

**ICAR-ATARI, Pune**  
**DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2021**  
 (January 2021 to December 2021)

**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, Navsari Agricultural University, Ahwa road, Waghai, Ta: Waghai, District: Dangs, Gujarat-394 730	02631-296645	-	<a href="mailto:kvkwaghai@nau.in">kvkwaghai@nau.in</a>	<a href="http://dangs.kvk6.in">http://dangs.kvk6.in</a>

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

Address	Telephone		E mail	Website address
	Office	FAX		
Navsari Agricultural University, Eru Char Rasta, Dandi Road, Navsari, Gujarat, 396 450	02637-282823 02637-282026	-	<a href="mailto:dee@nau.in">dee@nau.in</a>	<a href="http://www.nau.in">www.nau.in</a>

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. G. G. Chauhan	02631-296645	9427176916	<a href="mailto:kvkwaghai@nau.in">kvkwaghai@nau.in</a>

**1.4. Date and Year of sanction: ICAR 1984-85**

**1.5. Staff Position (as on December, 2021)**

Sl. No.	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
					Current Pay Band	Current Grade Pay		
1.	Senior Scientist and Head	Dr. G. G. Chauhan	9427176916	Extension Education	131400-217100	-	26-08-2019	-
2.	Scientist	Dr. J. B. Dobariya	9724761097	Extension Education	57700-182400	-	20.08.2015	-
3.	Scientist	Dr. P. P. Javiya	9925689822	Crop Production	57700-182400	-	27-08-2019	-
4.	Scientist	Mr. H. A. Prajapati	9429430999	Horticulture	57700-182400	-	13.02.2017	-
5.	Scientist	Dr. S. A. Patel	9913439987	Animal Science	57700-182400	-	27-08-2019	-
6.	Scientist	Mr. B. M. Vahunia	8141802632	Plant Protection	57700-182400	-	28-08-2019	-
7.	Scientist	Vacant (Home Science)	-	-	-	-	-	-
8.	Programme Assistant	Mr. K. V. Patel	9687788642	-	39900-126600	-	24-09-2015	-
9.	Computer Programmer	Mr. T. R. Ahir	9825424555	-	39900-126600	-	01-08-2020	-
10.	Farm Manager	Mr. R. S. Patel	9904410078	-	39900-126600	-	08-03-2019	-
11.	Accountant/Superintendent	Vacant	-	-	39900-126600	-	-	-
12.	Stenographer	Vacant	-	-	5200-20200	-	-	-
13.	Driver 1	Vacant	-	-	5200-20200	-	-	-
14.	Supporting staff 1	Mr. D. N. Parmar	6356862156	-	14800-47100	-	01.08.2011	-
15.	Supporting staff 2	Vacant	-	-	4440-7440	-	-	-

**1.6. Total land with KVK (in ha):**

S. No.	Item	Area (ha)
1.	Under Buildings	0.97
2.	Under Demonstration Units	--
3.	Under Crops	2.80
4.	Horticulture	1.00
5.	Pond	--
6.	Others if any	1.00
<b>Total</b>		<b>5.77</b>

**1.7. Infrastructural Development:**
**A) Buildings**

Sr. No.	Name of building	Source of funding	Stage					
			Completion Year	Complete		Incomplete		
				Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	1990	200.73	0.93	--	--	--
2.	Farmers Hostel	ICAR	2005	278.00	12.00	--	--	--
3.	Staff Quarters (6)	--	--	--	--	--	--	--
	B-Type(2)	ICAR	1994	197.04	343696	--	--	--
	C-Type(1)	ICAR				--	--	--
	A-Type(1)	ICAR				--	--	--
	E-Type(1)	ICAR				--	--	--
	Total			197.04	343696	--	--	--
	RCC approach road		2005	82.00	2.21	--	--	--
	RCC Sump		2005	40000 lit cap	0.76	--	--	--
4.	Demonstration Units	----	--	--	--	--	--	--
5.	Fencing	----	--	--	--	--	--	--
6.	Rain Water harvesting system	----	--	--	--	--	--	--
7.	Threshing floor	ICAR	2012	84	2.00	--	--	--
8.	Farm godown	ICAR	2011	12	3.00	--	--	--
9.	ICT lab	--	--	--	--	--	--	--
10.	other	--	--	--	--	--	--	--

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Motorcycle Hero Honda Splendor	2011	50755	35628 (31-12-2021)	Working
Mahindra Bolero	2019	686240	53088 (31-12-2021)	Working

**C) Equipments & AV aids**

Name of the equipment/ Implements	Year of purchase	Cost (Rs.)	Present status
Camera (Sony-Digital )	05.01.2001	27100/-	Working
Digital camera	03.01.2009	19038/-	Working
Generator set (Honda)	26.03.2010	49600/-	Working
EPBAX system	24.02.2011	49868/-	Working
Plough (Heavy duty)	18.02.2011	19000/-	Working
Rotavator	14.03.2011	63400/-	Working
Vivitek Multimedia DLP projector	14.03.2011	99990/-	Working
Winnowing fan	27.02.2011	6900/-	Working
Power sprayer	04.02.2011	24150/-	Working
Power tiller	24.03.2011	148785/-	Working
Cultivator	03.03.2011	20700/-	Working
Two-way-leveler	03.03.2011	12600/-	Working
Thresher	17.02.2011	18000/-	Working
Seed cum fertilizer drill	17.02.2011	36100/-	Working
Scale (Weighing)	18.02.2011	6000/-	Working

PROTON Impact	28.03.2011	35600/-	Working
Trailer (For Power tiller)	28.03.2011	26500/-	Working
Submersible pump ISIV-6	07.03.2014	18,750/-	Working
Digital mini lab	23.11.2015	75000/-	Working
Tractor	04.12.2015	581228/-	Working
Paddy winnowing fane	29-02-2016	42200/-	Working
Rotary power tiller	18-03-2016	98500/-	Working
Desk top computer (Lenova)	21-03-2016	38775/-	Working
HP printer	28-03-2016	10999/-	Working
Tractor Trailer	29-03-2016	117000/-	Working
M.B.Plough	20-02-2017	30500/-	Working
Roklith cooler	23-02-2017	79000/-	Working
Lenovo computer (All in one)	07-03-2017	46199/-	Working
Laser printer	07-03-2017	25800/-	Working
Voltas AC	08-03-2017	72000/-	Working
Photocopier machine	10-03-2017	150000/-	Working
Mridaparishak soil testing kit	15-03-2017	90300/-	Working
Multicrop thresher	16-03-2017	210000/-	Working
Kiosk thin client based free standing type model	23-03-2017	90250/-	Working
Stabilizer	27-09-2017	8260/-	Working

