

ACTION PLAN

1ST APRIL-2019 TO 31ST MARCH-2020



KRISHI VIGYAN KENDRA

SAMODA-GANWADA

TA.SIDHPUR, DIST.PATAN

PINCODE-384151 (GUJRAT)

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ICAR-ATARI, Pune
DETAILS OF ACTION PLAN OF KVKs DURING 2019-20
(1st April 2019 to 31st March 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Website
	Office	FAX		
Krishi Vigyan Kendra Saraswati Gram Vidhyapith Samoda-Ganwada Ta.Sidhpur, Di. Patan, Gujarat, Pin. 384 151	02767 285528	02767 285528	kvksamoda@yahoo.com	www.kvkpatan.in

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

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

1.3. Name of the Senior Scientist & 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	7974415593	kvksamoda@yahoo.com

1.4. Year of sanction: 1993

1.5. Staff Position (as on 31 March -2019)

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		
1.	Senior Scientist and Head	Dr.Upesh kumar	Pl. Pathology	PB-4 - 37,400-67000	9000	1/10/2016	-
2.	Subject Matter Specialist	Shri G.A.Patel	Plant Protection	PB-3 - 15600-39100	6600	6/5/1993	-
3.	Subject Matter Specialist	Shri H.P.Patel	Extension Education	PB-3 - 15600-39100	6600	8/5/1993	-
4.	Subject Matter Specialist	Smt. H.B.Patel	Home Science	PB-3 - 15600-39100	6600	19/8/2002	-
5.	Subject Matter Specialist	Shri S.S. Darji	Horticulture	PB-3 - 15600-39100	5400	2/4/2012	-
6.	Subject Matter Specialist	Shri R.P.Chaudhari	Agronomy	PB-3 - 15600-39100	5400	16/4/2015	-
7.	Subject Matter Specialist	Shri S.J.Patel	Animal Science	PB-3 - 15600-39100	5400	01/09/2016	-
8.	Programme Assistant	Shri D.N.Patel	-	PB-2 - 9300-34800	4600	22/2/1996	-
9.	Computer Programmer	Smt. J.N.Patel	-	PB-2 - 9300-34800	4600	27/7/1996	-
10.	Farm Manager	Shri D.R.Patel	-	PB-2 - 9300-34800	4600	01/09/2002	-
11.	Accountant/ Superintendent	Shri N.B.Patel	-	PB-2 9300-34800	4600	25/1/1996	-
12.	Stenographer	Shri J.K.Patel	-	PB-1 5200-20200	2400	01/09/2002	-
13.	Driver 1	Shri R.A.Patel	-	PB-1 - 5200-20200	2000	14/8/2010	-
14.	Supporting staff 1	Shri R.H.Desai	-	PB-1 - 5200-20200	1900	14/5/1993	-
15.	Supporting staff 2	Shri R.D.Thakor	-	PB-1 - 5200-20200	1900	25/1/1996	-
16.	Supporting staff 3	Shri P.V.Senma	-	PB-1 - 5200-20200	1900	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 1999-2000	694	21,87,250=00 12,37,848=11	-	-	-
2.	Farmers Hostel	ICAR		308.82		-	-	-
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 DSLR	2017	43495=00	Working
Sony digital	2017	8390=00	
Sony Handy cam	2017	31990=00	
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
Standby with flex banner (No.4)	2017	3680=00	Working
GPS-Navigator	2017	8000=00	Working
Sprayers No.4)	2017	14650=00	Working
-Aspee dureteckic battery sprayer	2017		
-Aspee Bolo motorized knapsack sprayer	2017		
-Aspee dureteck hitech sprayer	2017		
-Aspee (Marut sprayer)	2017		
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

Sl.No.	Date
1. Scientific Advisory Committee	23-12-2019

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 <ul style="list-style-type: none"> - Castor - Cotton - Green gram/ Black gram/ Cluster bean – Wheat/ Mustard/ Chickpea/ Cumin / Funnel – Pearl millet
1.	Crop production – Dairy

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	<ul style="list-style-type: none"> - High Water holding capacity - Low permeability - Water logging condition - Fertile soil 	30400
2.	Medium black soil	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Low WHC - High permeability 	165424
5.	Saline soil	<ul style="list-style-type: none"> - 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 (2017-18)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Bajra-Kharif	1065	577	5.42
2	Bajra-Summer	5745	15190	26.44
3	Cotton- Desi	18290	12157	6.64
	Hybrid	34900	31375.1	8.99
4	Castor	111980	180960	16.16
5	Mustard	29262	44420	15.18
6	Wheat	40180	137355	34.18
7	Pulses Gram	7180	3698	5.15
	Green-gram	894	407	4.55
	Black-gram	1789	850	4.75
8.	Cluster bean (Seed)	42085	25335	6.02
9.	Moth bean & cowpea	321	157	4.88
10.	Fruit- Lime	805	8533	106
	Pomegranate	553	6138	111
	Ber	344	3619	105.20
11.	Cumin	41177	37059	9.0
12.	Fennel	3339	7680	23.0
13.	Dilseed	3300	4785	14.50
14.	Potato	527	11705	222.1
15.	Vegetable-Cluster bean	683	7615	111.5
16.	Cow pea	495	4960	100.2

Source: District agriculture department. Patan

2.5. Weather data (2018-19)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	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	-			-	-
March-19	-			-	-

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

Category	Population	Production (kg./lactation)	Productivity
Cattle	Cattle	Cattle	Cattle
<i>Crossbred</i>	<i>Crossbred</i>	<i>Crossbred</i>	<i>Crossbred</i>
<i>Indigenous</i>	<i>Indigenous</i>	<i>Indigenous</i>	<i>Indigenous</i>
Buffalo	Buffalo	Buffalo	Buffalo
Sheep	Sheep	Sheep	Sheep
Goats	Goats	Goats	Goats
Pigs	Pigs	Pigs	Pigs
<i>Crossbred</i>	<i>Crossbred</i>	<i>Crossbred</i>	<i>Crossbred</i>
<i>Indigenous</i>	<i>Indigenous</i>	<i>Indigenous</i>	<i>Indigenous</i>
Rabbits	Rabbits	Rabbits	Rabbits
Poultry	Poultry	Poultry	Poultry
Hens	Hens	Hens	Hens
<i>Desi</i>	<i>Desi</i>	<i>Desi</i>	<i>Desi</i>
Category	Category	Category	Category
Fish (Reservoir)	Fish (Reservoir)	Fish (Reservoir)	Fish (Reservoir)

2.7 Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Siddhpur	Siddhpur	Sujanpur	Blackgram Green gram Castor Cotton Mustard Wheat Chickpea Bajra Cumin Fennel Tobacco Carrot Potato Chilli Pomegranate Kagzi lime	-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
Patan	Patan	Mahemadpur			
Chanasma	Chanasma	Kesani			
Saraswati	Saraswati	Kansa			
Harij	Harij	Tharod			
Sami	Sami	Ravad			
Sankeshwar	Sankeshwar	Tuvad			

2.8 Priority thrust areas

Crop/ Enterprise	Thrust area	Crop/ Enterprise	Thrust area
Green gram/ Black gram	Improved variety, INM, IWM, MIS, IPM & IDM	Chili	Nursery Management INM MIS IDM IPM Value Addition
Castor	Hybrid variety, INM, MIS, IWM, IPM & IDM	Pomegranate and Lime	Plant propagation technique Training & Pruning Rejuvenation of old orchards Micro Nutrient Application MIS IDM IPM Value Addition
Cotton	Hybrid variety, INM, MIS, IWM, IPM & IDM	Soil Health	Production of Organic Inputs Soil Fertility Management Management of problematic soil
Chickpea	Improved variety, INM, MIS, IWM, IPM & IDM	Live-stock	Dairy Management Feed Management Disease Management Breeding Management Production of livestock feed and fodder Animal nutrition management
Mustard	Improved/ Hybrid variety, INM, MIS, IWM, IPM & IDM	Fodder Bajra and Sorghum	Integrated Crop Management Integrated Nutrient Management Fodder production
Wheat	Hybrid variety, INM, MIS, IWM, IPM & IDM	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 Income generating activity Low cost & high nutrition diet Women & child care

