Use of local variety
3.	Details of technology selected For assessment	:	

T1- Farmer practices
- Use of Patan local variety

T2- SAU Recommendation
- Use of Gujarat Dantiwada Carrot-1 variety

T3- Assessed technology
- Use of Pusa Rudhira variety

4.	Source of Technology	:	State Agril. University SDAU, S.K.Nagar, IARI, New Delhi
5.	Production system	:	-
6.	Thematic area	:	Integrated Crop management
7.	Performance of the Technology with Performance indicators	:	Result showed that treatment No.3 (Assessed technology) recorded. Average yield 301 qt../ha. which is 7.12% and 4.15% higher as compare to treatment No.1 and treatment No.2 respectively
8.	Final recommendation for Micro level situation	:	Continued for 2nd year
9.	Constraints identified and Feedback for research	:	--
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 trai

11. Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No.of trials	Technology Assessed	Parameter
1	2	3	4	5	6	7
Carrot	Irrigated	Use of Local variety	Low yield of Carrot	04	T1- Farmer practices -Use of Patan local variety	-Yield qtl./ha. -Income Rs./ha.
					T2- SAU Recommendation - Use of Gujarat Dantiwada Carrot-1 variety	-Yield qtl./ha. -Income Rs./ha.
					T3- Assessed technology - Use of Pusa Rudhira variety	-Yield qtl./ha. -Income Rs./ha.

Data on the parameter	Results of Refinement	Feedback from the farmer	Technology refined	Production per unit (qt./ha.)	Net Return (Profit) in Rs./ha.	BC Ratio
8	9	10	11	12	13	14
281 qt./ha 140500 Rs./ha.	Result showed that treatment No.3(Assessed technology) recorded. Average yield 301 qt../ha. which is 7.12% and 4.15% higher as compare to treatment No.1 and treatment No.2 respectively	Root colour of the variety GDC-1 & Pusa Rudhira is light red as compare to Patan Local variety	Use of Patan Local variety	281	91100	2.84
289 qt./ha 144500 Rs./ha.			Use of Gujarat Dantiwada Carrot-1 variety	289	94500	2.89
301qt./ha 150500 Rs./ha			Use of Pusa Rudhira variety	301	100830	3.03

B. Technology Assessment

(III) Trial – 3 Title : Low yield of lime in summer season - Result awaited

B. Technology Refinement

(IV) Trial – 4

1.	Title	:	Low income of Cotton
2.	Problem diagnose/ Defined	:	Lower income of cotton due to mono cropping
3.	Details of technology selected for Refinement	:	

T1- Farmers practices
- No relay cropping
- Sowing distance 4’ x 2’

T2- Refined technology
- Relay cropping with Castor
- Sowing distance 5’ x 2’

4.	Source of Technology	:	State Agril. University, SDAU, S.K.Nagar
5.	Production system	:	-
6.	Thematic area	:	Integrated crop management
7.	Performance of the Technology area	:	Result showed that treatment No.2 (Refined technology) recorded average yield of cotton 1980 kg./ha.+ Castor 1350 kg./ha. with income 1,49,625/ha. BCR (4.03) as compare to Tr.No.1 (Farmers practice) average yield of cotton 2325 kg./ha. With income Rs. 1,16,250/ha.
8.	Final recommendation for Micro level situation	:	Continued
9.	Constraints identified and Feedback for research	:	Relay cropping or inter cropping 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 Refine	Parameter of Refinement
1	2	3	4	5	6	7
Cotton+Castor	Irrigated	Lower income of cotton due to mono cropping	Low income of Cotton	10	No relay crop (Farmer practices) Relay cropping with castor	-Yield kg./ha. -Income (Rs./ha.)

Data on the parameter	Results of Refinement	Feedback from the farmer	Technology Refined	Production per unit	Net Return (Profit) in Rs. /ha.	BC Ratio
8	9	10	11	12	13	14
Cotton-2325kg./ha. Rs. 1,16,250/ha.	T1=Cotton : 2325 kg./ha. T2=Cotton : 1980 kg./ha. Castor : 1350 kg./ha. Increase in income by 28.7% in refined technology	Farmers are appreciated by relay cropping with Castor in Cotton	-No relay crop -Sowing distance 4’ x 2’	Cotton 2325kg./ha.	82840	3.47
Cotton- 1980 kg./ha. Castor-1350kg./ha. Rs. 1,49,625/ha.			-Relay cropping cotton + castor -Sowing distance 5’ x 2’	Cotton : 1980kg/ha. Castor : 1350 kg./ha.	112500	4.03

B. Technology Refinement

(V) Trial – 5

1.	Title	:	Disease management for control of wilt in Cumin
2.	Problem diagnose/ Defined	:	Incidence of wilt disease
3.	Details of technology selected for Refinement	:	

T1- Farmers practices
- No seed treatment

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

T3- Refined technology
-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	:	-
6.	Thematic area	:	Integrated disease management
7.	Performance of the Technology area	:	The refined practice of disease management had less incidence of wilt disease (9.1%) and higher yield 1080kg/ha. As compare to other treatments of disease management i.e. T1(12.8% wilt incidence & yield 850 kg./ha.) and T2 (9.9% wilt incidence & yield 1010kg./ha.)
8.	Final recommendation for Micro level situation	:	Continued for 3rd year
9.	Constraints identified and Feedback for research	:	Highly viable & qualitative strain of bio-agent are not easily available
10.	Process of farmer's 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 (%) -Yield (kg./ha.)

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./ ha.	BC Ratio
8	9	10	11	12		13	14
T1= 12.8% 850kg./ha. T2=9.9% 1010kg./ha. T3=9.1% 1080kg./ha.	-Incidence of wilt disease 9.1% -Increase in income by 27.05% and 6.93% 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 - Seed treatment by Trichoderma @20gm./1kg seed and soil application of Trichoderma @3kg./ha. Along with 500kg. vermi compost	T1-850 T2-1010 T3-1080	53800/- 68860/- 75100/-	2.99 3.54 3.73

B. Technology Refinement

(VI) Trial -6 Title : Refinement of seed rate of wheat - Result awaited

3.2. Achievements of Frontline Demonstrations

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

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	Fennel	Varietal evaluation	GF-12	Demonstration Field day	18	270	105
B	Wheat	Varietal evaluation	GW-366	Demonstration Field day	11	55	25
C	Cumin	Varietal evaluation	GC-4	Demonstration Field day	24	560	350
D	Cumin	Bio-agent	Trichoderma	Demonstration Field day	17	85	85
E	Cotton	INM	ZnSO4	Demonstration Field day	10	70	60
F	Green-gram	Varietal evaluation	G.M.-4	Demonstration Field day	15	90	75
G	Castor	Varietal evaluation	GCH-7	Demonstration Field day	40	1150	625

b. Details of FLDs implemented during 2013-14 (Rabi), 2014-15 (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.	Castor	Varietal evaluation	GCH-7	Kharif-2013-14	15	15	04	26	30	-
2.	Fennel	Varietal evaluation	G.F.12	Rabi-2013-14	15	15	-	30	30	-
3.	Cumin	Varietal evaluation	G.C.4	Rabi-2013-14	15	15	08	41	49	-
4.	Wheat	Varietal evaluation	G.W.366	Rabi-2013-14	15	15	02	37	39	-
5.	Guar(veg.)	Varietal evaluation	Pusa Nav Bahar	Rabi-2013-14	5.0	5.0	-	25	25	-
6.	Cotton	Varietal evaluation	G.Cot.-Hy-8 (BG-II)	Kharif-2014-15	15	15	02	28	30	-
7.	Green-gram	Varietal evaluation	GM-4	Kharif-2014-15	15	15	03	63	66	Fail due to excess rain
8.	Black-gram	Varietal evaluation	G.U.-1	Kharif-2014-15	15	15	07	51	58	Fail due to excess rain
9.	Castor	Varietal evaluation	GCH-7	Kharif-2014-15	15	15	-	43	43	

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
Castor	Kharif	Irrigated	Loamy sand to medium black	L	L	M	Fallow	24/7/13 to 14/8/13	-	1052	39
Fennel	Rabi	Irrigated	Loamy sand	L	L	M	Green-gram	24/10/13 to 30/10/13	10/4/14 to 17/4/14	-	-
Cumin	Rabi	Irrigated	Loamy sand to medium black	L	L	M	Fallow	2/11/13 to 10/11/13	10/3/14 to 18/3/14	-	-
Wheat	Rabi	Irrigated	Loamy sand	L	L	M	Green-gram/Black-gram	30/11/13 to 8/12/13	2/4/14 to 10/4/14	-	-
Guar (veg.)	Summer	Irrigated	Loamy sand to medium black	L	L	M	Cotton/ Mustard	15/2/14 to 25/2/14	-	-	-
Cotton	Kharif	Irrigated	Sandy loam	L	L	M	Fallow	8/6/14 to 16/6/14	-	1005	28
Green-gram	Kharif	Irrigated	Sandy loam	L	L	M	Fallow	23/7/14 to 30/7/14	-	1005	28
Black-gram	Kharif	Irrigated	Sandy loam	L	L	M	Fallow	25/7/14 to 31/7/14	-	1005	28
Castor	Kharif	Irrigated	Loamy sand	L	L	M	Fallow	8/8/14 to 18/8/14	-	1005	28

FRONT LINE DEMONSTRATION

F.L.D. - Castor

VARIETY: Guj.Hy.Castor-7

F.L.D. -Fennel

VARIETY: Guj.Fennel-12

FRONT LINE DEMONSTRATION

F.L.D. - Cumin
VARIETY: Guj.Cumin-4

F.L.D. -Wheat
VARIETY: Guj.Wheat-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.	Castor	Varietal evaluation	GCH-7	30	15	40.8	28.7	32.9	28.6	15.0
2.	Fennel	Varietal evaluation	G.F.12	30	15	23.4	15.8	18.2	15.1	20.5
3.	Cumin	Varietal evaluation	G.C.4	49	15	9.8	6.6	8.1	6.8	19.1
4.	Wheat	Varietal evaluation	G.W.366	39	15	52.0	39.7	41.6	36.1	15.2
5.	Guar(veg.)	Varietal evaluation	Pusa Nav Bahar	25	05	120.0	72.0	112.0	96.0	16.7
6.	Cotton	Varietal evaluation	G.Cot.-Hy-8 (BG-II)	30	15	30.1	24.3	28.8	26.4	9.1
7.	Green-gram	Varietal evaluation	GM-4	66	15	-	-	-	-	-
8.	Black-gram	Varietal evaluation	G.U.-1	58	15	-	-	-	-	-
9.	Castor	Varietal evaluation	GCH-7	43	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)	
Parameter	**Demonstration**	**Local**	**Demonstration**	**Local check**	**Demonstration**	**Local check**	**Demonstration**	**Local check**	**Demonstration**	**Local check**
	12	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
Plant height (cm) No. of spikelet /plant No. of capsules / spikelet Test weight (g)	90-110 30-35 85-95 28.5-29.5	-	27575	26900	123375	107288	95800	80388	4.47	3.99
Plant height(cm) No. of branches No. of umbels Test weight (g)	145 6.0 12.8 6.3	147 5.4 11.8 5.8	31600	30800	131950	109475	100350	78675	4.18	3.55
Plant height(cm) No. of branches No. of umbels Test weight (g)	26.9 7.2 3.5 4.8	26.7 6.6 3.1 4.2	26660	26000	76950	64600	50290	38600	2.88	2.48
Plant height(cm) No. of effective tillers Test weight(g)	91.6 8.0 49.6	86.5 7.2 43.1	27900	26700	72800	63175	44900	36475	2.61	2.36
Plant height(cm) Pod length (cm) 1st Picking starts (days)	90 15 45-50	80-90 15 50-55	37150	36050	224000	192000	186850	155950	6.03	5.33
Plant height(cm) No.of sympodiya No.of Ball Av.Ball weight(g.)	140 12 to 18 60 4	150 12to18 50 3.6	31200	29900	115200	105600	84000	75700	3.69	3.53
-		-	-	-	-	-	-	-	-	-
-		-	-	-	-	-	-	-	-	-
-		-	-	-	-	-	-	-	-	-

