ANNUAL PROGRESS REPORT

(JANUARY-2021 TO DECEMBER, 2021)

SUBMITTED TO

ICAR-ATARI,

ZONE-VIII, PUNE

SUMITTED BY

KRISHI VIGYAN KENDRA

SAMODA-GANWADA

TA.SIDHPUR, DIST.PATAN (GUJARAT)

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)
	Office	FAX		
Krishi Vigyan Kendra Saraswati Gram Vidhyapith Samoda-Ganwada Ta.Sidhpur, Di. Patan Gujarat, Pin. 384 151	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 address
	Office	FAX		
Saraswati Gram Vidyapeeth, Samoda-Ganwada Ta.Sidhpur, Di. Patan Gujarat, Pin. 384 151 (N.G.)	02767 285199	-	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. Date and Year of sanction: 1993

1.5. Staff Position (as on December, 2021)

					If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
Sl. No.	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	Current Pay Band	Current Grade Pay	Date of joining	
1.	Senior Scientist and Head	Dr.Upesh Kumar	9425661514	Plant Pathology	Level-13A	-	01/10/2016	
2.	Subject Matter Specialist	Shri G.A.Patel	9879924655	Plant Pathology	Level-10	-	06/05/1993	
3.	Subject Matter Specialist	Shri H.P.Patel	9909692814	Extension Education	Level-10	-	08/05/1993	
4.	Subject Matter Specialist	Smt. H.M.Patel	9909497009	Home Science	Level-10	-	19/08/2002	
5.	Subject Matter Specialist	Shri S.S. Darji	9909941995	Horticulture	Level-10	-	02/04/2012	
6.	Subject Matter Specialist	Shri R.P.Chaudhari	9574620447	Agronomy	Level-10	-	16/04/2015	
7.	Subject Matter Specialist	Shri S.J.Patel	9662654302	Animal Science	Level-10	-	01/09/2016	
8.	Programme Assistant	Smt. J.S.Patel	9909847367	-	Level-6	-	27/07/1996	
9.	Computer Programmer	Shri D.R.Patel	9979161440	-	Level-6	-	06/05/1993	
10.	Farm Manager	Shri D.N.Patel	9825703608	-	Level-6	-	22/02/1996	
11.	Accountant/ Superintendent	Shri N.B.Patel	9714325839	-	Level-6	-	25/01/1996	
12.	Stenographer	Shri J.K.Patel	9909301273	-	Level-4	-	25/01/1996	
13.	Driver 1	Shri R.A.Patel	9727016216	-	Level-3	-	14/08/2010	
14.	Supporting staff 1	Shri R.H.Desai	9879536469	-	Level-2	-	14/05/1993	
15.	Supporting staff 2	Shri R.D.Thakor	9586532371	-	Level-2	-	25/01/1996	
16.	Supporting staff 3	Shri P.V.Senma	9913298630		Level-2	-	25/01/1996	

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.	Horticulture	5.00
5.	Pond	-
6.	Others if any (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. Running	Present status
Tractor	2019-20	6,13,417.00	1026.3 Hr	New tractor
Jeep	2009-10	7,60,236.00	257717 Km	Working
Motorcycle	2010-11	49,695.00	56520 Km	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 Working Not working (Destroy)
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) -Aspeedurotekic battery sprayer -Aspee Bolo motorized knapsack sprayer -Aspeedurotecknitech sprayer -Aspee (Marut sprayer)	2017 2017 2017 2017	14650=00	Working
Nursery tools	2017	35965=00	Working
Water cooler with purifier	2017	52100=00	Working
Soil helt 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 ofSAC meeting conducted in the year: 2021

Date	Name and Designation of Participants	Recommendation of SAC Members	Action against suggestion	
12-02-2021	Sri M.L.Patel, Director, Saraswati Gram Vidyapeeth, Samoda-Ganwada, District – Patan Dr R.R.Prajapati, Associate Director Extension Education Directorate Extension Education, SDAU, S.K. Nagar Shri M.S.Patel, Dy.Director of Agril. (Training), F.T.C.,Patan Shri H.B.Patel, Asst. Director of Agril. (Extension), Dist. Agril. Dept., Patan Shri Anand K. Pandya, Horticultural Officer, Dy.Director of Horticultural, Patan	To aware the farmers for efficient use of water.	04 No of webinar (304 No of farmers), Training 01 No, Group meeting – 01 No, Special day- 01 No for awareness about efficient use of irirgation water	
		To provide technical back up for organizing the cluster demonstration.	Technical support to - Agriculture Department (07 No of training), SSNL (01 No of training), Reliance foundation (06 No of training) as well as BAIF (02 No of training) for conducting demo	
		To organize training programme on Natural farming.	SPNF Training- 05 No (380 No of farmers) under Webinar on SPNF- 01 No (161 No of farmers) PM live telecast- 01 No (550 No of Farmers) Group meeting- 01 No (16 No of farmers)	

	Shri S.R.Chaudhary, Dy.Director, S.S.N.L., Patan, Dy.Director, S.S.N.L., Patan Shri H.D.Ninama, Assistant, S.S.N.L., Patan, Dy.Director, S.S.N.L., Patan Shri M.J. Patel, Manager, Lead Bank, Patan Dr.D.J.Patel, Veterinary Officer, Dudhsagar Dairy, Sidhpur Center Shri Vipul Parmar, G.S.F.C., Sidhpur Shri Ajay Mongokiya, G.N.F.C., Sidhpur Shri B.M.Vasoya, IFFCO, Patan Shri D.M.Nadoda, Progressive farmer, Orumana Village Shri Jalarambhai Thakor, F.P.O. Leader, Tharod Village			
		Green maturing practices should be emphasised among farmers	KVK conduct 01 No Demo & 02 No training KVK also demo the technology at KVK instructional farm	
		To organize training programme on selection of chemical fertilizer and its efficient use.	KVK conduct 0 No of training, 01 No of training to extension functionaries, & 04 No of FLD for promotion of liquid bio fertilizer & STV based nutrient management	
		To organize training programme to prepare organic manure and vermi composting	KVK conduct -01 No of demo, 02 No of training, 1 No of Method demo & 3 No of group meeting KVK have demo unit- 6250 Kg Vermi compost sale to farmers	
		To increase the use of IPM for management of pest	Training- 06 No, Demo – 07 No, Sangosthi- 01 No & Audio conference- 04 No for popularization of IPM module	
		To organize webinar for large scale dissemination of technologies	Total 16 No of online webinar/ audio conference (37548 No of participants) 01 Digital farm school under ODOP programme	
		To organize the seed production programme for cumin and chickpea	KVK converge with FPO & Reliance foundation for seed production in Black gram, Chickpea & Cumin	
		To promote the value	KVK have been organize on/off campus training programme	for

	Shri Jitendrabhai Patel, Progressive Farmer, Kanesara Village Dr. Sharad M.Soni, S.M.S.(Animal Sci.), K.V.K.,Mehsana Sagarbhai P. Chaudhary, Media Representative Shri D.D.Patel, Dy.Director of Agriculture (Extension), Patan Shri Rakesh Varma, D.D.M. NABARD Shri H.H.Solanki, Veterinary Officer, KakoshiDist. Panchayat, Patan Smita K.Patel, Pregressive Farm women, Chandravati Village AnjanabenJ.Patel, Pregressive Farm women, Chandravati Village	addition activities	value addition in fruits and vegetables	
		Kitchen garden should be increased	❖ FLD- 01 (105 No of demo) ❖ Training- 03 No (70 No of farm women) ❖ IS training- 01 No (52 No of Aanganwadi Workers ❖ Field Day- 03 (115 No of farm women)	
		To impart training on improvement of soil health and fertility	3 No of webinar- 356, 6 No of training, 01 No of method demo & 117 No of soil testing	
		To promote the value addition activities	KVK have been organize on/off campus training programme for value addition in fruits and vegetables	
		KVK should cover all the taluka of Patan district	KVK are covered in all taluka of district Patan through KVK mandatory activities as well as Convergence with allied department	

	LalitabenBhudarbhai Patel, Pregressive Farm women, Ganeshpura Village KokilabenRasikbhai Patel, Pregressive Farm women, Ganeshpura Village Dr.V.B. Parmer, Dy.Director of Animal Husbandary, Patan Shri Mukeshbhai Desai, Manager Reliance Foundation, Patan Shri Bharatbhai K. Chaudhary, Representative Doordarshan, Patan Shri PravinbhaiDaraji, G. India News Editor, Patan Dr. Upesh Kumar, Senior Scientist & Hear, KVK,Patan	

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

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

S. 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

S. No.	Agro ecological situation	Characteristics
1	Alluvial sandy soil with low rainfall	Low rainfall dry climate
2	Saline soil with low rainfall	Low rainfall, dry climate, and absence of vegetative cover
3	Salt affected soil	Low rainfall dry climate and absence of vegetative cover

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 area of jurisdiction of KVK (2021)

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	850	10200.4	12.00
	Mango	103	515.00	5.00
	Ber	369	3070.80	10.49
	Guava	31	279.00	9.00
	Pomegranate	662	7480.60	11.30
	Date Palm	188	1314.00	6.99
	Papaya	151	6267.00	41.50
	Aonla	161	1376.55	8.55
	Total/ Average	**2620**	**31303.36**	**12.02**
C	**Vegetable crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2018-19**			
	Potato	767	18247	23.79
	Brinjal	349	6491	18.60

	Cabbage	228	4150	18.20
	Tomato	174	4289	24.64
	Cauliflower	310	5766	18.60
	Cucurbits	496	8839	17.82
	Total/ Average	**3748**	**80656**	**21.50**
D	**Spice crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2018-19**			
	Cumin	6421	32749	0.51
	Fennel	2357	4243	1.80
	Coriander	100	168	1.68
	Fenugreek	850	1641	1.93
	Isangul	521	511	0.98
	Ajwain	180	166	0.92
	Suwa	3600	5256	1.46
	Total/ Average	**71821**	**44734**	**0.82**
E	**Flower crops (Area- Ha, Production in M.T. & Productivity in M.T./Ha)- 2018-19**			
	Rose	49	427	8.71
	Marigold	57	523	9.18
	Mogra	03	22	7.33
	Total/ Average	**109**	**972**	**8.92**

Source: District agriculture/ Horticulture/ Animal Husbandry department.

2.5. Weather data (2021)

Month	Rainfall (mm)	Temperature (^{0} C)		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January	-	25.58	12.52	-	-
February	-	27.90	14.28	-	-
March	-	35.34	21.09	-	-
April	-	40.16	25.99	-	-
May	10	41.70	26.75	-	-

June	145	37.60	27.57	-	-
July	-	36.26	27.14	-	-
August	-	33.44	24.72	-	-
September	87	31.92	22.91	-	-
October	-	32.73	22.37	-	-
November	**52**	28.58	18.78	-	-
December	-	24.90	13.25	-	-
Total	**294**	-	-	-	-

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 / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Siddhpur	Mamvada, Ganeshpura, Madhupura, Khali	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	Matpur			
Chanasma	Jakhana, Dhanodharda			
Saraswati	Kanosan			
Harij	Adiya, Boratwada&kalana			
Sami	Nayka & Sonar			
Sankeshwar	Dhanora, Manvarpura, Datisana			
Radhanpur	Kalyanpura, Bhilot, Sultanpura, Vadlara			

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 Nutrient & Water management Integrated Pest & Disease management & Value addition		

3. TECHNICAL ACHIEVEMENTS

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
7	7	53	53	22	22	600	600

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
87	1810	100	3455	80	4125	66	4180

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
1000	1102	25000	29180

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	-	5000	6250

3.1. B. Operational areas details during 2021

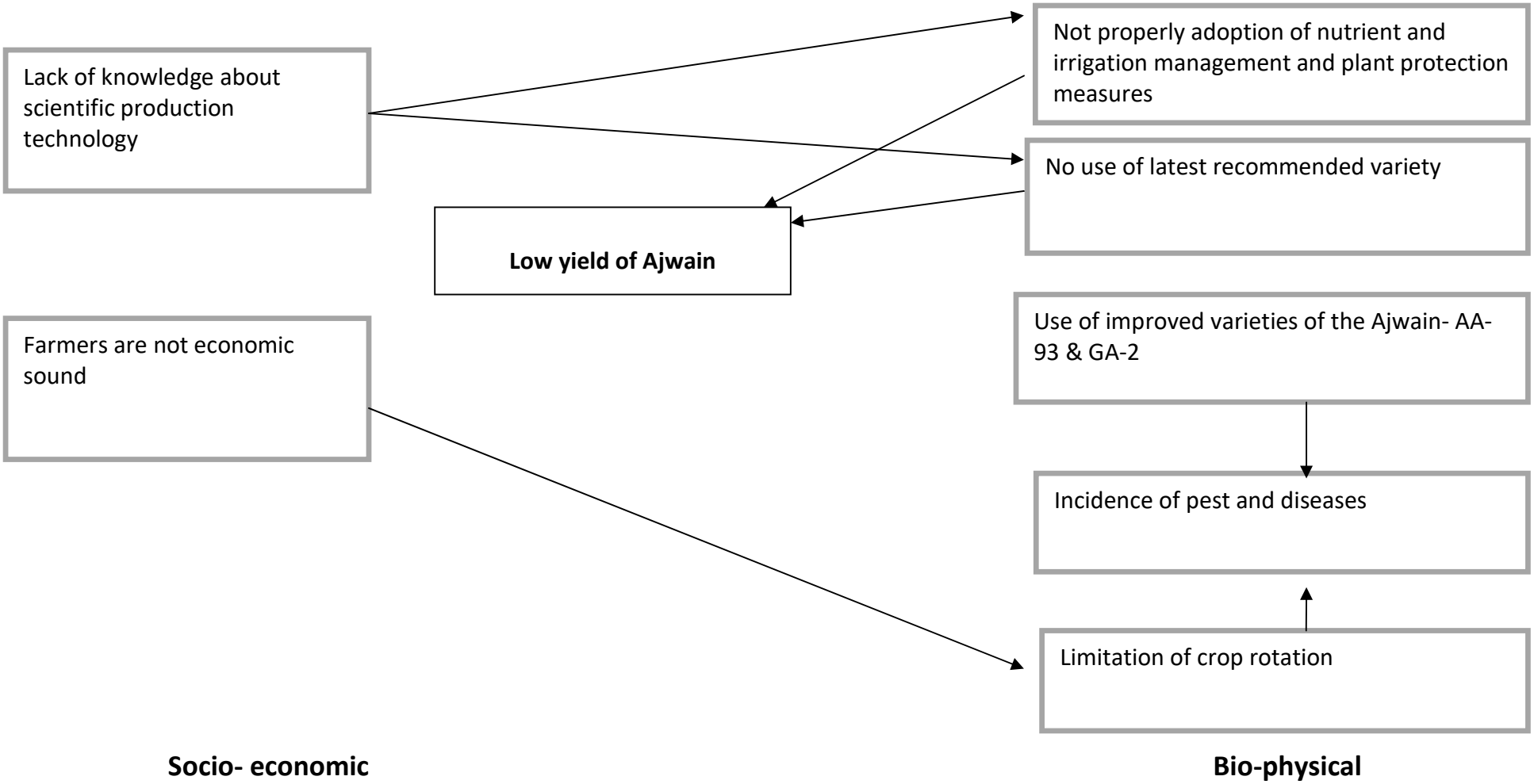
S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Cotton	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 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 Heavy infestation of pest- Aphid Heavy 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 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	Chansma, Radhanpur	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	Chanasma,, Patan	Training, FLD, Field Day, Field visit etc
9	Milch animal- Cow & Buffalo	Heavy infestation of endo &ecto parasite No use of by pass fat and bypass protein feed No or improper use of mineral mixture Not availability of green fodder in round the year	675 % animal are affected	Siddhpur, Saraswati	Training, OFT, FLD, Field Day, Field visit etc