Cumin/ Fennel/ Ajwain	Production & management technology Water management Integrated Pest & Disease management & Value addition
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3. TECHNICAL PROGRAMME

3.1.A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
09	79	297	795

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
77	1850	55	1922

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
68	107000	-	200

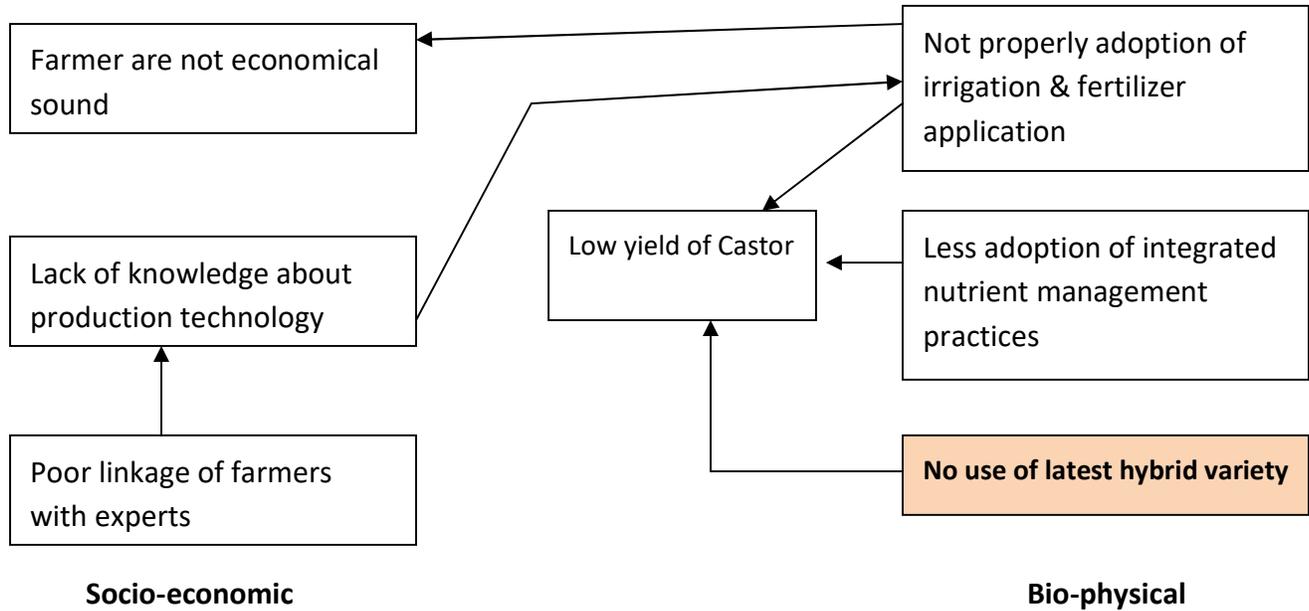
3.1. B. Operational areas details proposed during 2019-20

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	Proposed 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 Heavy infestation of pest Heavy incidence of disease	1000 ha	Sankeshwar & Sami	Training, FLD, Field Day, Field visit etc
3	Castor	Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest Heavy 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 Heavy infestation of pest- Heliothis Heavy 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	20000 ha	Chanasma & Patan	Training, OFT, FLD, Field Day, Field visit etc

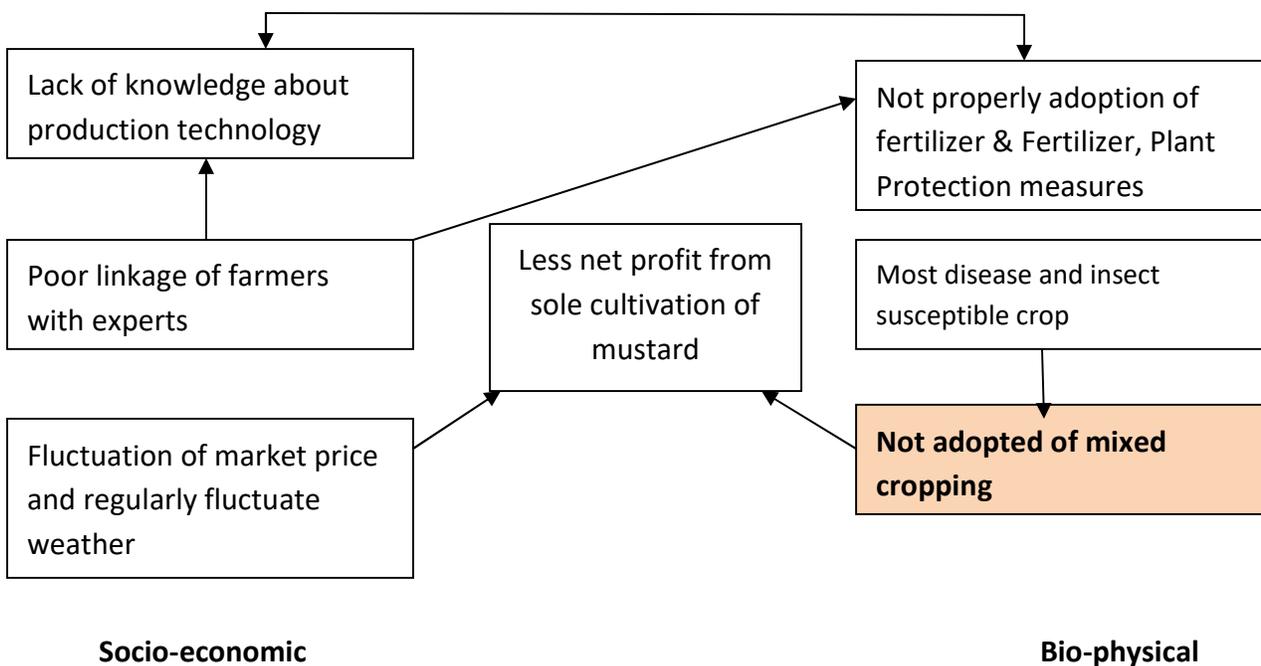
		Heavy infestation of pest- Aphid Heavy incidence of disease-blight			
6	Wheat	Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest- termite	25000 ha	Siddhapur	Training, OFT, FLD, Field Day, Field visit etc
7	Chilli	Imbalance use of major nutrient& no use of micro nutrient Scarcity of irrigation water Heavy infestation of pest- sucking pest Heavy 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 Heavy 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