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
Castor	Kharif (2013-14)	GCH-7	Irrigated	32.9	28.6	25.0
Fennel	Rabi (2013-14)	G.F.12	Irrigated	18.2	15.1	20.5
Cumin	Rabi (2013-14)	G.C.4	Irrigated	8.1	6.8	19.1
Wheat	Rabi (2013-14)	G.W.366	Irrigated	41.6	36.1	15.2
Guar(veg.)	Summer (2013-14)	Pusa Nav Bahar	Irrigated	112	96	16.7
Cotton	Kharif (2014-15)	G.Cot.-Hy-8 (BG-II)	Irrigated	28.8	26.4	9.1
Green-gram	Kharif (2014-15)	GM-4	Irrigated	-	-	-
Black-gram	Kharif (2014-15)	G.U.-1	Irrigated	-	-	-
Castor	Kharif (2014-15)	GCH-7	Irrigated	Result awaited		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Required pest & disease resistant variety Required variety, having compact capsules in spikelet
2.	Required sugary disease resistant variety
3.	Required high yielding and resistant variety against wilt & blight disease
4.	Required lodging resistant variety with good luster
5.	Required Bacterial blight disease resistant variety.
6.	Required comparatively bigger sized ball
7.	-
8.	-
9.	-

Farmer's reactions on specific technologies

S. No	Farmer's reactions
1.	GCH-7 variety is high yielding but capsules are not compact in spikelet
2.	GF-12 variety is high yielding as well as less loading effect variety
3.	In GC-4 variety, less disease incidence found as compare to other varieties
4.	Market price of GW-366 is less than GW-496 variety
5.	Pod bearing habit- bunch type Pod maturity – uniform
6.	-Early maturity -Resistant to sucking pest due to Hairiness leaf -Require more labour for picking
7.	-
8.	-
9.	-

Extension and Training activities under FLD

Sr.No.	Activity	No.of activities organized	Date	No.of participants	Remarks
1.	**Castor**				
	Training	01	18/7/13	24	
	Field day	01	20/12/13	26	
	Field visit	03		15	
2.	**Fennel**				
	Training	01	21/10/13	30	
	Field day	01	25/2/14	48	
	Field visit	03	-	21	
3.	**Cumin**				
	Training	01	23/10/13	49	
	Field day	01	7/3/13	31	
	Field visit	03	-	18	
4.	**Wheat**				
	Training	02	23/11/13 29/11/13	39	
	Field day	01	14/03/14	40	
	Field visit	03	-	18	
5.	**Guar**				
	Training	02	13/12/13 13/2/14	51	
	Field day	01	19/6/14	18	
	Field visit	04	-	19	
6.	**Cotton**				
	Training	02	13/5/14 6/6/14	48	
	Field day	01	14/10/14	42	
	Field visit	04	-	15	
7.	**Green-gram**				
	Training	02	19/7/14 22/7/14	65	
	Field day	-	-	-	
	Field visit	01	-	25	
8.	**Black-gram**				
	Training	02	13/7/14 24/7/14	86	
	Field day	-	-	-	
	Field visit	01	-	20	
9.	**Castor**	-	-	-	

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	01	42	-	42	-	-	-	42	-	42
Crop Diversification										
Integrated farming										
Water management										
Seed production										
Nursery management										
Integrated crop management	07	223	03	226	31	-	31	254	03	257
Fodder production										
Production of organic inputs										
II. Horticulture										
a) Vegetable crops										
Production of low volume and high value crops										
Off season vegetable										
Nursery raising	01	23	-	23	-	-	-	23	-	23
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green House, Shade Net etc.)										
b) Fruits										
Training and pruning										
Layout and management of orchards										
Cultivation fruits	02	45	-	45	-	-	-	45	-	45
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	01	20	-	20	-	-	-	20	-	20
Processing and value addition										
c) Spices										
Production and management technology	01	34	-	34	03	-	03	37	-	37
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										
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	01	-	28	28	-	-	-	-	28	28
Feed management	02	-	60	60	-	-	-	-	60	60
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.	02	15	38	53	05	15	20	20	53	73
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	07	02	131	133	01	16	17	03	147	150
Income generation activities for empowerment of rural women										
Location specific drudgery reduction technologies	01	02	27	29	-	-	-	02	27	29
Rural Craft	02	02	26	28	-	06	06	02	32	34
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	03	79	-	79	03	-	03	82	-	82
Integrated Disease management	02	47	-	47	01	-	01	48	-	48
Bio-control of pests and diseases	01	25	-	25	-	-	-	25	-	25
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	02	-	71	71	-	-	-	-	71	71
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 :-	**36**	**559**	**384**	**943**	**44**	**37**	**81**	**603**	**421**	**1024**
(B) RURAL YOUTH										
Mushroom production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated farming										
Planting material production										
Vermi culture										
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										

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	11	-	11	-	-	-	11	-	11
Training and pruning of orchards										
Value addition	02	-	35	35	-	-	-	-	35	35
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	01	45	-	45	-	-	-	45	-	45
Tailoring and stitching	03	-	12	12	-	12	12	-	24	24
Rural Crafts										
TOTAL :	**07**	**56**	**47**	**103**	**-**	**12**	**12**	**56**	**59**	**115**

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										
Rejuvenation of old orchards										
Production cultivation technology	01	12	01	13	05	-	05	17	01	18
Formation and management of SHGs	01	08	02	10	03	-	03	11	02	13
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										
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 :	**02**	**20**	**03**	**23**	**08**	**-**	**08**	**28**	**03**	**31**

(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	01	23	-	23	-	-	-	23	-	23
Resource conservation technologies	01	13	-	13	-	-	-	13	-	13
Cropping systems										
Crop Diversification										
Integrated farming										
Water management										
Seed production										
Nursery management										
Integrated crop management	02	48	-	48	02	-	02	50	-	50
Fodder production										
Production of organic inputs										
II. Horticulture										
a) Vegetable crops										
Production of low volume and high value crops										
Off season vegetable	01	17	01	18	-	-	-	17	01	18
Nursery raising										
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green House, Shade Net etc.)										
b) Fruits										
Training and pruning										
Layout and management of orchards										
Cultivation of fruits	06	111	-	111	08	-	08	119	-	119
Management of young plants/ orchards										
Rejuvenation of old orchards										
Export potential fruit										
Micro irrigation systems of orchards	02	35	-	35	-	-	-	35	-	35
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	01	-	-	-	20	-	20	20	-	20
Processing and value addition										
e) Tuber crops										
Production and management technology										
Processing and value addition										
c) Spices										
Production and management technology	01	13	-	13	02	-	02	15	-	15
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	01	18	-	18	-	-	-	18	-	18
Soil and water conservation										
Integrated nutrient management	01	20	-	20	-	-	-	20	-	20
Production & use of organic inputs	02	39	-	39	-	-	-	39	-	39
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	03	24	49	73	-	-	-	24	49	73
Poultry management										
Piggery management										
Rabbit management										
Disease management										
Feed management	02	-	38	38	-	-	-	-	38	38
Production of quality animal products										
V. Home Science Women empowerment										
House hold food security by kitchen gardening and nutrition gardening	02	-	19	19	-	16	16	-	35	35
Design and development of low/ mini. Cost .diet										
Designing and development for high nutrient efficiency diet.										
Minimization of nutrient loss in processing	02	-	29	29	-	15	15	-	44	44
Gender mainstreaming through SHGs	01	-	27	27	-	-	-	-	27	27
Storage loss minimization techniques	02	-	55	55	-	-	-	-	55	55
Value addition	03	-	81	81	-	04	04	-	85	85
Income generation activities for empowerment of rural women	01	-	15	15	-	03	03	-	18	18
Location specific drudgery reduction technologies	01	-	21	21	-	-	-	-	21	21
Rural Craft										
Women & child care	03	-	81	81	-	04	04	-	85	85
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	102	-	102	04	-	04	106	-	106
Integrated Disease management	06	112	-	112	04	-	04	116	-	116
Bio-control of pests and diseases	01	18	-	18	-	-	-	18	-	18
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 :-	**51**	**593**	**416**	**1009**	**40**	**42**	**82**	**633**	**458**	**1091**
(B) RURAL YOUTH										
Mushroom production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated farming										
Planting material production										
Vermi culture										
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										

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										
TOTAL :										

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	21	-	21	06	-	06	27	-	27
Integrated nutrient management										
Rejuvenation of old orchards										
Production cultivation technology										
Formation and management of SHGs	01	-	35	35	-	04	04	-	39	39
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										
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 :	**02**	**21**	**35**	**56**	**06**	**04**	**10**	**27**	**39**	**66**

(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	01	23	-	23	-	-	-	23	-	23
Resource conservation technologies	01	13	-	13	-	-	-	13	-	13
Cropping systems	01	42	-	42	-	-	-	42	-	42
Crop Diversification										
Integrated farming										
Water management										
Seed production										
Nursery management										
Integrated crop management	09	271	03	274	33	-	33	304	03	307
Fodder production										
Production of organic inputs										
II. Horticulture										
a) Vegetable crops										
Production of low volume and high value crops										
Off season vegetable	01	17	01	18	-	-	-	17	01	18
Nursery raising	01	23	-	23	-	-	-	23	-	23
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green House, Shade Net etc.)										
b) Fruits										
Training and pruning										
Layout and management of orchards										
Cultivation of fruits	08	156	-	156	08	-	08	164	-	164
Management of young plants/ orchards										
Rejuvenation of old orchards										
Export potential fruit										
Micro irrigation systems of orchards	02	35	-	35	-	-	-	35	-	35
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	01	-	-	-	20	-	20	20	-	20
Processing and value addition										
e) Tuber crops										
Production and management technology	01	20	-	20	-	-	-	20	-	20
Processing and value addition										
c) Spices										
Production and management technology	02	47	-	47	05	-	05	52	-	52
Processing and value addition										
d) Medicinal and Aromatic plants										
Nursery managemen										
Production management technology										
Post harvest technology and value addition										
III. Soil and Health and Fertility management										
Soil fertility management	01	18	-	18	-	-	-	18	-	18
Soil and water conservation										
Integrated nutrient management	01	20	-	20	-	-	-	20	-	20
Production & use of organic inputs	02	39	-	39	-	-	-	39	-	39
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	03	24	49	73	-	-	-	24	49	73
Poultry management										
Piggery management										
Rabbit management										
Disease management	01	-	28	28	-	-	-	-	28	28
Feed management	04	-	98	98	-	-	-	-	98	98
Production of quality animal products										
V. Home Science Women empowerment										
House hold food security by kitchen gardening and nutrition gardening	02	-	19	19	-	16	16	-	35	35
Design and development of low/ mini. Cost .diet	02	15	38	53	05	15	20	20	53	73
Designing and development for high nutrient efficiency diet.										
Minimization of nutrient loss in processing	02	-	29	29	-	15	15	-	44	44
Gender mainstreaming through SHGs	01	-	27	27	-	-	-	-	27	27
Storage loss minimization techniques	02	-	55	55	-	-	-	-	55	55
Value addition	10	02	211	213	01	20	21	03	231	234
Income generation activities for empowerment of rural women	01	-	15	15	-	03	03	-	18	18
Location specific drudgery reduction technologies	02	02	48	50	-	-	-	02	48	50
Rural Craft	02	02	26	28	-	06	06	02	32	34
Women & child care	03	-	81	81	-	04	04	-	85	85
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	08	181	-	181	07	-	07	188	-	188
Integrated Disease management	08	159	-	159	05	-	05	164	-	164
Bio-control of pests and diseases	02	43	-	43	-	-	-	43	-	43
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	02	-	71	71	-	-	-	-	71	71
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 :-	**87**	**1152**	**799**	**1951**	**84**	**79**	**163**	**1236**	**878**	**2114**
(B) RURAL YOUTH										
Mushroom production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated farming										
Planting material production										
Vermi culture										
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										