* Support with problem-cause and interventions diagram

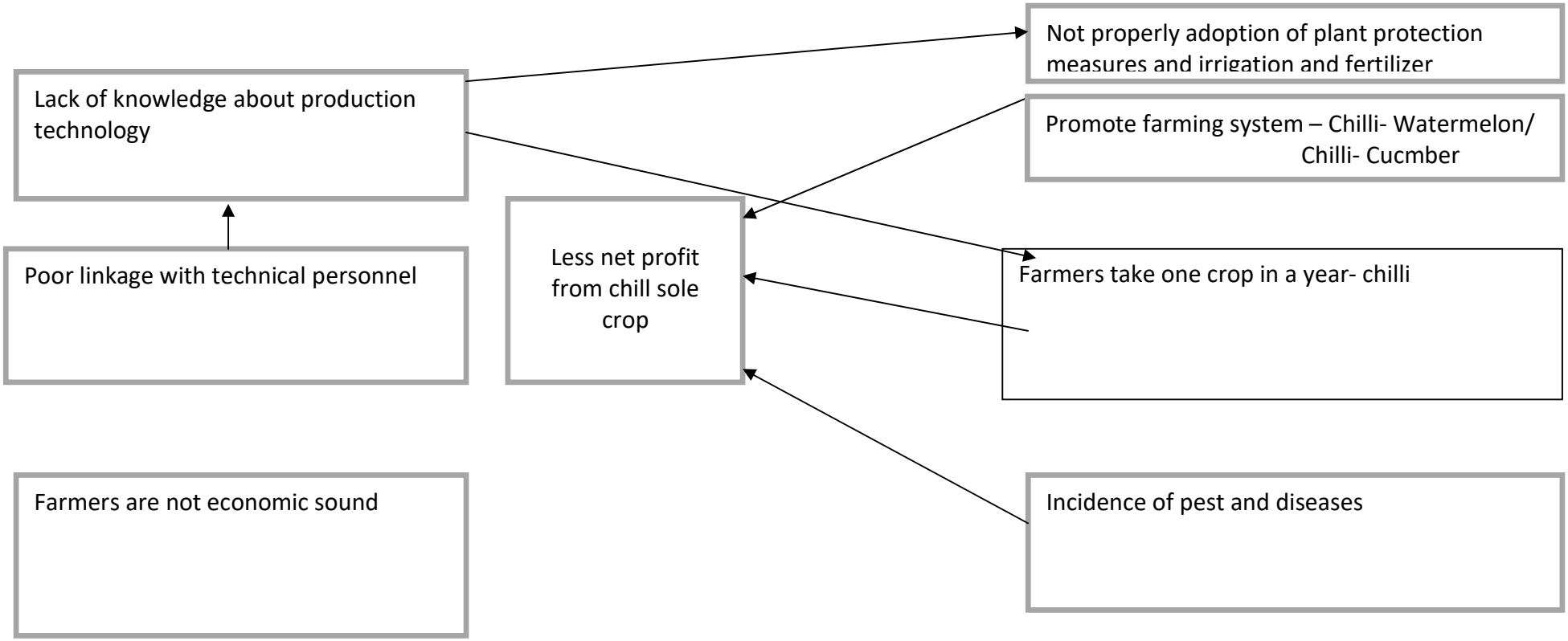
On Farm Testing -1

PROBLEM CAUSE DIA-GRAM – IMPROVED VARIETY OF AJWAIN



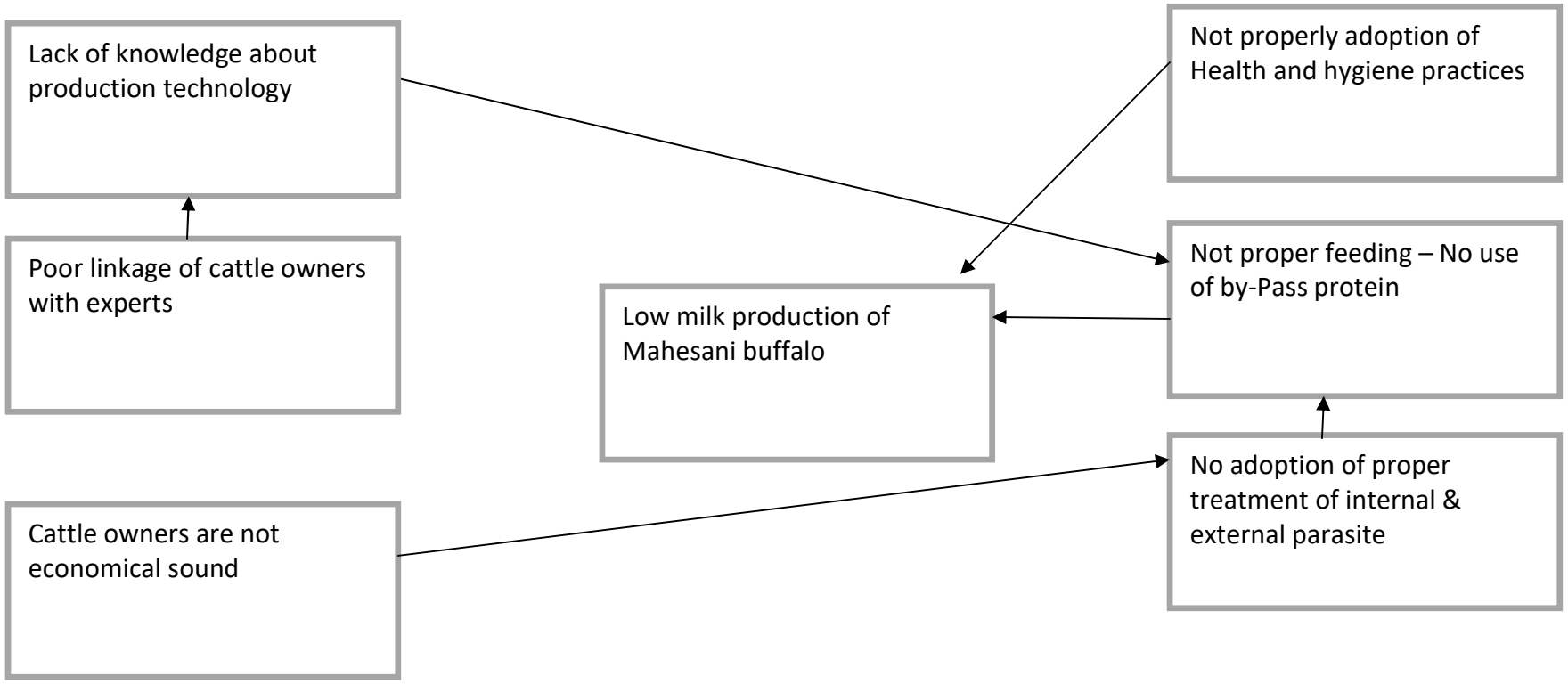
On Farm Teting -2

PROBLEM CAUSE DIA-GRAM – CHILLI-WATERMELON?CUCUMBER CROPPING SYSTEM



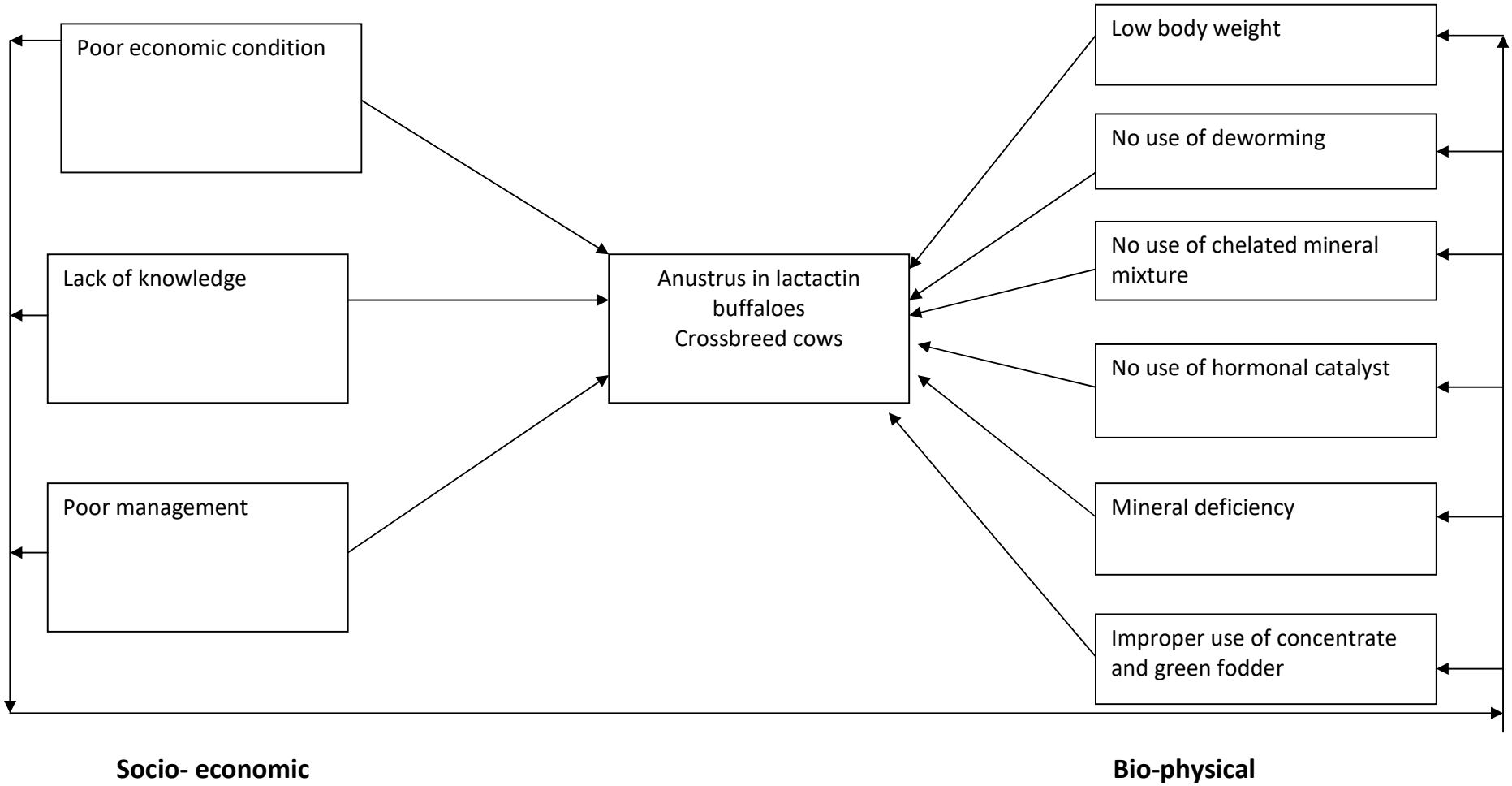
On Farm Teting -3

Problem Cause DIA-GRAM on By Pass Protein in Mahesani Buffalo



On Farm Teting - 4

Assessment of Chelated mineral mixture and deworming effect on anestrus condition in lactating buffaloes



3.2. Technology Assessment (Kharif 2021, Rabi 2020-21, Summer 2021)

A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	01									01
Varietal Evaluation				01	01					02
Integrated Pest Management				01						01
Integrated Crop Management					01					01
Integrated Disease Management					01					01
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total	**01**			**02**	**03**					**06**

A2. Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management	01					1
Disease of Management						
Value Addition						
Production and Management						

Feed and Fodder						
Small Scale income generating enterprises						
TOTAL	**01**					**01**

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 trial covering all the Technological Options)
Varietal Evaluation	Castor	Assessment of Hybrid varieties in castor **T1** - GCH-7 (Hybrid Variety) **T2** - GCH-8 (Hybrid Variety) **T3 -** GCH-9 (Hybrid Variety)	10	10	0.60
	Ajwain	Assessment of variety of Ajwain **T1:-** Local **T2:-**GA-2 **T3:-** AA-93	04	04	0.25
Integrated Nutrient Management	Wheat	Assessment of nutrient management in wheat **T1 -** 200: 100: 00KG/ ha N,P& K **T2 -** 120:60:00 Kg/ha N,P& k (as per STV) **T3 -** T2+ 2% foliar spray of urea at milking stage	10	10	0.30
Integrated Pest Management	Cotton	Assessment of pesticides for management of Pink boll worm **T1 ;** spraying of Quinalphos 25 EC @ 3 ml./ lit. water **T2 ;** Spraying of *Beauvariabasiana* @ 8 gm./ lit. water at initiation of flowering & repeated by 10 days interval (5 sprays) **T3 :**use of MDP paste , apply about 1000 drops / ha. between the upper two tiny branches of plant at initiation of flowering & repeat it by 30 days interval (3 times)	10	10	0.25

Integrated disease management	Cumin	Assessment of IDM module for the management of blight in cumin **T1:-** No seed treatment – spray mancozeb 75 wp @ 2 to 2.5 gm./ lit. of water **T2:-** Seed treatment y mancozeb 75 wp @ 3 gm./ kg. seed & spray of mancozeb 75 wp @ 3.5. gm./ lit. water along with solution 2.5 ml/lit. at 35-45 DAS respected by 10-12 days interval (4 sprays) **T3:-** At initiation of disease spray of krisoxim methyl 50 SC @ 1 ml / 1 lit. water, followed by second spray at 15 days of first spray.	10	10	0.30
Integrated Crop Management	Watermelon+ Cucumber	Assessment of Cropping system **T1:-**Chilli- Fallow **T2:-**Chilli- Watermelon **T3:-**Chilli- Cucumber	04	04	0.25
Total			**48**	**48**	**1.95**

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
Nutrition management	Crossbreed cows	Assessment of mineral and deworming effect on anestrous condition in crossbreed cows **T1:** Use of green fodder, dry fodder, concentrate **T2:** Use of green fodder, dry fodder, concentrate + Chelated mineral mixtures @ 40 gm + trace minerals bolus **T3:** T2+ Deworming of animals	05	05
Total			05	05

C. 1.Results of Technologies Assessed- Year- 2020-21

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 varieties in castor	10	T1 - GCH-7 (Hybrid Variety) T2 - GCH-8 (Hybrid Variety) T3-GCH-9 (Hybrid Variety)	No of Spikelet/ Plant & Yield Qtl/ha)	T1-18.4 No T2-19.2 No T3-17.6 No	T1-31.3 q/ha T2-33.4 q/ha T3-29.6 q/ha	✓ 9.34 more no of spikelet found under T_2 as on T1 ✓ 6.71 % yield enhancement in T_2 as on T_1	-	-

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)	-	31.3	Qtl/ha	109840	4.5
Technology option 2	SDAU, S K Nagar	33.4	Qtl/ha	118740	4.8
Technology option 3	JAU, Junagadh	29.6	Qtl/ha	88568	3.8

Details of On Farm Trial

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

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-** T1 - GCH-7 (Hybrid Variety)
T2 - GCH-8 (Hybrid Variety)
T3 - GCH-9 (Hybrid Variety)

4 **Source of technology-** SDAU, S K Nagar & JAU, Juagadhh

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

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

No of spikelet/ Plant- T_1- 18.4 , **T_2-** 19.2, **T3-**17.6

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -** Farmers are convinced with the technology of T2 because under technology they found 6.71 % higher yield over own practice.