* Support with problem-cause and interventions diagram

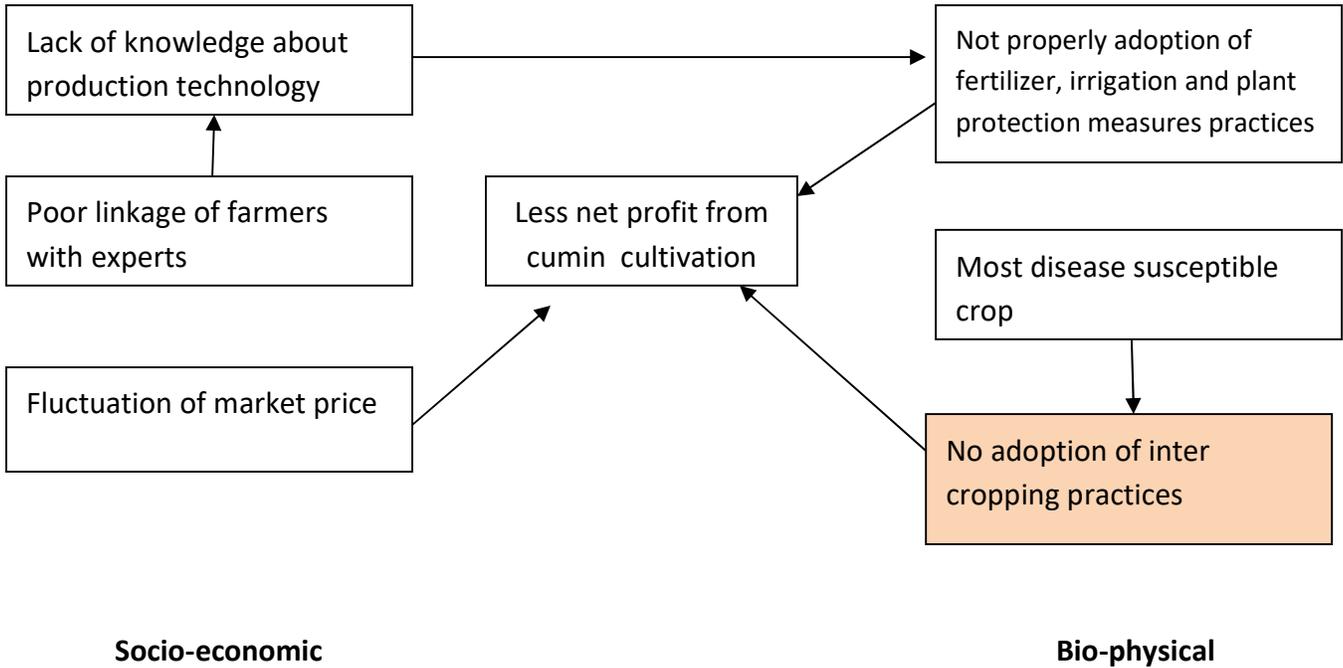
PROBLEM CAUSE DIA-GRAM – CASTOR HYBRID



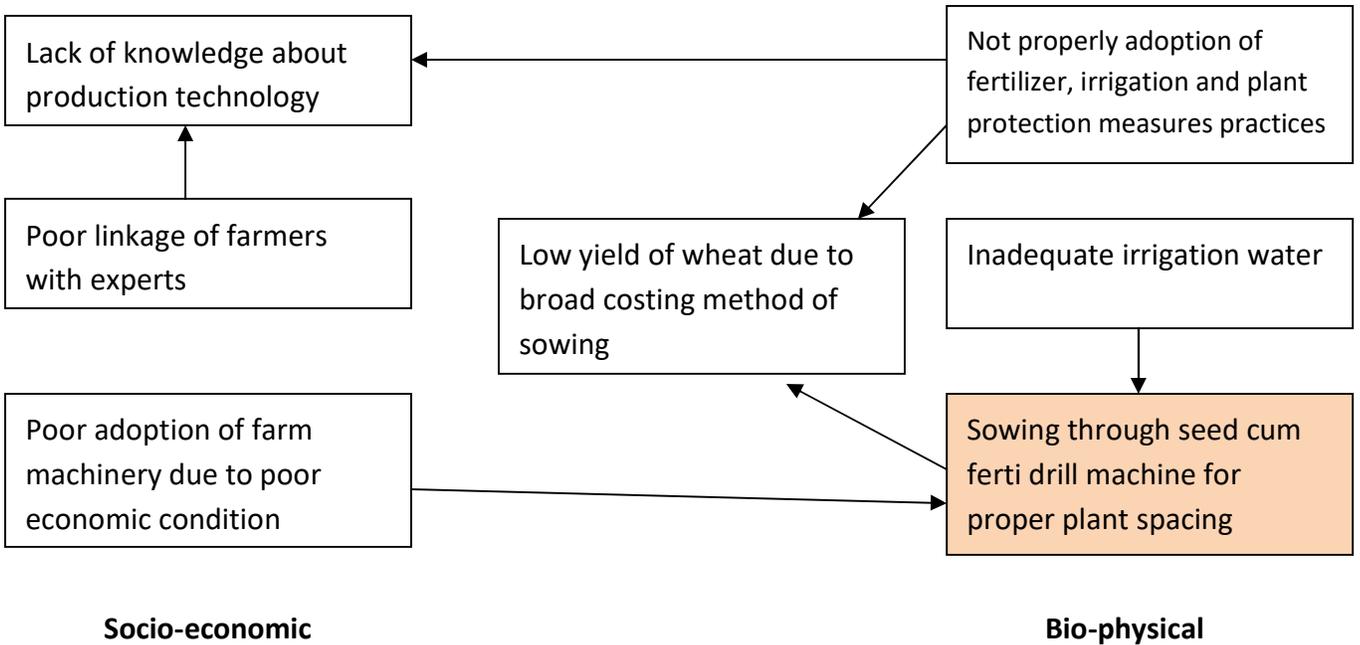
PROBLEM CAUSE DIA-GRAM – MUSTARD + LUCERNE