V-ditcher, Ridzer, Burd former	19-02-2018	60000/-	Working
Lawn mover	17-03-2018	31500/-	Working
Paddy threshing table (2 peace)	29-09-2018	14000/-	Working
H P Laptop	11-03-2019	44715/-	Working
H P Printer	15-03-2019	14450/-	Working
Reaper	27-03-2019	97211/-	Working
Brush Cutter	27-03-2019	17813/-	Working
Submersible pump 7.5 HP	27-03-2019	29488/-	Working
Projector	27-03-2019	48500/-	Working
U P S inventor	29-03-2019	48000/-	Working
Disc harrow	27-03-2019	101115/-	Working
Air conditional	26-03-2019	116670/-	Working
Mini tractor (VST-Mitsubishi- Shakti)	28-03-2019	335699/-	Working
All in one printer (HP -1005 Laser jet pro MFP)	28-03-2019	17480/-	Working
All in one printer (HP - Laser jet pro MFP)	28-03-2019	28700/-	Working
All in one Computer (No. 4)	28-03-2019	227534/-	Working
Revolving Chair (No. 2)	29-03-2019	9000/-	Working

### 1.8. Details of SAC meeting conducted in the year:

Date	Name and Designation of Participants	Salient Recommendations	Action taken
21-01-2022	Dr. Z. P. Patel Hon'ble, Vice Chancellor, NAU, Navsari	<p>1. Awareness programme on plant protection in French bean.</p> <p>2. Promotion of Kitchen Garden.</p> <p>3. Motivation for improved breed of back yard poultry.</p> <p>4. Nutritional management in cereals and pulses crop.</p> <p>5. Check the possibility of Potato cultivation in the Dangs district with the help of horticulture department of Dangs.</p> <p>6. Increase awareness about Dragon fruit.</p> <p>7. Remove the Assistant Director (Soil Conservation), GLDC, Ahwa, Dangs from the list of SAC members SAC meeting of KVK, Waghai, Dangs.</p>	<p>1. 2 Training conducted about awareness programme on plant protection in French bean, 1 Method demonstration was organised on 07-12-2021, 1 Farmers scientist interaction was organised on 07-12-2021, Lecture was delivered in the Technology week dates on 16-11-2021. (Lecture on awareness on plant protection measure in french bean)</p> <p>2. We had conducted 4 on – off Sponsored training and other extension activities like 4 lecture delivered, 1 field visit, 4 FLD visit, etc. about Kitchen Garden.</p> <p>3. We had conducted 1 training and other extension activities like 3 FLD visit, 2 scientist visit to farmers field, 3 method demonstration etc. about back yard poultry.</p> <p>4. We had conducted 5 on – off campus trainings, 2 Sponsored training, 2 Vocational training and other extension activities like 5 lecture delivered, 14 field visit, 6 FLD visit, 1 Field day, 1 kishan gosthi etc. about nutritional management.</p> <p>5. OFT conducted about check the possibility of Potato cultivation in the Dangs district with the help of horticulture department of Dangs.</p> <p>6. Conducted the demonstration at KVK, Waghai at Rajendrapur farm.</p> <p>7. Suggestion incorporated and We had include new member that is Area manager of Aga Khan Rural Support Programme (India), Dangs.</p>
	Dr. Lalit Mahatma, Representative of Director of Research, NAU, Navsari		
	Dr. C. K. Timbadiya, Director of Extension Education, NAU, Navsari		
	Dr. S. N. Saravaiya, Professor & Head, Department of vegetable Science, ACHF, NAU, Navsari		
	Dr. J. J. Pastagiya, Principal, CoA, NAU, Waghai, Dangs		
	Dr. H. E. Patil, Associate Research Scientist, (HMRS), NAU, Waghai, Dangs		
	Dr. G. G. Chauhan, Senior Scientist & Head, KVK, NAU, Waghai, Dangs		
	Dr. Mahaveer Choudhary, Principal of Agri. Polytechnic, NAU, Waghai, Dangs		
	Dr. A. P. Patel, Associate Professor (Agronomy), College of Agriculture, NAU, Waghai, Dangs		
	Dr. Divya G. Chaudhary, Representative of DAHO, Ahwa, Dangs		
	Mr. K.U. Mahala, District Agriculture Officer, Ahwa, Dangs		
	Mr. Pritesh B. Patel, Representative of Assistant Director of Horticulture, Ahwa, Dangs		
	Mr. H. N. Pavagadhi, Representative of PD, ATMA, Ahwa, Dangs		
	Mr. D. L. Jat, Representative of Area manager, AKRSP(I) Ahwa, Dangs		
	Mr. Kashiram Birari, Agri Entrepreneur, Jamlapada, Ta. Waghai, Dangs		
	Mr. Bendubhai M. Gaikwad, Progressive Farmer, Nadagkhadi, Ta. Waghai, Dangs		
	Smt. Bhartiben C. Patel, Chair person of Women SHG, Waghai, Dangs		
	Mr. J. B. Dobariya, Scientist (Extension Education), KVK, NAU, Waghai, Dangs		
	Mr. H. A. Prajapati, Scientist (Horticulture), KVK, NAU, Waghai, Dangs		
	Dr. S. A. Patel, Scientist (Animal Science), KVK, NAU, Waghai, Dangs		
Mr. B. M. Vahuniya, Scientist (Plant Protection), KVK, NAU, Waghai, Dangs			
Ms. Falguni C. Mahakal, Faculty (Home Science), KVK, NAU, Waghai, Dangs			
Mr. S. N. Chaudhary, SMS (Agro-meteorologist), KVK, NAU, Waghai, Dangs			
Mr. A. N. Vanjariya, Office cum Superintendent KVK, NAU, Waghai, Dangs			
Mr. R. S. Patel, Farm Manager, KVK, NAU, Waghai, Dangs			
Mr. K. V. Patel, Programme Assistant, KVK, NAU, Waghai, Dangs			
Mr. Pradip Sabale, Agromet Observer, KVK, NAU, Waghai-Dangs			

## 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	Agriculture farming system
2	Agri - Horti farming system
3	Agri – Horti -Dairy farming system
4	Agroforestry system

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

#### a) Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1	South Gujarat Heavy Rainfall Zone–I Agro Ecological Situation-I	Dangs district comes under South Gujarat Heavy Rainfall Zone–I Agro Ecological Situation-I having total 172366 ha land. Out of that, 53.74% is occupied with forest and only 33.80% of land comes under cultivation and cultivable fallow. The district is remote forest area and characterized mainly by tribal. The cropping pattern of the district is single rainfed crops. The major crops in <i>kharif</i> are Paddy, Finger millet, Little millet, Sorghum, Black gram <i>etc.</i> Some more information regarding the district is given below.