8 **Final recommendation for micro level situation –** The technology T-2 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 farmer's participation and theirreaction**- 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
Wheat	Irrigated	Low yield of wheat due to imbalance use of plant nutrient	Assessment of nutrient management in wheat	10	T1 - 200: 100: 00KG/ ha N,P& K T2 - 120:60:00 Kg/ha N,P& k (as per STV) T3 - T2+ 2% foliar spray of urea at milking stage	No of effective tillers & Yield (qtl/ha) & Yield Qtl/ha)	T1- 3.92 No T2- 4.65No T3- 4.72 No	T1- 38.2q/ha T2-45.4 q/ha T3-47.1 q/ha	✓ 18.62% more effective tillers in T_2&20.41% in T_3 as compare to T_1. ✓ 18.9% more yield in T_2&22.3% in T_3 as compare to T_1	-	-

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)	-	38.2	Qtl/ha	51665	3.2
Technology option 2	SDAU, S K Nagar	45.4	Qtl/ha	66635	3.9
Technology option 3		47.1	Qtl/ha	69554	4.0

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of nutrient management in wheat

2 **Problem Definition -** Low yield of wheat due to imbalance use of plant nutrient

3 **Details of technologies selected for assessment-**T1 -200: 100: 00 Kg/ ha N,P& K
T2 - 120:60:00 Kg/ha N,P& k
T3 - T2+ 2% foliar spray of urea at milking stage

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

5 Production system and thematic area- INM

6 Performance of the Technology with performance indicators-

No ofeffective tillers / Plant- T_1- 3.93 , **T_2-** 4.65, **T3-**4.72

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques - Farmers are convinced with the technology of T3 because under technology they found 22.3 % 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 theirreaction- Farmers are involved each & every activity during technology assessment. They are convinced with the technology & 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
Ajwain	Irrigated	Low yield of existing variety of Ajwain	Assessment of high yielding variety of Ajwain (G.A-2 & A.A-93)	04	T_1- Local Variety T_2- G.A.-2 T_3- A.A.-93	No.of umbels per plant Yield	T1-36.7 No	T1- 10.15 q/ha	✓ 28.34% more umbel in T_2& 26.16% in T_3as compare to T_1. ✓ 21.97% more yield in T_2& 16.75% in T_3 as compare to T_1		
							T2-47.1 No	T2- 12.38 q/ha			
							T3-46.3 No	T3- 11.85 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. / unit	B:C Ratio
13	14	15	16	17	18
T_1- (Farmer's practice)	-	10.15	Qtl/ha	46800	2.60
T_2 - G.A.- 2	SRS,Jagudan,S.D.A.U	12.38	Qtl/ha	63013	3.12
T_3 – A.A.- 93	NRCSS,Ajmer	11.85	Qtl/ha	58775	2.95

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details:

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of high yielding variety of Ajwain GA-2 & AA-93

2 **Problem Definition -** Low yield of existing variety of Ajwain

3 **Details of technologies selected for assessment-** variety of Ajwain GA-2 & AA-93

4 **Source of technology-** NRCSS,Ajmer and SRS,SDAU,Jagudan

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

6 **Performance of the Technology with performance indicators- Net Return (Rs/ha)-** **T_1**:- 46800 **T_2:-** 63013 **T_3:-** 58775

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques –** 28.34 % higher umbel in T2 & 26.16 % more umbel are found in T3 as compared to T-1 resulted enhance 21.97 % higher yield in T2 & 16.75 % higher yield in T-3 as compared to T1. Farmers are seen the impact of technology & motivate for future adoption.

8 **Final recommendation for micro level situation –** Assessed technologies (T-3) were found more effective over farmers practice & recommendation after compilation of next year data.

9 **Constraints identified and feedback for research-** Required early maturity and powdery mildew resistant variety.

10 **Process of farmers participation and theirreaction**- 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-5

Results of On Farm Trial

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
Chickpea	Rainfed/ Semi irrigated	Low yield of Chickpea due to incidence of wilt disease	Management of wilt disease	10	Assessment of IDM module for the management of wilt in chickpea T1 - Seed treatment by fungicide is not in practice T2 -Seed treatment by Carbendazim 50% WP@ 2 gm/ Kg Seed T3 - Seed treatment by T viridae @ 10 g/Kg seed & Soil inoculation by T viridae @ 2.5 Kg/ ha	Wilt incidence (%) & Yield (Qtl/ha)	T1-12.9 % T2-7.7 % T3-6.9 %	T1-12.4 q/ha T2-15.3 q/ha T3-15.9 q/ha	✓ Reduce the wilt incidence- 40.3% in T_2& 46.50 % in T_3 in comparison of T_1 ✓ Enhance the yield – 23.38 % in T_2& 28.22 % in T_3 as comparison of T_1	-	-

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)	-	12.4	Qtl/ha	40840	2.82
Technology option 2	JAU, Junagadh	15.3	Qtl/ha	54880	3.37
Technology option 3		15.9	Qtl/ha	57790	3.48

C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1 Title of Technology Assessed :- Management of wilt disease in chick pea

2 Problem Definition :- Low yield of chick pea due to incidence of wilt disease

3 Details of technologies selected for assessment:- T_1:-Seed treatment by fungicide is not in practice T_2:- Seed treatment by Carbendazim 50% WP@ 2 gm/ Kg Seed T_3:- Seed treatment by T viridae @ 10 g/Kg seed & Soil inoculation by T viridae @ 2.5 Kg/ ha

4 Source of technology:- JAU, Junagadh

5 Production system and thematic area :- IDM

6 Performance of the Technology with performance indicators:-Under assessed technology reduce the wilt incidence- 40.31 % in T_2& 46.51 % in T_3 in comparison of T_1rresulted enhance the yield – 23.38% in T_2& 28.22% in T_3 as comparison of T_1

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

techniques :- Farmers are ready to adopt the seed treatment by either chemical or bio-fungicide before the sowing of seeds owing to they found less disease incidence.

8 Final recommendation for micro level situation: - Assessed technologies T-3 were found more effective over farmers practice &recommended for large scale dissemination.

9 Constraints identified and feedback for research and developmental departments: - Evaluate wilt resistant variety

10 Process of farmers participation and their reaction: - Group meeting with farmers for selection of the problem solving models of chick pea production technology.

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
Wheat	Irrigated	Low yield of wheat due to infestation of termites	Management of termite in wheat	10	T1 - Seed treatment by Chlorpyriphos 20EC @ 5 ml./ kg. seed T2 - Seed treatment by Bifenthrin 10% EC @ 2 ml/ Kg seed T3 - Seed treatment by Fipronil 5%SC @ 6 ml/ Kg seed	Termite infestation (%) & Yield (Qtl/ha)	T1-12.3 % T2- 5.8 % T3- 5.6 %	T1-36.2 q/ha T2-41.7 q/ha T3-41.9 q/ha	✓ Reduce the termite infestation- 52.8% as T2 & 54.5% as T3 in comparison of T1 ✓ Enhance the yield – 15.2% as T2 & 15.7% as T3 in comparison of T1	-	-

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)	-	36.2	Qtl/ha	41765	2.71
Technology option 2	SDAU, S.K. Nagar	41.7	Qtl/ha	51483	3.09
Technology option 3		41.9	Qtl/ha	51818	3.10

Details of On Farm Trial

1 **Title of Technology Assessed** :- Management of termite in wheat

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

3 **Details of technologies selected for assessment:-** T_1:- Seed treatment by Chlorpyriphos 20EC @ 5 ml./ kg. seed T_2:- Seed treatment by Bifenthrin 10% EC @ 2 ml/ Kg seed T_3:- Seed treatment by Fipronil 5%SC @ 6 ml/ Kg seed

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

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

6 **Performance of the Technology with performance indicators:-**Under assessed technology reduce the termite infestation- 52.85 % in T_2& 54.47 % in T_3 in comparison of T_1 rresulted enhance the yield – 15.19% in T_2& 15.75% in T_3 as comparison of T_1

7 **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :**-Very less infestation found in assessed technologies, so farmers where realized that proper method of seed treatment with recommended dose of pesticide is effective for termite management in wheat.

8 **Final recommendation for micro level situation**: -Assessed technologies T-3 were found more effective over farmers practice & recommended for large scale dissemination.

9 **Constraints identified and feedback for research and developmental departments**:- Evaluate the bio pesticide for termite management.

10 **Process of farmers participation and their reaction** :- Group meeting with farmers for selection of the problem solving models of termite management in wheat..

C1.Results of Technologies Assessed

Results of On Farm Trial

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	Justification for refinement	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 varieties in castor	10	T1 - GCH-7 (Hybrid Variety) T2 - GCH-8 (Hybrid Variety) T3-GCH-9 (Hybrid Variety)	No of Spikelet/ Plant & Yield Qtl/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. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Result awaited	Qtl/ha	Result awaited	
Technology option 2	SDAU, S K Nagar		Qtl/ha	Result awaited	
Technology option 3	JAU, Junagadh		Qtl/ha	Result awaited	

Details of On Farm Trial

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

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-** T1 - GCH-7 (Hybrid Variety) T2 - GCH-8 (Hybrid Variety)T3 - GCH-9 (Hybrid Variety)

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

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

6 **Performance of the Technology with performance indicators-** 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 theirreaction**- Result awaited

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
Wheat	Irrigated	Low yield of wheat due to imbalance use of plant nutrient	Assessment of nutrient management in wheat	10	T1 - 200: 100: 00KG/ ha N,P& K T2 - 120:60:00 Kg/ha N,P& k (as per STV) T3 - T2+ 2% foliar spray of urea at milking stage	No of effective tillers & Yield (qtl/ha) & Yield Qtl/ha)	Result awaited	Result awaited	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. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Result awaited	Qtl/ha	Result awaited	
Technology option 2	SDAU, S K Nagar	Result awaited	Qtl/ha	Result awaited	
Technology option 3		Result awaited	Qtl/ha	Result awaited	

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of nutrient management in wheat

2 **Problem Definition -** Low yield of wheat due to imbalance use of plant nutrient

3 **Details of technologies selected for assessment-** T1 200: 100: 00 Kg/ ha N,P& K
T2 - 120:60:00 Kg/ha N,P & k
T3 - T2+ 2% foliar spray of urea at milking stage

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

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

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

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

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

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

10 **Process of farmers participation and theirreaction**- Result awaited

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
Ajawain	Irrigated	Low yield of ajawain due to use of local variety	Assessment of improved variety of Ajawain	04	T1 – Local T2 - GA-2 T3 - AA- 93	No of umbel/Plant & Yield (qtl/ha)	Result awaited	Result awaited	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. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Result awaited	Qtl/ha	Result awaited	
Technology option 2	SDAU, S K Nagar	Result awaited	Qtl/ha	Result awaited	
Technology option 3	NRC, Seed Spices, Ajmer	Result awaited	Qtl/ha	Result awaited	

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of high yielding variety of Ajwain GA-2 & AA-93

2 **Problem Definition -** Low yield of existing variety of Ajwain

3 **Details of technologies selected for assessment-** variety of Ajwain GA-2 & AA-93

4 **Source of technology-** NRCSS,Ajmer and SSRC,SDAU,Jagudan

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

6 **Performance of the Technology with performance indicators-** 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 theirreaction**- Result awaited

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
watermelon cucumber	irrigated	low net profit of present cropping system chilli-fallow	Assessment of cropping system chilli-cucurbits for enhancing the net profit	04	T_1 –Chilli-Fallow T_2 –Chilli-Watermelon T_3-Chilli-Cucumber	Cropping intensity % & Net Income	T1:- 100%. T2:- 200% T3:- 200%	$T_{1.}$- Rs 97025/ha T2- Rs 196075/ha T3- Rs 184300/ha	Chilli-watermelon cropping system is more profitable because 89.95 % enhance the profitability under T-3 as compared to T-1	-	-

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	B:C Ratio
13	14	15	16	17	18
Technology 1 Chilli-Fallow	IIHR,Banglore	Chilli- 224	Qtl/ha.	97025	2.18
Technology 2 Chilli-Watermelon		Chilli- 220 Watermelon- 196	Qtl/ha.	196075	2.68
Technology 3 Chilli-Cucumber		Chilli- 219 Cucumber- 217	Qtl/ha.	184300	2.52

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details:

Details of On Farm Trial

1 **Title of Technology Assessed** - Assessment of cropping system chilli-cucurbits for enhancing the net profit

2 **Problem Definition -** low net profit of present cropping system chilli-fallow

3 **Details of technologies selected for assessment-** Cropping system Chilli- Watermelon and Chilli- Cucumber

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)- T_1**:- Rs. 97025 **T_2:- Rs. 196075 T_3:- Rs. 184300**

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques –** Average cropping intensity was found 200% in T_2& T_3 as compare to technology T_3 . Resulting in 22000 kg/ha (Chilli) & 19600 kg/ha (watermelon) &21900 kg/ha (Chilli) & 21700 Kg/ha (Cucumber) yield respectively. **85.70** % more yield in technology T_2& 94.97 % in technology T_3 as compare to technology T_1.

8 **Final recommendation for micro level situation –** The technology (T-3) were found more effective over farmers practices & recommendation for large scale dissemination.

9 **Constraints identified and feedback for research-** Fruit fly & Powdery mildew is the major problem, so farmers need fruit fly & powdery mildew resistant variety.

10 **Process of farmers participation and theirreaction**- Farmers are seen more profit in recommended technology over own practices (farmers practices) resulted farmers are appreciate the technology and 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
Cotton	Irrigated	Low yield of cotton due to infestation of pink boll worm	Assessment of IPM module for the management of Pink boll worm	10	**T1**- Spraying quinolphos 25EC @ 3 ml/ Lit of water **T2** –Spray *B basiana*@ 5 gm/ Lit of water at initiation of flowering & repeated by 10 Days interval (5 spray) **T3**- Use MDP paste- keep about 1000 drops/ ha between the upper two tiny branches of plant at initiation of flowering & repeatedly by 30 days interval (3 times)	% infestation of pink ball worm & Yield (qtl/ha)	Result awaited Result awaited Result awaited	Result awaited Result awaited Result awaited	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. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	-	Result awaited	Qtl/ha	Result awaited	
Technology option 2	JAU, Junagadh	Result awaited	Qtl/ha	Result awaited	
Technology option 3		Result awaited	Qtl/ha	Result awaited	

Details of On Farm Trial

1 Title of Technology Assessed :- IPM module for the management of Pink boll worm
2 Problem Definition :- Low yield of cotton due to infestation of pink boll worm
3 Details of technologies selected for assessment:-

T1- Spraying quinolphos 25EC @ 3 ml/ Lit of water

T2 –Spray *B basiana*@ 5 gm/ Lit of water at initiation of flowering & repeated by 10 Days interval (5 spray)

T3- Use MDP paste- keep about 1000 drops/ ha between the upper two tiny branches of plant at initiation of flowering & repeatedly by 30 days interval (3 times)

4 Source of technology :- JAU,Junagadh
5 Production system and thematic area :- IPM
6 Performance of the Technology with performance indicators:- Results Awaited
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- Results Awaited.
8 Final recommendation for micro level situation :- Results Awaited
9 Constraints identified and feedback for research and developmental departments:- Results Awaited
10 Process of farmers participation and their reaction :- Results Awaited.