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	11	-	11	-	-	-	11	-	11
Training and pruning of orchards										
Value addition	02	-	35	35	-	-	-	-	35	35
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	01	45	-	45	-	-	-	45	-	45
Tailoring and stitching	03	-	12	12	-	12	12	-	24	24
Rural Crafts										
TOTAL :	**07**	**56**	**47**	**103**	**-**	**12**	**12**	**56**	**59**	**115**

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	21	-	21	6	-	6	27	-	27
Integrated nutrient management										
Rejuvenation of old orchards										
Production cultivation technology	01	12	1	13	5	-	5	17	1	18
Formation and management of SHGs	02	08	37	45	03	04	07	11	41	52
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										
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 :	4	41	38	79	14	4	18	55	42	97

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
25/4/14	PF	Importance of summer ploughing & green maturing for higher crop production	Crop production	Resource conservation technology	01	Off	13	-	13	-	-	-	13	-	13
6/6/14	PF	Scientific cultivation of BT Cotton	Crop Production	Integrated crop management	01	On	28	-	28	02	-	02	30	-	30
27/6/14	PF	Scientific cultivation of Pulse crop	Crop Production	Integrated crop management	01	Off	16	-	16	-	-	-	16	-	16
22/7/14	PF	Scientific cultivation of Green gram	Crop Production	Integrated crop management	01	On	19	-	19	01	-	01	20	-	20
23/7/14	PF	Scientific cultivation of Black gram	Crop Production	Integrated crop management	01	On	22	-	22	07	-	07	29	-	29
24/7/14	PF	Scientific cultivation Black-gram	Crop production	Integrated crop management	01	On	32	-	32	-	-	-	32	-	32
4/8/14	PF	Scientific cultivation of Black gram	Crop Production	Cropping systems	01	On	42	-	42	-	-	-	42	-	42
27/8/14	PF	Integrated nutrient management in Cotton	Crop Production	Integrated crop management	01	Off	32	-	32	02	-	02	34	-	34
11/9/14	PF	Integrated nutrient management in Castor	Crop Production	Integrated nutrient management	01	Off	20	-	20	-	-	-	20	-	20
1/10/14	PF	Importance & efficient use of bio-fertilizer	Crop Production	Soil fertility management	01	Off	18	-	18	-	-	-	18	-	18

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
4/10/14	PF	Scientific cultivation of Fennel	Crop Production	Integrated crop management	01	On	54	-	54	-	-	-	54	-	54
17/10/14	PF	Scientific cultivation of Mustard	Crop Production	Integrated crop management	01	On	43	03	46	01	-	01	44	03	47
13/11/14	PF	Scientific cultivation of Wheat (INM in Wheat ZnSO4)	Crop Production	Integrated crop management	01	On	25	-	25	20	-	20	45	-	45
18/12/14	PF	Integrated nutrient management in Wheat	Crop Production	Weed management	01	Off	23	-	23	-	-	-	23	-	23
30/1/15	PF	Use of organic manure in sustainable agriculture	Crop Production	Production & use of organic inputs	01	Off	21	-	21	-	-	-	21	-	21
25/2/15	PF	Importance & scope of organic farming in field crops	Crop Production	Production & use of organic inputs	01	Off	18	-	18	-	-	-	18	-	18
16/4/14	PF	Role of soil solarization for insect pest & disease management	Plant Protection	Integrated disease management	01	Off	15	-	15	02	-	02	17	-	17
28/4/14 to 29/4/14	PF	Preventive measures to control the sucking pest and para wilt in BT Cotton	Plant Protection	Integrated pest management	02	On	17	-	17	-	-	-	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
13/5/14	PF	Identification of Bio-agents & their role in insect pest management	Plant Protection	Bio-control of pests and diseases	01	Off	18	-	18	-	-	-	18	-	18
18/6/14	PF	Plant protection measures to control the sucking pest in BT Cotton	Plant Protection	Integrated pest management	01	On	18	-	18	02	-	02	20	-	20
27/6/14	PF	Plant Protection measures to control the pest & disease of pulse crops	Plant Protection	Integrated disease management	01	Off	18	-	18	01	-	01	19	-	19
3/7/14	PF	Preventive measures to control the pest & diseases of BT Cotton	Plant Protection	Integrated disease management	01	Off	19	-	19	-	-	-	19	-	19
19/7/14	PF	Plant Protection measures of pest & diseases of Pulses crop	Plant Protection	Integrated pest management	01	On	44	-	44	01	-	01	45	-	45
30/7/14 to 31/7/14	PF	Plant protection measures of pest and disease in Castor	Plant Protection	Integrated disease management	01	On	18	-	18	-	-	-	18	-	18
8/8/14	PF	Insect pest management technique in Chilli	Plant Protection	Integrated disease management	01	Off	21	-	21	-	-	-	21	-	21

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
5/9/14	PF	Preventive measures to control the pest disease in Castor	Plant Protection	Integrated disease management	01	Off	18	-	18	-	-	-	18	-	18
7/10/14	PF	Recent advances in control pest and disease in Mustard	Plant Protection	Integrated Pest management	01	Off	29	-	29	-	-	-	29	-	29
13/10/14	PF	Precautionary measures to control	Plant Protection	Integrated Pest management	01	Off	14	-	14	03	-	03	17	-	17
5/11/14	PF	Importance & method of application of Bio-control agent (Trichoderma) for disease management of Cumin	Plant Protection	Bio control of pest & disease	01	On	25	-	25	-	-	-	25	-	25
11/11/14	PF	Precautionary measures to control the termite in Wheat	Plant Protection	Integrated Pest management	01	Off	19	-	19	-	-	-	19	-	19
18/12/14	PF	Control measure of pest & disease of mustard	Plant Protection	Integrated Diseases management	01	Off	20	-	20	01	-	01	21	-	21
8/1/15	PF	Plant protection measures of termite in wheat	Plant Protection	Integrated Pest management	01	Off	19	-	19	01	-	01	20	-	20

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
27/2/15	PF	Selection of pesticide for insect pest disease management	Plant Protection	Integrated disease management	01	Off	22	-	22	-	-	-	22	-	22
3/3/15	PF	Identification of insect pest & symptoms of diseases in field crops	Plant Protection	Integrated disease management	01	On	29	-	29	01	-	01	30	-	30
16/4/14	PF	Importance of MIS in fruits crop	Horticulture	Micro irrigation systems	01	Off	16	-	16	-	-	-	16	-	16
23/4/14	PF	Scientific cultivation of Bottle gourd	Horticulture	Off season vegetable	01	Off	17	01	18	-	-	-	17	01	18
15/5/14	PF	Advances production technology in Papaya	Horticulture	Cultivation fruits	01	Off	26	-	26	-	-	-	26	-	26
6/6/14 to 11/6/14	RY	Nursery raising in Chilli	Horticulture	Nursery raising	06	On	11	-	11	-	-	-	11	-	11
16/6/14	PF	Scientific cultivation of Pomegranate	Horticulture	Cultivation fruits	01	Off	18	-	18	01	-	01	19	-	19
17/6/14	PF	Nursery raising of Papaya	Horticulture	Nursery raising	01	On	23	-	23	-	-	-	23	-	23
4/7/14	PF	Scientific cultivation of Brinjal	Horticulture	Production and management technology	01	Off	-	-	-	20	-	20	-	-	20
21/8/14	PF	Scientific cultivation of Chilli	Horticulture	Production management technology (Spices)	01	Off	13	-	13	02	-	02	15	-	15

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
8/9/14	PF	Scope & importance of MIS in horticultural crops	Horticulture	Micro irrigation systems of orchards	01	Off	19	-	19	-	-	-	19	-	19
22/9/14	PF	Advances of production technologies in Pomegranate	Horticulture	Production and management technology	01	On	35	-	35	-	-	-	35	-	35
23/9/14	PF	Scientific cultivation of Carrot	Horticulture	Production management technology	01	On	20	-	20	-	-	-	20	-	20
1/10/14	PF	Integrated nutrient management in Papaya	Horticulture	Cultivation fruits	01	Off	19	-	19	-	-	-	19	-	19
11/10/14	PF	Scientific cultivation of Kagzi lime	Horticulture	Cultivation fruits	01	On	10	-	10	-	-	-	10	-	10
1/11/14	PF	Production and management technology in Cumin	Horticulture	Production and management technology	01	On	34	-	34	03	-	03	37	-	37
8/1/15	PF	INM in Carrot	Horticulture	Cultivation of fruits	01	Off	14	-	14	03	-	03	17	-	17
13/2/15	PF	Integrated nutrient management in potato	Horticulture	Cultivation of fruits	01	Off	16	-	16	04	-	04	20	-	20

