ANNUAL PROGRESS REPORT

(APRIL-2018 TO MARCH-2019)

SUBMITTED TO

ICAR-ATARI,

ZONE-VIII, PUNE

SUMITTED BY

KRISHI VIGYAN KENDRA

SAMODA-GANWADA

TA.SIDHPUR, DIST.PATAN (GUJARAT)

ICAR-ATARI, Pune

DETAILS OF ANNUAL PROGRESS REPORT OF KVK, District – Patan (Gujarat)

(1st April 2018 to 31st March 2019)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
Krishi Vigyan Kendra Saraswati Gram Vidhyapith Samoda-Ganwada Ta.Sidhpur, Di. Patan Gujarat, Pin. 384 151	Office	FAX	kvksamoda@yahoo.com	
	02767 285528	02767 285528		

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

Address	Telephone		E mail	Website address
	Office	FAX		
Saraswati Gram Vidyapeeth, Samoda-Ganwada Ta.Sidhpur, Di. Patan Gujarat, Pin. 384 151 (N.G.)	02767 285199	02767 285528	kvksamoda@yahoo.com	-

1.3. Name of the Senior Scientist and Head with phone & mobile no.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Upesh Kumar Senior Scientist and Head Krishi Vigyan Kendra Samoda-Ganwada Ta.Sidhpur, Di.Patan Gujarat Pincode-384151	02767 285528	9425661514	kvksamoda@yahoo.com

1.4. Year of sanction: 1993

1.5. Staff Position (as on March 31, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, Please indicate			Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Pay Band	Current Grade Pay	Current basic		
1.	Senior Scientist and Head	Dr.Upesh Kumar	Plant Pathology	PB-4 - 37,400-67000	9000	49240	01/10/2016	-
2.	Subject Matter Specialist	Shri G.A.Patel	Plant Pathology	PB-3 - 15600-39100	6600	40450	06/5/1993	-
3.	Subject Matter Specialist	Shri H.P.Patel	Extension Education	PB-3 - 15600-39100	6600	40450	08/5/1993	-
4.	Subject Matter Specialist	Smt. H.B.Patel	Home Science	PB-3 - 15600-39100	6600	34280	19/8/2002	-
5.	Subject Matter Specialist	Shri S.S. Darji	Horticulture	PB-3 - 15600-39100	5400	25080	02/4/2012	-
6.	Subject Matter Specialist	Shri R.P.Chaudhari	Agronomy	PB-3 - 15600-39100	5400	22950	16/4/2015	-
7.	Subject Matter Specialist	Shri S.J.Patel	Animal Science	PB-3 - 15600-39100	5400	22280	01/09/2016	-
8.	Programme Assistant	Smt. J.S.Patel	-	PB-2 - 9300-34800	4600	26740	27/7/1996	-
9.	Computer Programmer	Shri D.R.Patel	-	PB-2 - 9300-34800	4600	23840	06/05/1993	-
10.	Farm Manager	Shri D.N.Patel	-	PB-2 - 9300-34800	4600	27240	22/2/1996	-
11.	Accountant/Superintendent	Shri N.B.Patel	-	PB-2 9300-34800	4600	27290	25/1/1996	-
12.	Stenographer	Shri J.K.Patel	-	PB-1 5200-20200	2800	13110	25/01/1996	-
13.	Driver 1	Shri R.A.Patel	-	PB-1 - 5200-20200	2000	10250	14/8/2010	-
14.	Supporting staff 1	Shri R.H.Desai	-	PB-1 - 5200-20200	1900	12060	14/5/1993	-
15.	Supporting staff 2	Shri R.D.Thakor	-	PB-1 - 5200-20200	1900	12060	25/1/1996	-
16.	Supporting staff 3	Shri P.V.Senma		PB-1 - 5200-20200	1900	12060	25/1/1996	-

1.6. Total land with KVK (in ha) :

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

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	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 (9)	ICAR	1996-97	731	16,89,512=74	-	-	-
4.	Demonstration Units (2)	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	ICAR	2006-07	262.89	2,68,039=00	-	-	-
8	Farm Godown	ICAR	2006-07	44.89		-	-	-
9.	Implement shed	ICAR	2011-12	-	285640=00	-	-	-
10.	Other	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	1992-93	1,82,910=00	-	Not in working
Jeep	2009-10	7,60,236=00	174963	Working
Motorcycle	2010-11	49,695=00	51904	Working

C) Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Slide Projector/ O.H.P.	1994	23,969=00	Working
Mega Phone	1994	2,140=00	Working
Computer + Printer	2006	66,530=00	Working
Stabilizer	2006	1,750=00	Working
LCD Projector	2007	54,326=92	Working
DVD Player	2007	3,846=16	Working
Laptop	2007	39,423=08	Working
P.A. System	2009	28,600=00	Working
Computer	2009	49,500=00	Working
Generator	2009	98,500=00	Working
Fax machine	2009	19,800=00	Working
Multicrop thresher	2011	1,46,000=00	Working
Rotary weeder	2011	51,450=00	Working
Power sprayer	2011	15,855=00	Working
Seed cum fertilizer drill	2011	27,250=00	Working
K-YAN	2013	76,650=00	Working
Oven	2014	7200=00	Working
Sewing Machine	2014	8700=00	Working
Computer (Dell inspiron 3250) (No.2)	2017	68000=00	Working

Epson –M-200 printer (No.1)	2017	12000=00	Working
AC (No.2)	2017	98000=00	Working
Podium –PD-900	2017	40000=00	Working
Promax audio trally	2017	16000=00	Working
Interactive white board-IR80	2017	32000=00	Working
Double sided pinup board	2017	17050=00	Working
Folding banner stand	2017	2000=00	Working
Projection screen	2017	3200=00	Working
Camera (No.3) Canon DLSR Sony digital Sony Handy cam	 2017 2017 2017	 43495=00 8390=00 31990=00	Working
Philips 55’ digital signage display	2017	99800=00	Working
Magazin display stand (No.2)	2017	7640=00	Working
Motorized scroller	2017	17300=00	Working
Acrylic charts (57)	2017	79800=00	Working
Rolling charts (27)	2017	8910=00	Working
Standy with flex banner (No.4)	2017	3680=00	Working
GPS-Navigator	2017	8000=00	Working
Sprayers No.4) -Aspee durotekic battery sprayer -Aspee Bolo motorized knapsack sprayer -Aspee duroteck hitech sprayer	2017 2017 2017 2017	 14650=00	Working
Nursery tools	2017	35965=00	Working
Water cooler with purifier	2017	52100=00	Working
Soil testing lab kit (No.2)	2017	172000=00	Working
Chaff cutter	2017	26964=00	Working

Grinder	2017	16065=00	Working
BP monitor	2017	1200=00	Working
Weighting scale	2017	1000=00	Working
Acrylic specimen box (30)	2017	10500=00	Working
Agrimedia video film (125)	2017	13125=00	Working
Double sided pinup board (No.2)	2017	34100=00	Working

1.8. Details of SAC meetings to be conducted in the year

Date	Name and Designation of Participants	Salient Recommendations in 2018-19	Action taken report of last SAC (2017-18)
22-02-2019	❖ Sri M.L. Patel, Director, SGVP, Samoda-Ganwada, District – Patan ❖ Shri A.K.Patel, Campus Director, SGVP, Samoda-Ganwada, District – Patan ❖ Dr K.A.Thakkar, DEE, SDAU, S.K. Nagar ❖ Dr.R.A.Patel, Sr. Scientist & Head, KVK, Mahesana ❖ Shri M.J.Patel, Manager, Lead Bank, Patan ❖ Shri Rakesh Kumar Varma, D.D.M., NABARD, Patan ❖ Shri V.V. Desai, Assistant Director, G.L.D.C., Patan ❖ Solanki Sandip, D.P.D., ATMA, Patan ❖ Shri C.S.Patel, ADH, DHO, Patan ❖ A.G.Mangukiya, Incharge, G.N.F.C., Sidhpur ❖ Shri Vipul Parmar, Incharge, G.S.F.C., Sidhpur ❖ Shri J.P.Patel, Deputy Manager (A H), Dudha Sagar Dairy, Sidhpur ❖ Dr.B.S.Patel, VO, Veterinary Dispensary, Sidhpur ❖ Smt Dipali Desai, AO, Agriculture Department, Sidhpur ❖ Shri Bharat K.Chaudhary, News Reporter, D.D.News, Patan ❖ Shri J.K.Prajapati,, Reliance foundation, Patan ❖ Shri V L Chaudhary, Progressive	❖ KVK promote IFS model among the farming community. ❖ Require more focus on popularization of organic farming. ❖ To promote Horticulture crop cultivation in district ❖ To create awareness regarding use of Bio-pesticides & Bio-fungicides ❖ To promote the Green manuring for better soil health ❖ To organize Animal Health Camp with the co-ordination of Department ❖ To promote Azolla as Animal feed ❖ Aware to farmers about Hay/ Silage making ❖ Functional linkage should be developed in NABARD activities ❖ Focus on FPOs development & strengthening ❖ Technical guidance should be provided by KVK scientist ❖ To create awareness regarding balance use of chemical fertilizer ❖ To create awareness regarding use of water soluble fertilizers as well as micronutrient in field crop ❖ KVK should develop commodity based group in adopted villages ❖ KVK should provide technical backup for conducting FFS ❖ To develop strong linkage between KVK &	❖ Training – 06 No (128 Participants) ❖ Lecture delivered – 02 No (100 Participants) ❖ CD Show- 02 No (68 Participants) ❖ KVK sale - 3310 Kg Vermi compost ❖ KVK directly covered in all taluka except Radhanpur & Santalpur. Thesetwo taluka are also covered by KVK through convergence programme of other department ❖ IFS Model is established at KVK & Rs 65,156 income received in 1 Ha IFS Model ❖ Training – 05 No (139 Participants) ❖ Lecture delivered – 01 No (40 Participants) ❖ CD Show- 01 No (40 Participants) ❖ FLD - 06 No of FLDs (369 No of Demo.) ❖ KVK sale 6031 No of sampling of fruit plants, 15000 No of seedling of vegetables. ❖ Enhancing the area under horticultural crop with convergence programme of KVK &ATMA ❖ With convergence of department, KVK organized 03 No of Animal Health Camp ❖ KVK conducted OFT on By pass fat & By pass protein & FLD on Probiotic, & Mineral mixture ❖ KVK Conducted 02 No of Farmers training, 01 No of training to extension functionaries, 01 No of FLD, 02 No of Field Day & regularly visit to farmers field for promotion

	Farmer, Village - Nagvasan ❖ Shri V V Patel, Progressive Farmer, Village - Danodarda ❖ Smt. Kajal J., Progressive Farm women, Village - Chandravati ❖ Smt. Jinal K., Progressive Farm women, Village - Chandravati ❖ Dr Upesh Kumar, Member Secretary and Senior Scientist & Head, KVK, District – Patan	Reliance foundation in all the activities. ❖ To promote live stock production for regular income ❖ To promote the value addition activities ❖ KVK aware to farming community about vermin compost production technology ❖ KVK should provide good quality of seed and sampling. ❖ KVK should organized the exposure visit ❖ More emphasis should be given on Rural craft activities for empowerment of rural income.	of round the year green fodder production ❖ KVK conducted 06 No of training, 02 No of training to extension functionaries, & 04 No of FLD for promotion of liquid bio fertilizer & STV based nutrient management ❖ KVK conducted 02 No of training to farmers & 01 No of FLD for promotion of green manuring in castor ❖ KVK regularly provide the technical support to line department as well as NGOs/ Private organization working in agriculture field

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	Crop production – Dairy
2.	Crop Production – Horticulture – Dairy
3.	Poultry Farming.
4.	Cropping system predominant in district - Castor - Cotton - Green gram/ Black gram/ Cluster bean – Wheat/ Mustard/ Chickpea/ Cumin / Funnel – Pearl millet

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

a) Soil type

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

b)Topography

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 Types

S. No	Soil type	Characteristics	Area in ha
1.	Heavy black soil	- High Water holding capacity - Low permeability - Water logging condition - Fertile soil	30400
2.	Medium black soil	- Medium WHC - Medium permeability - Fertile soil	334400
3.	Loamy soil	- More retain water and nutrient than sandy soil and low retain water and nutrient 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 crops cultivated in the district

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
A	**Field Crop**			
	Bajra-Kharif	1065	577	5.42
	Bajra-Summer	5745	15190	26.44
	Cotton- Desi	18290	12157	6.64
	Hybrid	34900	31375.1	8.99
	Castor	111980	180960	16.16
	Mustard	29262	44420	15.18
	Wheat	40180	137355	34.18
	Pulses Gram	7180	3698	5.15
	Green-gram	894	407	4.55
	Black-gram	1789	850	4.75
	Cluster bean (Seed)	42085	25335	6.02
	Moth bean & cowpea	321	157	4.88
B	**Fruit crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2018-19**			
	Citrus	827	8766.2	10.60
	Mango	98	465	4.74
	Ber	344	3618.88	10.52

	Guava	20	179.6	8.98
	Pomegranate	646	7106	11.00
	Date Palm	165	1325	8.03
	Papaya	125	5240	41.92
	Aonla	152	1299.6	8.55
	Total/ Average	**2377**	**28000.28**	**11.78**
C	**Vegetable crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2018-19**			
\	Potato	767	16877.57	22.00
	Brinjal	343	6469.8	18.86
	Cabbage	210	3792	18.06
	Tomato	160	3987.2	24.92
	Cauliflower	290	5460	18.83
	Cucurbits	657	8731.08	13.29
	Total/ Average	**2427**	**45317.65**	**18.67**
D	**Spice crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2018-19**			
	Cumin	41672	214246.3	5.14
	Fennel	3360	7727.7	2.30
	Garlic	1	5.6	5.60
	Coriander	30	50.7	1.69
	Turmeric	3	41.01	13.67
	Fenugreek	900	1782	1.98
	Isangul	114	129.96	1.14
	Ajwain	200	195	0.98
	Suwa	3300	4785	1.45
	Total/ Average	**49580**	**228963.3**	**4.62**
E	**Flower crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2018-19**			
	Rose	42	365.82	8.71
	Marigold	48	439.99	9.17
	Mogra	2	16	8.00
	Other	2	16	8.00
	Total/ Average	**94**	**837.81**	**8.91**

Source: District agriculture/ Horticulture/ Animal Husbandry department.