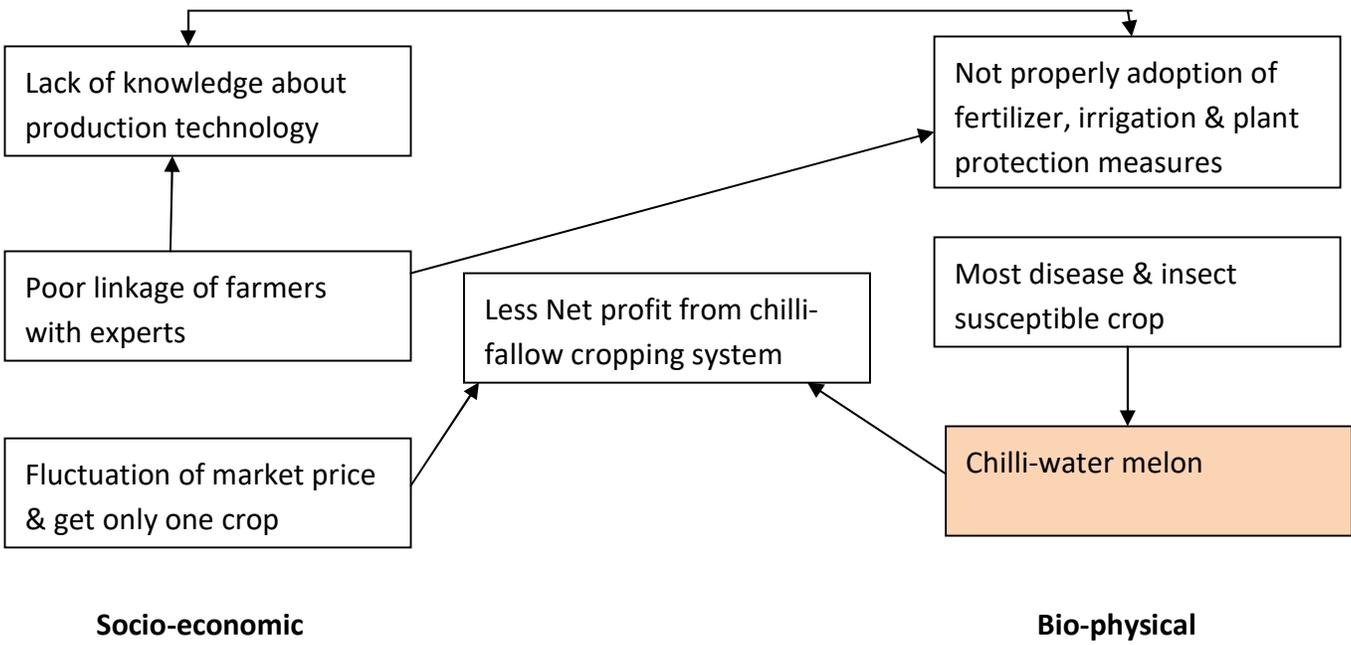
PROBLEM CAUSE DIA-GRAM – CUMIN+AJWAIN



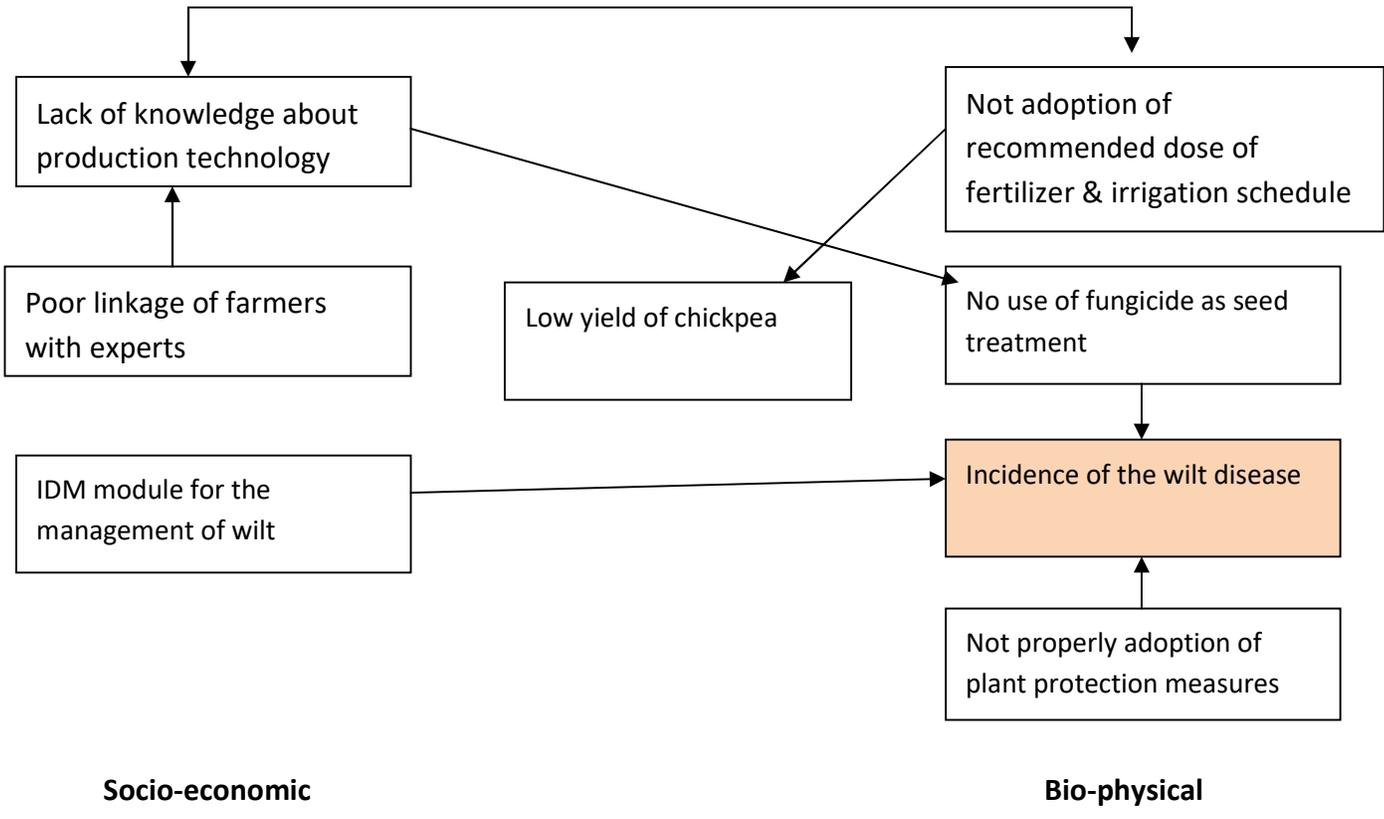
PROBLEM CAUSE DIA-GRAM – SEED CUM FERTI DRILL



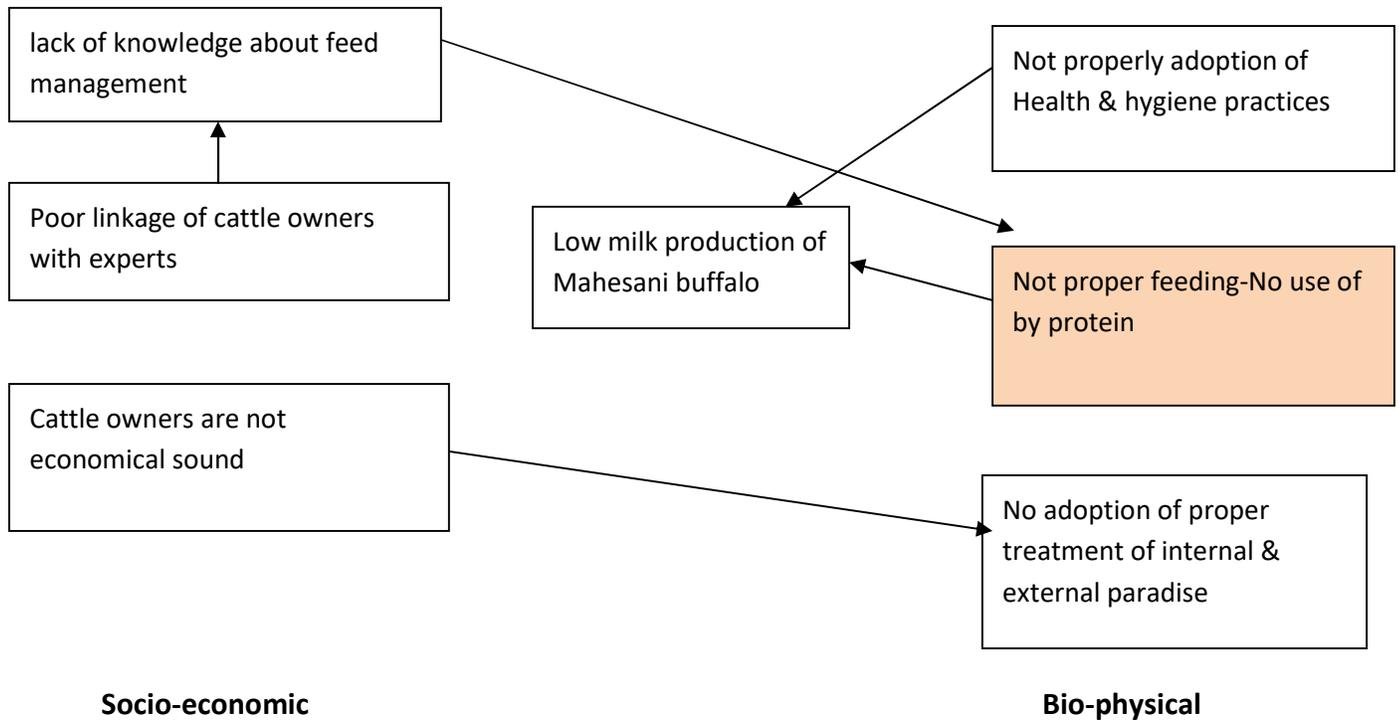
PROBLEM CAUSE DIA-GRAM – CHILLI-WATER MELON



PROBLEM CAUSE DIA-GRAM – WILT DISEASE IN CHICKPEA



PROBLEM CAUSE DIA-GRAM ON BY PASS PROTEIN IN MAHESANI BUFFALO



3.2 Technologies to be assessed and refined

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		02						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
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	02	02	01	02						07