#### b) Topography

S. No.	Agro ecological situation	Characteristics
1	Location	73'.29' to 73'.51' longitude and 20'.39' to 21'.50' latitude. An elevation 105 to 1317 mtrs. MSL
2	Agro climatic zone	South Gujarat Heavy Rainfall Zone–I Agro Ecological Situation-I
3	Soil	Laterite, hilly, undulating with slopes of 20 to 40 percent, shallow to medium in depth
4	Rainfall	1800-2000 mm with average rainy days of 85-95
5	Irrigation	18 percent
6	Rivers	Ambica, Khapri, Purna, Gira



### 2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Lateritic, hilly, undulating with the slopes of 20 to 40 per cent, light to medium texture soil and others	Shallow to medium in depth, low to moderately fertile, medium to high in slope, normal to slightly acidic pH, moderate temperature because of thick forest cover, area under irrigation (10500 ha)	56,300

### 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)
1	Paddy	26800	78256	29.2
2	Nagli	8475	12713	15
3	Sorghum	54	43.2	8
4	Maize	360	270	7.5
5	Pigeon Pea	3565	1640	4.6
6	Black Gram	9350	8415	9
7	Ground nut	3885	4662	12
8	Niger	935	1259	13.46
9	Soybean	1051	631	6
10	Vari	1995	2993	15
11	vegetables	85	10520.3	19
12	Other cereal	-	-	-
13	Other pulses	-	-	-
	<b>Kharif Total</b>	<b>56555</b>	<b>121402.5</b>	
14	Wheat	310	651	21
15	Gram	16500	7755	4.7
16	Sugarcane	375	9000	240
17	Other pulses	-	-	-
	<b>Rabi-Total</b>	<b>17185</b>	<b>17406</b>	

Source: District agriculture department.

## 2.5. Weather data (2021)

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January	42.00	30.3	13.7	82	67
February	0.00	33.6	10.5	71	55
March	0.00	34.0	10.6	68	71
April	0.00	37.5	15.4	77	58
May	12.5	36.5	19.2	86	68
June	278.5	33.2	20.8	87	82
July	638.0	31.1	20.5	89	83
August	329.0	29.8	19.1	90	84
September	615.0	26.5	17.5	91	90
October	23.0	33.0	18.8	80	73
November	20.0	32.8	13.0	80	73
December	0.00	29.7	11.1	82	71
<b>Total</b>	<b>1958</b>				

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

Category	Population (No.)	Production (Per unit)	Productivity (Per unit)
<b>Cattle</b>			
<i>Crossbred</i>	15482	-	2000-2200 lit/cow
<i>Indigenous</i>	58900	-	800 lit/cow
<b>Buffalo</b>	22125	-	1200 lit/buffalo
<b>Sheep</b>	-	-	-
<b>Goats</b>	45658	-	300 lit
<b>Pigs</b>	-	-	-
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	-	-	-
<b>Rabbits</b>	109	-	-
<b>Hens</b>	32350	-	185 egg/year
<i>Desi</i>	166970	-	58 egg/year
<b>Category</b>		<b>Production (Q.)</b>	<b>Productivity (Per Unit)</b>
Fish (Reservoir)	--	--	--
Fish (Farm ponds)	--	--	--

## 2.7. Details of Operational area / Villages

Name of Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Ahawa	Lahandabash Gundiya Sati	<b>Cereals:</b> Paddy, Finger millet, little millet <b>Pulses:</b> Gram, Black gram, Pigeon pea <b>Oilseeds:</b> Groundnut, Niger	-Use of traditional varieties - Poor quality of seed -Improper use of fertilizers - Lack of awareness about plant protection measures	-Promoting Animal husbandry./ horticultural crops - Use of recommended varieties - Promotion of scientific package of practices
Subir	Sajupada Bardipada Dhuldha	<b>Vegetables:</b> Okra <b>Fruit crops:</b> Mango, Custard apple <b>Floriculture:</b> Rose and Marigold	-Scarcity of fodder - Repeat Breeding and Anoestrus	- Create awareness about plant protection measures - Scientific feeding management
Waghai	Zavada Vankan Chichond Bhadarpada	<b>Others:</b> Tuber crops <b>Animal Husbandry</b>	Less interest in dairy business	- Artificial Insemination - Awareness about dairy enterprise

## 2.8. Priority thrust areas:

### 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
10	10	112	112	16	28	415	708

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
56	129	1495	4343	184	794	11023	24534

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
104	90.95	5000	5020

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
0	0	0	0

### 3.1. B. Operational areas details during 2021

Sr.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.)*
			Crop	Area (ha)		
1.	<b>Cereals:</b>	-Use of traditional varieties - Poor quality of seed -Lack of awareness related with organic crop package & practices - Lack of awareness about plant protection measures -Scarcity of fodder - Repeat Breeding &Anoestrus - Less interest in dairy business	Paddy	135	Lahandabash  Gundiya  Sati  Sajupada  Bardipada  Dhuldha  Zavada  Vankan  Chichond  Bhadarpada	On campus training, Off campus training, Sponsored training, Vocational training, In-service training, Lecture delivered, Field visit, FLD visit, OFT visit, Scientist visit to farmer field, Farmer visit to KVK, Diagnostic visit, Exposure visit, KisanGosthi, Animal camps, Field day, Farmer fair, Farmer scientist interaction, Farmers meeting, TV-Film show, Exhibition, Farm School, Soil health campaign, Celebration of importance day, SwachataJagruti, Soil sample analyzed, Plant health clinic diagnostic services, SMS portal, Telephone helpline
2.	Paddy, Finger millet, little millet		Finger millet	78		
3.	<b>Pulses:</b>		Vari	69		
4.	Gram, Black gram, Tur		Sorghum	15		
5.	<b>Oilseeds:</b> Groundnut, Niger		Maize	10		
6.	<b>Vegetables:</b> Okra, Brinjal		Black Gram	15		
7.	<b>Fruit crops:</b> Mango, Cashew nut, Custard apple		Pigeon Pea	20		
8.	<b>Floriculture:</b> Rose and Marigold		Soybean	15		
9.	<b>Others:</b>		Ground nut	5		
10.	Tuber crops		<b>Kharif Total</b>	362		
11.	<b>Animal Husbandry</b>		Gram	38		
12.			Wheat	10		
13.			Okra	12		
14.			Brinjal	10		
15.			Mango	20		
16.			Cashew nut	6		
		<b>Rabi-Total</b>	<b>96</b>			