2.5. Weather data (2018-19)

Month	Rainfall (mm)	Temperature 0 C	
		Maximum	Minimum
April-18	-	39.36	23.89
May-18	-	40.91	27.82
June-18	-	38.85	26.35
July-18	-	33.48	21.08
August-18	165 mm	30.96	23.84
September-18	72 mm	31.76	23.04
Oct.- 18	-	31.00	24.08
Nov.- 18	-	30.84	20.07
Dec.- 18	-	25.29	11.97
Jan.-19	-	24.30	9.92
Feb.-19	-	27.27	13.06
March-19	-	33.40	19.30

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

Category	Population	Production	Productivity
Cattle			
Crossbred	123530	1104	3.68 kg./day
Indigenous	7493	2520	8.40 kg./day
Buffalo	363514	1350	4.50 kg./day
Sheep			
Crossbred	53750	-	-
Indigenous	-	-	-
Goats	102937	-	-
Pigs	131	-	-
Crossbred	-	-	-
Indigenous	-	-	-
Rabbits	185	-	-
Poultry			
Hens	26210	7207750 egg./yr.	275 egg./bird/yr.

2.7. Details of Operational area / Villages

Taluka	Name of sub division	Name of the Village	Major crops & enterprises	Major problem identified	Identified thrust area
Sidhpur Patan Chanasma Sami	Patan	Madhupura, Sagodia, Vamaiya, Matpur, Khimiyana Danodarda Lanva Biliya Chandrawati Kanesara Ganglasan Kakoshi	Castor Cotton Mustard Wheat Bajra Cumin Fennel Tobacco Carrot Pomegranate Kagzi lime Chilli	-Average productivity is low in major crop. -Leaf curl infestation in chilli -Low ground water table. -Soil productivity status is low -Problematic soil- Saline & Alkaline soil -Flower dropping in cotton -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 -Pink ball worm infestation in BT Cotton -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 -Micro irrigation system -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 -No use of micronutrient in fruits & vegetable crop
Shankheshwar Harij Radhanpur Santalpur	Radhanpur	Kukarana, Kathi, Orumana, Tuvad Biliya Kuwarad	Cumin Ajwain Gram Guar Castor Wheat Dilseed Desi Cotton		

2.8. Priority thrust areas:

Crop/ Enterprise	Thrust area	Crop/ Enterprise	Thrust area
Castor	Integrated Nutrient management Micro Irrigation System Integrated weed management Integrated pest management Integrated Disease management	Chilli	Nursery Management Integrated Nutrient Management Micro Irrigation System Value Addition Production Technology Integrated Disease Management Integrated Pest Management
Cotton	Integrated Nutrient management Integrated weed management Micro Irrigation System Integrated pest management Integrated Disease management	Pomegranate and Lime	Plant propagation technique Training & Pruning Rejuvenation of old orchards Micro Nutrient Application Micro Irrigation System Integrated Disease Management Integrated Pest Management Value Addition
Chickpea	Integrated Nutrient management Integrated weed management Micro Irrigation System Integrated pest management Integrated Disease management	Soil Health	Production of Organic Inputs Soil Fertility Management Management of problematic soil
Mustard	Integrated Nutrient management Integrated weed management Micro Irrigation System Integrated pest management Integrated Disease management	Live-stock	Dairy Management Feed Management Disease Management Breeding Management Production of livestock feed and fodder

			Animal nutrition management
Wheat	Integrated Nutrient management Integrated weed management Micro Irrigation System Integrated pest management Integrated Disease management	Fodder Bajra and Sorghum	egrated Crop Management egrated Nutrient Management dder production
Cumin/ Fennel/Ajwain	Production & management technology Water management Integrated Pest & Disease management Value addition	Home Science	Use of solar cooker Fruits & veg. preservation Farm women empowerment through income generation activity Drudgery reduction House hold Food Security by kitchen gardening and nutritional gardening Income generating activity Low cost & high nutrition diet Women & child care

3. TECHNICAL PROGRAMME

3.1. A. Details of targeted mandatory activities by KVK

3.1. A. Details of target and achievements of mandatory activities

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
10	10	89	89	18	18	255	245

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
77	81	1850	2123	184	204	6022	15859

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
20	18.75	10500	14394

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
		5000	10500

3.1. B. Operational areas during 2018-19

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Cotton	Imbalance use of nutrient Heavy infestation of pest- pink boll worm Heavy incidence of disease- Wilt	11,000 ha	Chansama	Training, FLD, Field Day, Field visit etc
2	Black gram	Use of old/ local variety Imbalance use of nutrient Infestation of pest Incidence of disease	1000 ha	Sankeshwar & Sami	Training, FLD, Field Day, Field visit etc
3	Castor	Imbalance use of nutrient Scarcity of irrigation water Infestation of pest Incidence of disease	75000 ha	Saraswati, Siddhapur	Training, FLD, Field Day, Field visit etc
4	Chickpea	Use of old/ local variety Imbalance use of nutrient Scarcity of irrigation water Infestation of pest- Heliothis Incidence of disease- Wilt	5000 ha	Sankeshwar & Sami	Training, FLD, Field Day, Field visit etc
5	Mustard	Use of old/ local variety Imbalance use of nutrient Scarcity of irrigation water Infestation of pest- Aphid Incidence of disease-blight	20000 ha	Chanasma & Patan	Training, OFT, FLD, Field Day, Field visit etc

6	Wheat	Imbalance use of nutrient Scarcity of irrigation water Infestation of pest- termite	25000 ha	Siddhapur	Training, OFT, FLD, Field Day, Field visit etc
7	Chilli	Imbalance use of major nutrient& no use of micro nutrient Scarcity of irrigation water Infestation of pest- sucking pest Incidence of disease – leaf curl	75 ha	Biliya, Chandrawati & Madhopura	Training, FLD, Field Day, Field visit etc
8	Fennel, Ajwain & Cumin	Use of old/ local variety Imbalance use of nutrient Scarcity of irrigation water Incidence of disease-blight	25000 ha	Danodarda, Kathi, Patan	Training, FLD, Field Day, Field visit etc
8	Milch animal- Cow & Buffalo	Heavy infestation of endo & ecto parasite No use of by pass fat No or improper use of mineral mixture Not availability of green fodder in round the year	675 % animal are affected	Madhopura, Agar, Kimbuwa, Orumana	Training, OFT, FLD, Field Day, Field visit etc

3.2.Technologies to be assessed

A.1. Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation		01								**01**
Seed / Plant production										
Weed Management										
Integrated Crop Management		01		01	01					**03**
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries	01									01
Value addition										
Integrated Pest Management	01									01
Integrated Disease Management			01			01				02
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	**02**	**02**	**01**	**01**	**01**	**01**				**08**

A.2. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Wormi culture	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management	02							02
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL	**02**							**02**

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Varietal evaluation	Castor	Assessment of Hybrid varieties in castor (GCH-8)	20	20	1.0
ICM	Mustard +Lucerne	Assessment of mixed cropping mustard with Lucerne	10	10	2.5
Farm Machineries	Wheat	Line sowing method through seed cum fertilizer drill with recommended seed rate-125 kg./ha.	10	10	2.5
ICM	Cumin + Ajwain	Intercropping – Cumin + Ajwain (4:1)	5	5	1.0
ICM	Chilli-water melon	cropping system –Chilli-water melon	4	4	1.0
IPM	Wheat	Assessment of IPM module (Seed treatment by Fipronil 5SC @ 600ml./5 lit. water/100kg seed before 8hrs of sowing and soil treatment by Fipronil 5SC @ 1.6 lit./ha. with 4th irrigation) for the management of termite in chickpea	10	10	2.5
IDM	Chickpea	Assessment of IDM module (Seed treatment by T viridae @ 10 g/Kg seed along with soil inoculation by T viridae @ 2.5 Kg/ ha) for the management of wilt disease in chickpea	10	10	2.5
IDM	Lime	Spraying of Fosetyle AL 80% WP @ 20gm./15 lit water immediately after the cutting of dry / disease twigs of the plants (2 sprays in 12-15 days interval) for management of gummosis disease	10	10	-
Total			**79**	**79**	**13**

B.2 Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Feed management	Cross breed cow	Assessment of bypass fat (rumen protected fat) in diets of cross breed cows [Use of Dry fodder, Green fodder & concentrate with bypass fats (100 gm/day/animal) in diets of cross breed cows]	05	05
Feed management	Mahesani Buffalo	Assessment of bypass protein on milk production in Mehsani buffalo (Use of green fodder, dry fodder, concentrate with bypass protein concentrate @ 1 kg per day per animal for 60 days)	05	05
Total			**10**	**10**

C1.Results of Technologies Assessed
Results of Last Year OFT - – 2017-18
OFT-1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Lime	Irrigated	Low fruit yield of lime due to incidence of Gummosis disease	Assessment of Fosetyl 80% WP fungicide for the management of Gummosis diseases in lime	10	Spraying of Fosetyle AL 80% WP @ 20gm./15 lit water immediately after the cutting of dry / disease twigs of the plants (3 sprays in 30 days interval) for management of gummosis disease management	Disease incidence (%) Yield	T_1- 21.9 % T_2- 9.62%	T1- 124.80 q/ha T2- 138.90 q/ha	Farmers are seen, in the technology reduce the disease incidence 56.07% resulted enhance the yield is 11.3%	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		124.80	Qtl/ha	190040	3.89
Technology option 2	SDAU, S K Nagar	138.90	Qtl/ha	212245	3.93

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of Fosetyl 80% WP fungicide for the management of Gummosis diseases in lime

2 **Problem Definition -** Low fruit yield of lime due to heavy incidence of Gummosis disease

3 **Details of technologies selected for assessment-** Spraying of Fosetyle AL 80% WP @ 20gm./15 lit water immediately after the cutting of dry / disease twigs of the plants (3 sprays in 30 days interval) for management of gummosis disease management

4 **Source of technology-** SDAU, S K Nagar

5 **Production system and thematic area-** Integrated Disease Management

6 **Performance of the Technology with performance indicators-**

Disease Incidence (%) – **T_1**- 21.9, **T_2**- 9.62 **Yield (Qtl/ha)**- **T_1**- 124.80, **T_2**-138.90

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques –**

Farmers are seen in technology reduce the disease incidence 56.07% resulted enhance the yield is 11.30%

8 **Final recommendation for micro level situation –** Technology of disease management of gummosis in lime is more profitable over farmers practice & recommendation for micro climatic situation.

9 **Constraints identified and feedback for research-** No any Constraints

10 **Process of farmers participation and their reaction**- Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

OFT-2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Mustard + Lucerne	Irrigated	Low net profit in existing cropping system- mustard grown as a sole crop	Assessment of mixed cropping of mustard with Lucerne	10	Mixed of mustard with Lucerne (Mustard seed – 3.5 Kg/ha + Lucerne – 5 Kg/ha)	Net Income (Rs/Ha) Yield	T_1- Rs 38420	T_1- 15.4 q/ha	Farmers are observed one more crop (Lucerne) are taken in same period resulted enhance the profitability under assessed technology	No	No

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	15.4 (Mustard)	Qtl/ha	Rs 38420	3.5
Technology option 2	SDAU, S K Nagar	17.2 (Mustard – 14.8 + Lucerne – 2.4)	Qtl/ha	Rs 53900	3.6

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of mixed cropping of mustard with Lucerne

2 **Problem Definition** Low net profit in existing cropping system- mustard grown as a sole crop

3 **Details of technologies selected for assessment-** Mixed of mustard with Lucerne (Mustard seed – 3.5 Kg/ha + Lucerne – 5 Kg/ha)

4 **Source of technology-** SDAU, S K Nagar

5 **Production system and thematic area-** Cropping System

6 **Performance of the Technology with performance indicators-**

(A) Yield (qtl/ha) **T_1- 15.4,** **T_2** -17.5 **(B) Net Income (Rs/Ha) -)** **T_1-** 34,420**,** **T_2** -59,900

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques –** Farmers are observed one more crop (Lucerne) are taken resulted enhance the profitability under assessed technology

8 **Final recommendation for micro level situation – –** The technology was found more effective over farmers practice & recommendation after compilation of next year data

9 **Constraints identified and feedback for research-** No

10 **Process of farmer's participation and their reaction-** Farmers are involved in each & every activity during identification of problem, execution of technology & data collection. Farmers are seen more profit in recommended technology over own practice (farmers Practice) resulted farmers are appreciate the technology and agreed for future adoption.