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
26/3/15	PF	Integrated nutrient management in papaya	Horticulture	Cultivation of fruits	01	Off	18	-	18	-	-	-	18	-	18
19/8/14	FW	Feed and fodder management in livestock production	Animal Science	Feed management	01	Off	-	19	19	-	-	-	-	19	19
15/9/14	FW	Importance of green & dry fodder for milch animal	Animal Science	Feed management	01	Off	-	19	19	-	-	-	-	19	19
22/9/14	FW	Importance of vaccination in livestock production & management	Animal Science	Disease management	01	On	-	28	28	-	-	-	-	28	28
8/10/14	FW	Care and management of calf raising & dairy animal	Animal Science	Dairy management	01	Off	-	20	20	-	-	-	-	20	20
9/10/14	FW	Importance of mineral mixture for livestock production	Animal Science	Feed management	01	On	-	29	29	-	-	-	-	29	29
12/11/14	FW	Feed management for milch animal	Animal Science	Dairy management	01	Off	-	26	26	-	-	-	-	26	26
3/12/14	FW	Importance of Dry and green fodder in live stock production	Animal Science	Feed management	01	On	-	31	31	-	-	-	-	31	31
28/1/15	PF	Importance of artificial in semi nation for breed important	Animal Science	Dairy management	01	Off	24	03	27	-	-	-	24	03	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
22/4/14	FW	Preparation and preservation of tomato ketchup and chatuney	Home Science	Value addition	01	On	-	17	17	-	-	-	-	17	17
23/4/14	FW	Storage of food grains	Home Science	Storage loss minimization technologies	01	Off	-	36	36	-	-	-	-	36	36
6/5/14 to 31/5/14	RY	Tailoring course in women and children garments	Home Science	Tailoring and stitching	26	On	-	01	01	-	08	08	-	09	09
14/5/14	FW	Minimization of nutrient while cooking of pulses food	Home Science	Minimization of nutrient loss in processing	01	Off	-	20	20	-	-	-	-	20	20
19/5/14	FW	Use of solar cooker	Home Science	Location specific drudgery reduction technologies	01	On	02	27	29	-	-	-	02	27	29
1/6/14 to 30/6/14	RY	Tailoring course in women and children garments	Home Science	Tailoring and stitching	30	On	-	02	02	-	04	04	-	06	06
23/6/14	FW	Preparation and preservation of mango products	Home Science	Value addition	01	On	01	20	21	01	-	01	02	20	22
24/6/14	FW	Bakery products (Nankhatai, Masala Biscuit)	Home Science	Value addition	01	On	-	16	16	-	01	01	-	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
27/6/14	FW	Minimization of nutrient while cooking of pulses food	Home Science	Minimization of nutrient loss in processing	01	Off	-	09	09	-	15	15	-	24	24
11/7/14	FW	Importance of fruit and vegetable in human diet	Home Science	Women and child care	01	Off	-	35	35	-	-	-	-	35	35
30/7/14	FW	Designing and development of low/ minimum cost diet	Home Science	Designing and development of low/ minimum cost diet	01	On	-	17	17	-	-	-	-	17	17
6/8/14	FW	Kitchen gardening	Home Science	House hold food security by kitchen gardening and nutrition gardening	01	Off	-	-	-	-	16	16	-	16	16
19/8/14	FW	Empowerment of Rural women through self help group	Home Science	Income generation activities for empowerment of rural women	01	Off	-	15	15	-	03	03	-	18	18
22/8/14 to 23/8/14	RY	Bakery products	Home Science	Value addition	02	On	-	15	15	-	-	-	-	15	15
1/9/14 to 30/9/14	RY	Tailoring courses in women and children garments	Home Science	Tailoring and stitching	30	On	-	09	09	-	-	-	-	09	09

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
15/9/14	FW	Awareness regarding use of kitchen appliances (Juicer, Blender, Chilli & Onion cutter)	Home Science	Location specific drudgery reduction technologies	01	Off	-	21	21	-	-	-	-	21	21
16/9/14 to 17/9/14	FW	Designing and development of low / minimum cost diet	Home Science	Designation & development of low/minimum cost diet	02	On	15	21	36	05	15	20	20	36	56
8/10/14	FW	Care and nutrition for children and pregnant women	Home Science	Women and child care	01	Off	-	21	21	-	-	-	-	21	21
10/10/14 to 11/10/14	FW	Preparation and preservation of aonla products	Home Science	Value addition	02	On	-	08	08	-	06	06	-	14	14
11/11/14	FW	Dehydration of green leafy vegetable like palak and methi	Home Science	Storage loss minimization techniques	01	Off	-	19	19	-	-	-	-	19	19
20/11/14	FW	Preparation and preservation of aonla products	Home Science	Value addition	01	On	-	35	35	-	-	-	-	35	35
19/12/14	FW	Preparation and preservation of carrot and chilli pickles	Home Science	Value addition	01	Off	-	30	30	-	-	-	-	30	30

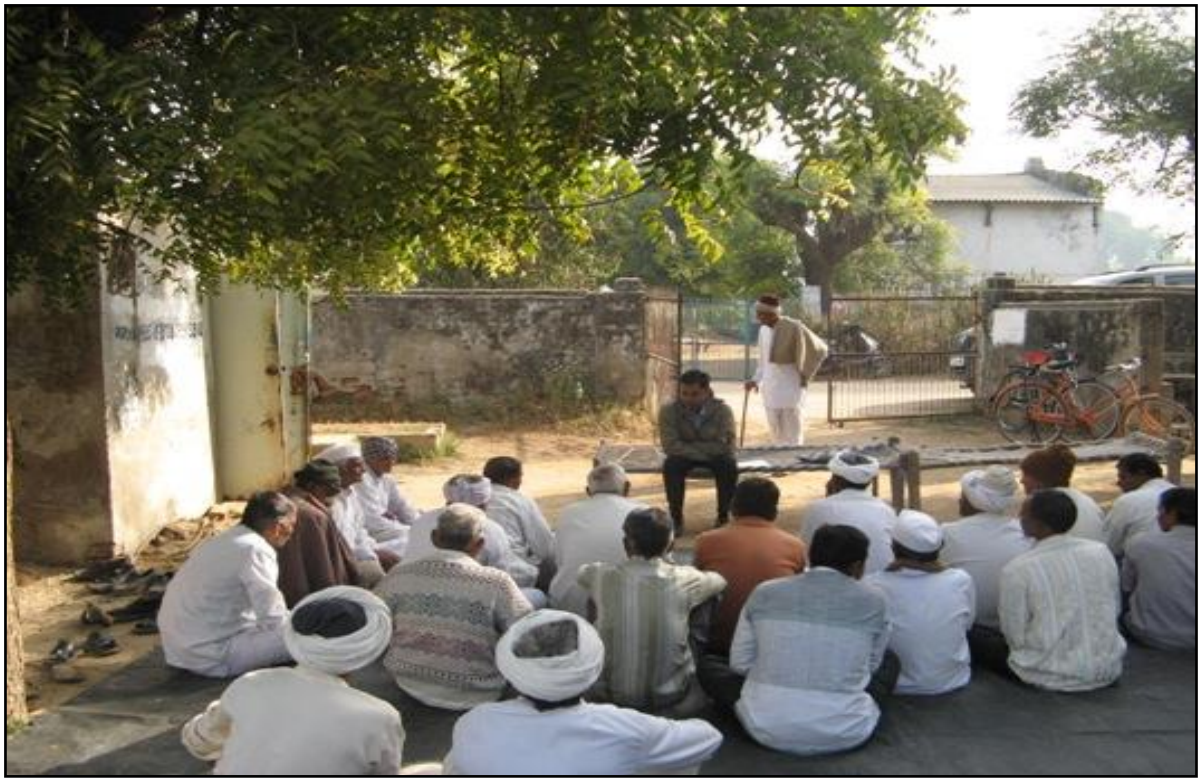
Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off/ On Campus)	Number of other participant			Number of SC/ST			Total Number of Participant		
							M	F	T	M	F	T	M	F	T
30/12/14	FW	Preparation and preservation of aonla candy, pickles & syrup	Home Science	Value addition	01	On	01	15	16	-	04	04	1	19	20
1/1/15 to 2/1/15	RY	Value addition in fruits and vegetable preparation	Home Science	Value addition	02	On	-	20	20	-	-	-	-	20	20
6/1/15	FW	Preparation and preservation of aonla products	Home Science	Value addition	01	On	-	20	20	-	05	05	-	25	25
16/1/15	FW	Formation and management of SHGs	Home Science	Gender mainstreaming through SHGs	01	Off	-	27	27	-	-	-	-	27	27
4/2/15	FW	Importance and technique of kitchen gardening	Home Science	House hold food security by kitchen gardening and nutrition gardening	01	Off	-	19	19	-	-	-	-	19	19
18/3/15	FW	Agarbatti making	Home Science	Rural crafts	01	On	02	16	18	-	-	-	2	16	18
24/3/15 to 27/3/15	FW	Preparation of doormat & rope swings	Home Science	Rural crafts	04	On	-	10	10	-	06	06	-	16	16

ON CAMPUS TRAINING PROGRAMME

Training Programme- Farmers

Training Programme- Farm women

OFF CAMPUS TRAINING PROGRAMME



Training Programme- Farmers

Training Programme- Farm women

IN -SERVICE TRAINING PROGRAMME

In-service Training Programme for V.L.W.

In-service Training Programme for WDT & MDT of IWMP

(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	6/5/14 to 31/5/14	Tailoring course in women and children garment	Tailoring and stitching	26	-	09	09	Tailoring in women and children	02	02	
Home Science	1/6/14 to 30/6/14	Tailoring course in women and children garment	Tailoring and stitching	30	-	06	06	Tailoring in women and children	02	02	
Horticulture	6/6/14 to 11/6/14	Nursery raising in chilli	Nursery raising	06	11	-	11	Nursery raising for Chilli	01	02	
Home Science	22/8/14 to 23/8/14	Bakery products	Value addition	02	-	15	15	-	-	-	
Home Science	1/9/14 to 30/9/14	Tailoring course in women and children garment	Tailoring and stitching	30	-	09	09	Tailoring in women and children	02	02	
Home Science	1/1/2015 to 2/1/2015	Value addition in fruits & vegetable preparation	Value addition	02	-	20	20	-	-	-	

VOCATIONAL TRAINING PROGRAMME

Bakery Product

Tailoring Course

(E) Sponsored Training programmes

Date	Title	Disci-pline	Thematic area	Dura-tion (days)	Client (PF/ RY/ EF)	No.of courses	No.of Participants									Sponsoring agency	Amount of fund received (Rs.)
							Others			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
2/7/14	Importance of fruit and vegetable in human diet	Home Science	Women & child care	01	PF	01	-	25	25	-	04	04	-	29	29	FTC Patan	
4/9/14 to 6/9/14	Bharat Nirman volentiar	Ext.	Capacity building and group dynamics	03	PF	01	-	36	36	-	-	-	-	36	36	SIRD Ahmedabad	
19/9/14 to 20/9/14	Training & awareness programme for progressive farmers on scientific storage of food grain	Ext.	Post harvest technology	02	PF	01	33	-	33	12	-	12	45	-	45	CWC Ahmedabad	
17/11/14 to 19/11/14	Bharat Nirman volentiar	Ext.	Capacity building and group dynamics	03	PF	01	-	35	35	-	-	-	-	35	35	SIRD Ahmedabad	
26/11/14	Preparation and preservation of aonla products	Home Science	Value addition	01	PF	01	-	27	27	-	02	02	-	29	29	FTC Patan	
28/11/14	Preparation and preservation mixed fruit jam and chatney	Home Science	Value addition	01	PF	01	-	27	27	-	02	02	-	29	29	FTC Patan	

SPONSORED TRAINING PROGRAMME

Farmer Training Centre-Patan

Central Ware Housing Corporation-Ahmedabad

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-Cluster been	19/6/14	01	18	-	18	-	-	-	-	-	-	18	-	18
2.	Field day-Green-gram & Black gram	26/9/14	01	29	-	29	02	-	02	-	-	-	31	-	31
3.	Field day-Cotton	14/10/14	01	40	-	40	02	-	02	-	-	-	42	-	42
4.	Field day-Castor	21/11/14	01	36	-	36	-	-	-	-	-	-	36	-	36
5.	Field day-Carrot	13/1/15	01	43	-	43	04	-	04	-	-	-	47	-	47
6.	Field day-Mustard	4/2/15	01	32	-	32	02	-	02	-	-	-	34	-	34
7.	Field day-Fennel	19/2/15	01	31	-	31	-	-	-	-	-	-	31	-	31
8.	Field day-Cumin	25/2/15	01	40	-	40	-	-	-	-	-	-	40	-	40
9.	Field day-Wheat	4/3/15	01	31	-	31	-	-	-	-	-	-	31	-	31
	Total		**09**	**300**	**-**	**300**	**10**	**-**	**10**	**-**	**-**	**-**	**310**	**-**	**310**
10	Kisan mela	20/12/14	01	-	-	-	-	-	-	-	-	-	-	-	267
11	Kisan Ghosthi	18/9/14	01	39	-	39	-	-	-	-	-	-	39	-	39
12	Kisan Ghosthi	23/12/14	01	19	25	44	04	-	04	-	-	-	23	25	48
13	Kisan Ghosthi	24/12/14	01	19	24	43	05	-	05	-	-	-	24	24	48
14	Kisan Ghosthi	26/12/14	01	24	25	49	04	-	04	-	-	-	28	25	53
15	Kisan Ghosthi	27/12/14	01	24	20	44	04	-	04	-	-	-	28	20	48
	Total		**05**	**125**	**94**	**219**	**17**	**-**	**17**	**-**	**-**	**-**	**142**	**94**	**236**
16	Exhibition	16/7/14	01	23	18	41	-	-	-	-	-	-	23	18	41
17	Exhibition	23/12/14 to 27/12/14	01	86	94	180	17	-	17	-	-	-	103	94	197
	Total		**02**	**109**	**112**	**221**	**17**	**-**	**17**	**-**	**-**	**-**	**126**	**112**	**238**
18	Film show	23/12/14	01	19	25	44	04	-	04	-	-	-	23	25	48
19	Film show	24/12/14	01	19	24	43	05	-	05	-	-	-	24	24	48
20	Film show	26/12/14	01	24	25	49	04	-	04	-	-	-	28	25	53
	Total		**03**	**62**	**74**	**136**	**13**	**-**	**13**	**-**	**-**	**-**	**75**	**74**	**149**