\* Support with problem-cause and interventions diagram

### 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										
Varietal Evaluation					2				1	3
Integrated Pest Management					1					1
Integrated Crop Management	1		1							2
Integrated Disease Management	1		1							2
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										
<b>Total</b>	<b>2</b>		<b>2</b>		<b>3</b>				<b>1</b>	<b>8</b>

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

<b>Thematic areas</b>	<b>Cattle</b>	<b>Poultry</b>	<b>Piggery</b>	<b>Rabbitry</b>	<b>Fisheries</b>	<b>TOTAL</b>
Evaluation of Breeds						
Nutrition Management	1					1
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder	1					1
Small Scale income generating enterprises						
<b>TOTAL</b>	<b>2</b>					<b>2</b>

## B. Achievements on technologies Assessed

### B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation	Tomato	Varietal assessment of Tomato in the Dangs	10	10	0.66
	Turmeric	Varietal assessment of turmeric during <i>Kharif</i> season in the Dangs, variety GNT1	10	10	0.72
	Potato	Possibilities of Potato cultivation in The Dangs district (Assessment)	06	06	0.2
Integrated Pest Management	Okara	Management of Fruit & Shoot borer of Okra	06	06	0.6
Integrated Crop Management	Finger millet	Sowing method in finger millet	10	10	1.0
	Pigeon pea	Spacing management in pigeon pea	10	10	1.0
Integrated Disease Management	Finger millet	Control of blast disease of Finger millet in the Dangs	06	06	0.6
Integrated Disease Management	Gram	Control of wilt in gram	06	06	0.6
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Post Harvest Technology / Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
<b>Total</b>			<b>52</b>	<b>52</b>	<b>4.98</b>

### 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
Evaluation of breeds				
Nutrition management	Crossbred cattle	Use of Chelated minerals in the diet of crossbred HF cows	10	30
Disease management				
Value addition				
Production and management				
Feed and fodder	Crossbred cattle	Effect of supplementing mineral mixture and concentrate on body growth performance in calves	10	30
Small scale income generating enterprises				
<b>Total</b>			<b>20</b>	<b>60</b>

## C. 1. Results of Technologies Assessed

### 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
<b>Pigeon pea</b>	Rain fed	Low yield of pigeon pea	Spacing management in pigeon pea	10	T <sub>1</sub> : Farmers Practices (Random sowing) T <sub>2</sub> : 45 x 15 cm T <sub>3</sub> : 60 x 20 cm	Yield (Q/ha)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :9.13 Qt T <sub>2</sub> :10.56 Qt T <sub>3</sub> : 11.82 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> :9.47 Qt T <sub>2</sub> :10.97 Qt T <sub>3</sub> :12.10 Qt	Treatment T <sub>3</sub> (60 x 20 cm) was better than T <sub>1</sub> (Broadcasting)	More weed infestation found in T <sub>1</sub> which ultimately reduce yield	No	NA
<b>Tomato</b>	Irrigated	Low yield of Farmers adopted hybrid variety	Varietal assessment of Tomato in the Dangs	10	T <sub>1</sub> : Farmers practices (Hybrid variety- <i>Vaishali</i> ) T <sub>2</sub> : Gujarat Tomato-7 T <sub>3</sub> : Arka Rakshak	Yield (Q/ha)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :308 Qt T <sub>2</sub> :224 Qt T <sub>3</sub> : 467 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> :298 Qt T <sub>2</sub> :200 Qt T <sub>3</sub> :455 Qt	T <sub>3</sub> treatment is best among T <sub>1</sub> and T <sub>2</sub>	Arka rakshak gave higher yield than private company variety	No	NA
<b>Potato</b>	Irrigated	Possibilities of Potato cultivation in The Dangs district	Possibilities of Potato cultivation in The Dangs district (Assessment)	06	T1: Farmers practices (Gram) T2: Potato crop( Kufri Badshah)	Yield (Q/ha)	Result awaited	-	-	No	NA
<b>Okra</b>	Irrigated	Low yield of Okra & High mortality due to Pest damage	Management of Fruit & Shoot borer of Okra	06	T1: Farmers practice T2: Installation of Pheromone trap T3 : Spray Azadirachtin (Neem oil based) 300ppm/1500 ppm	Yield (Q/ha)	Result awaited	-	-	No	NA

<b>Cross bred cattle</b>	NA	Low milk production due to mineral imbalance & parasitic infestation	Use of Chelated minerals in the diet of crossbred HF cows	10	T 1- Farmer's practice – feeding of locally available feeds and fodders T 2- T1 + Chelated minerals @ 30 gm/cow/day for 120 days T3- T1 + Chelated minerals @ 30 gm/cow/day for 120 days + Bol. Fenbendazol @ 5-7.5 / kg body weight	Weight of calf (Kg/calf)	Result awaited	-	-	No	NA
<b>Finger millet</b>	Rain fed	Random throwing of seedlings	Sowing method in finger millet	10	T <sub>1</sub> : Farmers Practices (Random throwing) T <sub>2</sub> : 30 x 10 cm T <sub>3</sub> : 22.5 x 10 cm	Yield (Q/ha)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :10.06 Qt T <sub>2</sub> :12.18 Qt T <sub>3</sub> :14.10 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 9.45 Qt T <sub>2</sub> : 11.94 Qt T <sub>3</sub> : 13.20 Qt <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :10.95 Qt T <sub>2</sub> :13.74 Qt T <sub>3</sub> :15.30 Qt	Treatment T <sub>3</sub> (22.5 x 10 cm) was better than T <sub>1</sub> (Random throwing)	Sowing with proper method is good than throwing seedling	No	NA
<b>Turmeric</b>	Rain fed	Low yield of turmeric in <i>Kharif</i>	Varietal assessment of turmeric during <i>Kharif</i> season in the Dangs	10	T <sub>1</sub> . Farmers practices (Salem Variety) T <sub>2</sub> . Gujarat Navsari Turmeric -1	Yield (Q/ha)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :135.1 Qt T <sub>2</sub> :189.2 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> :145.50 Qt T <sub>2</sub> :180.00 Qt <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :157.50 Qt T <sub>2</sub> :188.00 Qt	Treatment T <sub>2</sub> (Gujarat Navsari Turmeric -1) was better than T <sub>1</sub> (Farmers practices)	GNT 1 variety give higher production then Salem	No	NA