OFT-3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Chilli-Water melon	Irrigated	Low profit of present cropping system – Chilli – Fallow	Assessment of cropping system – Chilli – Cucurbit fruit for enhancing net profit	04	Chilli-Water melon	Yield (q/ha)	-	T1- 217 T2- 449	Farmers are found more net profit under technology over local practice	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	217	q/ha	1,02,729	2.26
Technology option 2	IIHR, Banglore	449	q/ha	3,04,938	3.74

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of cropping system – Chilli – Cucurbit fruit for enhancing net profit

2 **Problem Definition -** Low profit of present cropping system – Chilli – Fallow

3 **Details of technologies selected for assessment-** Chilli-Water melon

4 **Source of technology-** IIHR, Banglore

5 Production system and thematic area- ICM

6 Performance of the Technology with performance indicators-

Net Return (Rs/ha)- T1- 1,02,729 **T_2** - 3,04,938

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques – Farmer are obtain more B:C ratio (3.74 in recommended practice over 2.26 in farmers practice)resulted farmers are convinced with the technology.

8 Final recommendation for micro level situation – The technology was found more effective over farmers practice & recommendation after compilation of next year data

9 Constraints identified and feedback for research- Fruit fly is the major problem, so farmers need fruit fly resistant variety

10 Process of farmers participation and their reaction- Farmers are involved in each & every activity during identification of problem, execution of technology & data collection. Farmers are seen more profit in recommended technology over own practice (farmers Practice) resulted farmers are appreciate the technology and agreed for future adoption.

Results of On Farm Trial – 2018-19

OFT-1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Castor	Irrigated	Low yield of castor due to high male flower & incidence of wilt disease in GCH-7	Assessment of hybrid variety in castor- GCH-8	20	Hybrid variety of castor- GCH-8	Yield Qtl/ha)	-	T1- 29.1 q/ha T2- 30.8 q/ha	Farmers are convinced with the technology because under technology they found 5.8 % higher yield over own practice.	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	29.1	Qtl/ha	1,21,925	5.0
Technology option 2	SDAU, S K Nagar	30.8	Qtl/ha	1,30,100	5.1

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of hybrid variety in castor- GCH-8

2 **Problem Definition -** Low yield of castor due to high male flower & incidence of wilt disease in GCH-7

3 **Details of technologies selected for assessment-** Hybrid variety of castor- GCH-8

4 **Source of technology-** SDAU, S K Nagar

5 **Production system and thematic area-** Varietal evaluation

6 **Performance of the Technology with performance indicators-**

No of spikelet/ Plant- T_1**-** 18.9 , T_2**-** 21.1

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -** Farmers are convinced with the technology because under technology they found 5.8 % higher yield over own practice.

8 **Final recommendation for micro level situation –** The technology was found more effective over farmers practice & recommendation after compilation of next year data

9 **Constraints identified and feedback for research-** No any Constraints

10 **Process of farmers participation and their reaction-** Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

OFT-2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Mustard + Lucerne	Irrigated	Low net profit in existing cropping system- mustard grown as a sole crop	Assessment of mixed cropping of mustard with Lucerne	10	Mixed of mustard with Lucerne (Mustard seed – 3.5 Kg/ha + Lucerne – 5 Kg/ha)	Yield (qtl/ha) Net Income (Rs/Ha)	Result awaited	-	-		

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	15.2	Q/ Ha	33780	3.2
Technology option 2	SDAU, S K Nagar	M- 13.9 L- 2.2	Q/ Ha	48225	3.3

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of mixed cropping of mustard with Lucerne

2 **Problem Definition** Low net profit in existing cropping system- mustard grown as a sole crop

3 **Details of technologies selected for assessment-** Mixed of mustard with Lucerne (Mustard seed – 3.5 Kg/ha + Lucerne – 5 Kg/ha)

4 **Source of technology-** SDAU, S K Nagar

5 **Production system and thematic area-** Cropping System

6 **Performance of the Technology with performance indicators-**

(A) Yield (qtl/ha) **T_1- 15.2,** **T_2** -16.1 **(B) Net Income (Rs/Ha) -)** **T_1-** 33780**,** **T_2** -48225

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques –** Farmers are observed one more crop (Lucerne) are taken resulted enhance the profitability under assessed technology

8 **Final recommendation for micro level situation – –** The technology was found more effective over farmers practice & recommendation for micro climate condition

9 **Constraints identified and feedback for research-** No

10 **Process of farmer's participation and their reaction-** Farmers are involved in each & every activity during identification of problem, execution of technology & data collection. Farmers are seen more profit in recommended technology over own practice (farmers Practice) resulted farmers are appreciate the technology and agreed for future adoption.

OFT-3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Wheat	Irrigated	Low yield of wheat due to broad casting of seed & use of high seed rate (160Kh/ha)	Assessment of sowing method in wheat	10	Line sowing method through seed cum fertilizer drill with recommended seed rate-125 kg./ha	No of effective tillers/ plant Yield (qtl/ha)	T_1- 3.8 No	T_1- 36.5 q/ha	Farmers are seen good growth of plant, more no of effective tillers/ plant resulted enhance the productivity in technology over own practice	-	-
							T_2- 4.3 No	T_2- 42.8 q/ha			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	36.5	Qtl/ha	43,630	2.80
Technology option 2	SDAU, S K Nagar	42.8	Qtl/ha	52,552	3.01

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of sowing method in wheat

2 **Problem Definition -** Low yield of wheat due to broad casting of seed & use of high seed rate (160 Kg/ha)

3 **Details of technologies selected for assessment-** Line sowing method through seed cum fertilizer drill with recommended seed rate-125 kg./ha

4 **Source of technology-** SDAU, S K Nagar

5 Production system and thematic area- Farm Machinery

6 Performance of the Technology with performance indicators-

No of effective tillers/ plant- **T_1**- 3.92, **T_2**-4.38 **Yield (Qtl/ha)-** **T_1**- 36.5, **T_2**-42.8

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques - Farmers are seen good growth of plant, more no of effective tillers/ plant resulted enhance the productivity

8 Final recommendation for micro level situation – Technology of sowing of seed through seed cum ferti drill machine was found effective over farmers practice & technology recommended for micro climate.

9 Constraints identified and feedback for research- No any Constraints

10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

OFT-4

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cumin	Irrigated	Low net profit in existing cropping system - sole crop of cumin	Assessment of Intercropping of cumin + Ajwain for enhancing the net profit	05	Intercropping – Cumin + Ajwain (4:1)	Yield	-	T1(Cumin)- 8.18 q/ha	Farmers are observed in same time one more crop (Ajawain) are taken without effecting the main crop (Cumin) resulted enhance the profitability	-	-
							-	T2- 11.08 (Cumin- 7.96 q/ha Ajwain – 3.12 q/ha)			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	8.18	Qtl/ha	78,090	3.14
Technology option 2	SDAU, S K Nagar	Cumin- 7.96 Ajwain –3.12	Qtl/ha	94,398	3.43

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of Intercropping of cumin + Ajwain for enhancing the net profit

2 **Problem Definition -** Low net profit in existing cropping system - sole crop of cumin

3 **Details of technologies selected for assessment-** T2-Intercropping – Cumin + Ajwain (4:1)

4 **Source of technology-** SDAU, S K Nagar

5 Production system and thematic area- Cropping system

6 Performance of the Technology with performance indicators-

Yield (Qtl/ha)- **T_1-** (Cumin) – 8.18q/ha **T_2-** Cumin- 7.96 q/ha & Ajwain – 3.12 q/ha

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques - Farmers are observed one more crop (Ajawain) are taken without effecting the main crop (Cumin) resulted enhance the profitability

8 Final recommendation for micro level situation – Technology of Intercropping of cumin + Ajwain was found effective over farmers practice & recommendation for micro climatic situation

9 Constraints identified and feedback for research- Framers need short duration variety of Ajwain which is mature with cumin crop.

10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

OFT-5

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Chilli-Water melon	Irrigated	Low profit of present cropping system – Chilli – Fallow	Assessment of cropping system – Chilli – Cucurbit fruit for enhancing net profit	04	Chilli-Water melon	Yield		T1- 221 T2- 435 (C-215 W-220)	-		

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	221	Q/ha	72425	1.88
Technology option 2	IIHR, Banglore	435 (C-215, W-220)	Q/ha	164000	2.44

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of cropping system – Chilli – Cucurbit fruit for enhancing net profit

2 **Problem Definition -** Low profit of present cropping system – Chilli – Fallow

3 **Details of technologies selected for assessment-** Chilli-Water melon

4 **Source of technology-** IIHR, Banglore

5 Production system and thematic area- ICM

6 Performance of the Technology with performance indicators-

Net Return (Rs/ha)- **T1**- 72,425 **T_2** - 1,64,000

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques – Farmer are obtain more B:C ratio (1.88 in recommended practice over 2.44 in farmers practice)resulted farmers are convinced with the technology.

8 Final recommendation for micro level situation – The technology was found more effective over farmers practice & recommendation for micro level situation

9 Constraints identified and feedback for research- Fruit fly is the major problem, so farmers need fruit fly resistant variety

10 Process of farmers participation and their reaction- Farmers are involved in each & every activity during identification of problem, execution of technology & data collection. Farmers are seen more profit in recommended technology over own practice (farmers Practice) resulted farmers are appreciate the technology and agreed for future adoption.

OFT-6

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Chick pea	Semi Irrigated	Low yield of chickpea due to incidence of wilt disease	Assessment of IDM module for the management of wilt disease in chickpea	10	Seed treatment by T viridae @ 10 g/Kg seed along with soil inoculation by T viridae @ 2.5 Kg/ ha.	Disease incidence (%) Yield	T_1- 12.4 % T_2- 7.8 %	T_1- 11.9 q/ha T_2- 14.3 q/ha	Farmers are seen negligible incidence of wilt disease under assessed technology resulted enhance the productivity	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	11.9	Qtl/ha	34678	2.71
Technology option 2	SDAU, S K Nagar	14.3	Qtl/ha	43916	2.98

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of IDM module for the management of wilt disease in chickpea

2 **Problem Definition -** Low yield of chickpea due to incidence of wilt disease

3 **Details of technologies selected for assessment-** Seed treatment by T viridae @ 10 g/Kg seed along with soil inoculation by T viridae @ 2.5 Kg/ ha**.**

4 **Source of technology-** SDAU, S K Nagar

5 Production system and thematic area- IDM

6 Performance of the Technology with performance indicators-

Disease incidence (%) - T_1- 12.4, **T_2-**7.8 **Yield (Qtl/ha)- T_1-** 11.9 Qtl/ha **T_2-** 14.3 Qtl/ha

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques - Farmers are seen negligible incidence of wilt disease under assessed technology resulted enhance the productivity

8 Final recommendation for micro level situation – Technology of wilt disease management was found effective over farmers practice & recommendation after compilation of next year data

9 Constraints identified and feedback for research- No any Constraints

10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

OFT-7

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Wheat	Semi Irrigated	Low yield of wheat due to infestation of termite	Assessment of IPM module for the management of termite in wheat	10	Seed treatment by Fipronil 5SC @ 600ml./5 lit. water/100 kg seed before 8hrs of sowing and soil treatment by Fipronil 5SC @ 1.6 lit./ha. with irrigation water	Termite infestation (%)	T_1- 10.5 %	T_1- 36.0 q/ha	Farmers are seen negligible infestation of termite under assessed technology resulted enhance the productivity	-	-
							T_2- 4.3 %	T_2- 41.6 q/ha			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	36.0	Qtl/ha	42940	2.84
Technology option 2	SDAU, S K Nagar	41.6	Qtl/ha	51344	3.03

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of IPM module for the management of termite in wheat

2 **Problem Definition -** Low yield of wheat due to heavy infestation of termite

3 **Details of technologies selected for assessment-** Seed treatment by Fipronil 5SC @ 600ml./5 lit. water/100kg seed before 8hrs of sowing and soil treatment by Fipronil 5SC @ 1.6 lit./ha. with 4th irrigation

4 **Source of technology-** SDAU, S K Nagar

5 **Production system and thematic area-** IPM

6 **Performance of the Technology with performance indicators-**

Termite infestation (%) - **T_1-** 10.5, **T_2-** 4.3 **Yield -** **T_1-** 36.0 **T_2-**41.6

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -** Farmers are seen negligible infestation of termite under assessed technology resulted enhance the productivity

8 **Final recommendation for micro level situation –** Technology of termite management was found effective over farmers practice & recommendation after compilation of next year data

9 **Constraints identified and feedback for research-** No any Constraints

10 **Process of farmers participation and their reaction**- Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

OFT-8

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Lime	Irrigated	Low fruit yield of lime due to heavy incidence of Gummosis disease	Assessment of Fojetile 80% WD fungicide for the management of Gummosis diseases in lime	10	Spraying of Fosetyl 80% WP @ 20gm./15 lit water immediately after the cutting of dry / disease twigs of the plants (3 sprays in 30 days interval) for management of gummosis disease management	Disease incidence (%) Yield (qtl/ha)	Results awaited		-	-	

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Results awaited			
Technology option 2	SDAU, S K Nagar				

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of Fosetyle AL 80% WP fungicide for the management of Gummosis diseases in lime

2 **Problem Definition -** Low fruit yield of lime due to heavy incidence of Gummosis disease