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	on for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cumin	Irrigated	Low yield of cumin due to incidence of blight disease	Assessment of fungicide for the management of blight disease in cumin	10	T1- Farmers practice (No Seed treatment & spray of Mancozeb 75%WP @ 2.0-2.55 gm/ Lit of water T2-Seed treatment by Mancozeb 75% WP@3 gm/ Kg Seed & spray of Manzozeb 75% WP@3.5gm/ Lit of water along with soap solution (2.5 ml) at 35-40 DAS repeatedly by 10 days interval (4 spray) T3- Seed treatment by Mancozeb 75%WP @ 3 g/ Kg of seed & spray propiconazol 25 EC @ 1 ml/ Lit of water at 35-40 DAS repeatedly 10 Days interval (4 spray)	Disease incidence (%) Yield (qtl/ha)	Results Awaited Results Awaited Results Awaited	Results Awaited Results Awaited Results Awaited	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	Qtl/ha	Results Awaited	
Technology option 2	SDAU, S.K. Nagar	Results Awaited	Qtl/ha	Results Awaited	
Technology option 3		Results Awaited	Qtl/ha	Results Awaited	

Details of On Farm Trial

1 Title of Technology Assessed :- management of blight disease in cumin
2 Problem Definition Low yield of cumin due to incidence of blight disease
3 Details of technologies selected for assessment:-
T1- Farmers practice (No Seed treatment & spray of Mancozeb 75%WP @ 2.0-2.55 gm/ Lit of water
T2-Seed treatment by Mancozeb 75% WP@3 gm/ Kg Seed & spray of Manzozeb 75% WP@3.5gm/ Lit of water along with soap solution (2.5 ml) at 35-40 DAS repeatedly by 10 days interval (4 spray)
T3- Seed treatment by Mancozeb 75%WP @ 3 g/ Kg of seed & spray propiconazol 25 EC @ 1 ml/ Lit of water at 35-40 DAS repeatedly 10 Days (4 spray)
4 Source of technology :- SDAU,S.K.Nagar
5 Production system and thematic area :- IDM
6 Performance of the Technology with performance indicators:- Results Awaited.
7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- Results Awaited.
8 Final recommendation for micro level situation :- Results Awaited.
9 Constraints identified and feedback for research and developmental departments:- Results Awaited.
10 Process of farmers participation and their reaction :- Results Awaited..

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
Livestock	-	Anestrus in crossbreed cows	Assessment of mineral and deworming effect on anestrus condition in crossbreed cows	05	Use of green fodder, dry fodder, concentrate + Chelated mineral mixtures @ 40 gm + trace minerals bolus + Deworming of animals	Signs of heat shown by animals, No. of animal in heat, Conception rate	Signs of heat shown by animals, No. of animal in heat, Conception rate	40 and 60 percent increase conception rate over T1 and T2 respectively	Use of this technology increase conception rate		

Contd..

Technology Assessed	Source of Technology	Conception (%)	No. of Animals show sign of estrus	No.of animal in heat
13	14	15	16	17
Use of green fodder, dry fodder, concentrate	Farmer practices	20	1	1
T1 +Chelated mineral mixtures @ 40 gms + copper and cobalt bolus	SDAU, S K nagar	60	3	3
T2 + Deworming of animals	IVRI, Izzatnagar	80	4	4

C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1.	Title of Technology Assessed	:	Assessment of mineral and deworming effect on anestrus condition in crossbreed cows
2.	Problem Definition	:	Anestrus in crossbreed cows
3.	Details of technologies selected for assessment	:	Use of green fodder, dry fodder, concentrate + Chelated mineral mixtures @ 40 gms + trace minerals bolus + Deworming of animals
4.	Source of technology	:	IVRI, Izzatnagar
5.	Production system and thematic area	:	Nutrient management
6.	Performance of the Technology with performance indicators	:	Signs of heat shown by animals, No. of animal in heat, Conception rate
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	:	Increase conception rate
8.	Final recommendation for micro level situation	:	First year result, Second year trial
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction		Group meeting and field visit

3.3. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2021 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	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	Training, Demo., Field visit, Field day, Group meeting etc	90	1850	1400
1	Castor	ICM & Variety	Hybrid Variety of castor -GCH-7	Training, Demo., Field visit, Field day, Group meeting etc	200	850	10500
3	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	75	1800	1500
4	Wheat-Variety	Varietal Demo	Improved variety of wheat - GW-451	Training, Demo., Field visit, Field day, Group meeting etc	110	800	500
5	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	60	600	-
6	Castor	Drudgery reduction	Harvestingbof castor spick (secaitier)	Traning ,Demo,Fieldvisit,Fieldday,etc	10	50	-
7	Vermi compost	Production of vermi compost	Production technology of Vermi compost	Traning,Field day , Field visit, Demo,etc	05	25	
8	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	100	2000	1500

7	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	85	1300	650
8	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	85	2000	1650
9	Chilli	INM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval	Training, Demo., Field visit, Field day, Group meeting etc	30	125	35
10	Fennel-Variety	Varietal Demo & IDM	Improved variety of fennel – Gujarat Fennel – 12	Training, Demo., Field visit, Field day, Group meeting etc	155	3500	1800
11	Cumin + Ajwain	Varietal demon	Intercropping of Cumin + Ajwain (4:1)	Training, Demo., Field visit, Field day, Group meeting etc	30	600	400
12	Lime	INM	Balance of major plant nutrient along with five foliar application of Arka Citrus Special @5 ml/lit of water (each spray on 25 days interval	Training, Demo., Field visit, Field day, Group meeting etc	15	100	40
13	Milch animal	Feed management	Chelated mineral mixture @ 40 Gm / day/ animal (Cow/ Buffalo)	Training, Demo., Field visit, Field day, Group meeting etc	25	250	-
14	Milch animal	Feed management	Probiotic @20 gm/day in Mehsani buffalo	Training, Demo., Field visit, Field day, Group meeting etc	10	50	-
15	Milch animal	Feed management	By pass protein @ 1 Kg/ Day per Animal in Buffalo	Training, Demo., Field visit, Field day, Group meeting etc	10	45	-
16	Milch animal	Feed management	By pass fat @ 100 gm/ Day per Animal in Buffalo	Training, Demo., Field visit, Field day, Group meeting etc	15	80	-

B. Details of FLDs implemented during 2021**(Kharif 2021, Rabi 2020-21, Summer 2021)** (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	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	Kharif 2021	20	20	04	46	50	
2	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 2020	10	10	02	23	25	
3	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 2021	10	10	02	23	25	
4	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	Kharif-2020	5	5	-	20	20	
5	Castor	ICM	Hybrid variety (GCH-7) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Kharif 2020	20	20	01	49	50	
6	Castor	ICM	Hybrid variety (GCH-7) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Kharif 2021	10	10	00	25	25	
7	Sun hemp-Castor	INM	Green manuring of sunhemp crop. Seed rate@60 kg/ha	Kharif 2021	5	5	00	20	20	

8	Mustard	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Rabi, 2020	20	20	01	49	50	
9	Mustard	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Rabi, 2021	10	10	00	25	25	
10	Mustard+ Lucerne	ICM	Mix cropping (Mustard +Lucerne)	Rabi 2020	10	10	00	25	25	
11	Wheat	Varieta l Demo	Improved Variety –GW-451	Rabi 2020	10	10	00	25	25	
12	Wheat	Varieta l Demo	Improved Variety –GW-451	Rabi 2021	10	10	00	25	25	
13	Wheat	IPM	Seed treatment by fipronil 5 sc @ 6 ml/kg seed & soil application @ 2.5 lit./ha with irrigation water.	Rabi 2021	05	05	-	20	20	
14	Chick Pea	ICM	Improved variety (GJG-5) +Soil inoculation of *Trichoderma viridae*@ 2.5 kg/ha + RDF + Bio-fertilizer + Pheroman trap @ 40/ha + Profenophos 50 EC	Rabi-2020	20	20	2	48	50	
15	Chick Pea	ICM	Improved variety (GJG-5) +Soil inoculation of *Trichoderma viridae*@ 2.5 kg/ha + RDF + Bio-fertilizer + Pheroman trap @ 40/ha + Profenophos 50 EC	Rabi-2021	20	20	4	46	50	
16	Chilli	ICM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval)	Kharif-2020	5	5	0	20	20	
17	Chilli	ICM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval)	Kharif-2021	5	5	0	20	20	

18	Fennel	Varietal Demo	Improved variety of GF-12	Rabi-2020	10	10	2	44	46	
19	Fennel	Varietal Demo	Improved variety of GF-12	Rabi-2021	5	5	0	20	20	
20	Cumi+ Ajwain	ICM	Intercropping Cumin+Ajwain (4:1)	Rabi-2020	5	5	2	23	25	
21	Cumin +Ajwain	ICM	intercropping Cumin+Ajwain (4:1)	Rabi-2021	5	5	2	23	25	
22	Fennel	IDM	Foliar spay of carbendazim 12% + Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS	Rabi-2020	10	10	-	25	25	
23	Fennel	IDM	Foliar spay of carbendazim 12% + Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS	Rabi-2021	10	10	-	25	25	
24	Cumin	IDM	Seed treatment by Trichoderma viridae @ 10gm/ Kg Seed along with soil treatment by T. viridae @ 2.5 Kg/ha	Rabi-2020	10	10	-	25	25	
25	Kagzi line	INM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval	Rabi-2020	2	2	1	19	20	
26	Kagzi line	INM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval	Rabi-2021	2	2	0	20	20	
27	Kagzi line	IDM	Gummosis Management - Cutting of dried & diseased twigs after 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	Rabi-2020	1	1	-	10	10	

28	Kagzi line	IDM	Gummosis Management - Cutting of dried & diseased twigs after 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	Rabi-2021	1	1	-	10	10	

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					
Black gram	Kharif 2021	Irrigated	Loamy sand to medium black	L	L	M	Mustard,Sorghum and Wheat	2nd fortnight of June	1st Fortnight of September		
Cotton	Kharif 2020	Irrigated	Sandy loam	L	L	M	Fallow	First Week of June	Last week to February		
Cotton	Kharif 2021	Irrigated	Sandy loam	L	L	M	Fallow	First Week of June	Last week to February		
Cotton	Kharif-2020	Irrigated	Sandy loam	L	L	M	Fallow	First Week of June	Last week to February		
Castor	Kharif 2020	Irrigated	Sandy loam to sandy soil	L	L	M	Fallow	IInd Fortnight of August	Ist fortnight of April		
Castor	Kharif 2021	Irrigated	Sandy loam to sandy soil	L	L	M	Fallow	IInd Fortnight of August	Ist fortnight of April		
Sun hemp-Castor	Kharif 2021	Irrigated	Sandy loam to sandy soil	L	L	M	Fallow	IInd Fortnight of August	Ist fortnight of April		
Mustard	Rabi, 2020	Irrigated	Sandy loam to sandy soil	L	L	M	Pulses	IInd Fortnight of October	Last week of February		

Mustard	Rabi, 2021	Irrigated	Sandy loam to sandy soil	L	L	M	Pulses	IInd Fortnight of October	Last week of February		
Mustard+Lucerne	Rabi 2020	Irrigated	Sandy loam to sandy soil	L	L	M	Pulses	IInd Fortnight of October	Mustard Last week of February + Lucerne 2nd Fortnight of May		
Mustard+Lucerne	Rabi 2021	Irrigated	Sandy loam to sandy soil	L	L	M	Pulses	IInd Fortnight of October	Mustard Last week of February + Lucerne 2nd Fortnight of May		
Wheat	Rabi 2020	Irrigated	Sandy loam to sandy soil	L	L	M	Pearl millet	IInd Fortnight of November	Last week of March		
Wheat	Rabi 2021	Irrigated	Sandy loam to sandy soil	L	L	M	Pearl millet	IInd Fortnight of November	Last week of March		
Wheat	Rabi 2021	Irrigated	Sandy loam to sandy soil	L	L	M	Pearl millet	IInd Fortnight of November	Last week of March		
Chick Pea	Rabi-2020	Semi-Irrigated	Medium black to black soil	L	L	M	Cumin, Guar, Desi Cotton	2nd fortnight of October	1st week of February		
Chick Pea	Rabi-2021	Semi-Irrigated	Medium black to black soil	L	L	M	Cumin, Guar, Desi Cotton	2nd fortnight of October	1st week of February		
Chilli	Kharif-2020	Irrigated	sandy loam to sandy	M	M	M	fallow & fodder	1st fortnight of July	up to March		
Chilli	Kharif-2021	Irrigated	sandy loam to sandy	M	M	M	fallow & fodder	1st fortnight of July	up to March		

Fennel	Rabi-2020	Irrigated	sandy loam to Medium black	M	M	M	pulses	2nd fortnight of October	1st fortnight of April		
Fennel	Rabi-2021	Irrigated	sandy loam to Medium black	M	M	M	pulses	2nd fortnight of October	1st fortnight of April		
Cumin+ Ajwain	Rabi-2020	Irrigated	saline & sandy loam soil	M	M	M	fallow, pulses, f odder	1st fortnight of November	2nd fortnight of march for cumin & 1st fortnight of may for Ajwain		
Cumin+Ajwain	Rabi-2021	Irrigated	saline & sandy loam soil	M	M	M	fallow, pulses, f odder	1st fortnight of November	2nd fortnight of march for cumin & 1st fortnight of may for Ajwain		
Fennel	Rabi-2020	Irrigated	Sandy loam to medium black	L	L	M	Cotton, Pulses	1st week of November	3rd week of April		
Fennel	Rabi-2021	Irrigated	Sandy loam to medium black	L	L	M	Cotton, Pulses	1st week of November	3rd week of April		
Cumin	Rabi-2020	Semi-Irrigated	Medium black to black soil	L	L	M	Chick pea, Guar, Desi Cotton	1st fortnight of November	2nd fortnight of March		
Kagzi line	Rabi-2020	Irrigated	sandy loam to sandy	M	M	M	Sole	-	Round the year		
Kagzi line	Rabi-2021	Irrigated	sandy loam to	M	M	M	Sole	-	Round the year		

			sandy								
Kagzi line	Rabi-2020	Irrigated	sandy loam to sandy	M	M	M	Sole	-	Round the year		
Kagzi line	Rabi-2021	Irrigated	sandy loam to sandy	M	M	M	Sole	-	Round the year		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Need to develop improved/ hybrid variety of wheat, Funnel, Castor, Mustard, Black 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.
9	Need to develop early maturity variety of spices crop like Ajwain,Cumin, Fennel

Farmers' reactions on specific technologies

S. No	Feed Back
A	**Cereals**
1.	Farmers observe good growth of plant, no lodging & more no of effective tillers are found in improved variety of wheat (GW-451)
B	**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) : Seed treatment by Biofungicide viz. Trichoderma viridae @10 gm. per 1 kg.seed as well as soil inoculation of Trichoderma viridae @ 2.5 kg /ha. effective against wilt disease incidence.
4.	Fennel (IDM) : Spraying of fungicide viz. SAAF (Carbendezim 12 % + Mancozeb 63 %) @ 40 gm/15 lit. water along with 25 ml soap solution at 45 ,60 ,