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
21	Method demonstration (use of solar cooker)	22/4/14	01	-	17	17	-	-	-	-	-	-	-	17	17
22	Method demonstration	17/11/14	01	11	-	11	-	-	-	-	-	-	11	-	11
	Total		**02**	**11**	**17**	**28**	**-**	**-**	**-**	**-**	**-**	**-**	**11**	**17**	**28**
23	Farmer seminar	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Workshop	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Group meeting	18/6/14	01	-	17	17	-	-	-	-	-	-	-	17	17
26	Lecture delivered on effect of climate change in agriculture	28/6/14	01	03	06	09	09	07	16	-	-	-	12	13	25
27	Lecture delivered on van mahostav	18/9/14	01	14	-	14	06	-	06	-	-	-	20	-	20
28	Lecture delivered in IPM in Rabi crops	21/11/14	01	-	21	21	-	20	20	-	-	-	-	41	41
29	Lecture delivered in vermin compost	6/2/15	01	10	09	19	03	06	09	-	-	-	13	15	28
30	Lecture delivered on activities and importance of KVK	24/3/15	01	04	29	33	01	04	05	-	-	-	05	33	38
	Total		**05**	**31**	**65**	**96**	**19**	**37**	**56**	**-**	**-**	**-**	**50**	**102**	**152**
31	News paper covered	10/7/14	01	-	-	-	-	-	-	-	-	-	-	-	-
32	Radio talk	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	TV talks	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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
34	Popular articles	28/11/14	01	-	-	-	-	-	-	-	-	-	-	-	-
35	Extension literature	-	05	1390	610	2000	150	120	270	-	-	-	1540	730	2270
36	Advisory service	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Scientist visit to farmer field	-	38	-	-	-	-	-	-	-	-	-	-	-	182
38	Farmer visit to KVK	-	36	-	-	-	-	-	-	-	-	-	-	-	156
39	Diagnostic visit	-	74	-	-	-	-	-	-	-	-	-	-	-	338
40	Exposure visit	16/10/14	01	16	-	16	-	-	-	-	-	-	16	-	16
41	Exposure visit	29/11/14	01	06	-	06	-	-	-	-	-	-	06	-	06
	Total		**02**	**22**	**-**	**22**	**-**	**-**	**-**	**-**	**-**	**-**	**22**	**-**	**22**
42	Ex. Trainee Sammelan	9/3/15	01	-	20	20	-	-	-	-	-	-	-	20	20
43	Ex-trainee Sammelan	9/3/15	01	21	-	21	-	-	-	-	-	-	21	-	21
	Total		**02**	**21**	**20**	**41**	**-**	**-**	**-**	**-**	**-**	**-**	**21**	**20**	**41**
44	Soil health camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	Animal health camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	Agri. Mobile clinic	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	Soil test campaigns	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	Farm science club conveners meet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	Self help group	19/1/15	02	-	31	31	-	-	-	-	-	-	-	31	31
50	Mahila mandal conveners meeting	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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
51	**Celebration of important days**														
	-Celebration of ICAR day	16/7/14	01	35	44	79	12	14	26	-	-	-	47	58	105
	-World food day	16/10/14	01	16	27	43	-	09	09	-	-	-	16	36	52
52	Clinic day	3/3/15	01	14	-	14	01	-	01	-	-	-	15	-	15

EXTENSION ACTIVITY

Field day-Cumin

Field day-Carrot

EXTENSION ACTIVITY

Field day-Mustard

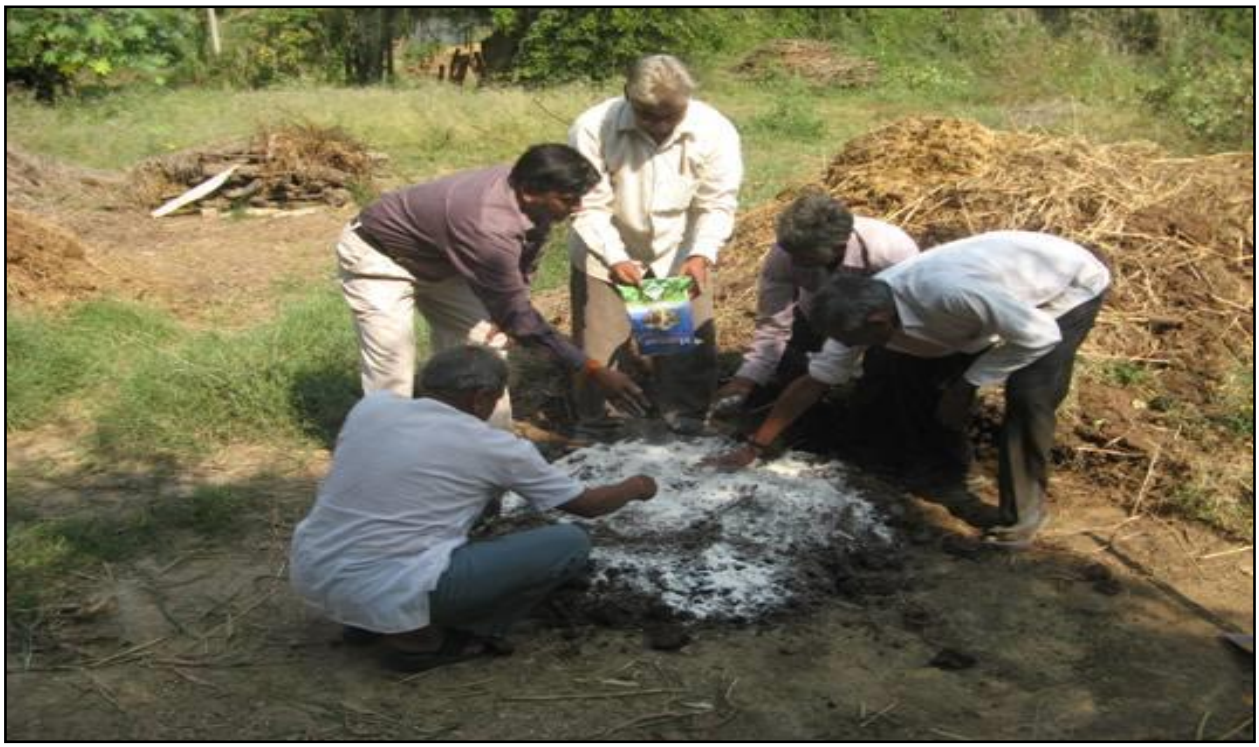
Field day-Fennel

EXTENSION ACTIVITY

Kisan Gosthi

Exhibition

EXTENSION ACTIVITY



Method Demonstration

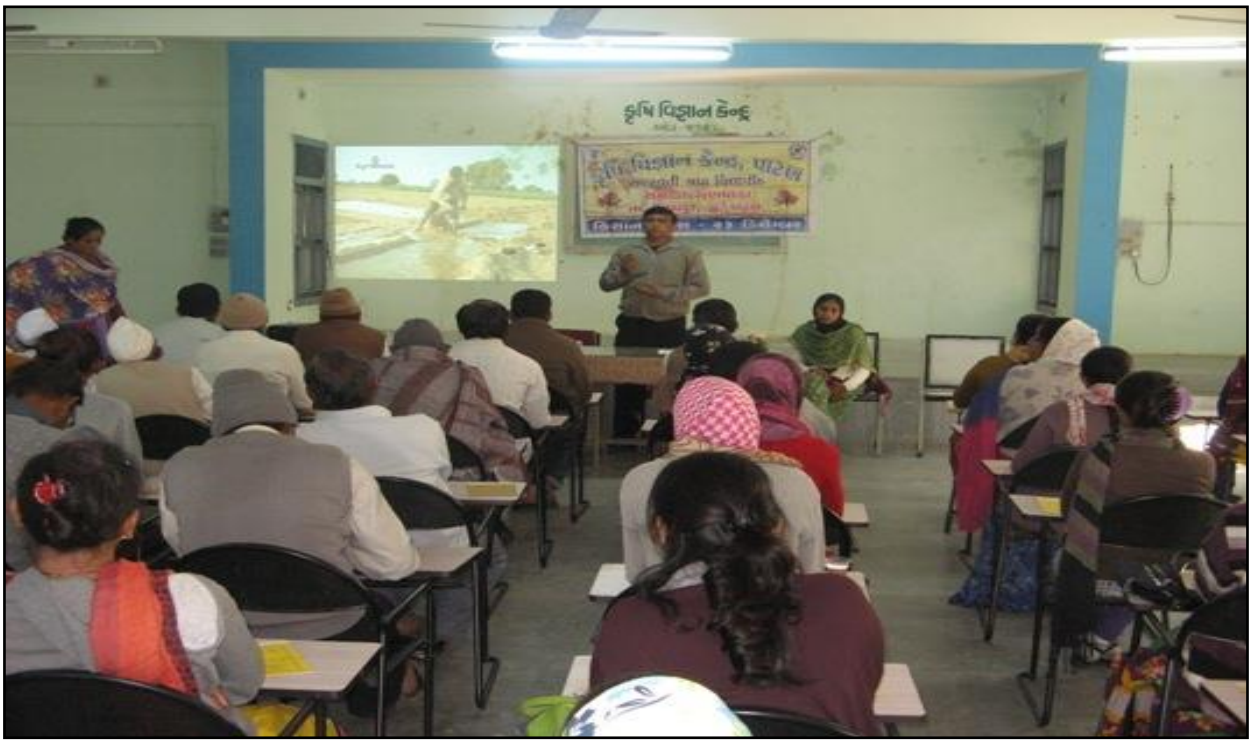
Method Demonstration-Drudgery reduction

EXTENSION ACTIVITY

Technology week

Technology week

EXTENSION ACTIVITY



Kisan Diwas

Technology week

EXTENSION ACTIVITY

Exposure Visit- S.S.K., S.D.A.U., S.K.Nagar

Exposure Visit

EXTENSION ACTIVITY

Diagnostic visit -Fennel

Diagnostic visit -Tobacco

EXTENSION ACTIVITY

World Food day

Clinic day

KISHAN MOBILE ADVISORY

No. of Farmers registered:- 1231

Details of SMSs

Content Category	No.of Messages	No.of Farmers	Feed back of farmers if any	
Crop Production	13	14477	-	-
Crop Protection	26	27695	-	-
Live stock & Fisheries Advisory	-	-	-	-
Weather Advisory	02	2100	-	-
Market Information	-	-	-	-
Events Information	-	-	-	-
Input availability	06	8634	-	-
Others	03	3168		
Total :-	**50**	**56074**	**-**	-