3 **Details of technologies selected for assessment-** Spraying of Fosetyle AL 80% WP @ 20gm./15 lit water immediately after the cutting of dry / diseased twigs of the plants (3 sprays in 30 days interval) for management of gummosis disease management

4 **Source of technology-** SDAU, S K Nagar

5 **Production system and thematic area-** Integrated Disease Management

6 **Performance of the Technology with performance indicators**

- Disease Incidence (%) – Result awaited **Yield (Qtl/ha)-** Result awaited

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques –**

Result awaited

8 **Final recommendation for micro level situation –** Result awaited

9 **Constraints identified and feedback for research-** Result awaited

10 **Process of farmers participation and their** reaction-Result awaited

OFT-9

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cross breed cow	-	Low milk yield due to negative energy balance	Assessment of bypass fat (rumen protected fat) in diets of cross breed cows	05	Use of green fodder, dry fodder, concentrate with by pass fat concentrate @100 gm per day per animal for 60 days	Fat % Milk yield	T_1 – 4.12 %	T_1- 8.68 Lit./day (Average in 3 month	Farmers are seen under the technology for use of bypass fat to enhance milk yield as well as fat % in milk resulted enhance the net profit	-	-
							T_2- 4.68 %	T_2- 9.1 Lit./day (Average in 3 month			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. For 3 Month	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	8.68	Lit./day for 3 month	9965	2.10
Technology option 2	NDRI, Karnal	9.10	Lit./day for 3 month	12487	2.21

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of bypass fat (rumen protected fat) in diets of cross breed cows

2 **Problem Definition -** Low milk yield & net profit due to negative energy balance

3 **Details of technologies selected for assessment-** Use of green fodder, dry fodder, concentrate with by pass fat concentrate @100 gm per day per animal for 60 days in diet of cross breed cow

4 **Source of technology-** NDRI, Karnal

5 Production system and thematic area- LPM

6 Performance of the Technology with performance indicators-

Milk yield (Lit./day for 3 month)- **T_1-** , 8.68 **T_2-** 9.10

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques - Farmers are seen under the technology for use of bypass fat to enhance milk yield as well as fat % in milk resulted enhance the net profit

8 Final recommendation for micro level situation – Technology of bypass fat in cross breed cows was found effective over farmers practice & recommendation after compilation of next year data

9 Constraints identified and feedback for research- No any Constraints

10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

OFT-10

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Mehsani Buffalo	-	Low milk production in buffalo	Assessment of by pass protein on milk production in Mehsani buffalo	05	Use of green fodder, dry fodder, concentrate with by pass protein concentrate @1 kg per day per animal for 60 days	Fat % Milk yield	T_1 – 7.2 %	T_1- 6.0 Lit./day (Average in 3 month)	Farmers are seen under the technology for use of by pass protein to enhance milk yield as well as fat % in milk resulted enhance the profitability	-	-
							T_2- 7.5 %	T_2- 6.7 Lit./day (Average in 3 month			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. For 3 Month	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	6.0	Lit./day for 3 month	13770	2.13
Technology option 2	NDRI, Karnal	6.7	Lit./day for 3 month	15894	2.22

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of bypass protein on milk production in Mehsani buffalo

2 **Problem Definition -** Low milk production in buffalo

3 **Details of technologies selected for assessment-** Use of green fodder, dry fodder, concentrate feed with bypass protein concentrate feed @1 kg per day per animal for 60 days

4 **Source of technology-** NDRI, Karnal

5 **Production system and thematic area-** LPM

6 **Performance of the Technology with performance indicators-**

Milk yield (Lit./day for 3 month)- **T_1-** 6.0**,** **T_2-** 6.7

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -** Farmers are seen under the technology for use of bypass fat to enhance milk yield as well as fat % in milk resulted enhance the profitability

8 **Final recommendation for micro level situation –** Technology of bypass fat in cross breed cows was found effective over farmers practice & recommendation after compilation of next year data

9 **Constraints identified and feedback for research-** No any Constraints

10 **Process of farmers participation and their reaction**- Farmers are involved each & every activity during technology assessment. They are convinced with the technology & agreed for future adoption

3.3. Frontline Demonstrations

A.

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

List of technologies demonstrated during previous year and popularized during 2018-19 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Castor	ICM & Variety	Hybrid Variety of castor -GCH-7	Training, Demo., Field visit, Field day, Group meeting etc	125	4500	6300
2	Cotton	IPM	IPM module – Pheromone trap @ 40/ha + One spray of neem oil 1500 ppm@ 1.25 Lit/ha + one spray of spinosed 45 SC 2 0.25 Lit/ha	Training, Demo., Field visit, Field day, Group meeting etc	75	1500	900
3	Black gram	ICM	Improved variety of black gram (GU-1), seed treatment by fungicide, Seed inoculation with bio fertilizer, RDF, timely application of IPM module	Training, Demo., Field visit, Field day, Group meeting etc	50	750	450
4	Chickpea	ICM	Improved variety (GJG-3) +Soil inoculation of *Trichoderma viridae* @ 2.5 kg/ha + Pheroman trap @ 40/ha + RDF + Bio-fertilizer + Profenophos 50 EC	Training, Demo., Field visit, Field day, Group meeting etc	35	1100	950
5	Mustard	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Training, Demo., Field visit, Field day, Group meeting etc	40	1200	1050

6	Wheat-Variety	Varietal Demo	Improved variety of wheat - GW-451	Training, Demo., Field visit, Field day, Group meeting etc	75	250	300
7	Green fodder	Feed management	Kharif- Multi cut jowar & Rabi- Lucerne	Training, Demo., Field visit, Field day, Group meeting etc	20	200	40
8	Kitchen garden	Nutrition food security	Seasonal vegetable in backyard for supplementing additional vegetable in daily diet	Training, Demo., Field visit, Field day, Group meeting etc	15	300	-
9	Chilli	INM	Foliar application of Micronutrient (G-4) @ 2 Kg/ ha (Zn,Mn,Cu,B,Fe)	Training, Demo., Field visit, Field day, Group meeting etc	20	75	22
10	Fennel-Variety	Varietal Demo & IDM	Improved variety of fennel – Gujarat Fennel – 12	Training, Demo., Field visit, Field day, Group meeting etc	80	1500	900
11	Ajwain	Varietal demon	Improved variety of Ajwain - GA-2	Training, Demo., Field visit, Field day, Group meeting etc	50	500	330
12	Cumin-Variety	Varietal Demo & IDM	Improved variety of cumin - GC-4	Training, Demo., Field visit, Field day, Group meeting etc	75	1125	495
13	Milch animal	Feed management	Chelated mineral mixture @ 40 Gm / day/ animal (Cow/ Buffalo)	Training, Demo., Field visit, Field day, Group meeting etc	30	450	-

B. Details of FLDs implemented during 2018-19 (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Blackgram	ICM	Improved variety of black gram (GU-1), seed treatment by fungicide, Seed inoculation with bio fertilizer, RDF, timely application of IPM module	Kharif, 2018	50	50	07	118	125	
2	Sunhemp-Castor	INM	Green manuring of sunhemp crop. Seed rate@ 60 kg/ha	Kharif-2018-2019	10	5	0	20	20	Scarcity of fund
3	Castor	ICM	Hybrid variety (GCH-7) +Seed treatment by carbendazim + Mancozeb @ 3 gm/ kg Seed +Soil inoculation with bio fertilizer 2.5 lit/ ha, *Trichoderma & Psudomonas* @ 2.5 kg/ha in each +IPM	Kharif, 2018	30	30	26	49	75	-
4	Cotton	INM	Nitrogen 240 kg/ha + phosphorous 40 kg/ha + spray 3% potassium nitrate (13-0-45) at the time of flowering stage, ball formation stage, ball development	Kharif-2018-2019	10	10	01	24	25	-
5	Cotton	IPM	Pheromone trap @ 40/ha + One spray of neem oil 1500 ppm@ 1.25 Lit/ha + one spray of spinosad 45 SC @ 3 ml/ 10 lit of water	Kharif-2018-2019	10	10	02	23	25	
6	Chickpea	ICM	Improved variety (GJG-3) +Soil inoculation of *Trichoderma viridae* @ 2.5 kg/ha + Pheroman trap @ 40/ha + RDF + Bio-fertilizer + Profenophos	Rabi, 2018-19	50	35	08	76	84	Timely unavailability of fund

7	Mustard	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Rabi, 2018-19	30	15	0	37	37	Timely unavailability of fund
8	Wheat	Varietal Evaluation	Improved variety of wheat GW - 451	Rabi-2018-2019	10	10	0	25	25	
9	Chilli	Nutrient management	Balance use of major plant nutrient along with foliar application of micronutrient (G4)	Kharif, 2018	5.0	5.0	00	20	20	-
10	Fennel	Varietal demonstration	Improved variety of fennel - GF-12	Rabi, 2018-19	10.0	10.0	00	25	25	-
11	Fennel	IDM	Foliar spay of carbendazim 12% + Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS	Rabi, 2018-19	10	10.0	01	24	25	
12	Ajwain	Varietal demonstration	Improved variety of Ajwain - GA-2	Rabi, 2018-19	10.0	10.0	00	25	25	-
13	Cumin	Varietal demonstration	Improved variety of cumin - GC-4	Rabi, 2018-19	10.0	5.0	1	19	20	Scarcity of fund
14	Cumin	IDM	Seed treatment by Trichoderma viridae @ 10gm/ Kg Seed along with soil treatment by T. viridae @ 2.5 Kg/ha	Rabi, 2018-19	10.0	10.0	01	24	25	
15	Kitchen garden	H&VC	Cultivation of seasonal vegetable in backyard for supplementing additional vegetable in daily diet	Kharif, Rabi, 2018-19	-	-	6	34	40	

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					
Blackgram	Kharif, 2018	Semi irrigated	Sandy loam	L	L	M	Fallow	18 to 29/7/2017	07 to 21-02-2018	237	09
Sunhemp-Castor	Kharif, 2018-19	Irrigated	Sandy loam to sandy soil	L	L	M	Fallow	Sunhemp – Ist Fortnight of June & Castor – IInd Fortnight of August	Up to April 2019	237	09
Cotton	Kharif, 2018-19	Irrigated	Sandy loam	L	L	M	Fallow	Last week of May to First Week of June	Up to February.2019	237	09
Castor	Kharif, 2018-19	Irrigated	Sandy loam to sandy soil	L	L	M	Fallow	IInd Fortnight of August	Up to April 2019	237	09
Cotton	Kharif-2018-2019	Irrigated	Sandy loam	L	L	M	Fallow	Last week of May to First Week of June	Up to February.2019	237	09
Chickpea	Rabi, 2018-19	Semi irrigated	Sandy loam	L	L	M	Chick pea/ Cumin	IInd Fortnight of October	IInd Fortnight of March	237	09
Mustard	Rabi, 2018-19	Irrigated	Sandy loam to sandy soil	L	L	M	Pulses	IInd Fortnight of October	1 TO 15/3/2019	237	09
Wheat	Rabi, 2018-19	Irrigated	Sandy loam to sandy soil	L	L	M	Pearl millet	IInd Fortnight of November	Last week of March	237	09
Chilli	Kharif, 2018	Irrigated	Sandy loam	L	L	M	Summer Pearl millet	IInd Fortnight of July	Ist Fortnight of March	237	09
Fennel	Rabi, 2018-	Irrigated	Sandy loam	L	L	M	Pulses	Ist Fortnight of October	IInd Fortnight of	237	09

	19								March		
Fennel	Rabi, 2018-19	Irrigated	Sandy loam	L	L	M	Pulses	Ist Fortnight of October	IInd Fortnight of March	237	09
Ajwain	Rabi, 2018-19	Irrigated	Sandy loam	L	L	M	Pulses	Ist Fortnight of October	IInd Fortnight of March	237	09
Cumin	Rabi, 2018-19	Irrigated	Sandy loam	L	L	M	Pulses	Ist Fortnight of November	Last week of February to Ist Week of March	237	09
Cumin	Rabi, 2018-19	Irrigated	Sandy loam	L	L	M	Pulses	Ist Fortnight of November	Last week of February to Ist Week of March	237	09
Kitchen garden	Kharif, Rabi, 2018-19	Irrigated	Sandy loam	L	L	M	-	Last week of June	End of March	237	09

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Need to develop improved/ hybrid variety of wheat, Cumin, Funnel, Ajawain, Castor, Groundnut, Mustard, Green gram & Chickpea
2	Need to develop climate resilient technologies/ varieties
3	Need to develop of crop based complex fertilizer
4	Need to develop INM module on cropping system
5	Need to develop water soluble complex fertilizer as per crop for foliar spray.
6	Need to develop drought tolerant/ resistant variety.
7	Need to develop IPM module for the management of major insect in vegetable crop.
8	Need to develop to resistant variety against disease & insect.