<b>Finger millet</b>	Rain fed	Low yield of Finger millet	Control of blast disease of Finger millet in the Dangs	06	T <sub>1</sub> : Farmers practice T <sub>2</sub> :Spray of <i>Pseudomonas</i> sp. @ 60ml/10litre of water T <sub>3</sub> : Seed treatment <i>Trichoderma harzianum</i> @5 g/kg seed	Yield (Q/ha)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :9.75 Qt T <sub>2</sub> :13.90 Qt T <sub>3</sub> :13.65 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 8.41 Qt T <sub>2</sub> : 10.31 Qt T <sub>3</sub> : 9.98 Qt <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :10.09 Qt T <sub>2</sub> :14.11 Qt T <sub>3</sub> :13.20 Qt	T <sub>2</sub> treatment is best than T <sub>1</sub> and T <sub>3</sub>	Need high yielding blast disease resistant variety in Finger millet	No	NA
<b>Gram</b>	Rain fed	Low yield of Gram and high mortality after germination	Control of wilt in gram	06	T <sub>1</sub> : Farmers practice T <sub>2</sub> :Seed treatment with <i>Trichoderma viride</i> @ 5 g/kg of seed	Yield (Q/ha)	<b>1<sup>st</sup> year:</b> T <sub>1</sub> : 9.25 Qt T <sub>2</sub> : 10.58 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 9.26 Qt T <sub>2</sub> : 10.50 Qt <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :9.41 Qt T <sub>2</sub> :11.63 Qt	T <sub>2</sub> treatment is best than T <sub>1</sub>	Good quality and uniformity	No	NA
<b>Cross bred cattle</b>	NA	Lack of knowledge about mineral mixture and concentrate feeding technology. Lower body growth due to improper feeding	Effect of supplementing mineral mixture and concentrate on body growth performance in calves	10	T <sub>1</sub> -Framer's practice (n=10) T <sub>2</sub> -Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) (n=10) T <sub>3</sub> -Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) + Concentrate feeding @ 1% body weight (n=10)	Weight of calf (Kg/calf)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :60.3 kg/calf T <sub>2</sub> :61.2 kg/calf T <sub>3</sub> :62.1 kg/calf <b>2<sup>nd</sup> year :</b> T <sub>1</sub> :61.9 kg/calf T <sub>2</sub> :63.8 kg/calf T <sub>3</sub> :65.7kg/calf <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :62.8 kg/calf T <sub>2</sub> :65.4 kg/calf T <sub>3</sub> :67.6 kg/calf	T <sub>3</sub> treatment is best among T <sub>1</sub> and T <sub>2</sub>	Feeding of mineral mixture along with Concentrate feed resulted in to better body growth performance	No	NA

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
T1 : Farmers Practices (Random sowing) T2 : 45 x 15 cm T3 : 60 x 20 cm	NAU, Navsari 2016	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :9.13 Qt T <sub>2</sub> :10.56 Qt T <sub>3</sub> : 11.82 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> :9.47 Qt T <sub>2</sub> :10.97 Qt T <sub>3</sub> :12.10 Qt	Qt/ha	<b>1<sup>st</sup> year :</b> T <sub>1</sub> : 16520 T <sub>2</sub> : 22240 T <sub>3</sub> :27280 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 37880 T <sub>2</sub> : 43880 T <sub>3</sub> : 48400	<b>1<sup>st</sup> year :</b> T <sub>1</sub> : 1.83 T <sub>2</sub> : 2.11 T <sub>3</sub> :2.36 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 1.89 T <sub>2</sub> : 2.19 T <sub>3</sub> : 2.42
T <sub>1</sub> : Farmers practices (Hybrid variety-Vaishali) T <sub>2</sub> : Gujarat Tomato-7 T <sub>3</sub> : Arka Rakshak	Navsari Agricultural University, Navsari (2017-18) ICAR-IIHR, Bangalore, (2013)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :308 Qt T <sub>2</sub> :224 Qt T <sub>3</sub> : 467 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> :298 Qt T <sub>2</sub> :200 Qt T <sub>3</sub> :455 Qt	Qt/ha	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :102600 T <sub>2</sub> : 62300 T <sub>3</sub> : 210100 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 66800 T <sub>2</sub> : 28150 T <sub>3</sub> : 156800	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :2.24 T <sub>2</sub> : 1.86 T <sub>3</sub> : 3.99 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 1.81 T <sub>2</sub> : 1.38 T <sub>3</sub> : 3.23
T1: Farmers practices (Gram) T2: Potato crop( Kufri Badshah)	Central Potato Research station , Kufri Himachal Pradesh (1980)	Result awaited	Qt/ha	-	-
T1: Farmers practice T2: Installation of Pheromone trap T3 : Spray Azadirachtin (Neem oil based) 300ppm/1500 ppm		Result awaited	Qt/ha	-	-
T 1- Farmer's practice – feeding of locally available feeds and fodders T 2- T1 + Chelated minerals @ 30 gm/cow/day for 120 days T3- T1 + Chelated minerals @ 30 gm/cow/day for 120 days + Bol. Fenbendazol @ 5-7.5 / kg body weight	NDRI, Karnal	Result awaited	Kg/Calf	-	-
T <sub>1</sub> : Farmers Practices (Random throwing) T <sub>2</sub> : 30 x 10 cm T <sub>3</sub> : 22.5 x 7.5 cm	Hill Millet Research Station, NAU, Waghai (2018) Regional Research Station, TNAU, Paiyur (2016)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :10.06 Qt T <sub>2</sub> :12.18 Qt T <sub>3</sub> :14.10 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 9.45 Qt T <sub>2</sub> : 11.94 Qt T <sub>3</sub> : 13.20 Qt <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :10.95 Qt T <sub>2</sub> :13.74 Qt T <sub>3</sub> :15.30 Qt	Qt/ha	<b>1<sup>st</sup> year :</b> T <sub>1</sub> : 18168 T <sub>2</sub> : 24104 T <sub>3</sub> :29480 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 16460 T <sub>2</sub> : 21432 T <sub>3</sub> :24960 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 30660 T <sub>2</sub> : 38472 T <sub>3</sub> : 42840	<b>1<sup>st</sup> year :</b> T <sub>1</sub> : 2.82 T <sub>2</sub> : 3.41 T <sub>3</sub> :3.95 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> :2.64 T <sub>2</sub> :2.78 T <sub>3</sub> :3.08 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 3.07 T <sub>2</sub> : 3.21 T <sub>3</sub> : 3.57
T <sub>1</sub> : Farmers practices (Salem variety) T <sub>2</sub> : Gujarat Navsari Turmeric -1	NAU, Navsari (2016)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :135.1 Qt T <sub>2</sub> :189.2 Qt <b>2<sup>nd</sup> year:</b>	Qt/ha	<b>1<sup>st</sup> year :</b> T <sub>1</sub> : 30490 T <sub>2</sub> : 131460 <b>2<sup>nd</sup> year:</b>	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :1.25 T <sub>2</sub> :2.14 <b>2<sup>nd</sup> year:</b>