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. Details of On Farm Trial / Technology Assessment during 2019-20

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	intervention Total cost for the	Parameters to be studied	Team members
1	Castor	Low yield of castor due more male flower in GCH-7average production	Assessment of Hybrid varieties in castor	Hybrid variety GCH-8	SDAU, S.K.Nagar	Castor Seed GCH 8	GCH 8 Seed- 1	200	10	2000	No of Spikelets per plant, No of capsules per spike & Yield (qtl/ha)	Mr R P Chaudhri
2	Mustard	Low net profit of Mustard grown as Sole crop	Assessment of mixed cropping mustard with Lucerne	Mix cropping (Mustard +Lucerne)	SDAU, S.K.Nagar	Lucerne seed	Mustard seed- 1 Kg + Lucerne seed- 1.25 Kg	455	10	4550	Yield (qtl/ha)	Mr R P Chaudhri

3	Wheat	High seed rate in Broadcasting Method	Assessment of Line sowing in Wheat	Line sowing of Wheat at seed rate of 125 Kg/ha	SDAU, S.K.Nagar	Hiring of machine	-	300	10	3000	& Yield (qtl/ha) & Net profit (Rs/Ha)	Mr R P Chaudhri
4	Cumin + Ajwain	Low net profit of sole crop in cumin	Assessment of intercropping (Cumin + Ajwain) for enhancing the net profit	Intercropping – Cumin + Ajwain	SRS,Jagudan, SDAU, S.K.Nagar	Cumin & Ajwain seed	4.0 Kg 0.625 Kg	506	04	2500	Net profit (Rs/Ha)	Mr S S Darji
5	Chili – Watermelon	Low net profit of present cropping system Chilli - fallow	Assessment of cropping system- Chilli – Watermelon for enhancing the net profit	Chilli - Watermelon	IHR,Banglore	Water melon seedling	1250 No	3125	04	12500	Cropping intensity (%) & Net profit (Rs/Ha)	Mr S S Darji
6	Chickpea	Low yield of chickpea due to heavy incidence of wilt disease	Assessment of IDM module for the management of wilt disease in chickpea	Seed treatment by T viridae @ 10 g/Kg seed along with soil inoculation by T viridae @ 2.5 Kg/ ha	JAU, Junagarh	T viridae Vermicompost	0.625 Kg 25 Kg	Rs 225/-	10	Rs 2250/-	Disease incidence (%) Yield (qtl/ha)	Mr G A Patel
7	Wheat	Low yield of wheat due to heavy infestation of termite	Assessment of IPM module for the management of termite in wheat	Seed treatment by Fipronil 5%SC @ 6 ml/ Kg seed along with soil application of Fipronil 5 % SC @ 1.6 lit/ ha	SDAU, S K Nagar	Fipronil 5 % SC	600 ml	Rs 750/-	10	Rs 7500/-	Termite infestation (%) Yield (qtl/ha)	Mr G A Patel

				with irrigation water								
08	Cross breed	Low milk yield due to negative energy balance	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	NDRI, Karnal	bypass fat	10 Kg	Rs 1500/-	10	Rs 15000/-	Milk production (Lit/Day) Fat %	Dr S J Patel
09	Buffalo	Low milk yield of in buffalo due to imbalance feeding	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	AAU, Anand (2010)	bypass protein	60 Kg	Rs 1500/-	10	Rs 15000/-	Milk production (Lit/Day) Fat %	Dr S J Patel

3.3. Frontline Demonstrations

A. Details of FLDs to be organized -

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs with cost (Rs.)	Season and year	Area (ha)	No. of farmers / demon.	Parameters identified
1	Black gram	GU-1	ICM	Improved variety of black gram (GU-1), seed treatment by fungicide, Seed inoculation with bio fertilizer, RDF, timely application of IPM module	Seed, fungicide, bio fertilizer- Rs 1,53,000/-	Kharif, 2019-20	20	50	No of pods/ plant Yield (qtl/ha)
2	Sun hemp- Castor	GCH-7	INM	Green manuring of sun hemp crop. Seed rate@60 kg/ha	Sun hemp seed Rs 36,000/-	Kharif- 2019-20	10	25	No of spikelet/ plant Yield (qtl/ha)
3	Castor	GCH-7	ICM	Hybrid variety (GCH-7) +Seed treatment by carbendazim + Mancozeb @ 3 gm/ kg Seed +Soil inoculation of <i>Trichoderma viridae</i> @ 2.5 kg/ha +IPM	Seed , Fungicide, bio fertilizer & pesticide Rs 85,000/-	Kharif, 2019-20	20	50	No of spikelet/ plant Yield (qtl/ha)
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 stage	Potassium Nitrate (13-0-45)- Rs 7500	Kharif- 2019-20	10	25	Yield (qtl/ha)
5	Cotton	-	IPM	Pheromone trap @ 40/ha + One spray of neem oil 1500 ppm@ 1.25 Lit/ha + one spray of spinoced 45 SC @ 3 ml/ 10 lit of water	Pheromone trap, Neem oil Rs 24,000/-	Kharif- 2019-20	10	25	Pink boll worm infestation (%) Yield (qtl/ha)
6	Chickpea	GJG-5	ICM	Improved variety (GJG-5) +Soil inoculation of <i>Trichoderma viridae</i> @ 2.5 kg/ha + Pheroman trap @ 40/ha +	Seed, Fungicide & Bio fertilizer Rs 1,53,000/-	Rabi, 2019-20	20	50	No of pods/ plant Yield (qtl/ha)

RDF + Bio-fertilizer + Profenophos									
7	Mustard	GDM-4	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Bio fertilizer Timely irrigation + IPM module for pest management	Seed, Fungicide & Bio fertilizer Rs 1,02,000/-	Rabi, 2019-20	20	50	No of siliqua/ plant Yield (qtl/ha)
8	Wheat	GW 451	Varietal Evaluation	Improved variety of wheat – GW 451	Seed- Rs 31250 /-	Rabi, 2019-20	10	25	No of effective tillers/ plant Yield (qtl/ha)
9	Chili	Hybrid	Nutrient management	Balance use of major plant nutrient along with foliar application of micronutrient (G4)	Micronutrient (G4)- Rs – 3840/-	Kharif, 2019-20	10.0	25	Yield (qtl/ha)
10	Fennel	GF-12	Varietal demonstration	Improved variety GF-12	Seed – Rs 10000/-	Rabi, 2019-20	10.0	25	Yield (qtl/ha)
11	Fennel	-	IDM	Foliar spray of carbendazim 12% + Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS	Fungicide – Rs 9700/-	Rabi, 2019-20	10	25	Blight disease incidence (%) Yield (qtl/ha)
12	Ajwain	GA-2	Varietal demonstration	Improved variety GA-2	Seed – Rs 5000/-	Rabi, 2019-20	10.0	25	Yield (qtl/ha)
13	Cumin	GC-4	Varietal demonstration	Improved variety GC-4	Seed – Rs 20,000/-	Rabi, 2019-20	10.0	25	Yield (qtl/ha)
14	Cumin	-	IDM	Seed treatment by Trichoderma viridae @ 10gm/ Kg Seed along with soil treatment by T. viridae @ 2.5 Kg/ha	Bio fungicide & Vermi compost – Rs 10,000/-	Rabi, 2019-20	10.0	25	Wilt disease incidence (%) Yield (qtl/ha)
15	Lime	-	IDM	Cutting of dried & diseased twigs after	CuSo4,	Kharif,	5.0	25	Disease incidence (%)

				completion of rainy season + Bordeaux paste @ 1% + Spraying of Fosetyl AL 80% WG @ 20gm./15 lit water immediately after the cutting of dry / disease twigs of the plants (3 sprays in 12-15 days interval) for management of gummosis disease management	CaCo3 & Fosetyl AL 80% WG Rs 3,500/-	2019-20			Yield (qtl/ha)
16	Kitchen garden	Hybrids/ Op	H&VC	Cultivation of seasonal vegetable in backyard for supplementing additional vegetable in daily diet	Seeds of vegetable – Rs 15000/-	Kharif, Rabi, 2019-20		60	Yield (Kg/ plot)
					Total		297	795	