Farmers' reactions on specific technologies

S. No	Feed Back
	Cereals
1.	Farmers observe good growth of plant, no lodging & more no of effective tillers are found in improved variety of wheat (GW-451)
	Horticultural crops
1.	Chilli : Good growth during the season and good quality of fruits due to spraying of Micronutrient (Zn,Mn,Fe,Cu,B)
2.	Cumin (Var.) :GC-4 variety have less incidence of blight disease & also high yielding
3.	Cumin (IDM) : Spraying of SAAF (Carbendazim 12% + Mancozeb 63%) reduce the disease incidence
4.	Fennel (IDM) : Spraying of SAAF (Carbendazim 12% + Mancozeb 63%) reduce the disease incidence
5.	Fennel (Var.) : GF-12 variety is high yielding
6.	Ajwain : No. of umbels per plants and seed per umbels are comparatively more over old/ local variety
	Oil seeds
1.	Use Sunhemp as a green manure to reduce the dose of fertilize & enhance FUE in Castor resulted enhance the profitability
2.	Castor : GCH-7 variety having excellent growth & more yield over their own practice
3.	Mustard : GDM-4 variety having excellent growth & more yield over their own practice
	Pulses
1.	Black gram :GU-1 variety having excellent growth & more yield over their old/ local variety
2.	Chickpea : Under technology reduce the wilt incidence & pod borer infestation resulted enhance the productivity
	Cotton
1	Good growth of plant, more number of bolls per plant obtain under INM in cotton resulted enhance the productivity
2	Very less infestation of pink boll worm in demonstrated plot of IPM in cotton resulted enhance the productivity
	Animal Science
1	Round the year availability of green fodder under demonstrated technology resulted enhance the milk yield as well as reduce the cost

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
A	**Cotton- INM**				
1	Farmers Training	02	25/5/2018, 28/6/2018	49	
2	Field visit	03	During Crop Period	68	
3	Field Day	01	21-12-2018	42	
4	Training for extension functionaries	01	24/5/2018	30	
B	**Cotton- IPM**				
1	Field days	01	21-12-2018	37	
2	Farmers Training	03	14-08-2018, 02-06-2018 & 20-07-2018	103	
3	Training for extension functionaries	01	22-05-2018	24	
4	Field visit	04	During Crop Period	102	
C	**Black gram**				
1	Field days	01	25-09-2018	41	
2	Farmers Training	03	20-06-2018,21-06-2018 & 11-07-2018	125	
3	Training for extension functionaries	01	22-05-2018	24	
	Field visit	03	During Crop Period	130	
D	**Castor – Green manuring**				
1	Field days	01	02/11/2019	54	
2	Farmers Training	01	23/6/2018	20	
3	Training for extension functionaries	01	24/5/2018	30	
4	Field visit	02	During Crop Period	35	
E	**Castor- Variety**				
1	Field days	01	13/2/2019	29	
2	Farmers Training	04	11/7/2018, 13/8/2018, 16/8/2018, 18,8,2018	102	
3	Training for extension functionaries	01	24/5/2018	30	
4	Field visit	06	During Crop Period	114	
F	**Chickpea**				
1	Field days	02	25-02-2019 & 15-03-2019	80	
2	Farmers Training	03	11-10-2018, 12-10-2018 & 13-10-2018	86	
3	Training for extension functionaries	01	25/10/2018	23	
4	Field visit	03	During Crop Period	98	

G	**Mustard**				
1	Field days	02	12/2/2019, 6/3/2019	73	
2	Farmers Training	03	26/10/2018, 27/10/2018, 24/11/2018	65	
3	Training for extension functionaries	01	25/10/2018	23	
4	Field visit	03	During Crop Period	78	
H	**Wheat- Variety**				
1	Field days	01	03/06/2019	42	
2	Farmers Training	01	20/11/2018	25	
3	Training for extension functionaries	01	25/10/2018	23	
4	Field visit	02	During Crop Period	55	
I	**Kitchen garden**				
1	Farmers Training	03	07-07-18, 17-07-18 & 11-12-18	107	
2	Field Day		19-12-2018	35	
3	Field visit	03	During Crop Period	72	
J	**Chilli**				
1	Field days	01	18-12-2018	41	
2	Farmers Training	03	8/8/2018,24/8/2018 & 22-27/06/2018	69	
	Field visit	07	During crop period	42	
K	**Fennel- Variety**				
1	Field days	01	12/03/2019	30	
2	Farmers Training	01	04/10/2018	26	
3	Training for extension functionaries	01	03-10-2018	23	
4	Field visit	06	During Crop Period	68	
L	**Fennel- IDM**				
1	Field days	01	08-03-2019	44	
2	Farmers Training	01	01-11-2018	25	
3	Training for extension functionaries	01	03-10-2018	23	
	Field visit	02	During Crop Period	68	
M	**Ajwain**				
1	Field days	01	11/03/2019	28	
2	Farmers Training	01	26/09/2018	25	
3	Training for extension functionaries	01	03-10-2018	23	
4	Field visit	05	During Crop Period	58	
N	**Cumin- Variety**				
1	Field days	01	25/02/2019	30	
2	Farmers Training	01	02/11/2018	24	
3	Training for extension functionaries	01	03-10-2018	23	

4	Field visit	06	During Crop Period	61	
O	**Cumin- IDM**				
1	Field days	01	12-03-2019	44	
2	Farmers Training	01	05-11-2018	25	
3	Training for extension functionaries	01	03-10-2018	23	
4	Field visit	02	During Crop Period	62	
P	**Round the Year Green fodder**				
1	Field days	02	12-10-2018 & 12-12-2018	44	
2	Farmers Training	01	26-07-2018	12	
3	Training for extension functionaries	01	13-11-2018	15	
4	Field visit	04	During demonstration period	32	
Q	**Feed supplement- Probiotic in Mehsani Buffalo**				
1	Field days	01	14-12-2018	24	
2	Farmers Training	01	19-12-2018	35	
3	Field visit	05	During demonstration period	38	
R	**Feed supplement- Chelated Mineral Mixture in Mehsani Buffalo**				
1	Field days	01	08-03-2019	37	
2	Farmers Training	01	14-11-2018	20	
3	Field visit	03	During demonstration period	26	
S	**Back yard poultry**				
1	Field days	01	15-06-2018	17	
2	Farmers Training	01	06-07-2017	15	
3	Field visit	06	During demonstration period	86	

C. Performance of Frontline demonstrations

Frontline demonstrations on Oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo	Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Castor – Green manuring	Soil fertility management	Sunhemp (seed @ 60 kg./ha.) as a green manuring + Castor as a main crop	GCH-7	20	05	29.7	26.9	10.41	30700	155925	125225	5.1	29100	141225	112125	4.9

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

** BCR= GROSS RETURN/GROSS COST

Frontline demonstrations on Pulses crops - No

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo	Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)

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

** BCR= GROSS RETURN/GROSS COST

Frontline Demonstration on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cotton	IPM	IPM module – Pheromone trap @ 40/ha + One spray of neem oil 1500 ppm@ 1.25 Lit/ha + one spray of spinoced 45 SC 2 0.25 Lit/ha	25	10	28.2	22.4	25.7	21.3	20.7			38400	132355	93955	3.45	35900	109695	73795	3.1
Cotton	INM	Nitrogen 240 kg/ha + phosphorous 40 kg/ha + spray 3% pottasium nitrate (13-0-45) at the time of flowering stage, ball formation stage, ball development	25	10	30.4	20.7	26.8	21.9	22.37			38700	138020	99320	3.6	36100	112785	76685	3.1
Chilli	INM	Foliar application of Micronutrient (G-4) @ 2 Kg/ ha (Zn,Mn,Cu,B,Fe)	20	**5**	252	222	235.21	214.37	9.72			81729	164647	82918	2.01	80617	150058	69441	1.86
Wheat	Varietal demo	Improved variety of wheat - GW-451	25	10	47.3	37.6	42.5	36.4	16.76			25400	78200	52800	3.1	23500	66976	43476	2.9
Fennel	Varietal demo	Improved variety of fennel – Gujarat Fennel – 12	25	10	17.7	14.1	15.97	13.96	14.45			36040	111804	75764	3.10	34960	97692	62732	2.79
Fennel	IDM	Foliar spay of carbendazim 12% +	25	10	20.4	16.3	18.1	15.2	19.1			24650	131225	106575	5.32	22900	110200	87300	4.81

		Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS																
Ajwain	Varietal demo	Improved variety of Ajwain - GA-2	25	10	19.2	14.8	16.6	14.22	16.80			32360	116228	83868	3.59	31860	99512	67652	3.12
Cumin-Variety	Varietal demo	Improved variety of cumin - GC-4	20	5	9.3	6.2	7.52	6.26	20.22			38300	105280	66980	2.75	36100	87570	51470	2.43
Cumin	IDM	Seed treatment by Trichoderma viridae @ 10gm/ Kg Seed along with soil treatment by T. viridae @ 2.5 Kg/ha	25	10	8.7	5.6	6.8	5.5	23.6			31200	95200	64000	3.05	30750	72800	42050	2.37

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

** BCR= GROSS RETURN/GROSS COST

FLD on Livestock - 2017-18:-

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs./ bird)				Economics of check (Rs./ bird)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Poultry	Breed	Breed for backyard poultry- RIR	10	25 chicks	Body weight 2.250 – Kg	Body weight– 1.85 Kg	21.62	Egg Production -168	Egg Production -220	450	1760	1310	3.91	380	1344	964	3.53

FLD on Livestock - 2018 - 19:-

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cross breed cow	Feed management	Kharif- Multi cut jowar- (CoFS-29) & Rabi- Lucerne (AL-3)	10	1 Animal	Milk Yield – 8.45 L/day for 10 month	Milk Yield – 7.48 L/day for 10 month	12.97			32430	70980	38550	2.19	30630	62832	32202	2.05
Buffalo	Nutritional Management	Mineral mixture@40gm/ day	10	1 Animal	Milk Yield – 7.07 L/day for 3 month	Milk Yield – 6.44 L/day for 3 month	9.78			12210	30572	18319	2.50	11394	27821	16427	2.44
Buffalo	Nutritional Management	Probiotic @20 gm/day	10	1 Animal	Milk Yield – 6.78 L/day for 3 month	Milk Yield – 6.17 L/day for 3 month	9.89			14148	27459	13311	1.95	13446	24989	11543	1.87

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

** BCR= GROSS RETURN/GROSS COST

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	

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

** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom																

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed		% change in major parameter	Labor reduction (man days)				Cost reduction			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./Plot)-800^{2}M				Economics of check (Rs./Plot)-800^{2}M			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Kitchen garden	Nutrition food security	Seasonal vegetable in backyard for supplementing additional vegetable in daily diet	40	No	194.85 Kg/ plot	111.95 Kg/ plot	74.05	Availability – 08 month	Availability – 12 month	377	1559	1182	4.14	264	840	576	3.19

FLD on Demonstration details on crop hybrids

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Return	Net Return	BCR (R/C)	
					High	Low	Average										
Oilseed crop																	
Castor	Varietal demonstration	Hybrid variety – GCH-7	75	30.0	34.9	27.2	32.3	28.00	15.36	32254	169666	137412	5.3	31022	147007	115985	4.7

Note : Remove the Enterprises/crops which have not been shown

D. Performance of Cluster Frontline Demonstrations (CFLD)

CFLD on Oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Castor	Varietal demonstration	Castor Seeds GCH-7,Sulphur, Quinalphos, Trichoderma, Puseudomonas, N,P & K liquid bio fertilizer, Neem Oil & Quinalphos insecticide	GCH-7	75	30.0	34.9	27.2	32.3	28.00	15.36	32254	169666	137412	5.3	31022	147007	115985	4.7
Mustard	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	GDM-4	37	15	22.2	15.1	18.9	15.7	20.38	17447	61425	43978	3.5	15721	51025	35304	3.2

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

** BCR= GROSS RETURN/GROSS COST

CFLD on Pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										

Black gram	ICM	Improved variety of black gram (GU-1), seed treatment by fungicide, Seed inoculation with bio fertilizer, RDF, timely application of IPM module	GU-1	125	50	9.4	5.9	7.8	6.6	18.2	15150	43860	28710	2.88	13700	36960	23260	2.70
Chickpea	ICM	Improved variety (GJG-5) +Soil inoculation of *Trichoderma viridae* @ 2.5 kg/ha + RDF + Bio-fertilizer + Pheroman trap @ 40/ha + Profenophos 50 EC	GJG-5	84	35	15.8	11.6	13.9	11.1	25.2	21900	64218	42318	2.90	19700	51282	31582	2.60

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

** BCR= GROSS RETURN/GROSS COST

3.4.Training (Including the sponsored and FLD training programmes):

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	01	24	0	24	1	0	1	25	0	25
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation	01	23	0	23	2	0	2	25	0	25
Seed production										
Nursery management										
Integrated Crop Management	05	86	0	86	29	0	29	115	0	115
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Increasing production and productivity of crops	01	35	00	35	04	00	04	39	00	39
Total	**8**	**168**	**0**	**168**	**36**	**0**	**36**	**204**	**0**	**204**
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops	01	20	7	27	0	0	0	20	7	27
Off-season vegetables										

Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	**01**	**20**	**7**	**27**	**0**	**0**	**0**	**20**	**7**	**27**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	02	90	00	90	00	00	00	90	00	90
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	**02**	**90**	**00**	**90**	**00**	**00**	**00**	**90**	**00**	**90**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										

d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	03	67	7	74	1	0	1	68	7	75
Processing and value addition										
Others (pl specify)										
Total (f)	**03**	**67**	**7**	**74**	**1**	**0**	**1**	**68**	**7**	**75**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	**6**	**177**	**14**	**191**	**1**	**0**	**1**	**178**	**14**	**192**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										

Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing	01	60	0	60	0	0	0	60	0	60
Others (pl specify) – Organic Farming	01	23	0	23	2	0	2	25	0	25
Total	**02**	**83**	**0**	**83**	**2**	**0**	**2**	**85**	**0**	**85**
IV Livestock Production and Management										
Dairy Management	01	14	00	14	00	00	00	14	00	14
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	01	20	00	20	00	00	00	20	00	20
Disease Management	01	15	00	15	00	00	00	15	00	15
Feed & fodder technology	01	12	00	12	00	00	00	12	00	12
Production of quality animal products										
Others (pl specify)										
Total	**4**	**61**	**0**	**61**	**0**	**0**	**0**	**61**	**0**	**61**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										

Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	03	00	48	48	00	06	06	00	54	54
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**03**	**00**	**48**	**48**	**00**	**06**	**06**	**00**	**54**	**54**
VI Agril. Engineering										
Farm Machinery and its maintenance	01	10	00	10	00	00	00	10	00	10
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										
Others (pl specify)										
Total	**01**	**10**	**00**	**10**	**00**	**00**	**00**	**10**	**00**	**10**
VII Plant Protection										
Integrated Pest Management	04	113	00	113	10	00	10	123	00	123
Integrated Disease Management	03	75	00	75	07	00	07	82	00	82
Bio-control of pests and diseases	03	102	00	102	04	00	04	106	00	106
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**10**	**290**	**0**	**290**	**21**	**0**	**21**	**311**	**0**	**311**

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										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents 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										
Small tools and implements										

Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
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										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**34**	**789**	**62**	**851**	**60**	**6**	**66**	**849**	**68**	**917**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation	01	24	0	24	3	0	3	27	0	27
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**01**	**24**	**0**	**24**	**3**	**0**	**3**	**27**	**0**	**27**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	3	67	0	67	0	0	0	67	0	67
Off-season vegetables										
Nursery raising										
Exotic vegetables										

Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify) – MIS	1	20	0	20	0	0	0	20	0	20
Total (a)	**4**	**87**	**0**	**87**	**0**	**0**	**0**	**87**	**0**	**87**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	20	13	33	0	0	0	20	13	33
Management of young plants/orchards										
Rejuvenation of old orchards	1	19	0	19	1	0	1	20	0	20
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	**2**	**39**	**13**	**52**	**1**	**0**	**1**	**40**	**13**	**53**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										

Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	**6**	**126**	**13**	**139**	**1**	**0**	**1**	**127**	**13**	**140**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	02	24	0	24	25	0	25	49	0	49
Production and use of organic inputs	01	18	0	18	0	0	0	18	0	18
Management of Problematic soils										
Micro nutrient deficiency in crops										

Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**3**	**42**	**0**	**42**	**25**	**0**	**25**	**67**	**0**	**67**
IV Livestock Production and Management										
Dairy Management	01	00	29	29	00	01	01	00	30	30
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	06	128	51	179	03	07	10	131	58	189
Feed & fodder technology	01	22	07	29	01	00	01	23	07	30
Production of quality animal products										
Others (pl specify)										
Total	**8**	**150**	**87**	**237**	**4**	**8**	**12**	**154**	**95**	**249**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	02	00	42	42	00	05	05	00	47	47
Design and development of low/minimum cost diet	01	00	60	60	00	00	00	00	60	60
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking	01	00	15	15	00	09	09	00	24	24
Gender mainstreaming through SHGs	01	00	15	15	00	18	18	00	33	33
Storage loss minimization techniques	01	00	25	25	00	00	00	00	25	25
Value addition	02	00	43	43	00	08	08	00	51	51

Women empowerment	01	00	27	27	00	05	05	00	32	32
Location specific drudgery reduction technologies	01	00	16	16	00	04	04	00	20	20
Rural Crafts	01	00	20	21	00	04	04	01	24	25
Women and child care	01	00	27	27	00	00	00	00	27	27
Others (pl specify)										
Total	**12**	**00**	**290**	**291**	**0**	**53**	**53**	**00**	**343**	**343**
VI Agril. Engineering										
Farm Machinary and its maintenance										
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										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	04	124	00	124	03	00	03	127	00	127
Integrated Disease Management	02	57	00	57	01	00	01	58	00	58
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides	01	14	00	14	01	00	01	15	00	15
Others (pl specify)										
Total	**7**	**195**	**0**	**195**	**5**	**0**	**5**	**200**	**0**	**200**
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										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents 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										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										

Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	01	19	00	19	00	00	00	19	00	19
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	**01**	**19**	**00**	**19**	**00**	**00**	**00**	**19**	**00**	**19**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**38**	**557**	**390**	**947**	**38**	**61**	**99**	**595**	**451**	**1046**

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	24	0	24	1	0	1	25	0	25
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation	02	47	0	47	5	0	5	52	0	52
Seed production										
Nursery management										
Integrated Crop Management	5	86	0	86	29	0	29	115	0	115
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Increasing production and productivity of crops	1	35	0	35	4	0	4	39	0	39
Total	**9**	**192**	**0**	**192**	**39**	**0**	**39**	**231**	**0**	**231**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	04	87	07	94	00	00	00	87	07	94
Off-season vegetables										

Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify) – MIS	01	20	00	20	00	00	00	20	00	20
Total (a)	**05**	**107**	**7**	**114**	**00**	**00**	**00**	**107**	**07**	**114**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	3	110	13	123	0	0	0	110	13	123
Management of young plants/orchards										
Rejuvenation of old orchards	01	19	00	19	01	00	01	20	00	20
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	**4**	**129**	**13**	**142**	**1**	**0**	**1**	**130**	**13**	**143**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										

d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	03	67	07	74	01	00	01	68	07	75
Processing and value addition										
Others (pl specify)										
Total (f)	**3**	**67**	**07**	**74**	**01**	**00**	**01**	**68**	**07**	**75**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	**12**	**303**	**27**	**330**	**2**	**0**	**2**	**305**	**27**	**332**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	2	24	0	24	25	0	25	49	0	49

Production and use of organic inputs	1	18	0	18	0	0	0	18	0	18
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing	1	60	0	60	0	0	0	60	0	60
Others (pl specify)	1	23	0	23	2	0	2	25	0	25
Total	**5**	**125**	**0**	**125**	**27**	**0**	**27**	**152**	**0**	**152**
IV Livestock Production and Management										
Dairy Management	2	14	29	43	0	1	1	14	30	44
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	20	0	20	0	0	0	20	0	20
Disease Management	7	143	51	194	0	0	0	143	51	194
Feed & fodder technology	2	34	7	41	1	0	1	35	7	42
Production of quality animal products										
Others (pl specify)										
Total	**12**	**211**	**87**	**298**	**1**	**1**	**2**	**212**	**88**	**300**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	42	42	0	5	5	0	47	47
Design and development of low/minimum cost diet	1	0	60	60	0	0	0	0	60	60
Designing and development for high nutrient efficiency diet										

Minimization of nutrient loss in processing										
Processing and cooking	1	0	15	15	0	9	9	0	24	24
Gender mainstreaming through SHGs	1	0	15	15	0	18	18	0	33	33
Storage loss minimization techniques	1	0	25	25	0	0	0	0	25	25
Value addition	5	0	91	91	0	14	14	0	105	105
Women empowerment	1	0	27	27	0	5	5	0	32	32
Location specific drudgery reduction technologies	1	0	16	16	0	4	4	0	20	20
Rural Crafts	1	0	20	21	0	4	4	0	24	24
Women and child care	1	0	27	27	0	0	0	0	27	27
Others (pl specify)										
Total	**15**	**0**	**338**	**339**	**0**	**59**	**59**	**1**	**397**	**397**
VI Agril. Engineering										
Farm Machinery and its maintenance	01	10	00	10	00	00	00	10	00	10
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										
Others (pl specify)										
Total	**01**	**10**	**00**	**10**	**00**	**00**	**00**	**10**	**00**	**10**
VII Plant Protection										
Integrated Pest Management	8	237	0	237	13	0	13	250	0	250

Integrated Disease Management	5	132	0	132	8	0	8	140	0	140
Bio-control of pests and diseases	3	102	0	102	4	0	4	106	0	106
Production of bio control agents and bio pesticides	1	14	0	14	1	0	1	15	0	15
Others (pl specify)										
Total	**17**	**485**	**0**	**485**	**26**	**0**	**26**	**511**	**0**	**511**
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										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents 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										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics	01	19	00	19	00	00	00	19	00	19
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	**01**	**19**	**00**	**19**	**00**	**00**	**00**	**19**	**00**	**19**
XI Agro-forestry										
Production technologies										
Nursery management										

Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**72**	**1346**	**452**	**1798**	**95**	**60**	**155**	**1441**	**512**	**1953**

Training for Rural Youths including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	01	19	06	25	05	07	12	24	13	37
Integrated farming	01	26	00	26	04	00	04	30	00	30
Production of organic inputs	01	51	09	60	00	00	00	51	09	60
Value addition	01	00	25	25	00	16	16	00	41	41
Any other (pl.specify)										
TOTAL	**04**	**96**	**40**	**136**	**09**	**23**	**32**	**105**	**63**	**168**

Training for Rural Youths including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Integrated farming										
Production of organic inputs										
Value addition										

Any other (pl.specify)										
TOTAL										

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	01	19	06	25	05	07	12	24	13	37
Integrated farming	01	26	00	26	04	00	04	30	00	30
Production of organic inputs	01	51	09	60	00	00	00	51	09	60
Value addition	01	00	25	25	00	16	16	00	41	41
Any other (pl.specify)										
TOTAL	**04**	**96**	**40**	**136**	**09**	**23**	**32**	**105**	**63**	**168**

Training programmes for Extension Personnel including sponsored training (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	02	48	0	48	5	0	5	53	0	53
Productivity enhancement in spices crops	01	19	4	23	0	0	0	19	4	23
Integrated Pest Management	01	24	00	24	00	00	00	24	00	24
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										

Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	01	00	17	17	00	09	09	00	26	26
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)- PRA technique & training need assessment	01	22	00	22	00	00	00	22	00	22
TOTAL	**6**	**113**	**21**	**134**	**5**	**9**	**14**	**118**	**30**	**148**

Training programmes for Extension Personnel including sponsored training (off campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										

Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	**01**	**15**	**00**	**15**	**00**	**00**	**00**	**15**	**00**	**15**
Household food security										
Any other (pl.specify)										
TOTAL	**01**	**15**	**00**	**15**	**00**	**00**	**00**	**15**	**00**	**15**

Training programmes for Extension Personnel including sponsored training – CONSOLIDATED (On + Off campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Productivity enhancement in field crops	**02**	48	0	48	5	0	5	53	0	53
Productivity enhancement in spices crops	**01**	19	4	23	0	0	0	19	4	23
Integrated Pest Management	**01**	**24**	**00**	**24**	**00**	**00**	**00**	**24**	**00**	**24**
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										

Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	01	00	17	17	00	09	09	00	26	26
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	01	15	00	15	00	00	00	15	00	15
Household food security										
Any other (pl.specify)- PRA technique & training need assessment	01	22	00	22	00	00	00	22	00	22
TOTAL	**7**	**128**	**21**	**149**	**5**	**9**	**14**	**133**	**30**	**163**

Sponsored training programmes

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop production and management										
Increasing production and productivity of crops	01	35	00	35	04	00	04	39	00	39
Integrated Farming System	01	26	00	26	04	00	04	30	00	30
Production and value addition										
Fruit Plants	02	90	00	90	00	00	00	90	00	90
Ornamental plants										
Spices crops										
Soil health and fertility management										

Production of Inputs at site										
Methods of protective cultivation										
Others (Organic Farming)	01	51	09	60	00	00	00	51	09	60
Total	**05**	**202**	**09**	**211**	**08**	**00**	**08**	**210**	**09**	**219**
Post harvest technology and value addition										
Processing and value addition	01	00	25	25	00	16	16	00	41	41
Others (pl. specify)										
Total	**01**	**00**	**25**	**25**	**00**	**16**	**16**	**00**	**41**	**41**
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										

Agricultural Extension										
CapacityBuilding and Group Dynamics										
Other (Agriculture skill training programme for farmers)	01	50	10	60	00	00	00	50	10	60
Total	**01**	**50**	**10**	**60**	**00**	**00**	**00**	**50**	**10**	**60**
GRAND TOTAL	**07**	**252**	**44**	**296**	**08**	**16**	**24**	**260**	**60**	**320**

Details of vocational training programmes carried out by KVKs for rural youth

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Total										
Post harvest technology and value addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-										

pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts	01	00	11	11	00	01	01	00	12	12
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.	01	08	07	15	0	0	0	08	07	15
Tailoring, stitching, embroidery, dying etc.- Preparation of dormate & rope swing	01	00	19	19	00	02	02	00	21	21
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	**3**	**8**	**37**	**45**	**0**	**3**	**3**	**8**	**40**	**48**

Details of trainings organized under ASCI – No

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
TOTAL										

3.5. Extension Activities (including activities of FLD programmes)

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	29	10,24,243	-	10,24,243
Diagnostic visits	3	38	-	38
Field Day	22	748	23	771
Group discussions	8	125	-	125
KisanGhosthi	3	192	6	198
Film Show	19	493	38	531
Self -help groups meeting	01	33	-	33
Kisan Mela	1	3100	34	3134
Exhibition	2	3638	27	3638
Scientists' visit to farmers field	102	1046	-	1046
Farmers visit at KVK Farm	1567	1422	145	1567
Lecture delivered	27	1427	68	1495
Animal health camps	03	136	12	148