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 :-	-	-	-	

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 farmer	No.	No.of farmer	No.	No.of farmers	No.	No.of farmer	No.	No.of farmer	No.	No.of farmer
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
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	G.W.-366	11.20	28900=00	28
OILSEEDS	-	-	-	-	-
PULSES	-	-	-	-	-
VEGETABLES	-	-	-	-	-
FLOWER CROPS	-	-	-	-	-
OTHERS	-	-	-	-	-

SUMMARY

Sr.No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of farmer
1.	CEREALS-Wheat	11.20	28900=00	28
2.	OILSEEDS	-	-	-
3.	PULSES	-	-	-
4.	VEGETABLES	-	-	-
5.	FLOWER CROPS	-	-	-
6.	OTHERS	-	-	-
	Total :	11.20	28900=00	28

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (no.)	Value (Rs.)	Provided to No. of farmer
FRUITS	Lime	Kagzi Lime	1254	12570-=00	74
	Pomegranate	Shinduri	35	350=00	03
	Papaya	Madhubindu	642	1926=00	18
SPICES	-	-	-	-	-
VEGETABLES	Chilli	Guj.Chilli-3	5100	1275=00	08
FOREST SPECIES	-	-	-	-	-
ORNAMENTAL CROPS	Ornamentalplants	-	445	4450=00	21
PLANTATION CROPS	-	-	-	-	-
OTHERS	Tobacco	G.C.T.-4	44920	11230=00	11

SUMMARY

Sr.No.	Crop	Quantity (no.)	Value (Rs.)	Provided to No. of farmer
1.	FRUITS-	1931	14846	95
2.	SPICES	-	-	-
3.	VEGETABLES-Chilli	5100	1275=00	08
4.	FOREST SPECIES	-	-	-
5.	ORNAMENTAL CROP	445	4450=00	21
6.	PLANTATION CROPS	-	-	-
7.	OTHERS (Tobacco)	44920	11230=00	11
	Total :-	52396	31801=00	135

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	-	-	2320	8140=00	11

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)	-	-	2320	8140=00	11
	Total :-	-	-	2320	8140=00	11

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.)

Name of KVK	Date of start	Periodicity	No.of copies	No.of copies to be distributions
Patan	Dec.-2014	Half yearly	300	250

(B) Literature developed/ published

Item	Title	Authors name	Name of Journal	Number
Research Paper	-	-	-	-
Total	-	-	-	-
Technical Report				
Popular articles	Suggestion to change the cropping pattern in delay monsoon	G.A.Patel S.M.S. (P.P.)	Gujarat Samachar	
Leaflets and folders	• Vermi composting • Method of preparation of Bordaux mixture & Burdaux paste • Importance of soil & water analysis • Scientific cultivation of Papaya • Scientific cultivation of Kagzi lime • Storage of food grain preparation & preservation of lime pickle & syrup	S.M.S. (Extension, Crop Production, Plant Protection, Horticulture, Home Science)	- - - - - -	300 300 300 300 300 300

(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

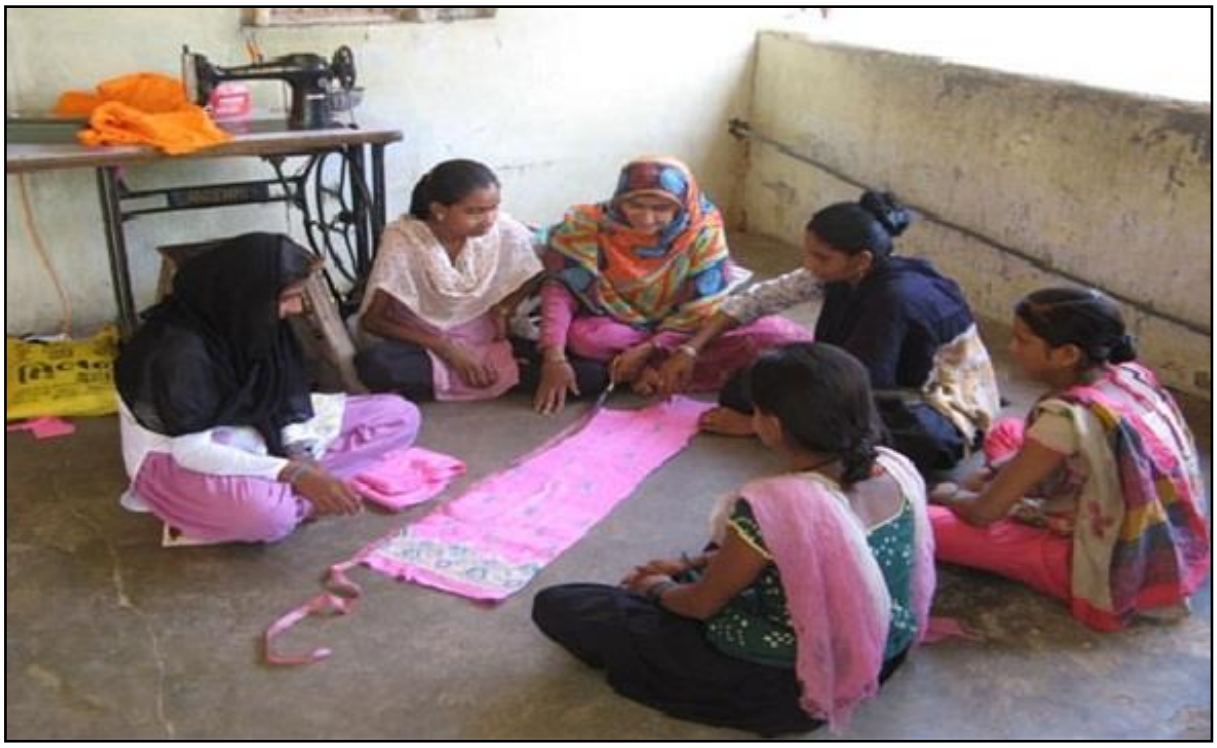
TAILORING IN WOMEN & CHILDREN GARMENTS

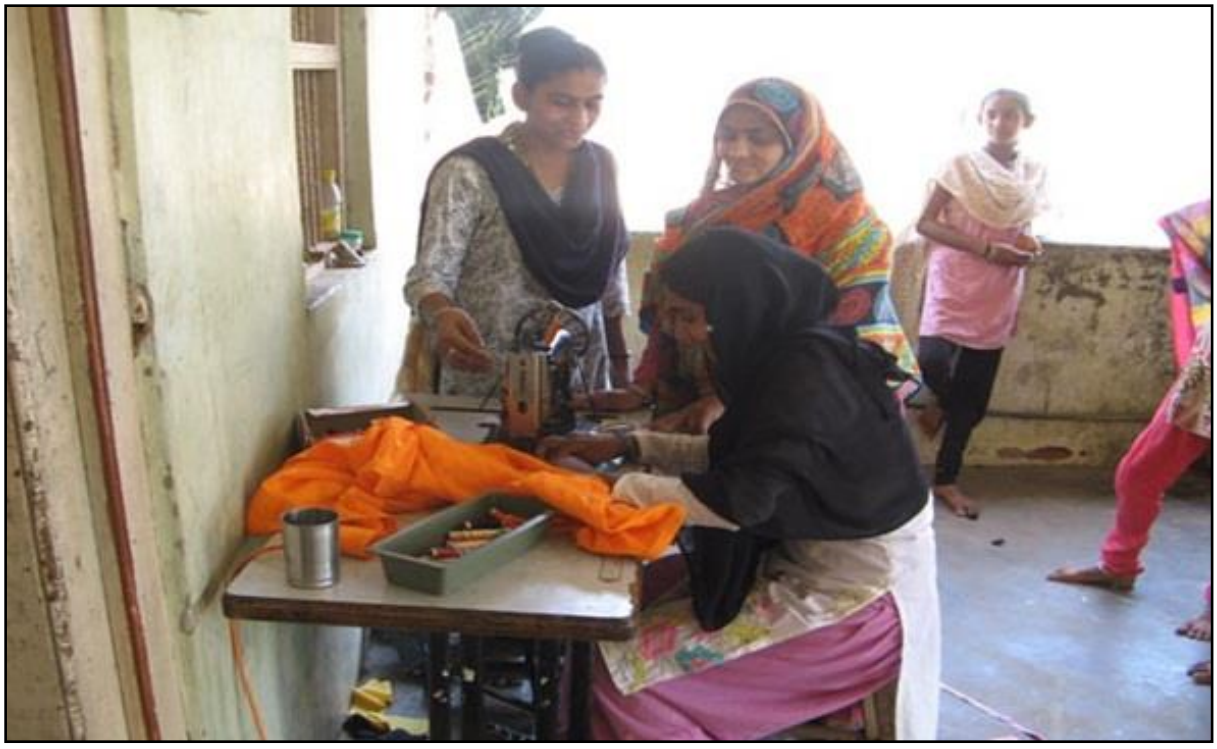
General Information :

1.	Name	:	Makanojiya Fatemaben Khaiyumbhai
2.	Full address	:	At.:Samoda, Ta.: Sidhpur Mobile No. 9016801458
3.	District	:	Patan
4.	Education	:	8 Std.
5.	Age	:	39 year
6.	Occupation	:	House works
7.	Training	:	Tailoring course in women and children garment
8.	Venue	:	KVK Samoda
9.	Total No.of participants	:	09
10.	Income before training	:	1500=00 Rs./month
11.	Date of training	:	1/9/2014 to 30/9/2014
12.	Date of starting	:	November-2014

KVK Patan have organized long term vocational training programme on Tailoring in Women garments with 09 participants. During the training they were trained on various aspects of Tailoring like Drafting, Measurement cutting, sewing & stitching of ladies dress & punjabi kurta. After the completion of successful training. One of the trainee name Makanojiya Fatemaben Khaiyumbhai have started to make the women garments at their home with two sewing machines from November-2014. At present She is also imparting training to other farm women about this. A follow up study has been made by S.M.S. (Home Science) and it was observed that She is earning more than 4000=00 Rs. Per month from November-2014 to March-2015 from the Tailoring occupation.