	75 DAS, Before initiation of blight disease, increase the productivity and improve the quality of seeds.
5.	Fennel (Var.) : GF-12 variety is high yielding
6.	Lime- Cleaning the orchard and cutting the dried and diseased twigs of the plant and spray the plants by fungicide decrease the disease incidence and improve the quality of fruits.
C	**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
D	**Pulses**
1.	Black gram : GU-1 variety found best in production as compared to local varieties sown.IPM module decrease the pest and disease incidence during the crop season
2.	Chickpea : Use of improved & wilt resistant variety GG -5 and seed treatment by Biofungicide T .viridae as well as bio fertilizer enhance the germination and decrease the wilt disease incidence. Installation of pheromone trap with helilure monitored and decrease the infestation of helicovarpa during the crop season.
E	**Cotton**
1	Good growth of plant, more number of bolls per plant obtain under INM in cotton resulted enhance the productivity
2	Sex pheromone trap with pectinophora lure decrease the pinball worm infestation
F	**Animal Science**
1	Proper feed management- Use of Mineral mixture, By Pass Fat, By Pass Protein & Probiotic is not only enhance the milk production but also enhance the profitability of dairy.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	**Black gram**				
A	Farmers Training	04	15/06/2021, 16/06/2021, 24/06/2021, 26/06/2021,	99	
B	Field visit	06	During Crop period	51	
C	Field Day	02	15/09/2021, 22/09/2021,	84	
D	Training for extension functionaries	01	23/06/2021	34	
2	**Cotton**				
A	Farmers Training	02	27/05/2021,17/07/2021	100	
B	Field visit	02	During Crop period	34	
D	Training for extension functionaries	01	25/05/2021	32	
3	**Castor**				
A	Farmers Training	03	29/07/2021, 31/07/2021, 26/08/2021	116	
B	Field visit	06	During Crop period	52	
C	Field Day				
D	Training for extension functionaries	01	25/05/2021	32	
4	**Sun hemp-Castor**				
A	Farmers Training	01	25/06/2021	20	
B	Field visit	02	During Crop period	14	
C	Training for extension functionaries	01	25/05/2021	32	
5	**Mustard**				
A	Farmers Training	01	23/10/2021	26	
B	Field visit	06	During Crop period	62	
C	Field Day	01	12/01/2021	49	
D	Training for extension functionaries	01	10/12/2021	31	

6	**Wheat**				
A	Farmers Training	02	25/11/2021, 25/10/2021	45	
B	Field visit	02	During Crop period	17	
C	Training for extension functionaries	01	10/12/2021	31	
7	**Wheat**				
A	Farmers Training	01	12/11/2021	20	
B	Field visit	01	During Crop period	04	
C	Training for extension functionaries	01	10/12/2021	31	
8	**Chick Pea**				
A	Farmers Training	02	12/10/2021, 13/10/2021	50	
B	Field visit	04	During Crop period	29	
C	Field Day	01	30/01/2021	45	
D	Training for extension functionaries	01	10/12/2021	31	
9	**Chilli**				
A	Farmers Training	02	23/02/21,17/08/21	42	
B	Field visit	05	During crop period	39	
C	Field Day	01	24/12/21	30	
10	**Fennel**				
A	Farmers Training	01	22/10/21	20	
B	Field visit	03	During crop period	15	
C	Field Day	01	5/4/21	30	
D	Training for extension functionaries	01	29/10/21	21	
11	**Cumin+Ajwain**				
A	Farmers Training	01	2/11/21	25	
B	Field visit	04	During crop period	26	
D	Training for extension functionaries	01	29/10/21	21	
12	**Fennel**				
A	Farmers Training	01	26/10/2021	25	
B	Field visit	01	During Crop period	06	

C	Field Day	-	-	-	
D	Training for extension functionaries	01	10/12/2021	31	
13	**Kagzi line**				
A	Farmers Training	01	27/10/2021	21	
B	Field visit	01	During Crop period	03	
14	**Kagzi line**				
A	Farmers Training	03	23/05/21,27/09/21,28/10/21	67	
B	Field visit	03	During Crop period	27	
15	**Kitchen garden**				
A	Farmers Training	10	1/2/21,15/06/21,16/06/21,17/06/21,18/06/2021,05/07/21,28/07/201,30/07/2021,03/08/2021,29/09/21	237	
B	Field visit	24	During Crop period	175	
C	Field Day	02	06/01/2021,10/12/2021	69	
D	Training for extension functionaries	01	25/06/2021	52	
16	**Castor (spike by secaitier – Drudgery**				
A	Farmers Training	02	06/01/202128/09/2021,23/11/2021,24/11/2021,25/11/2021	75	
B	Field visit	04	During Crop period	23	
C	Field Day	01	30/03/2021	33	
17	**Vermi compost**				
A	Farmers Training	03	27/10/2021,28/12/2021,30/12/2021	53	
B	Field visit	04	During demonstration period	35	
18	**Bypass fat- Nutritional management**				
A	Farmers Training	01	214/02/21,24/08/21,29/10/21,29/12/21.	84	
B	Field visit	06	During demonstration period	74	
C	Field Day	01	16/12/21	48	
D	Training for extension functionaries	01	03/12/21	22	
19	**Bypass Protein- Nutritional management**				
A	Farmers Training	03	16/06/21,22/09/21,24/09/21.	61	
B	Field visit	05	During demonstration period	55	

C	Training for extension functionaries	01	03/12/21	22	
20	**Chelated Mineral mixture- Nutritional management**				
A	Farmers Training	03	05/08/21,29/09/21,06/12/21	121	
B	Field visit	06	During demonstration period	48	
C	Field Day	01	17/11/21	33	
D	Training for extension functionaries	01	03/12/21	22	
21	**Probiotics- Nutritional management**				
A	Farmers Training	03	23/02/21,24/05/21,15/06/21	66	
B	Field visit	06	During demonstration period	55	
C	Field Day	02	05/04/21,30/12/21	55	
D	Training for extension functionaries	01	03/12/21	22	

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)
						High	Low	Average										
Mustard																		
Mustard (2020-21)	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	GDM-4	50	20	25.2	17.4	20.8	17.2	20.93	17943	92031	74088	5.1	16438	76225	59787	4.6
Mustard (2021-22)	ICM	Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	GDM-4	25	10	Result Awaited												
Castor																		
Castor (2020-21)	ICM	Hybrid variety (GCH-7) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	GCH-7	20	50	38.6	29.4	33.4	28.1	18.86	34548	150327	115779	4.4	31097	126461	95364	4.1
Castor (2021-22)	ICM	Hybrid variety (GCH-7) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	GCH-7	10	25	Result Awaited												

* 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 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										
Blackgram	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	50	20	10.9	8.5	9.3	7.8	19.23	17300	41850	24550	2.42	16800	35100	18300	2.08
Chickpea-2020	ICM	Improved variety (GG-5) +Soil inoculation of *Trichoderma viridae*@ 2.5 kg/ha + RDF + Bio-fertilizer + Timely plant protection	GG-5	50	20	19.6	14.1	16.8	13.9	20.86	26700	85680	58980	3.21	24500	70890	46380	2.89
Chickpea-2021	ICM	Improved variety (GG-5) +Soil inoculation of *Trichoderma viridae*@ 2.5 kg/ha + RDF + Bio-fertilizer + Timely plant protection	GG-5	50	20	Result awaited												

* 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 crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change 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												
Cereals																			
Wheat Timely sown																			
Wheat (2020-2021)	Varietal Evaluation	Improved variety of wheat - GW-451	25	10	46.5	41.3	44.4	37.8	17.46	Effective tillers/plant- 4.36	Effective tillers/plant- 3.95	25880	87674	61673	3.37	23620	74631	50898	3.15
Wheat (2021-22)	Varietal Evaluation	Improved variety of wheat - GW-451	25	10	Result awaited														
Wheat (2021-22)	IPM	Seed treatment by Fipronil 5 SC@6ml/Kg seed along with soil application @ 2.5 lit/ ha with irrigation water	20	5	Result awaited														
Oilseed																			
Sun hemp-Castor	Soil Health Management	`Green manuring with sun hemp in castor crop	20	05	Result awaited														
Fiber crops																			
Cotton-2020	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	20	5	31.2	23.0	27.6	22.9	20.5	14.3	21.2	38450	152214	113764	3.95	36800	126294	89494	3.43
Cotton, 2020-21	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	30.5	23.7	27.40	22.80	20.4			38692	140014	101052	3.6	36600	116508	79908	3.2
Cotton, 2021-22	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	Result Awaited														

Mixed crop																			
Mustard + Lucerne (2020-2021)	Cropping Systems	Mix cropping (Mustard +Lucerne)	25	10	M-18.4 L-3.9	M-13.2 L-2.0	M-15.8 L-2.8	M-16.9	10.06			20256	134508	114252	6.7	15834	91238	75404	5.8
Chilli-2020	ICM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval)	20	5	**227**	**217**	**221.65**	**207.35**	**6.90**	**169.26**	**158.34**	**81000**	**243815**	**162815**	**3.01**	**80600**	**223085**	**147485**	**2.83**
Chilli-2021	ICM	Balance of major plant nutrient along with five foliar application of Arka Vegetable Special @3ml/lit of water (each spray on 25 days interval)	20	5	**Result Awaited**														
Fruit crops																			
Lime-2020	IDM	Gummosis Management	10	01	143.2	124.8	138.0	121.3	13.8	Gummosis (%) 10.3	Gummosis (%) 21.7	67780	276000	208220	4.07	66900	242600	175700	3.62
Lime-2021	IDM	Gummosis Management	10	01						Result awaited									
Lime-2020	INM	Foliar spray of Arka Citrus special @ 5 ml/ lit of water -First on onset of monsoon & next in every 25 days interval	20	2	151	138	142.70	129.95	9.81	1614	1470	60950	285400	224450	4.68	60550	259900	199350	4.29
Lime-2021	INM	Foliar spray of Arka Citrus special @ 5 ml/ lit of water -First on onset of monsoon & next in every 25 days interval	20	2	Result awaited														
Spices & condiments																			
Fennel-2020	IDM	Foliar spay of carbendazim 12% + Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS	25	10	17.5	13.2	15.4	12.9	19.4	Blight % 9.2	Blight % 17.3	29300	103950	74650	3.55	28900	87075	58175	3.01
Fennel-2021	IDM	Foliar spay of carbendazim 12% + Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS	25	10						Result awaited									
Fennel-2020	ICM	Improved variety of fennel – Gujarat Fennel – 12	46	10	16.30	13.50	14.90	12.82	16.22	36.60	31.39	30468	100604	70136	3.30	30086	86532	56446	2.88

Fennel-2021	ICM	Improved variety of fennel – Gujarat Fennel – 12	25	5	Results awaited														
Cumin-2020	IDM	Seed treatment by T. viridae @ 10gm/ Kg Seed along with soil treatment by T. viridae @ 2.5 Kg/ha	25	10	9.8	7.4	8.6	7.3	17.8	Wilt % 9.7	Wilt % 19.8	35840	98900	63060	2.75	33900	83950	50050	2.47
Cumin+Ajwain-2020	**ICM**	Intercropping cumin+ Ajwain (4:1)	25	5	9.6 Cumin+ 3.6 Ajwain	7.0 Cumin+ 2.2 Ajwain	8.2 Cumin+ 2.9 Ajwain	8.5	30.84			34244	124320	90076	3.6	33056	97704	64648	3.0
Cumin+Ajwain-2021	**ICM**	Intercropping cumin+Ajwain (4:1)	25	5	Result awaited														

* 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 Nutri cereals

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										
Sorghum																		

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters Milk Production		% change in major parameter	Other parameter Fat %		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)
Cattle																	
Crossbreed cow, 2020	Feed management	Bypass fat	10	10	10.5	9.4		4.7	3.9	11835	27610	15775	2.3	10485	20966	10481	2.0
Crossbreed cow, 2021	Feed management	Bypass fat	10	10	Results awaited												
Buffalo																	
Mehsani Buffalo, 2020	Feed management	Bypass Protein	10	10	7.88	7.24		7.94	7.52	11871	35425	23554	2.99	10521	30793	20272	2.93
Mehsani Buffalo, 2021	Feed management	Bypass Protein	10	10	Results awaited												
Mehsani Buffalo, 2020	Feed management	Chelated Mineral mixture	20	20	6.81	6.33		7.21	7.03	12299	27873	15575	2.27	11696	25292	13597	2.16
Mehsani Buffalo, 2021	Feed management	Chelated Mineral mixture	20	20	Results awaited												
Mehsani Buffalo, 2020	Feed management	Probiotics	20	20	7.18	6.77		7.44	7.29	12141	30270	18129	2.49	11507	27986	16480	2.43
Mehsani Buffalo, 2021	Feed management	Probiotics	20	20	Results awaited												

* 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																	
Composite fish culture																	
Feed Management																	

* 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																
Button Mushroom																
Apiculture																
Maize Sheller																
Value Addition																
Vermi Compost																
Sericulture																

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Vermi compost	Production of vermicompost	05	Production of vermi compost	Result awaited	

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total
Secaitier, 2020	castor	Harvesting of castor spike	20	01	laboure requirement /ha.	20.1 (160.8 hr.)	25.3 (202.4 hr)	20.55 %								
Secaitier, 2021	castor	Harvesting of castor spike	20	01	laboure requirement /ha.	Result awaited										

FLD on Other Enterprise: Kitchen Gardening

Nutrition garden components	Thematic area	Area (sq mt)	No. of Farmer	No. of Units	Yield (Kg)- supply of vegetables, fruits, etc from KG in the year		% change in yield	Household size (number)		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check*		Demo	Check	Gross Cost	Gross Return/ Savings *	Net Return	BCR (R/C)	Gross Cost	Gross Return/ Savings*	Net Return	BCR (R/C)
Kitchen garden, 2020	house food security	cultivation of seasonal vegetable in backyard for supplementing additional vegetable in daily diet	60	60	237Kg/ unit	456 kg requirement of a family(5 members)	51.97	-	-	-	9480/ unit	-	-	18240/ unit	-	-	-
Kitchen garden, 2021	house food security	cultivation of seasonal vegetable in backard for supplementing additional vegetable in daily diet	80	80	Result awaited												

***check maybe family adopting different Nutrition garden model/ no adoption of Nutrition garden model**
Savings from produce of Nutrition gardenused for home consumption

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)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Oilseed crop													
Castor (2020-21)	ICM	Hybrid variety (GCH-7) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	50	20	38.6	29.4	33.4	28.1	18.86	34548	150327	115779	4.4
Castor (2021-22)	ICM	Hybrid variety (GCH-7) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	25	10	Result Awaited								

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

3.4. Training Programmes(Online programmes if any should be included under On Campus category)

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										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	04	92	00	92	00	00	00	92	00	92
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl. specify)										
Total	**04**	**92**	**00**	**92**	**00**	**00**	**00**	**92**	**00**	**92**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	01	21	00	21	00	00	00	21	00	21
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)	**01**	**21**	**00**	**21**	**00**	**00**	**00**	**21**	**00**	**21**
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	01	20	00	20	00	00	00	20	00	20
Processing and value addition										
Others (pl specify)										
Total (f)	**01**	**20**	**00**	**20**	**00**	**00**	**00**	**20**	**00**	**20**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value										

addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	**02**	**41**	**00**	**41**	**00**	**00**	**00**	**41**	**00**	**41**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs	01	21	00	21	02	00	02	23	00	23
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**01**	**21**	**00**	**21**	**02**	**00**	**02**	**23**	**00**	**23**
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total										
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	01	-	20	20	-	-	-	-	20	20
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**01**	**-**	**20**	**20**	**-**	**-**	**-**	**-**	**20**	**20**
VI Agril. Engineering										
Farm Machinery 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										
Integrated Disease Management	03	71	00	71	06	00	06	77	00	77
Bio-control of pests and diseases	01	23	00	23	02	00	02	25	00	25
Production of bio control agents and bio pesticides										
Others (pl specify)										

Total	**4**	**94**	**0**	**94**	**8**	**0**	**8**	**102**	**0**	**102**
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										
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	**12**	**248**	**20**	**268**	**10**	**0**	**10**	**258**	**20**	**278**