Sponsored Demonstration

Crop	Area (ha)	No. of farmers
-	-	-

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	15	-	600
2	Farmers Training	15	-	375
3	Media coverage	10	-	Mass
4	Training for extension functionaries	7	-	175

C. Details of FLD on Enterprises**a. Farm Implements**

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators

b. Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Feed supplement	Mehsani Buffalo	20	20	Probiotic @20 gm/day (Rs 4,000/-)	Milk production/day
Feed supplement	Mehsani Buffalo	20	20	Mineral mixture @40 gm/day (Rs 9,000/-)	Milk production/day
Round the year green fodder	Cross breed cow	10	10	Seed of fodder crop (Rs 8,000/-)	Fodder production (qtl/ha) Milk yield (Lit/Day)

c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology	03	60	00	60	15	00	15	75
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	01	20	00	20	05	00	05	25
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	01	20	00	20	05	00	05	25
IV Livestock Production and Management								
Dairy Management	01	20	00	20	00	00	00	20
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management								
Feed management	03	35	15	50	05	05	10	60
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	01	00	20	20	00	05	05	25

Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	02	00	40	40	00	10	10	50
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	03	60	00	60	15	00	15	75
Integrated Disease Management	03	60	00	60	15	00	15	75
Bio-control of pests and diseases	01	20	00	20	05	00	05	25
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								

Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-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								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL								
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming	01	20	00	20	05	00	05	25
Seed production								
Production of organic inputs								
Integrated Farming (Medicinal)								
Planting material production								

Organic / botanical pesticide production & uses	01	20	00	20	05	00	05	25
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	01	00	10	10	00	05	05	15
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
TOTAL								
(C) Extension Personnel								
Productivity enhancement in field crops	02	50	00	50	00	00	00	50
Integrated Pest Management	02	50	00	50	00	00	00	50
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								

Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care	01	00	20	20	00	05	05	25
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify) - Production Management technology of spices crops	01	15	00	15	00	00	00	15
Any other (Pl. Specify) – Round the year green fodder production	01	20	00	20	00	00	00	20
Any Other (Pl Specify) – Training need assessment & PRA Technique	01	20	00	20	00	00	00	20
TOTAL	8	155	20	175	0	5	5	180
G. Total	37	630	105	735	110	30	140	875

Export potential fruits								
Micro irrigation systems of orchards	01	20	00	20	05	00	05	25
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	02	20	20	40	05	05	10	50
Production and use of organic inputs	02	20	20	40	05	05	10	50
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency	01	00	20	20	00	05	05	25
Soil and Water Testing								

Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	03	60	00	60	15	00	15	75
Integrated Disease Management	03	60	00	60	15	00	15	75
Bio-control of pests and diseases	02	40	00	40	10	00	10	50
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								

Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	01	20	00	20	05	00	05	25
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Organic farming in vegetable crops	04	80	00	80	20	00	20	100
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit	01	20	00	20	05	00	05	25
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards	01	20	00	20	05	00	05	25
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology	03	60	00	60	15	00	15	75
Processing and value addition								
g) Medicinal and Aromatic Plants								

Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	01	20	00	20	05	00	05	25
Soil and Water Conservation								
Integrated Nutrient Management	02	40	00	40	10	00	40	50
Production and use of organic inputs	02	40	00	40	10	00	40	50
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency	01	20	00	20	05	00	05	25
Soil and Water Testing	01	20	00	20	05	00	05	25
IV Livestock Production and Management								
Dairy Management	03	40	20	60	05	05	10	70
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management	04	20	60	80	05	15	20	100
Feed management	05	65	35	100	10	10	20	120
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	03	00	60	60	00	15	15	75
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing	01	00	15	15	00	05	05	20
Gender mainstreaming through SHGs	01	00	15	15	00	05	05	20
Storage loss minimization techniques								
Value addition	04	00	80	80	00	20	20	100
Income generation activities for empowerment of rural Women	01	00	15	15	00	05	05	20
Location specific drudgery reduction technologies								
Rural Crafts	01	00	15	15	00	05	05	20
Women and child care	01	00	15	15	00	05	05	20
Management of store grain pest	01	00	15	15	00	05	05	20

Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics	01	20	00	20	05	00	05	25
Formation and Management of SHGs	01	20	00	20	05	00	05	25
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
TOTAL	68	915	395	1310	220	110	330	1630
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming	01	20	00	20	05	00	05	25
Seed production								
Production of organic inputs								
Integrated Farming								
Planting material production								
Organic / botanical pesticide production & uses	01	20	00	20	05	00	05	25
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	01	00	10	10	00	05	05	15
Dairying	01	00	20	20	00	05	05	25

Tailoring & Stitching	01	00	20	20	00	10	10	30
Rural Crafts								
TOTAL	4	40	50	90	10	20	30	120
(C) Extension Personnel								
Productivity enhancement in field crops	02	50	00	50	00	00	00	50
Integrated Pest Management	02	50	00	50	00	00	00	50
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production	01	20	00	20	00	00	00	20
Household food security								
Women and Child care	01	00	20	20	00	05	05	25
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify) – Production management of spices crop	01	15	00	15	00	00	00	15
Any other (Pl. Specify- Training need assessment by PRA Technizue	01	20	00	20	00	00	00	20
Total	8	155	20	175	0	5	5	180
G. TOTAL	81	1110	465	1575	230	135	365	1930

3.5. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	18	720	30	750	15	00	15	735	30	765
KisanMela	01	1500	500	2000	25	00	25	1525	500	2025
KisanGhoshi	03	120	20	140	10	00	10	105	20	125
Exhibition	02	120	30	150	10	00	10	130	30	160
Film Show	12	300	50	350	50	00	50	350	50	400
Farmers Seminar	01	50	00	50	05	00	05	55	00	55
Workshop	01	50	00	50	05	00	05	55	00	55
Group meetings	04	60	20	80	00	00	00	60	20	80
Lectures delivered as resource persons	18	500	100	600	50	00	50	550	100	650
Newspaper coverage	15	Mass								
TV talks	02	Mass								
Popular articles	10	Mass								
Extension Literature	08	Mass								
Advisory Services										
Scientific visit to farmers field	120	950	100	1050	00	00	00	950	100	1050
Farmers visit to KVK	300									
Diagnostic visits	10	80	10	90	10	00	10	90	10	100
Exposure visits	01	30	00	30	00	00	00	30	00	30
Ex-trainees Sammelan	02	50	10	60	00	00	00	50	10	60
Soil health Camp	01	50	00	50	02	00	02	52	00	52
Animal Health Camp	04	90	25	115	10	00	10	100	25	125
Celebration of important days (specify)	04	150	50	200	10	00	10	160	50	210

Any Other (Specify)- Clean India Campaign	05	100	50	150	10	00	10	110	50	160
Total	542	4920	995	5915	212	0	212	5107	995	6102