		T <sub>1</sub> :145.50 Qt T <sub>2</sub> :180.00 Qt <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :157.50 Qt T <sub>2</sub> :188.00 Qt		T <sub>1</sub> : 23760 T <sub>2</sub> : 59700 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 67700 T <sub>2</sub> : 35760	T <sub>1</sub> :1.19 T <sub>2</sub> :1.49 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 1.56 T <sub>2</sub> : 1.29
T <sub>1</sub> : Farmers practice T <sub>2</sub> : Spray of <i>Pseudomonas</i> sp. @ 60ml/10litre of water T <sub>3</sub> : Seed treatment <i>Trichoderma harzianum</i> @5 g/kg seed	NAU, Navsari (2011-12)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :9.75 Qt T <sub>2</sub> :13.90 Qt T <sub>3</sub> :13.65 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 8.41 Qt T <sub>2</sub> : 10.31 Qt T <sub>3</sub> : 9.98 Qt <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :10.09 Qt T <sub>2</sub> :14.11 Qt T <sub>3</sub> :13.20 Qt	Qt/ha	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :10241 T <sub>2</sub> :19529 T <sub>3</sub> :15706 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> :15255 T <sub>2</sub> :19930 T <sub>3</sub> :18965 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 20280 T <sub>2</sub> : 31350 T <sub>3</sub> : 28625	<b>1<sup>st</sup> year :</b> T <sub>1</sub> : 2.08 T <sub>2</sub> : 2.94 T <sub>3</sub> :2.55 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> :2.52 T <sub>2</sub> :2.8 T <sub>3</sub> :2.72 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 3.02 T <sub>2</sub> : 3.85 T <sub>3</sub> : 3.60
T <sub>1</sub> : Farmers practice T <sub>2</sub> : Seed treatment with <i>Trichoderma viride</i> @ 5 g/kg of seed	NAU, Navsari (2010)	<b>1<sup>st</sup> year:</b> T <sub>1</sub> : 9.25 Qt T <sub>2</sub> : 10.58 Qt <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 9.26 Qt T <sub>2</sub> : 10.50 Qt <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :9.41 Qt T <sub>2</sub> :11.63 Qt	Qt/ha	<b>1<sup>st</sup> year:</b> T <sub>1</sub> : 1125 T <sub>2</sub> : 3250 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> : 21,997 T <sub>2</sub> : 30,111 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 28345 T <sub>2</sub> : 37350	<b>1<sup>st</sup> year:</b> T <sub>1</sub> :1.03 T <sub>2</sub> :1.09 <b>2<sup>nd</sup> year:</b> T <sub>1</sub> :2.62 T <sub>2</sub> :3.09 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 3.02 T <sub>2</sub> : 3.49
T <sub>1</sub> : Framer's practice (n=10) T <sub>2</sub> : Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) (n=10) T <sub>3</sub> : Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) + Concentrate feeding @ 1% body weight (n=10)	NAU, Navsari (2011)	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :60.3 kg/calf T <sub>2</sub> :61.2 kg/calf T <sub>3</sub> :62.1 kg/calf <b>2<sup>nd</sup> year :</b> T <sub>1</sub> :61.9 kg/calf T <sub>2</sub> :63.8 kg/calf T <sub>3</sub> :65.7kg/calf <b>3<sup>rd</sup> year:</b> T <sub>1</sub> :62.8 kg/calf T <sub>2</sub> :65.4 kg/calf T <sub>3</sub> :67.6 kg/calf	Kg/Calf	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :1200 T <sub>2</sub> :1800 T <sub>3</sub> : 2200 <b>2<sup>nd</sup> year</b> T <sub>1</sub> : 2200 T <sub>2</sub> : 1800 T <sub>3</sub> : 1200 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 1200 T <sub>2</sub> : 1900 T <sub>3</sub> : 2200	<b>1<sup>st</sup> year :</b> T <sub>1</sub> :1.50 T <sub>2</sub> :1.69 T <sub>3</sub> :1.78 <b>2<sup>nd</sup> year :</b> T <sub>1</sub> :1.36 T <sub>2</sub> : 1.46 T <sub>3</sub> : 1.51 <b>3<sup>rd</sup> year:</b> T <sub>1</sub> : 1.5 T <sub>2</sub> : 1.73 T <sub>3</sub> : 1.78

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

### OFT: 1

**Title:** Spacing management in pigeon pea

**Problem Definition:** In Dangs district, productivity of pigeon pea is low because of improper cultivation of land and random sowing method followed by farmers. Due to this severe wilt problem in seedlings and weed problems which ultimately affect the growth and yield of pigeon pea. Pigeon pea requires well cultivated land and specific spacing for its growth and development. Improper cultivation with random sowing reduces the plant population and ultimately it's reducing the crop yield.

**Details of technologies selected for assessment:**

**Treatment:**

T<sub>1</sub>: Farmers Practices (Random sowing)

T<sub>2</sub>: 45 x 15 cm

T<sub>3</sub>: 60 x 20 cm

**Input:** Seed, Novel organic fertilizer, *Rhizobium*

**Source of technology:** Pulse Research Station, NAU, Navsari (2016)

**Production system and thematic area:** Rainfed & ICM

**Performance of the technology with performance indicators:**

Sr. No.	Year	No of trial	Area (ha)	Yield(Q/ha)		
				T <sub>1</sub> Farmer practices (Random sowing)	T <sub>2</sub> 45 x 15 cm (Recommended)	T <sub>3</sub> 60 x 20 cm (Recommended)
1.	2019-20	10	1	9.13	10.56	11.82
2.	2020-21	10	1	9.47	10.97	12.10

**Farmers Feedback, matrix scoring of various technology parameters done through farmer's participation/ other scoring techniques:**

**Farmers Feedback**

1. Farmers are impressed by recommended practices.
2. It is easy for farmers to remove weed in 60 cm x 20 cm sowing of pigeon pea rather than farmer practices.
3. Higher yield in recommended practices due to easy weeding and less competition of nutrients and fertilizer between plants.

**Final recommendation for micro level situation:**

On the basis of average data, treatment T<sub>3</sub> (60 x 20 cm) gave 12.10 Q/ha yield as compared with T<sub>1</sub> i.e. farmer practices (9.47 Q/ha) with net return (Rs. 48400) having 2.42 BC Ratio.