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	01	26	00	26	00	00	00	26	00	26
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs	01	25	00	25	00	00	00	25	00	25
Organic farming in crop	01	20	00	20	00	00	00	20	00	20

production										
Total	**03**	**71**	**00**	**71**	**00**	**00**	**00**	**71**	**00**	**71**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	1	16	07	23	00	01	01	16	8	24
Off-season vegetables	2	41	00	41	00	00	00	41	00	41
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	**3**	**57**	**07**	**64**	**00**	**01**	**01**	**57**	**08**	**65**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	01	30	00	30	00	00	00	30	00	30
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)	**01**	**30**	**00**	**30**	**00**	**00**	**00**	**30**	**00**	**30**
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	01	25	00	25	00	00	00	25	00	25
Processing and value addition										
Others (pl specify)										
Total (e)	**01**	**25**	**00**	**25**	**00**	**00**	**00**	**25**	**00**	**25**
f) Spices										
Production and Management technology	01	23	00	23	02	00	02	25	00	25
Processing and value addition										
Others (pl specify)										
Total (f)	**01**	**23**	**00**	**23**	**02**	**00**	**02**	**25**	**00**	**25**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	**06**	**135**	**07**	**142**	**02**	**01**	**03**	**137**	**08**	**145**
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										
Others (pl specify)										
Total										
IV Livestock Production and										

Management										
Dairy Management	05	12	77	89	02	08	10	14	85	99
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	02	07	24	31	00	09	09	07	33	40
Disease Management	03	00	59	59	00	03	03	00	62	62
Feed & fodder technology	01	00	26	26	00	01	01	00	27	27
Production of quality animal products										
Others (pl specify)										
Total	**11**	**19**	**186**	**205**	**02**	**21**	**23**	**21**	**207**	**228**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	04	-	62	62	-	30	30	-	92	92
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	01	-	-	-	-	18	18	-	18	18
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	01	-	18	18	-	12	12	-	30	30
Women empowerment										
Location specific drudgery reduction technologies	01	-	16	16	-	07	07	-	23	23
Rural Crafts										
Women and child care	01	-	20	20	-	-	-	-	20	20
Others (pl specify)										
Total	**08**	**-**	**116**	**116**	**-**	**67**	**67**	**-**	**183**	**183**
VI Agril. Engineering										
Farm Machinery 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	02	39	00	39	05	00	05	44	00	44
Integrated Disease Management	06	141	00	141	09	00	09	150	00	150
Bio-control of pests and diseases	01	22	00	22	01	00	01	23	00	23
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**9**	**202**	**0**	**202**	**15**	**0**	**15**	**217**	**0**	**217**
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 SPNF	2	47	2	49	2	-	2	49	2	51
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	**2**	**47**	**2**	**49**	**2**	**-**	**2**	**49**	**2**	**51**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**39**	**474**	**311**	**785**	**21**	**89**	**110**	**495**	**400**	**895**

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										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	01	26	00	26	00	00	00	26	00	26
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	04	92	00	92	00	00	00	92	00	92
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs	01	25	00	25	00	00	00	25	00	25
Others (Organic farming in crop production)	01	20	00	20	00	00	00	20	00	20
Total	**07**	**163**	**00**	**163**	**00**	**00**	**00**	**163**	**00**	**163**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	01	16	07	23	00	01	01	16	08	24
Off-season vegetables	02	41	00	41	00	00	00	41	00	41
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	02	51	00	51	00	00	00	51	00	51
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)										
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	01	25	00	25	00	00	00	25	00	25
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	02	43	00	43	02	00	02	45	00	45
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)										
Grand Total (a to g)	**08**	**176**	**07**	**183**	**02**	**01**	**03**	**178**	**08**	**186**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs	01	21	00	21	02	00	02	23	00	23
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**01**	**21**	**00**	**21**	**02**	**00**	**02**	**23**	**00**	**23**
IV Livestock Production and Management										
Dairy Management	05	12	77	89	02	08	10	14	85	99
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	02	07	24	31	00	09	09	07	33	40
Disease Management	03	00	59	59	00	03	03	00	62	62
Feed & fodder technology	01	00	26	26	00	01	01	00	27	27
Production of quality animal products										
Others (pl specify)										
Total	**11**	**19**	**186**	**205**	**02**	**21**	**23**	**21**	**207**	**228**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	04	00	62	62	00	30	30	00	92	92
Design and development of low/minimum cost diet										
Designing and										

development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	01	00	00	00	00	18	18	00	18	18
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	02	00	38	38	00	12	12	00	50	50
Women empowerment										
Location specific drudgery reduction technologies	01	00	16	16	00	07	07	00	23	23
Rural Crafts										
Women and child care	01	00	20	20	00	00	00	00	20	20
Others (pl specify)										
Total	**09**	**00**	**136**	**136**	**00**	**67**	**67**	**00**	**203**	**203**
VI Agril. Engineering										
Farm Machinery 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	02	39	00	39	05	00	05	44	00	44
Integrated Disease Management	09	212	00	212	15	00	15	227	00	227
Bio-control of pests and diseases	02	45	00	45	03	00	03	48	00	48
Production of bio control agents and bio pesticides										
Others (pl specify)										

Total	**13**	**296**	**0**	**296**	**23**	**0**	**23**	**319**	**0**	**319**
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 - SPNF	2	47	2	49	2	-	2	49	2	51
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	**2**	**47**	**2**	**49**	**2**	**-**	**2**	**49**	**2**	**51**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**51**	**722**	**331**	**1053**	**31**	**89**	**120**	**753**	**420**	**1173**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture	01	-	16	16	-	13	13	-	29	29
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and										

implements										
Value addition	01	-	15	15	-	-	-	-	15	15
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**2**		**31**	**31**		**13**	**13**		**44**	**44**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										

Repair and maintenance of farm machinery and implements										
Value addition	01	-	48	48	-	04	04	-	52	52
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	01	-	20	20	-	02	02	-	22	22
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**2**		**68**	**68**	**-**	**06**	**06**	**-**	**74**	**74**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture	01	00	16	16	00	13	13	00	29	29
Mushroom Production										

Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	02	00	63	63	00	04	04	00	67	67
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	01	00	20	20	00	02	02	00	22	22
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**04**	**00**	**99**	**99**	**00**	**19**	**19**	**00**	**118**	**118**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	**01**	**24**	**07**	**31**	**00**	**00**	**00**	**24**	**07**	**31**
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**	**20**	**00**	**20**	**02**	**00**	**02**	**22**	**00**	**22**
Household food security										
Any other (pl.specify)(spice crop) 1	**01**	**17**	**00**	**17**	**04**	**00**	**04**	**21**	**00**	**21**
Any other – PRA techniques for training need assessment										
TOTAL	**3**	**61**	**7**	**68**	**6**	**0**	**6**	**67**	**7**	**74**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			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										
Household food security										
Any other (pl.specify)(spice crop) 1										
TOTAL										

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	**01**	**24**	**07**	**31**	**00**	**00**	**00**	**24**	**07**	**31**
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**	**20**	**00**	**20**	**02**	**00**	**02**	**22**	**00**	**22**
Household food security										
Any other (pl.specify)	**01**	**17**	**00**	**17**	**04**	**00**	**04**	**21**	**00**	**21**
TOTAL	**3**	**61**	**7**	**68**	**6**	**0**	**6**	**67**	**7**	**74**

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	01	22	0	22	4	00	04	26	00	26
Commercial production of vegetables	01	92	16	108	8	2	10	100	18	118
IPM technology	01	202	8	210	26	4	30	228	12	240
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management	03	214	00	214	35	00	35	249	00	249
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management	01	38	00	38	02	00	02	40	00	40
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										
Other (value addition)	03	00	100	100	00	14	14	00	114	114
Total										
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL	**10**	**568**	**124**	**692**	**75**	**20**	**95**	**643**	**144**	**787**

Details of vocational training programmes carried out by KVKs for rural youth(4 or more days)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (Value addition	**01**	**00**	**20**	**20**	**00**	**00**	**00**	**00**	**20**	**20**
Total	**01**	**00**	**20**	**20**	**00**	**00**	**00**	**00**	**20**	**20**
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										

Repair and maintenance of farm machinery										
and implements										
Rural Crafts	**01**	**-**	**19**	**19**	**-**	**-**	**-**	**-**	**19**	**19**
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.	**01**	**-**	**31**	**31**	**-**	**04**	**04**	**-**	**35**	**35**
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total	**02**	**00**	**50**	**50**	**00**	**04**	**04**	**00**	**54**	**54**
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	**03**	**00**	**70**	**70**	**00**	**04**	**04**	**00**	**74**	**74**

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)				
Diagnostic visits				
Field Day	14	499	08	507
Group discussions	14	195	02	197
KisanGhosthi	03	360	12	372
Film Show	10	232	02	234
Self -help groups	00	00	00	.00
KisanMela				
Exhibition	01	96	08	104
Scientists' visit to farmers field	111	891	11	902
Plant/animal health camps	01	Cattle -63		Cattle -63
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	02	46	00	46
Farmers' seminar/workshop	03	286	11	297
Method Demonstrations	07	94	00	94
Celebration of important days Special day celebration	09	995	07	1002
Others PM Live telecast programme	05	1055	-	1055
Swachchhata Abhiyan	15	680	12	692
Total	**195**	**5429**	**73**	**5502**

Note- Advisory services includes social media, website, telephonic calls etc.

Details of other extension programmes:

Particulars	Number
Electronic Media (CD./DVD)	02
Extension Literature	02
Newspaper coverage	06
Popular articles	10
Animal health camps (Number of animals treated)	63
Social Media (No. of platforms Used)	04
Others (pl. specify)	
Total	**87**

3.6 Online activities during year 2021

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webex etc.)	Title of Program	No. of Programmes	No. of Participants/ Views
A	**Farmers training**				
1	Crop production	Audio conference	Soil health management and water conservation	01	80
2		Google meet	Importance and method of soil and water sampling	01	21
3		Google meet	Production technology of cotton	01	23
4		Google meet	Post harvest management in field crops	01	17
5		Audio conference	Production technology of castor	01	75
	Total			**05**	**216**
4	Plant protection	Google meet	Plant protection measures in summer vegetable	01	18
5			Soil health management &water conservation	01	80
6			Biological control measures of pest & disease in field crop	01	23
7			Preparation & use bio pesticide	01	21
8		Audio conference	Plant protection measures of pink boll worm in Bt cotton	01	70
9		Audio conf.	IPM in Chickpea	01	72
	Total			**05**	**212**
10	Horticulture	Google meet	Organic farming of cowpea &cluster bean	01	22
11		Audio conf.	Importance &use of MIS in Horticultural crop	01	100
12		Google meet	Production technology of kagzi	01	16

			lime		
13		Audio conf.	Vegetable crop production technology	01	80
	Total			**04**	**218**
14	Home science	Google meet	Management of store grain pest	01	22
15		Google meet	Importance of drum stick in human diet	01	28
16		Google meet	Use of sprouted pulse in preparation of low cost nutrient diet	01	24
17		Google meet	Preparation and preservation of mango product	01	22
18		Google meet	Importance and technique of kitchen garden	01	60
	Total			**05**	**156**
19	Animal Science	Google meet	Prevention and control of internal and external parasite in dairy animal	01	24
20		Google meet	Importance of deworming and vaccination	01	26
21		Audio Conferencing	Major diseases and it's treatment in dairy animal	01	100
22		Audio Conferencing	First aid treatment in dairy animal	01	81
	Total			**04**	**231**
B	**Farmers scientist's interaction programme**				
1					
	Total				
C	**Farmers seminars**				
1	Home science	Google meet	Poshan mah-kitchen garden -Patan taluka	01	28
2	Home science	Google meet	Poshan mah-kitchen Poshan mah-garden-Chanasma taluka	01	25
3	Home science	Google meet	Poshan mah-kitchen garden- Harij Taluka	01	35
4	Home science	Google meet	Poshan mah-kitchen garden- Santalpur Taluka	01	38
5	Home science	Google meet	Poshan mah-kitchen garden- Siddhpur Taluka	01	62
6	Home science	Google meet	Poshan mah-kitchen garden- Radhanpur Taluka	01	50
	Total			**06**	**238**
7	Animal Science	Facebook live	Ethnovet Practices for retention of placenta.	01	2473
8		Facebook live	Infertility problems in dairy animals and it's ethnovet treatment	01	3042
9		Facebook live &Youtube live	Urea treatment on wheat straw	02	1571

10		Facebook live &Youtube live	Importance of chaff cutter for feed management in milch animal.	02	26000
11		Youtube live	Care and management of dairy animals after pasturation	01	788
12		Facebook live	Round the year green fodder production-super bullet napier grass	01	5000
13		Audio Conferencing & You tube live	Azolla Production technology	02	4284
	Total			**10**	**43158**
5.	Agronomy	Audio Conferencing &YouTube live	Vermi compost Production technology	02	4890
	Total			**02**	**4890**
D	**Expert lectures**				
1					
	Total				
E	**Any other (Pl. specify) - Training to extension personnel**				
1	Home science	Google meet	Health &nutrition management of lactating woman &children	01	32 (Aganwadi worker)
2	Home science	Google meet	Importance&technique of kitchen garden	01	52 (Aganwadi worker)
3	Extension	Google meet	Importance &Formation of FPO	01	24 (VLW)
4	Crop production	Google meet	Production technology of castor ,cotton&Black gram	01	32 (VLW & ATMA)
5	Extension	Google meet	Importancescope &method of organic farming	01	70 (VLW)
6	Plant protection	Googel meet	IPDM in kharif crops-castor,cotton &black gram	01	34 (BTM,ATM,VLW)
	Total			**06**	**244**
	Grand Total (A+B+C+D+E)			**47**	**49563**

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

Production of seeds by the KVKs

Name of the input	Variety / Breed / species, etc	Production	Supplied to No. of farmers	Value (Rs)
Seeds	Mustard- GDM-4	102 Kg	26	7520/-
	Mustard- GDM-4	574 Kg	-	Stock
	Wheat – GW-451	3000 Kg	26	79,510/-
	Wheat – GW-451	5457 Kg	-	Stock
	Wheat – GW-513	266 Kg	-	Stock

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
Commercial	Tobacco	DCT-3	-	12000	3050	5
	Cabbage	-	Hybrid	1600	2000	80
	Cauliflower	-	Hybrid	1600	2000	80
	Tomato	Abhinav	Hybrid	1600	3360	80
	Brinjal	Neelesh	Hybrid	1600	1760	80
Vegetable seedlings	Chilli	VNR-108	Hybrid	1600	2240	80
	Lime	Kagzi lime	-	678	10170	115
Fruits	Papaya	Madhubindu	-	880	4400	81
Ornamental plants	Rose	Desi	-	20	200	3
Total				**21578**	**29180**	**604**

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg/Lit	Value (Rs.)	No. of Farmers
Bio Fertilisers	Vermi Compost	6250 Kg	31250	6
Bio-pesticide	Neemastra	100 Lit	-	Used at KVK
Bio Agents	Waste decomposer	75 Liter	-	Used at KVK
Others	Azolla	450 Kg	-	Used in Gaushala
Total		**6700 Kg & 175 Lit**	**31250**	

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				

Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Indian carp				
Exotic carp				
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	Cluster Font Line Demonstartion : An effective technology dessimination approach for enhancing productivity & profitability of black gram (*Vigna mungo*)	Kumar Upesh, Patel G A, Chaudhari R P, Darji S S& Raghav R S(2021). *Legume Research Journal* Aceptance No- ARCC/LR-4450, Date- 04-03-2021	
Technical reports	Enhancement of productivity in Castor Crop in District- Patan	Dr Upesh Kumar &Mr R P Chaudhari	05
	Enhancement of productivity in Mustard Crop in District- Patan	Dr Upesh Kumar &Mr R P Chaudhari	05
	Enhancement of productivity in Black Gram Crop in District- Patan	Dr Upesh Kumar &Mr G A Patel	05
	Enhancement of productivity in Chickpea Crop in District- Patan	Dr Upesh Kumar &Mr G A Patel	05
News letters			
Technical bulletins			
Popular articles	Scientific production technology of lime. **Krushi Prabhat**	Mr S S Darji	-
	Nursery management in lime- **Krushi Prabhat**	Mr S S Darji	-
	Symptoms & Management of viral disease in animals - **Krushi Prabhat**	Dr S J Patel	-
	Care of milch animal during rainy season- **Krushi Prabhat**	Dr S J Patel	-
	Soil health management- **Krushi Prabhat**	Mr R P Chudhari	-
	Soil health management- **Krushi Prabhat**	Mr R P Chudhari	-
	Income generation through seed production & marketing- **Agriculture & Food- e Newsletter**	Dr Upesh Kumar	-
	Scientific production technology of pointed gourd- **Krushi Govidya**	Mr S S Darji &Mr G A Patel	-
	Vermi compost as a organic manur- **Gaudhuli**	Mr R P Chudhari, Dr Upesh Kumar & Dr S J Patel	-
Extension literature	Improved production technology of castor	Dr Upesh Kumar, Mr R P Chaudhari, Mr S S Darji &Mr G A Patel	1000
	Kitchen garden	Dr Upesh Kumar &Smt H M Patel	1000
Others (Pl. specify)			
TOTAL			

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	CD	Kitchen gardening	05
2	CD	Use of secaiter for harvesting of castor spike	05

D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel	KVK Patan	04
2	Facebook page/ Account	KVK Patan	05
3	Digital farm school	KVK Patan	01
4	WhatsApp groups	KVK, Patan; Crop production, Animal Science, Horticulture, Plant Protection & Home Science	06
5	Twitter Account	@kvkpatan	
6	Any other (Pl. Specify)- Audio conference	KVK Patan	10
7	Any other (Pl. Specify)- Google meet	KVK Patan	28

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).