PHOTOGRAPHS





SUCCESS STORY - 2

NURSERY MANAGEMENT OF CHILLI SEEDLINGS

General Information :

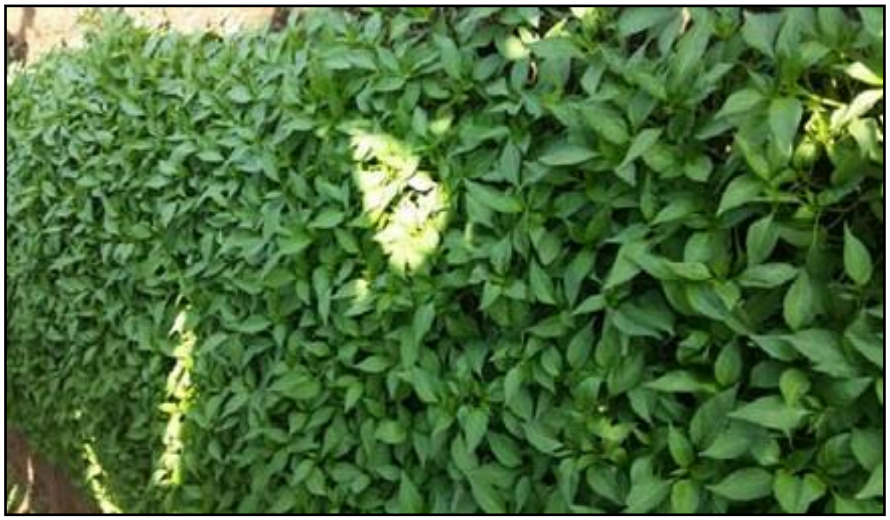
1. Name	:	Patel Vinubhai Ishwarbhai	
2. Full address	:	At.:Chandravati, Ta.: Sidhpur	
		Mobile No. 9714883115	
3. District	:	Patan	
4. Education	:	S.S.C.Pass	
5. Age		:	38 year
6. Occupation		:	Agriculture
7. Land holding (ha.)	:	1.0	
8. Irrigated (ha.)	:	1.0	

Brief Information :

Shri Vinubhai Ishwarbhai patel residing at village Chandravati, Ta.-Sidhpur, Dist.:Patan which is 23 km. away from, KVK,Patan. He is enthusiastic farmer. He is interested to earn more money from small size of Land holding. He often visited KVK and participated the various training programme of KVK. He had jointly 1 ha. Land with irrigation facility. He is interested in Nursery management of Chilli seedling. Under the guidance & frequent visit of S.M.S. Horticulture, he had made Nursery of chilli seedling in 0.25 acre land. He has been trained in land preparation, fertilizer management, sowing, weeding & plant protection measures. He earned 46,500 Rs. From 0.25 acre land of Nursery.

Income expenditure statement for Nursery of Chilli seedling (0.25 acre)

Sr.No.	Particulars	Cost	Production	Gross Return (Rs.)	Net Return (Rs.)
1.	Seed	5000 Rs.	180000 seedlings	63000	46500
2.	Vermi compost	3000 Rs.	Sold @ 350 Rs./1000 seedlings		
3.	Castor cake	500 Rs.			
4.	Chemical fertilizer (Urea, DAP)	600 Rs.			
5.	Pesticides	800 Rs.			
6.	Labour cost for weeding, Irrgation etc.	6000 Rs.			
7.	Miscellaneous	600 Rs.			
	Total :	16500 Rs.			



SUCCESS STORY - 3

INTEGRATED PESTS MANAGEMENT IN CHILLI

(a) Socio economic Back ground :

1. Name : **Patel Vineshbhai Natvarlal**
2. Full address : At.:Biliya, Ta.: Sidhpur
   Mobile No. 9558075704
3. District : Patan
4. Education : 9th Pass
5. Age : 42 year
6. Occupation : Agriculture

(b) Resources :

Land : 2.25 ha.
Tube well : 01
Farm machinery : Tractor, Sprayer, Duster & other implements

(c) Technology adopted :

Progressive farmers of the chilli growing area i.e. village Biliya were frequently visited KVK Patan for taking information & awareness of latest agril technology. Among these farmers. Shri Vineshbhai is progressive and enthusiastic. He is interested in adoption of Integrated pests management practice in chilli.

He has grown crops like Cotton, Castor, Wheat, Chilli etc. Among the crops he has cultivated chilli crop in 0.25 ha., with an objective of decrease the cost of pesticides as well as resistance problems in pests.

Aphid, Jassid, Whitefly, Mycoplama, Nematodes, Heliothis, Anthracnose & Dieback are the major pests of the crop & cause significant damage.

During the year 2014 he has applied IPM practices in chilli crop in his field under the guidance of technical personnel of the KVK

IPM practices applied in the chilli field were the integratation of cultural practices viz. use of healthy seedlings & Inter cropping with marigold, mechanical practices viz. Installation of phaeromantrap, Biological practices viz., application of NPV @ 250 LU and B.T. Powder as well as application of NSKE @ 5% and chemical control measures by systemic & contact pesticides for pest & disease management.

(d) **Income expenditure statement :**

Area	:	0.25 ha.
Production	:	40 qtl.
Av.Selling prise	:	3250 Rs./qtl.
Gross income	:	1.30 lakh
Expenditure	:	0.42 lakh
Net income	:	0.88 lakh

Farmers of the village are appreciated with this practices and inspired to adopt this IPM practices

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
(4) Museum regarding agril. Technology

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	Spectrophotometer	01	1,10,294=00
2	Flame Photometer	01	
3	PH meter	01	18,630=00
4.	Conductivity 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 2014-15

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).

Name of specific technology/skill transferred	No.of participant	% of adoption	Change in income	
			Before (Rs./unit)	after (Rs./unit)
Improved variety				
Castor-GCH-7	30	75	80000/ha.	95000/ha.
Green-gram-GM-4	19	47.5	-	-
Fennel-GF-12	18	45	78000/ha.	100000/ha.
Wheat-GW-366	16	40	36500/ha.	45000/ha.
Cumin-GC-4	28	70	38500/ha.	50000/ha.
Integrated Nutrient management				
Use of sulphatic fertilizer in oil seed crops	28	70	-	-
Use of ZnSO4 in Wheat	22	55	-	-
Use of ZnSO4 & MgSO4 in Cotton	20	50	-	-
Use of Sardar amin granules in Cotton	21	52.5	-	-
Use of Bio fungicide (Trichoderma spp) for wilt disease management in Cumin	16	40	-	-
Weed management in Wheat & Cumin	23	57.5	-	-
Drip irrigation in fruits & vegetable crops	08	20	-	-
Use of vermin compost	10	25	-	-
Colostrums feeding in calf raising	34	85	-	-
Scientific method of storage of food grain	24	60	-	-
Use of preservatives in fruit & vegetable preservation	15	37.5	-	-
Kitchen gardening	08	20	-	-

- **Actual study by questionnaire with forty ex-trainee.**

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.	Introduction of improved variety of Tobacco	Majority of the farmers have adopted GCT-4 variety of Tobacco
6.	Micro irrigation system	-Some of the farmers have adopted the MIS in horticultural crops -Day by Day area under MIS increased significantly
7.	Colostrums feeding in calf raising	Most of the live stock keepers have adopted the use of colostrums feeding technology
8	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

Sr.No	Details	Impact
1.	Introduction of GCT-4 variety of Tobacco	Majority of the farmer have grown GCT-4 variety of Tobacco
2.	Introduction of improved variety of Pomegranate	At present 454ha. Cultivation of Pomegranate
3.	Adoption of MIS in fruits & vegetable crops	About 2000 farmers have adopted MIS in fruit & vegetable crops with 4600 ha. Land
4.	Scientific cultivation of kagzi lime	Scientific cultivation of kagzi lime is grown in 20.0ha.
5.	Nursery raising for vegetable crops	2 farmers have started nursery for raising seedlings
6.	Tailoring in women & children garments	6 farm women have started tailoring in women & children garments and they earn average 4000 Rs. Per month.

5 LINKAGES

5.1 Functional linkage with different organizations

Sr. No.	Name of Organization	Nature of Linkage
1.	Department of Agriculture, Horticulture and Animal Husbandry, Patan	-Training and demonstration of Agril. Technology. -Awareness regarding horticulture development scheme -Training on live stock production and management.
2.	Gujarat State Fertilizer & Chemical Company and Gujarat Narmadavally Fertilizer Company	Training programme on fertilizer management
3.	Sardarkrushinagar Dantiwada Agriculture Univeristy, S.K.Nagar	Technical back stopping
4.	ATMA, Patan	Training & demonstration of Agril. Technology and organization of krishi mela
5.	Farmer Training Centre, Patan	Linkage for imparting training to farmers, farm women & Rural youth
6.	IWMP, Patan	Imparting training to the extension functionaries, farmers & farm women
7.	Central Warehousing Corporation, Ahmedabad	Scientific storage of food grain.

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

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

5.3 Details of linkage with ATMA

Sr.No.	Programme	Nature of linkage	Remarks
1.	Training to extension functionaries of ATMA (SMS & BTM)	-SHG formation & management -PRA techniques for training need assessment	
2.	Training programme for practicing farmers	Promotion & motivation of MIS in Horticultural crops	
3.	Training programme for farm women	Minimization of nutrient losses while cooking	
4.	Kisan gosthi & training programme for farmers	Importance of summer ploughing & green manuring for higher crop production	
5.	Training programme for practicing farmers	Motivation & promotion of vegetable cultivation	

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	4000sq.mt.					
	Lime			Kagzi lime	Sapling (No.)	1254	800/-	12570/-
	Papaya			Madubindu	Sapling	642	700/-	1926/-
	Pomegranate			Sinduri	Sapling (No.)	35	-	350/-
	Ornamental Plants			-	Sapling (No.)	445	-	4450/-
	Tobacco			GCT-4	Sapling (No.)	44920	3100/-	11230/-
2.	Orchard							
	Pomegranate	2012-13	3500 sq.mt.	Sinduri	Tree (No.)	216	510/-	-
3.	Vermi compost	2003-04	200sq.mt.	-	Compost bag (50 kg. each)	2320	4000/-	8410/-

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.)		
				Variety	Type of produc	Qty. (qt.)	Cost of inputs	Gross income	Remark
Castor	13/8/13 to 19/8/13	-	4.75	GCH-7	Bulk	33.34	14856/-	139820/-	-
Mustard	19/10/13	13/3/14	1.25	GM-3	Bulk	5.90	3318/-	20500/-	-
Tobacco	18/11/13 to 26/11/13	15/4/14	1.25	GCT-4	Bulk	17.95	12564/-	100375/-	-
Wheat	9/12/13	2/4/14	0.50	GW-496	Seed	11.20	4797/-	28900/-	-
Cotton	9/6/14	-	0.75	G.Cotton-Hy.8 (BG-II)	Bulk	-	1425/-	-	Fail due to excess rain throughout season

Name of	Date of	Date of	Area	Details of production	Amount (Rs.)	

the crop	sowing	harvest	(ha.)	Variety	Type of produce	Qty. (qt.)	Cost of inputs	Gross income	Remark
Green-gram	22/7/14	-	0.75	GM-4 Breeder	Seed	-	1200/-	-	Fail due to excess rain throughout season
Black-gram	22/7/14	-	0.75	Gu.Urid-1 Breeder	Seed	-	1200/-	-	Fail due to excess rain throughout season
Guar	22/7/14 to 23/7/14	-	2.00	GG-1	Seed	-	2550/-	-	Fail due to excess rain throughout season
Castor	7/8/14 to 12/8/14	-	4.00	GCH-7	Bulk	-	14916/-	-	Crop is is standing position
Chilli	1/8/14	-	0.25	GC-3	Bulk	12.18	6008/-	29504/-	
Mustard	20/10/14	-	0.50	GDM-4	Seed	-	1425/-	-	Seed purpose so product yet to sale
Tobacco	6/11/14 to 8/11/14	-	1.00	GCT-4	Bulk	-	11826/-	-	Crop is in harvesting stage
Wheat	18/11/14	-	1.00	GW-366 (founda-tion)	Seed	-	5778/-	-	Crop is in harvesting
S,Bajra	3/3/15	-	0.5	Nandi-61	Bulk	-	2293/-	-	Crop is in 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	
-	-	-	-	-	-	-	-