Farm Science Club	1	44	8	52
Ex-trainees Sammelan	2	55	-	55
Farmers' seminar	1	82	5	87
Method Demonstrations	03	75	-	75
Mobile conference	02	-	-	-
TV talk	07	-	-	-
PRA	03	-	-	-
PM - farmers interaction – Live	01	143	10	153
PM - SHG farm women interaction – Live	01	32	03	35
Sadbhavna Diwas	01	27	02	29
Telephonic help line	238	238	-	238
Soil health card campaign	03	171	28	199
Kisan kalian Mahotsav	03	1698	32	1730
Celebration of important days World Food Day World Soil Health Day Kisan Diwas World Environment Day	04	 34 130 37 54	 0 20 0 4	 34 150 37 58
Special day celebration Women Day Kisan Mahila Diwas International Women Day	03	 60 27 50	 2 0 1	 62 27 51
Exposure visits	02	18	2	20
Others (pl.specify)				
Total	**2036**	**1039715**	**387**	**1040102**

Details of other extension programmes

Particulars	Number
Extension Literature	02
Newspaper coverage	14
TV Talks	08
Animal health amps (Number of animals treated)	03 (268 Animal)
Swachchh Bharat Abhiyan Campaign (01 to 15th August, 2018 & 16th to 31st December, 2018)	02
Soil health campaign	05
Total	**39**

3.6. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of Seeds by the KVKs

Category	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	GW-451	-	16.20		In stock
	Wheat	GW-451	-	25.20	90,720	57
Oilseeds	Mustard	GDM-4	-	2.55		In Stock
	Mustard	GDM-4	-	0.87	6,960	47
Commercial crops	LIME SEED	KAGZI LIME	-	1	900	1
Total				**45.82**	**98580**	

Production of Planting Materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vegetable seedlings						
	Cabbage	Sygenta	Hybrid	2000	2000	100
	Cauliflower	Sygenta	Hybrid	2500	2500	100
Fruits	Lime	Kagzi lime	-	5293	79335	83
	Papaya	Madhubindu	-	574	2570	82
	Gauva	L-49	-	4	80	1
	Drumstick	Maltiplex	-	500	5000	100
Ornamental plants	Ornamental plants	Local	-	23	230	6
Others	Tobacco	DTC-4	-	3500	700	1
Total				**14394**	**92415**	**473**

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers	Vermi Compost	10500 7310 Kg Sale to Farmers & rest used at KVK Farm	36,550	130
Total				

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Others (Pl. specify)				
Total				

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

A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

B. Literature developed/published

Item	Title	Authors name	Number
Research papers	Management of termite in wheat crop under rain fed/ semi irrigated condition. *Bhartiya Anushandhan Patrika.* 33 (4):287-290	Kumar Upesh, Patel G A, Patel H P , Chaudhari R P & Darji S S (2018).	
	Impact of Frontline Demonstration Programme on the Yield of Chickpea (*Cicer arietinum* L.) in Patan District of Gujarat, India. *Legume Research*. DOI: 10.18805/LR-4081. pp-1-4.	Kumar Upesh, Patel G A, Patel H P , Chaudhari R P & Darji S S (2018).	
	A Study on Integrated management of gram pod borer in chickpea. *Bhartiya Anushandhan Patrika.* 33 (4):275-278	Kumar Upesh & Raghav R SS (2018).	
Extension literature	Technologies for Low cost & high income	Dr Upesh Kumar, G A Patel, H P Patel & R P Chaudhari	1000 Copy
	Production technology of black gram	-	1000 Copy
TOTAL	**05 No**	**-**	**2000 Copy**

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette) and Video Clippings developed	Title of the programme	Number

D. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs: The Success Stories / Case Studies need not be restricted to the reporting period). At this point please give titles of the success stories/ case studies. Detailed case study documents may be given at the end as an Annexure. - Attach in Annexure - I

The Broad outline for the case study may be Title, Background, Interventions (Process and Technology) and Impact (Horizontal Spread, Economic gains and Employment Generation) etc.

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

F. 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)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

5.1. Indicate the specific training need analysis tools/methodology followed for

A. Practicing Farmers

a) Bench mark survey
b) PRA
c) Field visit
d) Group Discussion etc

B. Rural Youth

a) Field visit
b) PRA
c) Training
d) Group discussion

C. In-service personnel

a) Field visit/ Diagnostic visit
b) SAC meeting

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) PRA
ii) Problem identified from Matrix
iii) Field level observations
iv) Farmer group discussions
v) Others if any

For FLD:

i) New variety/technology
ii) Poor yield at farmers level
iii) Existing cropping system
iv) Others if any

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) -
ii. No. of farm families selected per village :
iii. No. of survey/PRA conducted :
iv. No. of technologies taken to the adopted villages
v. Name of the technologies found suitable by the farmers of the adopted villages:
vi. Impact (production, income, employment, area/technological– horizontal/vertical)
vii. Constraints if any in the continued application of these improved technologies

5.4 . No. and Name of villages adopted for Doubling Farmers Income. Indicate whether benchmark survey of the villages are done or not.

Biliya & Hajipur
Village survey in progress

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
Sardarkrushinagar Dantiwada Agril. University, S.K.Nagar	-Technical Back stopping
Agril. Department Gujarat State, Patan	-Linkage for exchange of information regarding farming. -Linkage for training programme of seasonal crops for practicing farmers. -Linkage for training of extension functionaries.
Gujarat State Fertilizer & Chemical Ltd. Sidhpur	-linkage for demonstration about efficient and proper use of chemical fertilizer and importance of bio-fertilizer. -Linkage for soil and water analysis and training programme to farmers
G.N.F.C. Sidhpur	-Linkage for soil and water analysis. -Linkage for farmer training programme
Department of Animal Husbandry, Gujarat State, Patan Dudhsagar Dairy, Mehsana	-Linkage for training of management of milking animal & steps to solve the burning problem of cattle owner. -Linkage for training to Ext. functionaries.
Dept. of Horticulture Gujarat State, Patan	To create awareness regarding different schemes of Horticulture development. -To increase the awareness about protective cultivation in shade net
Farmers Training Centre, Patan	-linkage for imparting training to farmers & farm women & rural youth
ICDS Patan	In-service training programme and sponsored training programme
ATMA Patan	-Seasonal training programme -Demonstration of Agril. technology
IWMP, Patan	Imparting training to the extension functionaries, farmers & farm women about soil reclamation & other enterprises
NABARD, Patan	Training to members of farm science club
Reliance	Quick delivery of message in large scale through Kisan Mobile sandesh

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

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

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

If yes, role of KVK in preparation of SREP of the district?

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**	ATMA Management Committee Meeting	07		
		Review meeting on skill development training at Gandhinagar	01		
		BTT meeting	01		
		Meeting for ATMA Award	01		
		Meeting Selection of best farmers	01		
		SAC Meeting		01	
		Meeting for Kisan Mela	01		
02	**Research projects**				
03	**Training programmes**	**Awareness programme like-** Low cost technology for higher production in major filed crops, Fruit & vegetable preservation, Crop production, Animal Science & Horticulture etc	11	05	

04	**Demonstrations**				
05	**Extension Programmes**				
	Kisan Mela	Kisan Mela	01		
	Exhibition	Exhibition of latest technology	03		
	Soil health camps	World Soil Health Campaign	01	01	
	Others (specify)	Farmers Field School	08		
		Kisan Gosthi	02		
		Kisan Seminar	01		
		Kisan Kalyan Mahotsav	03		
		PM-Kisan Samman Nidhi	01		
		women empowerment week celebration	01		

D. Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

E. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

F. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

7. Convergence with other agencies and departments: Activities may be specified under DAESI, YCMOU study centres and others Progressive farmers meet jointly organized by KVK & Yuganjali

Date	Venue	Participants			Remark
		SC/ST	Others	Total	
13-3-2019	Patan	20	158	178	Scientific cultivation of Bt cotton in Cotton under connect programme
14-03-2019	Patan	22	168	190	Scientific cultivation of Bt cotton in Cotton under connect programme
22-03-2019	Sujintra	12	118	130	Scientific cultivation of Bt cotton in Cotton under connect programme

8. Innovator Farmer's Meet - No

Sl.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	Yes/ No
	Brief report in this regard	

9. Farmers Field School (FFS) - No

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Brief report

10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:

- Need to develop yellow mosaic resistant variety of black gram.
- Need to develop high yielding, wilt resistant & drought tolerance variety of chickpea.
- Need to develop wilt resistant variety in castor
- Need to develop wilt & pink boll worm resistant/ tolerance variety in cotton
- Need to develop cropping system module of vegetable crops.
- Need to develop INM module as per cropping system.
- Need to develop to resistant variety of chilli against viral diseases.
- Need to develop IPM module in major insect of vegetable crop.
- Need to develop complex fertilizer as per crops.

10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

Name of scientist	**Feed back**
Mr R.P.Chaudhri, SMS- Crop Production	Need to develop high yielding & drought tolerant variety of chickpea Need to develop INM module in field crop as per cropping system Need to develop complex fertilizer as per crops
Mr S S Darji, SMS- Horticulture	Need to develop cropping system module of vegetable crops Need to develop INM module in vegetable crop as per cropping system
Mr G A Patel, SMS- Plant Protection	Need to develop yellow mosaic resistant variety of black gram. Need to develop wilt resistant variety of chickpea Need to develop wilt resistant variety in castor Need to develop wilt & pink boll worm resistant/ tolerance variety in cotton
Dr S J Patel, SMS- Animal Science	Need to develop high yielding & high protein contain variety of fodder crop

11. Technology Week celebration during 2018-19: Yes/No, If Yes - No

Period of observing Technology Week: From to

Total number of farmers visited :

Total number of agencies involved :

Number of demonstrations visited by the farmers within KVK campus:

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized			
Exhibition			
Film show			
Fair			
Farm Visit			
Diagnostic Practicals			
Supply of Literature (No.)			
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)			
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week			

12. Interventions on drought mitigation (if the KVK included in this special programme) - NA

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

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

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
Total			

D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
Total			

E. Seed distribution in drought hit states

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

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Total												

13. IMPACT

A. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Varietal adoption				
Castor-GCH-7	50	81	-	-
Fennel-GF-12	25	56	-	-
Wheat-GW-451	50	64	-	-
Cumin-GC-4	25	72	-	-
Ajwain- GA-2	25	52	-	-
Wilt disease management in Cumin through use of Bio-fungicide (Trichoderma spp.)	25	28	-	-
Management of pink boll worm through IPM	25	38	-	-
Application of sulpher in mustard	25	82	-	-
Management of wilt in fennel	25	88	-	-

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

B. Cases of large scale adoption- full cases may be given at the end as Annexure.
(Please furnish detailed information for each case and)

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

14. Kisan Mobile Advisor y Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2018	02	4325	34
May	01	27014	22
June	04	143079	106
July	05	177550	98
August	04	143081	152
September	04	72402	102
October	04	143090	128
November	02	35343	142
December	03	106008	82
January 2019	05	51691	94
February	01	35329	86
March	00	00	00

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only	7	4	4	4	-	16	35
	Voice only							
	Voice & Text both							
	Total Messages	7	4	4	4	-	16	35
	Total farmers Benefitted	**250837**	**143312**	**141343**	**142232**		**261188**	**938912**

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

A. Performance of demonstration units (other than instructional farm including value added products)

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Nursery unit	2012-13		Lime- Kagaji Lime Lime- Kagaji Lime Papya- Madhubindu Guava- L-49 Drum Stick – Multiplex Vegetable seedling Rose - Desi Tobacco Seedling	Seed Seedling Seedling Seedling Seedling Seedling Sapling Seedling	1 Kg 5293 No 574 No 04 No 500 No 4500 No 23 No 3500 No	55,100.00	900.00 79,335.00 2,570.00 80.00 5,000.00 4,500.00 230.00 700.00	Sale to farmers
	Total					14394 No/ 01 Kg	55,100.00	93,315.00	
2	Vermi compost	2012-13		*Icenia foetida*	Compost	10500 Kg	20,000.00	36,550.00	7310 Kg Sale to Farmers & rest used at KVK Farm
	Total						**20,000.00**	**36,550.00**	
	Grand Total						**75,100.00**	**1,29,865.00**	

B. Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Wheat	19-11-2018	01 & 02-04-2019	0.75	GW-451	Seed	16.20	13,250	59,400	Total produce 21.60 qtl & stock for seed - 16.20 qtl
Oilseeds									
Mustard	26-10-2018	14 to 16-03-2019	0.50	GDM-4	Seed	2.55	4,541	18,275	Total produce 3.40 qtl & stock for seed -2.55 qtl
Castor	10to21-08-2018	In progress	4.50	GCH-7	Commercial	68.74	43,625	3,67,104	Picking of spike in progress
Other- Tobacco	03 to 05-12-2018	04 to 06-04-2019	0.75	GCT-3	Commercial	-	10,031	-	In progress
Fruits									
Lime	2004		2.70						1.0 ha in good condition & rest 1.70 ha plant are pulled & replanting of new orchard
Mango	1994	May to June	0.95	Kesar	Fruit	-	-	50,000.00	Auction from 01st January, 2018 to 24 January, 2020
Sapota	1994	Marchl to May	0.60	Kali Patti	Fruit	-			
Papaya	July,	February	0.25	Madhubindu	Fruits	Kg	2,000.00	20,000.00	Auction from 25