3.6. Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS			
	Wheat	GW-451	50
	S.Bajara	GHB-558	20
OILSEEDS			
	Castor	GCH-7 Green manuring (Sunnhamp)	70
	Mustard	GDM-4	09
PULSES			
	Sun hemp	-	05
VEGETABLES	Cucumber	Hybrid	
	Bottle guard	Hybrid	-
	Brinjal	Hybrid	-
OTHERS (Specify)	Tobacco	GCT-3, DCT-4	60
Fruit plant	Lemon	Kagzi lime	Fruiting condition
	Mango	Kesar	
	Chiku	Kalipatti	
	Pomegranate	Sinduri	

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Lime	Kagzi lime	5000
	Papaya	Madhubindu	1000
SPICES			
VEGETABLES			
OTHERS	Tobacco	DCT-4	100000
ORNAMENTAL CROPS	Rose, Pendula etc.	-	1000
		Total	107000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES				
Compost	Vrmi compost	I foetida	-	4000

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle				
GOAT				
SHEEP				
POULTRY				
Pig farming				
FISHERIES				

4. Literature to be Developed/Published

A. KVK News Letter

Date of start :

Number of copies to be published :

B. Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	04
2	Technical reports	04
3	News letters	01
4	Training manual all discipline	-
5	Popular article	10
6	Extension literature	08
Total		24

C. Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette) and video clippings	Title of the programme	Number
1			

D. Success stories/Case studies identified for development as a case. -

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
 - i) Social economic
 - ii) Bio-Physical
- f. Good Action Photographs

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

6. LINKAGES

6.1. Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	Sardarkrushinagar Dantiwada Agril. University, S.K.Nagar	-Linkage for seasonal training cum workshop of kharif, Rabi and summer crops. -Linkage for various demonstration of farm technology. -Linkage for diagnostic services -Technical guidance
2.	Agril. Department Gujarat State, Patan	-Linkage for exchange of information regarding farming. -Linkage for training programme of seasonal crops for practicing farmers. -Linkage for training of extension functionaries.
3.	Gujarat State Fertilizer & Chemical Ltd. Sidhpur	-linkage for demonstration about efficient and proper use of chemical fertilizer and importance of bio-fertilizer. -Linkage for soil and water analysis and training programme to farmers
4.	G.N.F.C. Sidhpur	-Linkage for soil and water analysis. -Linkage for farmer training programme
5.	Department of Animal Husbandry, Gujarat State, Patan Dudhsagar Dairy, Mehsana	-Linkage for training of management of milking animal & steps to solve the burning problem of cattle owner. -Linkage for training to Ext. functionaries.
6.	Dept. of Horticulture Gujarat State, Patan	To create awareness regarding different schemes of Horticulture development. -To increase the awareness about protective cultivation in shade net
7.	Farmers Training Centre, Patan	-linkage for imparting training to farmers & farm women & rural youth

8.	ICDS Patan	In-service training programme and sponsored training programme
9.	ATMA Patan	-Seasonal training programme -Demonstration of Agril. technology
10.	IWMP, Patan	Imparting training to the extension functionaries, farmers & farm women about soil reclamation & other enterprises
11	NABARD, Patan	Training to members of farm science club
12	Reliance	Quick delivery of message in large scale through Kisan Mobile sandesh

6.2. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

S. No.	Programme	Nature of linkage
1	Meeting	Technical support
2	FFS	Technical support
3	Training	Technical support
4	Kisan Mela	Technical support
5	Joint Visit	Technical support

6.3. E-linkage during 2019-20

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
20.1	Title of the technology module to be prepared		
20.2	Creation and maintenance of relevant database system for KVK		
20.3	Any other (Please specify)		
20.4			

6.4. Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	-	-
2	-	-

6.5. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1	-	-
2	-	-

6.6. Additional Activities Planned including sponsored projects (ProCRA / Pro SOIL/NARI/DAESI/DAMU/DFI, etc.) / schemes during 2019-20, if involved.

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
-	-	-	-	-	-

7.0 Convergence with other agencies and departments:

ATMA , District – Patan

8. Innovator Farmer's Meet 2019- 2020

Sl.No.	Particulars	Details
1	Are you planning for conducting Farm Innovators meet in your district?	Yes/ No
2	If Yes likely month of the meet	
3	Brief action plan in this regard	

9. Farmers Field School (FFS) planned 2019-2020

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

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

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

11. Utilization of hostel facilities

S. No.	Programme	No. of days
1		
2		
3		
4		
	Total	

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
May, 2019	PF	Production management technology of cotton	01	20	00	20	05	00	05	25
July, 2019	PF	Production management technology of castor	01	20	00	20	05	00	05	25
August, 2019	PF	Irrigation & nutrient management in castor	01	20	00	20	05	00	05	
September, 2019	PF	Production management technology of mustard	01	20	00	20	05	00	05	25
October, 2019	PF	Production management technology of wheat	01	20	00	20	05	00	05	25
December, 2019	RY	Integrated Farming system for enhancing profitability	01	20	00	20	05	00	05	25
Horticulture										
July, 2019	PF	Production Management technology of chilli	01	20	00	20	05	00	05	25
September, 2019	PF	Production Management technology of fennel	01	20	00	20	05	00	05	25
October, 2019	PF	Production Management technology of ajwain	01	20	00	20	05	00	05	25
November, 2019	PF	Production Management technology of cumin	01	20	00	20	05	00	05	25
February, 2020	RY	Value addition in spices crops	01	00	20	20	00	05	05	25
Livestock production										
June, 2019	PF	Round the year green fodder production	01	20	00	20	00	00	00	20
September, 2019	PF	Effect of cheated mineral mixture on milk production in dairy animals	01	20	00	20	00	00	00	20
November,	RY	Dairy Management	01	00	20	20	00	05	05	25

2019										
January, 2020	PF	Clean milk production	01	20	00	20	00	00	00	20
February, 2020	FW	Importance of bypass elements on milk production in dairy animals	01	00	15	15	00	05	05	20
Agril. Engg.										
Home Science										
May, 2018	FW	Preparation and preservation of mango products	01	00	20	20	00	05	05	25
July, 2019	FW	Importance , Layout & planning of kitchen garden	01	00	20	20	00	05	05	25
August, 2019	RY	Decorative articles	01	00	20	20	00	05	05	25
November, 2019	FW	Preparation and preservation of aonla products	01	00	20	20	00	05	05	25
Plan protection										
May, 2019	PF	Integrated pest management in Bt cotton	01	20	00	20	05	00	05	25
June, 2019	PF	IPM in Black gram	01	20	00	20	05	00	05	25
June, 2019	PF	Bio control measures of pest & diseases in kharif pulses	01	20	00	20	05	00	05	25
July, 2019	PF	Identification & use of bio control agent for management of pest & diseases in kharif crop	01	20	00	20	05	00	05	25
September, 2019	PF	Plant protection measures in chickpea	01	20	00	20	05	00	05	25
October, 2019	RY	Biological management of pest & diseases in cumin	01	20	00	20	05	00	05	25
November, 2019	PF	Plant protection measures in Wheat	01	20	00	20	05	00	05	25
November, 2019	PF	Integrated pest & disease management in fennel	01	20	00	20	05	00	05	25
Soil Health										
April, 2019	PF	Importance of Soil testing & method of soil sample collection	01	20	00	20	05	00	05	25
May, 2019	PF	Green manuring in castor crop for soil health manageemnt	01	20	00	20	05	00	05	25

ii) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
August, 2019	PF	Integrated weed management in field crop	01	20	-	20	05	-	05	25
November, 2019	PF	Enhancing water productivity through use of MIS system in field crop	01	20	-	20	05	-	05	25
March, 2020	PF	Post Harvest Management	01	20	00	20	05	00	05	25
Horticulture										
May, 2019	PF	Importance & use of MIS in horticultural crops	01	20	-	20	05	-	05	25
June, 2019	PF	Organic farming of Papaya	01	20	-	20	05	-	05	25
August, 2019	PF	INM in chilli	01	20	-	20	05	-	05	25
December, 2019	PF	INM in Potato	01	20	-	20	05	-	05	25
January, 2020	PF	Organic Farming of watermelon	01	20	-	20	05	-	05	25
February, 2020	PF	Organic farming of cowpea & clusterbean	01	20	-	20	05	-	05	25
Live Stock Production.										
May, 2019	FW	Management of Infertility problems in Dairy animals	01	-	20	20	-	05	05	25
June, 2019	FW	Care and Management of Mastitis disease in dairy animals	01	-	20	20	-	05	05	25
July, 2019	PF	Housing management in dairy animal	01	20	-	20	05	-	05	25
October, 2019	FW	Care and Management of Foot and Mouth disease in dairy animals	01	-	20	20	-	05	05	25
November, 2019	PF	Azolla as a animal feed	01	20	-	20	05	-	05	25
December, 2019	PF	Importance of Vaccination and Deworming in dairy animals	01	20	-	20	05	-	05	25