6.5 Utilization 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-2014 28/4/14 to 29/4/14	Preventive measures to control the sucking pest & para wilt in BT Cotton	17	17	-
Total		**17**	**17**	**-**
May-2014 2/5/14 to 3/5/14	PRA techniques for need assessment formation management of SHG	13	13	-
21/5/14 to 31/5/14	Nursery raising	10	80	-
Total		**23**	**93**	
June-2014 1/6/14 to 5/6/14	Vermi compost IPM PRA technique	10	40	-
6/6/14 to 20/6/14	Nursery raising & vermin compost IPM PRA technique	11	165	
17/6/14 to 18/6/14	Nursery raising of Papaya	23	23	
Total		**44**	**228**	**-**
July-2014 30/7/14 to 31/7/14	Precautionary measures of pest & disease management in Castor	18	18	-
Total		**18**	**18**	**-**
August-14 22/8/14 to 23/8/14	Bakery Products	15	15	-
Total		**15**	**15**	**-**
Sept.-2014 4/9/14 to 6/9/14	Bharat Nirman voluntier	30	60	-

Months	Title of the training	No.of trainees	Trainee	Reason for

	course/Purpose of stay	stayed	days (days stayed)	short fall
19/9/14 to 20/9/14	Training & awareness programme for progressive farmers on post harvest technology	30	30	
Total		**60**	**90**	**-**
Oct.-2014 10/10/14 to 11/10/14	Preparation and preservation of Aonla products	14	14	-
Total		**14**	**14**	**-**
Nove.-14 19/11/14 to 20/11/14	Preparation and preservation of Aonla products	35	35	-
Total		**35**	**35**	**-**
Dec.-14 22/12/14 to 31/12/14	Kendra Nivas , Vedchhi	04	40	
26/12/14	Technology week	25	25	
Total		**29**	**65**	
Jan.-15 1/1/15 to 21/1/15	Kendra Niwas Vedchhi	04	80	
1/1/15 to 31/1/15	Kendra Niwas Ratanpur	02	60	
1/1/15 to 2/1/15	Value addition in fruits and vegetables	18	18	
Total		**24**	**158**	

DEMONSTRATION UNIT

Seed production- Wheat

Seed production-Mustard

DEMONSTRATION UNIT

Vermi Compost Unit

Nursery Unit

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	063
	MDCC	Kahoda	04

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

Item	Released By ICAR		Expenditure		Unspent balance as on 1st April 15
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
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 2015
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
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 2015
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
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-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.	Travelling 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**

(2) KVK funds during the Year-2014-15

Sr. No	Particulars	Sanctioned (In lacs)	Released	Progressive Expenditure up to 31st March-15
A.	**RECURRING CONTIGENCES**			
1.	Pay and allowance	77.00	77.00	75,07,059=00
2.	Travelling allowance	00.50	00.50	30,476=00
3.	Contingencies			
a.	Stationery, telephone, postage and other expenditure on office running publication of Newsletter and library maintenance (Purchase of News paper & Magazines)	01.60	01.60	1,89,988=00
b.	POL, repair of vehicle, tractor and equipment			1,05,977=00
c.	Meals/refreshment of trainees (ceiling up to Rs.40=00 day/trainees be maintained)	02.40	02.40	97,907=00
d.	Training materials (Postage, chards, demonstration materials including chemicals etc required for conducting the training			10,460=00
e.	Front Line demonstration except oilseed and pulses (Minimum of 30 demonstration)			2,88,328=00
f.	On farm testing (On need based location specific and newly generated information in the production system on the area)			26,390=00
g.	Training of extension functionaries			14,480=00
h.	Maintenance of building			683=00
i.	Establishment of soil, plant & water testing laboratory			-
j.	Library			-
	TOTAL –A	**81.50**	**81.50**	**82,71,748=00**
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)	**81.50**	**81.50**	**82,71,748=00**

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-2012 to March-2013	1,54,656=00	4,25,917=00	4,23,780=00	1,56,793=00
April-2013 to March-2014	1,56,793=00	8,23,787=00	4,85,351=00	4,95,229=00
April-2014 to March-2015	4,95,229=00	4,76,686=00	6,58,535=00	3,13,380=00

* Note : As on 15/4/2015 Revolving fund – 5.68 lakh

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

8.1 Constrains :

(a) Financial :-

- Contingency grant is not enough for various activities of KVK

(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

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	Koita	5539	Nayata	6846
		Kansa	5081	Aghar	6695
		Vamaiya	5228	Hosapur	5021
		Vayad	6235	Der	9047
		Sopra	7418	Kungher	6261
		Sariyad	6067	Balisana	10132
		Ranuj	6874	-	-
2.	Sidhpur	Kakosi	9734	Biliya	5990
		Dindrol	7454	-	-
3.	Chanasma	Dhinoj	10396	Vadavli	5169
		Sansar	7493	-	-
4.	Harij	-	-	-	-
5.	Sami	Sami	12591	Shankheshwar	9042
6.	Radhanpur	-	-	-	-
7.	Santalpur	Varahi	9824	**Santalpur**	**6006**
	Total	**13**	**99934**	**10**	**70209**

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.	Patan	Rural	17030	15429	32459	10.28	570	515	1085	0.34
		Urban	6745	6097	12842	9.60	2028	1960	3988	2.98
		Total	**23775**	**21526**	**45301**	**10.07**	**2598**	**2475**	**5073**	**1.12**
2.	Sidhpur	Rural	8364	7585	15949	11.27	314	267	581	0.41
		Urban	3664	3425	7089	9.90	769	684	1453	2.02
		Total	**12028**	**11010**	**23038**	**10.81**	**1083**	**951**	**2034**	**0.95**
3.	Chanasma	Rural	5281	4866	10147	8.84	117	105	222	0.19
		Urban	894	838	1732	10.87	71	54	125	0.78
		Total	**6175**	**5704**	**11879**	**9.09**	**188**	**159**	**347**	**0.27**
4.	Harij	Rural	3597	3438	7035	9.47	15	9	24	0.03
		Urban	699	619	1318	6.50	283	258	541	2.67
		Total	**4296**	**4057**	**8353**	**8.83**	**298**	**267**	**565**	**0.60**
5.	Sami	Rural	8373	7972	16345	8.94	191	192	383	0.20
		Urban	0	0	0	0.00	0	0	0	0.00
		Total	**8373**	**7972**	**16345**	**8.94**	**191**	**192**	**383**	**0.20**
6.	Radhanpur	Rural	3306	3137	6443	6.15	1286	1251	2537	2.42
		Urban	1818	1686	3504	8.85	495	519	1014	2.56
		Total	**5124**	**4823**	**9947**	**6.89**	**1781**	**1770**	**3551**	**2.46**
7.	Santalpur	Rural	4419	4126	8545	6.63	696	654	1350	1.04
		Urban	0	0	0	0.00	0	0	0	0.00
		Total	**4419**	**4126**	**8545**	**6.63**	**696**	**654**	**1350**	**1.04**
	District Total	**Rural**	**50370**	**46553**	**96923**	**9.12**	**3189**	**2993**	**6182**	**0.58**
		Urban	**13820**	**12665**	**26485**	**9.42**	**3646**	**3475**	**7121**	**2.53**
		Total	**64190**	**59218**	**123408**	**9.18**	**6835**	**6468**	**13303**	**0.99**

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 : 131016
2. Buffalo : 363514
3. Sheep : 53750
4. Goat : 102937
5. Horse : 737
6. Camel : 3357
7. Poultry : 22079
8. Donkey : 3354

(III) MILK CO-OPERATIVE SOCIETY OF THE DISTRICT

Sr.No.	Name of the taluka	No.of the milk co-operative society
1.	Patan	140
2.	Sidhpur	64
3.	Chanasma	67
4.	Harij	45
5.	Sami	88
6.	Radhanpur	66
7.	Santalpur	68
	Total	**538**

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

Sr.No	Name of Taluka	Cumin	Fennel	Dill seed (Suva)	Fenugreek	Total
1.	Chanasma	1000	2120	50	104	3274
2.	Harij	1500	120	55	352	2027
3.	Patan	1325	269	130	285	2009
4.	Radhanpur	14245	36	550	34	14865
5.	Sami	19525	15	3620	0	23160
6.	Santalpur	10540	0	450	03	10993
7.	Sidhpur	900	420	70	97	1487
	Total	**49035**	**2980**	**4925**	**875**	**57815**

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

Sr.No.	Name of Taluka	Fruits	Vegetables	Total fruits vegetable
1.	Chanasma	311	467	778
2.	Harij	288	345	633
3.	Patan	590	2535	3125
4.	Radhanpur	220	344	564
5.	Sami	320	393	713
6.	Santalpur	76	256	332
7.	Sidhpur	395	1429	1824
	Total	**2200**	**5769**	**7969**

AGRO CLIMATIC ZONES

S. N.	Agro-climatic Zone	Characteristics
1.	North Gujarat Agro climatic 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

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 FARMING SYSTEMS

S. No	Farming system/enterprise
1.	Livestock raising with crop production (mixed farming)
2.	Livestock raising only
3.	Poultry Farming.
4.	Cropping system predominant in district - Mono cropping - Mix cropping - Inter cropping - Relay cropping

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	Lucerne	Bajara
Mothbean	Potato	Bajara
Fallow	Dill seed	Fallow
Fallow	Safflower	Fallow
Fallow	Gram	Fallow

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**

   Varsila, Ganeshpura, Mudwada, Nedra, Chandravati, Ganglasan, Chandensar, Dhanawada, Mesar, Ruvavi, Hajipur, Golapur, Muna, Maniyari, Pimpal, Ambapura, Vadavli, Gujarvada, Gochanad, Mubarakpura, Sodhav, Boratvada, Nayatvada, bhilot, Kamalpur, Sinad, Varahi

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**

   -With a view to increase area under horticultural crop cultivation, pomegranate, Papaya & Kagzilime can be grown in the district.
   -Due to increasing facility of canal irrigation in Harij, Chanasma & Sami taluka. It is easy to cultivate crops like Wheat, Cotto, Castor & Fodder crops

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 laboure

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 & Improvement

(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.

(g) Renewable energy

-Solar cooker

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, GDM-4
Green-gram	:	G.M.-4
Black-gram	:	G.U.-1
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)
Carrot	:	G.D.C.-1

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	2004	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	
13.	G.D.C-1	Carrot	2013	S.D.A.U.-SKNagar	
14.	G.Cot.Hy.-8 (BG-II)	Cotton	2013	NAU Navsari	

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 NAU, Navsari
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

Crop/ Animal enterprise	Problem	Cause	Solution	Activity	Reference of technology
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 kagazi lime variety -Poor knowledge regarding plant protection & fertilizer management in Lime crop	-To provide seedling of kagazi 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

DETAIL 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.	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.
5.	Carrot	G.D.-1	Variety released in the year of 2013. Growth of plants like Garba shape. Leaves of the plant have green color with hairy growth on it length of root is about 22.0 cm. with 10.8 cm. width. Average weight of the root is 79.8 gm. With red color optimum production of the variety is 44.8 M.ton./ha.
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 :-

(1) Cumin :- IDM

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.

(2) Cotton + Castor

-Relay cropping in Cotton by Castor

-Sowing time : Cotton 1st wk. of June

Castor : 2nd wk of August

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.	Cumin	Trichoderma	All India
7.	Cotton	G.Cot.Hy.-8 (BG-II)	Gujarat State
8.	Black-gram	G.U.-1	Gujarat State
9.	Carrot	G.D.C.-1	Gujarat State
10.	Mustard	G.D.M.-4	Gujarat State