SUCCESS STORY- 01

Enhancing Net farm profitability through production of vegetable crops

Name of farmer & address : Rajput Gulab Sinh Pratap Ji
Village : Mamwada, Ta.Siddhpur, Dist.: Patan
Mobile No.: 9727982315

Area under vegetable crops : Tomato- 0.25 ha
Cauliflower- 0.75 ha

Season & Year : Kharif, 2021

Background information about farmer field :

Details of technology demonstrated :

- Hybrid variety of Tomato (Rishika- Resistant against Yellow leaf curl Virus) & Cauliflower (Suhasinee)
- Adoption of MIS system
- INM along with use of nutri sole fertilizer
- Timely application of macro as well as micro nutrient
- Seed treatment and soil inoculation of Bio-fertilizer viz. NPK, Liquid consortia and Bio-fungicide viz. *T viridae*&*P. florescence*
- Staging of tomato for support
- Timely application of IPM module for management of pest

Institutional involvement :

- Krishi Vigyan Kendra
- Department of Horticulture, Patan
- Department of Agriculture, Patan

Success point :

- Seed treatment and soil inoculation by liquid bio-fertilizer enhance the growth and bio-fungicide is reducing the disease incidence.
- Low incidence of virus disease is observe
- First picking of tomato is started on 70-75 DAT & 150-170 fruits/ plant are found in tomato
- Average fruit weight of tomato is- 90-100 gm & cauliflower are compact, self blanched resulted white colour of flower

Farmer feedback :

- Excellent growth of tomato as well as cauliflower
- Seed and soil inoculation by Bio-fungicide & bio fertilizer is enhance the germination, growth of plant & also reduce the incidence.
- Very low infestation of insect pest and disease incidence due to adoption of IPM modules.
- Good demand of vegetable in surrounding village & all production sale are locally.

Performance of technology:-

Used Practice	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Tomato	410.00	3,30,000/-	12,30,000/-	9,00,000/-	3.72
Cauliflower	113.00	58,600/-	2,26,000/-	1,67,400/-	3.85

PHOTOGRAPHS

SUCCESS STORY- 02

Enhancing milk productivity throgh adoption of latest technology

Name of farmer & address : Rajput ChamanjiPopatji
Village : Mamwada, Ta.Siddhpur, Dist.: Patan
Mobile No.: 9978307386

No of Animal : HF Cow- 15 No, Calf- 07 No,
Buffalo- 03, HF Bull- 01 No

Background information about farmer field :

Details of technology demonstrated :

- Improved breed
- Balance feeding
- Use of chelated mineral mixture & Trace mineral bolus
- Deworming
- Timely vaccination
- Round the year green fodder production

Institutional involvement :

- Krishi Vigyan Kendra
- Department of Animal Husbendary, Patan
- Dudhsagar Dairy
- Village Panchayat

Success point :

- Work on Breed improvement through natural service of HF Bull
- Highest milk production in last three year in village level
- Well known farmers under dairy sector
- Always adopt the latest technology of animal sector & also motivate to other farmers for adopting them.
- Average milk production is 52000 lit/ year

Farmer feedback :

- Use of super bullet Napier grass under round the year milk production
- Use of chaff cutter for better use of fodder
- Use of milking machine for contamination free milk production
- Use of latest technology like- by pass fat, by pass protean, chelated mineral mixture etc

Performance of technology:-

Total milk production in a year	52,000 Liter
Average milk selling price	Rs 28.85/ Liter
Total expenditure in a year	Rs 4,85,000/-
Grass income	Res 15,00,200/-
Net Income	Rs 10,15,200/-
B:C Ratio	3.09

SUCCESS STORY- 03

Enhancing black gram productivity through adoption of improved technology

Name of farmer & address : ButiaVashrambhai S/O Batia Hirabhai,
Village : Datisana, Ta. Shankheshawer,
Di. Patan (Gujarat)
Mobile No. 9913202731

Crop and Variety : Black gram & GU-1

Season & Year : Pulses, 2021

Background information about farmer field :

Details of technology demonstrated :

- Improved variety : GU-1
- Seed treatment by Carbendazim 12% + Mancozeb 63% @ 3g./ kg. seed
- Seed treatment & Soil inoculation of N.P. & K. liquid bio-fertilizer
- RDF as per STV
- Timely application of IWM & IPM

Institutional involvement :

- Krishi Vigyan Kendra, Patan
- ATMA, Patan
- Agriculture Department, Patan

Activities taken :

- Two times farmers meeting were conducted to analyze the technology gap, to get information on soil, water and Plant protection issues.
- Farmers training were conducted before conducting demonstration to aware the package of practices of black gram.
- Field day was conducted on farmer's field just before harvesting of Black gram and show the results of technology
- Regular field visit to collect feedback about technology

Success point :

- **GU-1** – High yielding variety of blackgram. It is mature in 78 Days & seed colour is greenish black in colour recommended by **SDAU, Dantiwada** for Gujarat.
- Seed treatment by fungicide to reduce the fungal incidence at early stage.
- Soil inoculation by liquid bio fertilizer (N, P & K) for better growth of plants resulted enhance the productivity.
- Use of Pendimethalin as pre-emergence for management of weeds. It saved Rs. 1950/ha weeding cost as compare to local check plot.
- Use of IPM module (Botanical & need based application of chemical pesticide) for proper management of insect- pest in black gram.

Farmer feedback :

- Excellent growth of improved variety of black gram (GU-1)
- Very less incidence of fungal diseases due to seed treatment of fungicide.
- Excellent growth of plant due to use of liquid bio fertilizer (N,P,K) as well as RDF as per STV
- Low infestation of sucking as well as spodoptera due to timely use of IPM module
- Ultimately 39.7 per cent enhance the productivity due to adoption of improved technology.

Yield (q/ha) :

Demonstration	9.3
Potential yield of variety/technology	12.0
District average	5.50
State average	6.37

Performance of technologyVis- local check:-

Practice used	Yield (qt./ha.)	Gross cost (Rs./ha.)	Gross return (Rs./ha.)	Net return (Rs./ha.)	B.C. Ratio
Local check	7.8	16800	35100	18300	2.08
Demonstration	10.9	17300	49050	31750	2.83

PHOTOGRAPHS

Enhancing income through preparation of Doormat and Rope swing

1	Name of Rural youth women	:	Patel SmitabenKetanbhai
2	Village	:	Chandravati
3	Taluka	:	Sidhpur
4	District	:	Patan
5	Mobile No.	:	9924610354
6	Age	:	33
7	Education	:	BA

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 programmeSmt StPatel SmitabenKetanbhai Rural women has been started to prepare and sale the rural craft articles. Now a day they are earning from the self prepared articles.

Economic Impact for one year income :

Items	No. of articles	Expenditure of article (Rs.)	Price per article (Rs.)	Income of articles (Rs.)	Net profit of articles (Rs.)
Rope swing	45	72,000/-	3,350/-	1,50,750/-	78,750/-
Baby cradle	15	15,000/-	2,000/-	30,000/-	15,000/-
Small swing	18	18,000/-	2000/-	36,000/-	18,000/-
Designer swing	05	20,000/-	8000/-	40,000/-	20,000/-
Total		**1,25,000**	**-**	**2,56,750/-**	**1,31,750/-**

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

Digital Farm School:- Krishi Vigyan Kendra & Reliance Foundation, Patan were jointly conducted digital farm school for dissemination of production technology of cumin, which is selected under One District One Product. In this programme, we selected three group- One control group, second Kisan mobile sandesh group & third group is digital farm school group. In each group have 60 No of farmers.Under this programme, first we are conducted base line survey & plan the technology according to crop stage. After completion of prgramme, we are find out the impact of the programme.

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)

B. Rural Youth

a)

C. In-service personnel

a)

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 technologie

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
SardarkrushinagarDantiwadaAgril. 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	-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
Forest Department, Patan	Training &Gosthi regarding awareness about agro forestry as well as medical plant cultivation
SSNL	Demonstration & Training for dissemination of latest technology
Reliance Foundation	Quick delivery of message in large scale through Kisan Mobile sandesh Technical backup through training & demonstration for dissemination of latest technology
Dudhsagar Dairy, Mehsana	Training regarding awareness among the farming community about feed management in dairy animals

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.)
Profitable Dairy Farming and Livestock Management	November, 2021 to March, 2022	ICAR- ATARI, Pune	2,00,000/-
Microbial based Agricultural Waste Management through using Vermi Compost	March, 2022	ICAR- ATARI, Pune	11,390/-

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?

KVK actively participate for preparation of SREP

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	04		
		AGB Meeting	02		
		Meeting for ATMA Award	01		
		Meeting Selection of best farmers	01		
		SAC Meeting	-	01	
		Meeting for Kisan Mela	01		
02	**Training programmes**	**Awareness programme like-** Low cost technology for higher production in major filed crops, Fruit & vegetable preservation, Crop production, Animal Science & Horticulture etc	19		
05	**Extension Programmes**				
	Technology Week		**01**		
	KisanMela	KisanMela	**1**		
	Kisan Gosthi	Kisan Gosthi	**15**		

D. Give details of programmes implemented under National Horticultural Mission - NA

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 - NA

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 - NA

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

G. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana) - NA

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

H. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Training &Gosthi	Finalization of technology & provide Expert support to line department	-	-	

I. Details of linkage with SMAF (Sub-mission on Agroforestry)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Training &Gosthi	Provide Expert support to line department	-	-	-

7. Convergence with other agencies and departments:

Date	Venue	Participants			Convergence with	Remark
		SC/ST	Others	Total		
10-03-2021	Dethli	26	88	114	Forest Deptt, Patan	Agro forestry
15-03-2021	Patan	12	108	120	BAIF, Patan	ICM & IPM in BT Cotton
13-05-2021	KVK	04	62	66	Forest Department, Patan	Agro forestry
22-09-2021	Sipur	04	46	50	Reliance Foundation & SSNL, Patan	IPDM in rabi crops
14-10-2021	Patan	09	141	150	Forest Deptt, Patan	Agro forestry
28/09/2021	Dev	11	94	105	ATMA, Patan	PM live telecast
28-10-2021	Radhanpur	15	45	60	Reliance Foundation	Importance of SHG
17-11-2021	Malusan	25	120	145	Forest Deptt, Patan	Agro forestry
22-11-2021	Agichana	08	62	70	Reliance Foundation	Spices crop production technology
28-12-2021	Sami	24	131	156	Reliance Foundation	Latest technology in Agriculture

8. Innovative Farmers Meet

Sl.No.	Particulars	Details
1	Have you conducted Farm Innovators meet in your district?	Yes/ No
	Brief report in this regard- FPO meeting regardiningself seed production & adoption of organic farming	

9. Farmers Field School (FFS) - NA

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Expenditure	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
MrR.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 during2021:Yes/No, If Yes

Period of observing Technology Week : From 22-12-2021 to 28-12-2021
Online / Offline : Online & Off line both
Total number of farmers visited :
Total number of agencies involved : 06 No- Krishi Vigyan Kendra, ATMA, Agriculture Department, Village Panchayat, Reliance Foundation, BAIF
Number of demonstrations visited by the farmers within KVK campus : 04 No

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	03	351	IPM, SPNF, Improved technology in agriculture
Training	02	65	Production technology of potato, Improved Dairy
Field Day	01	30	INM in chilli
Group meeting	01	14	Production technology of Vermi compost
Farm Visit	05	39	Exposure among the farming community regarding demonstrated latest technology
You tube live programme	01	161	SPNF

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 (Seed distribution/sold by KVK)

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	82	-	-
Fennel-GF-12	25	58	-	-
Wheat-GW-451	50	63	-	-
Cumin-GC-4	25	74	-	-
Ajwain- GA-2	25	56	-	-
Wilt disease management in Cumin through us of Bio-fungicide (Trichoderma spp.)	25	32	-	-
Management of pink boll worm through IPM	25	40	-	-
Application of sulpher in mustard	25	84	-	-
Management of wilt in fennel	25	80	-	-

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

B. Cases of large scale adoption
(Please furnish detailed information for each case)

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

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2021	3	35352	
Feb 2021	2	35352	
March 2021	2	35352	
April 2021	3	35352	
May 2021	4	35352	
Jun 2021	6	35352	
Jul 2021	-	35352	
Aug 2021	4	35352	
Sept 2021	4	35352	
Oct 2021	4	35352	
Nov.2021	4	35352	
Dec.2021	3	35352	

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only	29	07	-	01	02	-	39
	Voice only							
	Voice & Text both							
	Total Messages	**29**	**07**	**-**	**01**	**02**	**-**	**39**
	Total farmers Benefitted	**35352**	**35352**	**-**	**35352**	**35352**	**-**	**35352**

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

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	2021	0.4	Lime- Kagaji Papaya seedling Vegetable seedling Rose – Desi Tobacco Seedling	Seedling Seedling Sapling Seedling Seedling	678 8000 880 20 12000	10000	10170 4400 11360 200 3050	Sale to farmers & seedling of vegetable grow & provide to farming community under FLD
2	Vermi compost	2021		*Iceniafoetida*	Compost	6250	9000	31250	Sale to Farmers
3	Azolla	2021	02 No of Pit	*A pinnata*	Azolla Seed culture	450 Kg	-	-	Used at KVK
4	Bio decomposer	2021	-	*Waste decomposed*	-	350 Lit	-	-	Used at KVK
5	Bio pesticide	2021	-	Neemastra	-	100 Lit	-	-	Used at KVK