March, 2020	FW	Care and Management of dairy animals during summer season	01	-	20	20	-	05	05	25
February, 2020	RY	Importance of urea treatment in wheat straw	01	-	20	20	-	05	05	25
Agril. Engg.										
	PF									
Home Sc.										
April-2019	FW	Management of store grain paste	01	-	18	18	-	02	02	20
May, 2019	RY	Preparation of various decorative articles	03	-	10	10	-	05	05	15
June, 2019	FW	Importance & use of Solar Cocker	01	-	15	15	-	05	05	20
August, 2019	FW	Health & Nutrition management in pregnant & lactating women and newly borne child	01	-	15	15	-	05	05	20
Sep. 2019	PF	Minimization of nutrient loss in processing	01	-	15	15	-	05	05	20
October, 2019	FW	Importance and techniques of kitchen gardening	01	-	15	15	-	05	05	20
November, 2019	FW	Formation & Management of SHG	01	-	15	15	-	05	05	20
December, 2019	RY	Value addition in fruits & vegetable	03	-	10	10	-	05	05	15
January, 2020	FW	Dehydration / preservation of green leafy vegetable- Spinach & Methi	01	-	15	15	-	05	05	20
Feb., 2020	FW	Awareness about use of kitchen appliances	01	-	15	15	-	05	05	20
Plant Protection										
April, 2019	PF	Importance & method of soil solarization for management of pest & diseases	01	20	-	20	05	-	05	25
May, 2019	PF	Plant Protection measures in summer vegetable	01	20	-	20	05	-	05	25
July, 2019	PF	IPM in chilli & Brinjal	01	20	-	20	05	-	05	25
August, 2019	PF	Integrated pest & disease management in castor	01	20	-	20	05	-	05	25
September,	PF	Integrated pest & disease	01	20	-	20	05	-	05	25

2019		management in cotton								
October, 2019	PF	Plant Protection measures of rabi crops – Cumin & Chickpea	01	20	-	20	05	-	05	25
December, 2019	PF	Plant Protection measures in lime & Pome granate	01	20	-	20	05	-	05	25
January, 2020	PF	Preparation & use of bio pesticide for management of pest & diseases	01	20	-	20	05	-	05	25
Fisheries										
Soil health										
June, 2019	PF	INM in Cotton	01	20	00	20	05	00	05	25
July, 2019	PF	INM in castor	01	20	00	20	05	00	05	25
September, 2019	PF	Organic farming in wheat & chickpea	01	20	00	20	05	00	05	25
Dec., 2019	PF	Importance & use of liquid fertilizer in field crop	01	20	00	20	05	00	05	25
January, 2020	PF	Importance & use of bio fertilizer for enhancing nutrient use efficiency	01	20	00	20	05	00	05	25
Capacity Building and Group Dynamics										
July, 2018	PF	Group dynamics	01	20	00	20	05	00	05	25
Jan., 2019	PF	Formation and Management of SHGs(HS)	01	20	00	20	05	00	05	25

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G. Total
					M	F	T	M	F	T	
Handy craft	Handy craft	Handy Craft making	April	07	-	10	10	-	5	5	15
Tailoring	Tailoring stitching	Sewing & embroidery work	June	10	-	10	10	-	5	5	15
Organic manure	Production of organic inputs	Vermi compost production technology	Sept	06	13	-	13	02	-	02	15
LPM	Para vets	Importance & technique of artificial insemination in dairy animals	Dec	06	13	-	13	02	-	02	15

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
May, 2019	VLW /Extension officer	Production technology of castor & Cotton	01	25	00	25	00	00	00	25
September, 2019	VLW /Extension officer	Production technology of Mustard	01	25	00	25	00	00	00	25
June, 2019	VLW /Extension officer	IPM module in kharif crops	01	25	00	25	00	00	00	25
September, 2019	VLW /Extension officer	IPM module in Rabi crops	01	25	00	25	00	00	00	25
October, 2019	ATMA STAFF -Patan	Production technology and management of spices crops	01	15	0	15	0	0	0	15
July, 2019	ATMA/ Dairy Staff	Ethno-vet practices in dairy animals	01	15	0	15	05	0	05	20
October, 2019	Aganwadi worker	Care & Nutrition for children & pregnant women	01	0	20	20	0	0	0	20
February, 2020	ATMA STAFF -Patan	Training need assessment	01	15	0	15	0	0	0	15

Budget - Details of budget utilization (2018-19) up to 31 March 2019

S. No.	Particulars	Sanctioned	Released	Expenditure
24.1	Recurring Contingencies			
24.1.1	Pay & Allowances	150.00	114.00	102.33
24.1.2	Traveling allowances	1.00	-	0.20
24.1.3	Contingencies	6.50	6.00	
24.1.4.	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance			1.08
<i>1</i>				
<i>B</i>	POL, repair of vehicles, tractor and equipments			1.28
<i>C</i>	Meals/refreshment for trainees			0.52
<i>D</i>	Training material			0.12
<i>E</i>	Frontline demonstration except oilseeds and pulses			0.06
<i>F</i>	On farm testing			1.89
<i>G</i>	Training of extension functionaries			0.39
<i>H</i>	Maintenance of buildings			0.01
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory			-
<i>J</i>	Library			-
24.1	Total Recurring			107.88
24.2	Non-Recurring Contingencies			-
24.2.1	Works			-
24.2.2	Equipments including SWTL & Furniture			-
24.2.3	Vehicle (Four wheeler/Two wheeler, please specify)			-
24.2.4	Library			-
24.2	Total Non Recurring			-
24.3	REVOLVING FUND			
24.4	GRAND TOTAL (A+B+C)			107.88

Details of Budget Estimate (2019-20) based on proposed action plan

S. No.	Particulars	BE 2019-20proposed (Rs.)
25.1	Recurring Contingencies	
25.1.1	Pay & Allowances	1,50,00,000/-
25.1.2	Traveling allowances	1,50,000/-
25.1.3	Contingencies	
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	3,50,000/-
<i>B</i>	POL, repair of vehicles, tractor and equipments	
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	8,00,000/-
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	
<i>G</i>	Training of extension functionaries	
<i>H</i>	Maintenance of buildings	
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory	
<i>J</i>	Library	
25.1	TOTAL Recurring Contingencies	1,63,00,000/-
25.2	Non-Recurring Contingencies	
25.2.1	Works	10,00,000/-
25.2.2	Equipments including SWTL & Furniture	8,,00,000/-
25.2.3	Vehicle (Four wheeler/Two wheeler, please specify)	8,00,000/-
25.2.4	Library (Purchase of assets like books & journals)	10,000/-
25.2	TOTAL Non-Recurring Contingencies	26,10,000/-
25.3	REVOLVING FUND	
25.4	GRAND TOTAL	1,89,10,000/-