	2018	to March, 2019							January, 2018 to 24 January, 2020
Vegetables - Bottle gourd, Cucumber, Fenugreek, Coriander &Spinach	July, 2018	March, 2019	0.2	Hybrid	Fruits	4039 Kg	-	30,459.00	Auction from July, 2018 to March, 2019
Others (specify)									

C. 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	
1	Vermi Compost	10,500 Kg	20,000.00	36,550.00	7310 Kg Sale to Farmers & rest used at KVK Farm

D. 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	

E. Utilization of hostel facilities

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2018	40	75	
May 2018			
June 2018	15	05	
July 2018	34	75	
August 2018			
September 2018	10	10	
October 2018	13	10	
November 2018			
December 2018			
January 2019			
February 2019			
March 2019	10	05	

F. Database management

S. No	Database target	Database created

G. Details on Rain Water Harvesting Structure and micro-irrigation system

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		

16. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute							
With KVK	State Bank of India	Kahoda, Mahesana	15232	KVKSGVS Ganwada, Saraswati Gram Vidyapeeth, Ganwada, Siddhpur	10265325092	384002509	SBIN0015232

B. Utilization of KVK funds during the year 2018-19 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	140.00	140.00	138.04
2	**Traveling allowances**	0.50	0.50	0.48
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	5.50	5.50	1.30
B	POL, repair of vehicles, tractor and equipments			1.34
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			0.59
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			0.13
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			1.89
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			0.48
G	Training of extension functionaries			0.06
H	Maintenance of buildings			0.01
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		**146**	**146**	**144.32**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			

3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

C. Status of revolving fund (Rs. in lakh) 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 2016 to March 2017	6,23,281	3,81,768	4,71,649	5,33,400
April 2017 to March 2018	5,33,400	6,48,341	7,86,540	3,95,201
April 2018 to March 2019	3,95,201	11,90,694	5,69,709	10,16,186

17. Details of HRD activities attended by KVK staff during year

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr Upesh Kumar	Senior Scientist & Head	Designing Farming Systems for Enhanced Income and Resilience in Low Rainfall Areas under Climate Change Scenario	CAZRI, Jodhpur	28-08-2018 to 17-09-2018
Dr Upesh Kumar & Mr R P Chaudhari	Senior Scientist & Head, SMS, Agronomy	Eco agriculture and organic revolution	SDAU,S.K.NAGAR	27-09-2018
Mr S S Darji & Mr R P Chaudhari	SMS, Horticulture SMS, Agronomy	Rabi Pre Seasonal Workshop	SDAU,S.K.NAGAR	9-10/10/2018
Dr Upesh Kumar, Mr S S Darji & Mr R P Chaudhari	Senior Scientist & Head, SMS, Horticulture SMS, Agronomy	Zonal Research Extension Advisory Committee	SDAU,S.K.NAGAR	17/10/2018
Mr S S Darji	SMS, Horticulture	Weather & Climate Services For Agriculture & Media	IMD,AHMEDABAD	26/10/2018
H P Patel	SMS Agri Extension	Workshop attended- New Dimension in Agri Marketing	SDAU, S K Nagar	03 to 05-12-18
Dr Upesh Kumar, Mr S S Darji & Dr S j Patel	Senior Scientist & Head SMS, Horticulture SMS, Animal Science	Bimonthly Review Meeting & Workshop On Production Technology Management Of Potato	SDAU,S.K.NAGAR	11/12/2018
G A Patel	SMS Plant Protection	Training attended at SDAU on Nematode Management	SDAU, S K Nagar	11-01-2019
Mr S S Darji & Dr S J Patel	SMS, Horticulture SMS, Animal Science	Workshop On Production Technology Management Of Mustard	SDAU,S.K.NAGAR	17-01-2019 to 18-01-2019
Dr Upesh Kumar & Mr S S Darji	Senior Scientist & Head SMS, Horticulture	Skill Development Programme Of Agriculture & It's Allied Subject At Kaushalya Vardhan Kendra	State Nodal Office of ATMA, Gandhinagar	05/02/2019

18. List the other collaborative research/ extension projects and also write brief key achievements of the projects.

- **Pro SOIL**
- **NARI (Please indicate the name of one adopted village and give the activities carried over on nutri sensitive agriculture)**

  Adopted Village- Madhupura, Taluka- Siddhapur, District- Patan (Gujarat)

  Collaboration with

  Krishi VIgyan Kendra
  Department of Women & Child care
  ATMA
  Village Panchayat
  Dairy

  Training Programme – 03 No of training programme to Farm Women for awareness programme

- **VATICA**
- **Seed Hub**
- **Others (if any)**

19. Please include any other important and relevant information which has not been reflected above (write in detail).

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	72	1422	512	1934
Rural youths	04	105	63	168
Extension functionaries	06	111	30	141
Sponsored Training	07	260	60	320
Vocational Training	03	8	40	48
Total	**92**	**1906**	**705**	**2611**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	37	15	
Pulses	209	85	
Cereals	25	10	
Vegetables	180	50	
Other crops	50	20	
Hybrid crops	95	35	
Total			
Livestock & Fisheries	30	-	
Other enterprises			
Total			
Grand Total			

3. **Technology Assessment**

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Technology Assessed			
Crops	08	79	79
Livestock	02	10	10
Various enterprises			
Other			
Total	10	89	89

4. **Extension Programmes**

Category	No. of Programmes	Total Participants
Extension activities	204	15859
Other extension activities	39	-
Total	**243**	**15859**

5. **Mobile Advisory Services**

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only	7	4	4	4	-	16	35
	Voice only							
	Voice & Text both							
	Total Messages	7	4	4	4	-	16	35
	Total farmers Benefitted	**250837**	**143312**	**141343**	**142232**		**261188**	**938912**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	18.75	77,675.00
Planting material (No.)	14394	92,415.00
Bio-Products (kg)- Vermi Compost	10500 7310 Kg Sale to Farmers & rest used at KVK Farm	36,550
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil		
Water		
Plant		
Total		

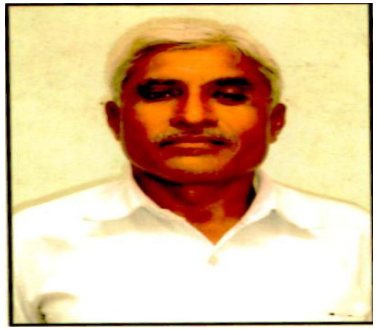
8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	05 No
2	Conferences	01 No
3	Meetings	06 No
4	Trainings for KVK officials	03 No
5	Visits of KVK officials	-
6	Book published	-
7	Training Manual	-
8	Book chapters	-
9	Research papers	03 No
10	Lead papers	-

11	Seminar papers	-
12	Extension folder	03 No
13	Proceedings	-
14	Award & recognition	01 No
15	On going research projects	-

Annexure – I

SUCCESS STORY OF GRADUATE FARMERS



1.	Name	:	Patel Govindbhai Madhavlal		
2.	Village	:	Madhupura		
3.	Taluka	:	Sidhpur		
4.	District	:	Patan		
5.	Education	:	B.Com.		
6.	Year of Graduation	:	1985		
7.	Farming experience	:	26 years		
8.	Land holding	:	Own	:	2.0 ha.
9.	Annual Income	:	Agriculture	:	Rs 1,31,000=00
			Horticulture	:	Rs 5,40,000=00
			Total	:	Rs 6,71,000=00

Shri Govindbhai Madhavlal Patel is a enthusiastic farmer. He did his Graduation in B.Com. in the year 1985. He has 26 years experience of farming.

He always think over the market oriented horticultural farming i.e. Vegetable crop cultivation viz. Onion, Chilli, Indian bean etc. His average annual income from agriculture is about Rs. 1,31,000=00 while from Horticulture annual income is Rs. 5,40,000=00. In addition to this he is expertise in nursery raising of vegetable crop. So every some income by selling vegetable seedling viz. Onion and chilli etc. His source of technical information is Krishi Vigyan Kendra, Samoda-Ganwada, Di.Patan and SDAU, S.K.nagar. His future vision is expansion of Horticultural crop cultivation with Micro irrigation system.

PHOTOGRAPHS

Onion & Onion seed production

Cotton cultivation

Fennel Cultivation

Chilli & Shimal Mirch

Papaya Cultivation &
Production of organic pesticide

Success story of youth farmers for enhancing income through adoption of latest technologies

1.	Name	:	Patel Vinodbhai Naranbhai		
2.	Village	:	Ganglasan		
3.	Taluka	:	Sidhpur		
4.	District	:	Patan		
5.	Education	:	B.R.S. (Agri.)		
6.	Year of Graduation	:	1996		
7.	Farming experience	:	22 years		
8.	Land holding	:	2.5 ha		
9.	Annual Income	:	Agriculture	:	Rs 1,31,000=00
			Animal husbandry	:	Rs 3,40,000=00
			Total	**:**	**Rs 4,71,000=00**

Shri Vinodbhai Naranbhai Patel is an innovative and early adopter of latest technology farmer. He did his Graduation in BRS (Agri.) in the year 1996. He has 22 years of farming experience. He always think about the low cost technology for farming. He generally grown the cotton, castor, fennel, Cumin, wheat, Green-gram and Til every year. With a view to save the irrigation water, he has adopted the alternate furrow method of irrigation in cotton, castor and fennel.

By experience and assumption of his adoption of alternate furrow method of irrigation, he has found that saving of irrigation up to 40% and decrease the pest & disease, incidence up to 30%.

He is expertise in cotton seed production technology. So every year he has produced the seed of cotton of his own and gains some income by selling the Cotton seed. He gain about Rs. 1,31,000=00 from agriculture and about Rs. 3,40,000=00 from animal husbandry every year. The source of agriculture technological information in Krishi Vigyan Kendra, Samoda-Ganwada, Di.Patan . His future vision is adopting the micro irrigation system in total land.

PHOTOGRAPHS

Castor Cultivation

Cotton Cultivation

Cumin Cultivation

Fennel Cultivation

Enhancing profitability through adoption of IFS system

1.	Name	:	Patel Shaileshkumar Naranbhai			
2.	Village	:	Kuwara			
3.	Taluka	:	Sidhpur			
4.	District	:	Patan			
5.	Education	:	B.E. (Mechanical)			
6.	Year of Graduation	:	1997			
7.	Farming experience	:	20 years			
8.	Land holding	:	Own	:	2.0 ha.	
			Lease base	:	4.0 ha.	
9.	Annual Income	:	Agriculture	:	1,71,000=00 Rs.	
			Horticulture	:	1,80,000=00 Rs.	
			Animal husbandry	:	4,40,000=00 Rs.	
			Total	:	7,91,000=00 Rs.	

Shri Shaileshkumar Naranbhai Patel is Mechanical engineer. He has completed his Graduation in 1997. He has 20 years of farming experience. 2.0 ha. land is under micro irrigation system for horticultural crops like pomegranate , cucumber and Bottle guard. During kharif cotton, castor and sorghum are grown while in Rabi season wheat and Lucerne are grown. Fodder crops like sorghum and Lucerne are grown in summer season & m for like stock production. He is doing scientific farming with all the production technology of respective crops like high yielding varieties. Integrated nutrient management, production and use of organic manure, micro irrigation system in horticultural crops. Tissue culture variety of pomegranate (sinduri) are grown in 2.0 ha for last 3 years. It is expected to give excellent income in next year.

Shaileshbhai is interested in live stock production. Today he is keeping 29 miching Buffaloes. He is doing scientific dairy farming practices like breeding, feeding and health and hygiene for milk production. He earned Rs. 1,71,000=00 from agronomy crops like cotton, castor and wheat and Rs. 1,80,000=00 from horticultural crops like pomegranate, cucumber and bottle guard. He also earned Rs. 4,40,000=00 from live stock production. Thus he earned annually 7,91,000=00 Rs. from agriculture and horticulture. Now a day he belongs to progressive farmers of Sidhpur taluka.

PHOTOGRAPHS

Dairy – Cow & Buffalo

Feed Management

Pomegranate Cultivation

Intercropping of vegetable in new orchard of pomegranate

Preparation of Doormat and Rope swing

1	Name of Rural youth women	:	Patel Kajalben Dhavalkumar
2	Village	:	Chandravati
3	Taluka	:	Sidhpur
4	District	:	Patan
5	Mobile No.	:	6388300038
6	Age	:	22
7	Education	:	M.A
1	Name of Rural youth women	:	Patel Ramilaben Rameshbhai
2	Village	:	Chandravati
3	Taluka	:	Sidhpur
4	District	:	Patan
5	Mobile No.	:	9712555404
6	Age	:	48
7	Education	:	10 Std.

For empowerment of Rural women KVK Patan has organized vocational training programme (19-06-2018 to 26-06-2018) for the Rural and farm women. In this porogramme, Scientist of Home Science has imparted the training about preparation of Rural craft activities i.,e. Rope swing, Baby cradle, Kundaa stand etc.

After completion of the programme two enthusiastic Rural women has been started to prepare and sale the rural craft articles. Now a days they are earning from the self prepared articles.

Economic Impact :

Items	No. of articles	Expenditure per article (R6s.)	Price per article (Rs.)	Income per articles (Rs.)	Net profit per articles (Rs.)
Rope swing	35	1500	3000	1500	1500
Baby cradle	08	950	1800	850	850
Kundaa stand	18	70	150	80	80
Small swing	11	900	1500	600	600