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	15to16/11/2020	22to24/03/2021	1.0	G-W-451	Seed	4000kg	12809	106013	
Wheat	24/11/021	-	0.5	G-W-451 (Breeder)	Seed	Crop is standing position			
Wheat	24/11/2021	-	0.5	G-W-451	Commercial	Crop is standing position			
Wheat	26/11/2021	-	0.15	G-W513	Seed	Crop is standing position			
S.Bajra	02to03/03/2021	24to 29/05/2021	1.0	Hybrid nandi 52	Commercial	4080	8288	59181	
Pulses									
Black Gram	14/07/2020	20/10/2020	0.60	G,U 1	Commercal	444.5	1364	30469	
Black gram	22/07/2021	21to23/10/2021	0.60	GU 1	Commercial	413	2214	14440	
Sunhemp	20/07/2020	26/12/2020	0.20	Local	Seed	128	828	7680	
Sunhemp	19/07/2021	-	0.20	Local	Seed	Crop is standing position			
Sunhemp	19/07/2021	25/09/2021	1.50	Local	Green Manuring	-	5160	-	
Oilseeds									
Castor (Rainfed)	18/07/2020	21 to 30/01/2021	1.0	Ganesh star	Commercial	357	4667	17866	
Castor (irrigated)	05 to 08/09/2020	15 to 30/03/2021	3.75	GCH7, GCH-8, Avani 11	Commercial	7121.5	31976	351640	
Castor (irrigated)	04 to 07/08/2021	-	2.5	GCH7	Commercial	Crop is standing position			
Mustard	15/10/2020	27/02/2021	0.20	GDM-4	Seed	136 kg	1168	10026	
Mustard	25/102021	-	0.5	GDM-4 (Breeder)	Seed	Crop is standing position			
Mustard	18 to 27/10/2021	-	1.0	Hybrid (Hira & Pioneer)	Commercial	Crop is standing position			
Fibers									
Cotton	8 to 9/06/2020	19/10/2020 to 15/11/2020	1.0	Bt BGII	Commercial	2007.6 kg	10987	106870	
Cotton	14 to 24/06/2021	18/10/2021 to 20/11/2021	1.0	Bt BGII	Commercial	1613kg	13291	134613	
Spices & Plantation crops									
Floriculture									
Fruits									
Mango	June1994	May,2021	0.5	Kesar	Commercial	-	-	50000	
Sapota	June1994	March,2021	0.5	Kali patti	Commercial	-	-		
Mango	June1994	May,2022	0.5	Kesar	Commercial	-	-	40000	
Sapota	June1994	March,2022	0.5	Kali patti	Commercial	-	-		
Vegetables									
Others (specify)									

Tobacco	22 to 30/11/2020	19 to 21/03/2021	1.5	GCT-3 & DCT-4	Commercial	2681 kg	18116	215130	
Tobacco	01/12/2021	-	1.0	GCT-3	Commercial				
Guar	03to10/08/2021	15to20/11/2021	1.0	GG1	Commercial	732	4601	44317	

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

Sl. No.	Bio Products	Name of the Product	Qty (kg/lit)	Amount (Rs.)		Remarks
				Cost of inputs	Gross income	
1	Bio-Fertilizers	Vermi compost	6250 Kg	9000	31250	Sale to farmers
2	Bio-Agents	Waste decomposer	350 Liter	-	-	Used at KVK
		Azolla	450 Kg	-	-	Used in Gaushala
3	Bio-pesticide	Neemastra	100 Lit	-		Used at KVK

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)
January 2021	05	15	
February 2021	-	-	
March 2021	-	-	
April 2021	-	-	
May 2021	-	-	
June 2021	-	-	
July 2021	-	-	
August 2021	-	-	
September 2021	-	-	
October 2021	-	-	
November 2021	-	-	
December 2021	-	-	

F. Database management - NA

S. No	Database target	Database created

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

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.)		

H. Performance of Nutritional Garden at KVK farm

If Nutritional Garden developed at KVK farm/Village Level?Yes

If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
600sq feet	Vegetable crops	Brinjal,Tomato, chilli, cabbage,cauliflower,capsicum, leady finger, bitter gourd,potato, spinach,fenugreek, coriander,radish,onion, Garlic	52

Nutritional Garden developed at Village Level (Area under nutritional garden)

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
04	Vegetable crops	brinjal, chilli, tomato. leady finger, cowpea, cluster bean, sponge gourd bottle gourd, Bitter gourd, cucumber,radish,fenugreek,coriander,spinach,Guwar,cauliflower,cabbage	80
	Fruit crops	Papaya-10,lemon-2,Drumstick-2	

H. Details of Skill Development Trainings organized

S.No.	Name of KVKs/SAUs/ICAR Institutes	Name of QP/Job role	Duration (hrs)	No. of participants					
				SCs/STs		Others		Total	
				Male	Female	Male	Female	Male	Female
1	Patan	Income generation through milk & their product	18th to 23rd Jan., 2021	00	00	00	20	00	20
2	Patan	Nursery raising of horticultural crops	27th July to 03rd August, 2021	00	04	00	31	00	35
3	Patan	Article preparation for decoration in home	18 to 22-10-2021	00	00	00	19	00	19
4	Patan	Scientific management of dairy farming	22 to 24-12-2021	06	02	28	04	34	06

17.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 2021-22 (Rs. in lakh)(Till Dec, 2021)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	180	149.96	148.27
2	**Traveling allowances**	0.50		0.02
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			0.46
B	POL, repair of vehicles, tractor and Equipments	3.50		0.86
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			0.47
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			0.051
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			2.25
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			0.52
G	Training of extension functionaries			0.01
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library	5.00		
TOTAL (A)		**189.00**	**155.97**	**152.90**
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 Four 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 2018 to March 2019	395201	1190694	569709	1016186
April 2019 to March 2020	1016186	761813	627345	1150654
April 2020 to March2021	1150654	833659	470791	1513516
April 2021 to December, 2021	1513516	839033	533398	1819151

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/ Offline)	Dates
MrH.P.Patel MrS.S.Darji	Sci. Agri Extension Sci. Horticulture	ZREAC Meeting	SDAU,S.K.Nagar	online	22/01/2021
MrR.P.Chaudhari	Sci. Agronomy	Castor crop production technology	SDAU,S.K.Nagar	Offline	19to 20-01-2021
MrR.P.Chaudhari	Sci. Agronomy	Mustard crop production techology	SDAU,S.K.Nagar	Offline	21to22/01/2021
MrG.A.Patel MrS.S.Darji MrR.P.Chaudhari	Sci. Pl.Protection Sci. Horticulture Sci. Agronomy	Workshoop on production technology of wheat &Review workshop of KVK	SDAU,S.K.Nagar	Offline	03/02/2021
Dr.Upesh Kumar& All Scientist	Senior Scientist and Head	Pre Zonal action plan workshoop	SDAU S.K.Nagar	Online	15/02/2021
Dr.Upesh Kumar& All Scientist	Senior Scientist and Head	Zonal Action PlaWorkshoop	ICAR-ATARI,Zone-Vlll,Pune	Online	18/02/2021
MrG.A.Patel MrS.S.Darji	Sci. Pl.Protection Sci. Horticulture	Shakbhajipakoma Dharu Uchher	SDAU S.K.Nagae	Online	15/04/2021
Dr.Upesh Kumar& All Scientist	Senior Scientist and Head	Bhumi Suposhan	ATARI Pune	Online	15/04/2021

G.A.Patel S.S.Darji	Sci. Pl.Protection Sci. Horticulture	Fruit FlY surveillance &management	NIPHM,Hyderabad	Online	18to23/04/2021
Dr.Upesh Kumar& All Scientist	Senior Scientist and Head	Pre Zonal annual progress report workshoop	SDAU S.K .Nagar	Online	26/04/2021
MrR.P.Chaudhari	Sci. Agronomy	Nation Webinar on mass awareness compaign on organic farming	MPUAT Udaipur	Online	14/05/2021
Dr.Upesh Kumar& All Staff	Senior Scientist and Head	PM Kisan Samman nidhi yojana	PM live telecast	Online	14/05/2021
Dr.Upesh Kumar MrG.A.Patel	Senior Scientist and Head Sci. Pl.Protection	National webinar on promise of biological control for sustainable pest management	MPUAT Udaipur	Online	17/05/2021
MrG.A.Patel MrH.M.Patel Mr.S.Darji MrR.P.Chaudhari	Sci Pl. Protection Sci. Home Science Sci.Horticulture Sci. Agromony	Jamin swasthanijalavani	SDAU S.K.Nagar	Online	19/05/2021
MrS.S.Darji MrR.P.Chaudhari	Sci. Horticulture Sci. Agromony	Strategy for promotion for bio fortified	MANAGE,Hyderabad	Online	18/05/2021
MrG.A.Patel MrS.S.Darji MrR.P.Chaudhari	Sci Pl. Protection Sci.Horticulture Sci. Agromony	Dragon fruit cultivation	SDAU SK Nagar	Online	19/05/2021
MrG.A.Patel MrS.S.Darji MrR.P.Chaudhari	Sci Pl. Protection Sci.Horticulture Sci. Agromony	National webinar on World Bee day	SDAU SK Nagar	Online	20/05/2021
Dr.Upesh Kumar MrG.A.Patel	Senior Scientist and Head Sci. Pl.Protection	State level webinar on madamakhipalananetenikhetimaupyogita	MPUAT,Udaipur	Online	24/05/2021
Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	Kharif pre seasonal workshoop	SDAU S.K.Nagar	Online	18/06/2021

Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	Sustainable strategies for enhancing production profitability in dryland agriculture	MPUAT Udaipur	Online	29/06/2021
MrG.A.Patel	Sci. Pl.Protection	Webinar on plant protection in current &future prospective	CUTM Orrisa	Online	11to14/06/2021
MrG.A.Patel	Sci. Pl.Protection	IFSfor more profitable in agriculture	SDAU S.K.Nagar	Online	22/06/2021
Dr.S.J.Patel MrR.P.Chaudhari	Sci. Ani. Sci Sci. Agronomy	Feed management in milch animal	Kamdhenu university Gandhinagar	Online	12/07/2021
Dr.S.J.Patel	Sci. Ani. Sci	Health management inmilch animal	Kamdhenu university Gadhinagar	Online	19/07/2021
Dr.Upesh Kumar MrG.A.Patel	Senior Scientist and Head Sci. Pl.Protection	ICAR Foundation Day	ICAR	Online	16/07/2021
MrR.P.Chaudhari	Sci. Agronomy	Low cost &high return technology in dairy sector	SDAU S.K.Nagar	Online	19/07/2021
Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	Annual Zonal workshoop	ATARI PUNE	Online	04to06/08/2021
Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	PM Kisan samman Nidhi	ICAR New Delhi	Online	09/08/2021
Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	DFI	ATARI Pune	Online	11/08/2021
Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	Feed & Nutrition for farmer	ICAR New Delhi	Online	26/08/2021

Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	Climate resilient technology &PMlive telecast	ICAR	Online	28/09/2021
Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	Presentation skill for professional excellence	EEI Anand	Online	26to28/10/2021
Dr.Upesh Kumar MrG.A.Patel Dr. S. J. Patel	Senior Scientist and Head Sci. Pl.Protection Sci. Ani. Sci.	ZREAC meeting	SDAU S.K.Nagar	S.D.A.U., S.K.Nagar	22/10/2021
Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	ATARI patna administrative building inauguration	ICAR	Online	23/11/2021
Dr.Upesh Kumar Dr. S. J. Patel	Senior Scientist and Head Sci. Ani. Sci.	World Milk day	ICAR	Online	26/11/2021
MrS.S.Darji	Sci. Horticulture	Natural farming Gujarat state	ATMA Gandhinagar	Trimandir, Adalaj	26Nov.to02/12/2021
Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	SPNF-NITI Aayog new delhi	NITI	Online	30/11/2021
Dr. Upesh Kumar All Staff	Senior Scientist and Head All Scientist	SPNF	PMlive telecast	Online	16/12/2021
MrH.P.Patel	Sci. Agri. Extension	SPNF	ATMA Gandhinagar	Online	29to 31/12/2021

18. Details of progress in Doubling Farmers Income (DFI) villages adopted by KVKs

Name of the village	Total No. of families surveyed	Key interventions implemented	No. of farmers covered in each intervention	Change in income (Rs/unit)	
				Before (base year)	After (current year)
ajipur	25	1. High yielding variety 2. IPM modules 3. Dairy management	25	185000	375000

Madhupura	25	1. High yielding variety 2. Cultivation of Horti. crops with MIS 3. IPM modules 4. Dairy management	25	215000	455000

19. Details of activities planned under NARI /PKVY / TSP / KKA, etc.

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered
01	NARI	02	Training	11	150 No
			Demonstration	05	
			Field visit	14	
			Exhibition	01	
			Health checkup camp	01	
			Group meeting	05	
			Field day	04	

20. Details of Progress of ARYA Project

Name of Enterprise	No of Training Conducted	No of Beneficiaries	No of Extension Activities	No of Beneficiaries	No of Unit established	Change in income		No. Of Groups Formed
						Before	After	

21. Details of SAP

S. No.	*Types of major Activity conducted- SwachhtaPakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.*	No. of Programmes conducted	No. of Participants
1	Training progarmme	14	742
1	Kisan Seminar	01	161
2	Kisan Gosthi under Natural Farming	01	803
3	Microbial Based Agriculture waste awareness programme	08	339
4	Vermi compost	1	10

21. 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	51	753	420	1173
Rural youths	04	00	118	118
Extension functionaries	09	227	91	318
Sponsored Training	10	643	144	787
Vocational Training	03	00	74	74
Total	**77**	**1623**	**847**	**2470**

2. Frontline demonstrations

Crops/Enterprise	No. ofFarmers	Area(ha)	Units/Animals
Oilseeds	50	20	-
Pulses	100	40	-
Cereals	45	15	
Vegetables	20	05	
Spices	70	20	
Fruit plant	30	03	
Other crops- Mixed cropping	25	10	
Hybrid crops	45	15	
Total			
Livestock & Fisheries	60	-	60
Other enterprises	105	-	-
Total			
Grand Total			

Crops/Enterprise	No. ofFarmers	Area(ha)	Units/Animals
Oilseeds	50	20	-
Pulses	100	40	-
Cereals	45	15	
Vegetables	20	05	
Spices	70	20	
Fruit plant	30	03	
Mixed cropping- Mustard+ Lucern	25	10	
Hybrid	45	15	
Livestock & Fisheries	60	-	60
Others- Kitchen garden, Vermi cpomst&Secaiter	105		
Grand Total	**550**	**128**	**60**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	06	06	48
Livestock	01	01	05
Various enterprises			
Total	**07**	**07**	**53**
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	**07**	**07**	**53**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	66	4180
Other extension activities	87	Mass
Total	153	4180

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Market-ting	Awar e-ness	Other enterprise	Total
	Text only	29	07	-	01	02	-	39
	Voice only							
	Voice & Text both							
	Total Messages	**29**	**07**	**-**	**01**	**02**	**-**	**39**
	Total farmers Benefitted	**35352**	**35352**	**-**	**35352**	**3535 2**	**-**	**35352**

6. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)	1102	35260
Planting material (No.)	21578	29180
Bio-Products (kg)	6250	31250

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
Soil	155	-
Water		
Plant		
Total	**155**	**-**

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	5
2	Conferences	1
3	Meetings	11
4	Trainings for KVK officials	26
5	Visits of KVK officials	04
6	Book published	
7	Training Manual	
8	Book chapters	
9	Research papers	01
10	Lead papers	
11	Seminar papers	01
12	Extension folder	02
13	Proceedings	01
14	Award & recognition	-
15	On-going research projects	
16	Popular article	09
17	Technical report	04