**Constraints identified and feedback for research:** Nil

**Process of farmer's participation and their reaction:**

1. Field day, Method demonstration, OFT visit *etc.*
2. Farmers are ready to adopt this technology

## OFT:2

### Title: Varietal assessment of Tomato in the Dangs

**Problem definition:** Low yield of Farmers adopted hybrid variety (due to lack of knowledge about proper scientific cultivation method)

**Details of Technologies selected for assessment:** In the Dangs district, mostly hybrid variety of tomato (private company) is grown with low yield potential due to lack of knowledge about proper seedling preparation and lack of knowledge about new released variety of State Agricultural Universities and Government Institutions. Tomato variety GT-7 (280.0 q/ha) performed well under South, Middle and North Gujarat regions. This variety showed less damage by fruit borer, whitefly as well as leaf miner. Tomato variety “Arka Rakshak” is a First F1 hybrid with triple disease resistance to Tomato Leaf Curl Virus, Bacterial Wilt and Early blight. Fruits square round, large (90-100g), deep red colored and firm. Suitable for fresh market and processing. So OFT has been framed for comparing farmer adopted private company variety to “GT 7” and “Arka Rakshak” variety.

#### Treatment:

T<sub>1</sub>: Farmers practices (Hybrid varietie-vaishali)

T<sub>2</sub>: Gujarat Tomato 7

T<sub>3</sub>: Arka Rakshak

**Source of Technology:** IIHR , Banglore and Navsari Agricultural University, Navsari

**Production system and thematic area:** irrigated & varietal Assessment

#### Performance of the Technology with performance indicators:

Sr. No.	Year	No of trial	Area (ha)	Yield (Q/ha)		
				T <sub>1</sub> : Farmers practices (Hybrid varietie-vaishali)	T <sub>2</sub> : Gujarat Tomato 7	T <sub>3</sub> : Arka Rakshak
1.	2019-20	10	0.6	308.00	224.00	467.00
2.	2020-21	10	0.6	298.00	200.00	455.00

**Feedback, matrix scoring of various technology parameters done through farmer’s participation/ other scoring Technique:** - Arka rakshak gave higher yield than farmer’s practices

**Final recommendation for micro level situation:** On the basis of average data, treatment T<sub>3</sub> (Arka Rakshak) gave 455 Q/ha yield as compared with T<sub>1</sub> i.e. farmer practices (298.00 Q/ha) with net return (Rs. 156800) having 3.23 BC Ratio. (Note : An observation could not be possibal on farmers field)

**Constrains identified and feedback for research:** Water scarcity

#### Process of farmer’s participation and their action:

1. Field day, Method demonstration, OFT visit *etc.*
2. Farmers are ready to adopt this technology

### OFT: 3

#### Title: Possibilities of Potato cultivation in The Dangs district (Assessment)

**Problem definition:** Possibilities of Potato cultivation in The Dangs district

**Details of Technologies selected for assessment:** In Dang district, chickpea is commonly grown in winter crops. Considering the soil of Dang district and as per the suggestion of Scientific Advisory Committee, it is possible to cultivate potato in Dangs district. This on-farm trial is designed to test potato cultivation in the Dangs district. According to the agriculture department of Dangs district, the chickpea crop in Dangs district yields about 2.5 quintals. The estimated production of potato(Var. Kufri badshah) is 50 tons per hectare

**Treatment:** T1: Farmers practices (Gram)

T2: Potato crop( Kufri Badshah)

**Source of Technology:** Central Potato Research station , Kufri Himachal Pradesh (1980)

**Production system and thematic area:** irrigated & varietal Assessment

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

Sr. No.	Year	No of trial	Area (ha)	Yield (Q/ha)	
				T1: Farmers practices (Gram)	T2: Potato crop( Kufri Badshah)
1.	2021	06	0.2	Result awaited	

**Feedback, matrix scoring of various technology parameters done through farmer's participation/ other scoring Technique:**

**Final recommendation for micro level situation:**

## OFT: 4

**Title:** Management of Fruit & Shoot borer of Okra

**Problem definition:** Low yield of Okra & High mortality due to Pest damage

**Details of Technologies selected for assessment:** Okra (*Abelmoschus esculentus*) is a vegetable crop widely grown during Kharif / Rabi season in Dangs district. Day by day increasing the area of Okra in this district gives comparatively lower yield. Large number of hybrid available in the market but cost of seeds as well as higher incidence of pest affect yield. Assessment of such public variety in Dangs district for best performance for growth, yield and quality character for avoid these problem OFT is taken.

**Treatment:** T<sub>1</sub>: Farmers practice

T<sub>2</sub>: Installation of Pheromone trap

T<sub>3</sub> : Spray Azadirachtin (Neem oil based) 300ppm/1500 ppm

**Source of Technology:** NAU, Navsari (2001)

**Production system and thematic area:** irrigated & varietal Assessment

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

Sr. No.	Year	No of trial	Area (ha)	Yield (Q/ha)		
				T <sub>1</sub> : Farmers practice	T <sub>2</sub> : Installation of heromone trap	T <sub>3</sub> : Spray Azadirachtin (Neem oil based) 300ppm/1500 ppm
1.	2021	06	3.6	Result awaited		

**Feedback, matrix scoring of various technology parameters done through farmer's participation/ other scoring Technique:**

**Final recommendation for micro level situation:**

## OFT: 5

**Title:** Use of Chelated minerals in the diet of crossbred HF cows

**Problem definition:** Low milk production due to mineral imbalance & parasitic infestation

**Details of Technologies selected for assessment:** Parasitic load and mineral imbalance are known to directly affect the milk production to cattle. The Dangs district is a hilly area with heavy rainfall. Animal lining in such area became prone to parasitic infection due to ingestion of infected grasses around stagnant water while grazing. A few years ago, people were using local breeds & traditional husbandry practices, but now a days they are rearing crossbred cows. These valuable animals are highly productive but due to particular geographical location such animals become infected with parasites which directly affects the milk production.

Moreover, in spite of high rain, there is water scarcity during summer season due to particular geographical condition. So, green fodder is not available during summer, hence these animals undergo mineral imbalance & improper feeding. The socio- economic status of farmers is not very good so, they could not feed their animals with mineral supplements. Such animals undergo negative energy balance due to malnutrition & high milk yield whatever the green grass these animals are grazing is surrounded by stagnant water & hence become infected by parasites. So, to overcome these problems of parasitic infestation & mineral imbalance we have identified following problems in proposed on farm testing programme.

**Treatment:** T 1- Farmer's practice – feeding of locally available feeds and fodders

T 2- T1 + Chelated minerals @ 30 gm/cow/day for 120 days

T3- T1 + Chelated minerals @ 30 gm/cow/day for 120 days + Bol. Fenbendazol @ 5-7.5 / kg body weight

**Source of Technology:** NDRI, Karnal

**Production system and thematic area:** Feeding management

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

Sr. No.	Year	No of trial	Area (ha)	Yield (Q/ha)		
				T 1- Farmer's practice – feeding of locally available feeds and fodders	T 2- T1 + Chelated minerals @ 30 gm/cow/day for 120 days	T3- T1 + Chelated minerals @ 30 gm/cow/day for 120 days + Bol. Fenbendazol @ 5-7.5 / kg body weight
1.	2020-21	10	10	Result awaited		

**Feedback, matrix scoring of various technology parameters done through farmer's participation/ other scoring Technique:**

**Final recommendation for micro level situation:**



## OFT: 6

### Title: Sowing method in finger millet

**Problem Definition:** Finger millet is a main staple food for tribal farmers of Dangs district and also it emerging as a important nutritive cereal crop due to its high nutrient content. In Dangs district, finger millet is normally grown on poor and marginal soils. Finger millet requires healthy seedlings and specific spacing for its growth and development. Most of the farmers followed random throwing of seedlings which reduce the number of productive tillers and ultimately its reduce the crop yield.

### Details of technologies selected for assessment:

#### Treatment:

T<sub>1</sub>: Farmers Practices (Random throwing)

T<sub>2</sub>: 30 x 10 cm

T<sub>3</sub>: 22.5 x 7.5 cm

**Input:** Seed, Novel organic fertilizer, PSB and *Azotobacter*

**Source of technology:** HMRS, NAU, Waghai

**Production system and thematic area:** Rainfed & ICM

### Performance of the technology with performance indicators:

Sr. No.	Year	No. of trial	Area (ha)	Yield(Q/ha)		
				T <sub>1</sub> Farmer practices (Random throwing)	T <sub>2</sub> 30 x10 cm (Recommended)	T <sub>3</sub> 22.5 X 7.5 cm (Recommended)
1.	2019-20	10	1.0	10.06	12.18	14.10
2.	2020-21	10	1.0	9.45	11.94	13.20
3.	2021	10	1.0	10.95	13.74	15.30

### Farmers Feedback, matrix scoring of various technology parameters done through farmer's participation/ other scoring techniques:

#### Farmers Feedback

1. Farmers are impressed by recommended practices.
2. It is easy for farmers to remove weed in 22.5 x 7.5 cm sowing of Finger millet rather than farmer practices.
3. Higher yield in recommended practices due to easy weeding and less competition of nutrients and fertilizer between plants.

#### Final recommendation for micro level situation:

On the basis of three years average data, treatment T3 (22.5 x 7.5 cm) gave 15.30 Q/ha yield as compared with T1 i.e. farmer practices (10.95 Q/ha) with net return (Rs. 42840) having 3.57 BC Ratio.

#### Constraints identified and feedback for research: Nil

#### Process of farmer's participation and their reaction:

1. Field day, Method demonstration, OFT visit etc.
2. Farmers are ready to adopt this technology.

## OFT: 7

### Title: Varietal assessment of Turmeric during *Kharif* season in the Dangs Problem Definition

**Problem Definition:** Poverty, low yield, traditional farming practices, No plant protection measures due to lack of knowledge, High incidence of rhizome rot

#### Details of technologies selected for assessment

Turmeric (*Curcuma longa* L) is one of the most valuable and important spices all over the world, belongs to the family Zingiberaceae. It is an important spices crop grown in certain pockets of the Dangs district especially during *Kharif* season due to which farmers gets better returns. In the Dangs, it is grown in an about 235 ha area and production is about 5405 M.T (Annual Progress report, 2016-17). In Dangs mostly Salem variety of Turmeric is grown with low yield potential of 130 to 140 q/ha , so the OFT has been framed for comparing “Gujarat Navsari Turmeric 1” variety which is having average yield potential of 230 to 330 q/ha.

**Treatment:** T<sub>1</sub>: Farmers practices (Salem variety)

T<sub>2</sub>: Gujarat Navsari Turmeric 1

**Source of Technology:** NAU, Navsari (2016)

**Production system and thematic area:** irrigated & varietal evaluation

#### Performance of the Technology with performance indicators:

Sr. No.	Year	No of trial	Area (ha)	Yield(Q/ha)	
				T <sub>1</sub> : Farmers practices (Salem Variety)	T <sub>2</sub> : Gujarat Navsari Turmeric -1
1.	2018-19	10	2	135.1	189.2
2.	2019-20	10	0.72	145.50	180.00
3.	2020-21	10	0.72	157.50	188.00

**Feedback, matrix scoring of various technology parameters done through farmer's participation/ other scoring Technique:** GNT 1 variety give higher production then local variety

**Final recommendation for micro level situation:** On the basis of average data, treatment T<sub>2</sub> (GNT 1) gave 188 q/ha yield as compared with T<sub>1</sub> i.e. farmer practices (157.50 Q/ha) with net return (Rs. 35760) having 1.29 BC Ratio.

**Constraints identified and feedback for research:** Nil

#### Process of farmer's participation and their action:

1. Field day, Method demonstration, OFT visit *etc.*
2. Farmers are ready to adopt this technology.

**Conclusion:** On the basis of the study carried out for three consecutive years it is summarized that T<sub>2</sub> – recorded the highest yield in comparison to T<sub>1</sub> However yield with T<sub>2</sub> was comparatively higher than T<sub>1</sub>. So it is concluded that T<sub>2</sub> : Gujarat Navsari Turmeric 1 proved the best practices in tribal area of Dangs.

## OFT: 8

**Title: Control of blast disease of Finger millet in the Dangs**

**Problem Definition:** Low yield of Finger millet

**Details of technologies selected for assessment:**

Finger millet (*Eleusine corcana*) is a cereal crop widely grown during *Kharif* season in Dangs district. Locally it is known as Nagli or Ragi. Finger millet is infected by blast disease. Occasional outbreak of this disease causing losses to farmer.

### Treatment

T<sub>1</sub>: Farmers practice

T<sub>2</sub>: Spray of *Pseudomonas* sp. @ 60 ml/10litre of water

T<sub>3</sub>: Seed treatment *Trichoderma harzianum*@5 g/kg seed

**Source of technology:** NAU, Navsari (2011-12)

**Production system and thematic area:** Rainfed & Integrated Disease Management

**Performance of the Technology with performance indicators**

Sr. No.	Year	No of trial	Area (ha)	Yield (Q/ha)		
				Farmers practice	Spray of <i>Pseudomonas</i> sp.@60ml/10litre of water	Seed treatment <i>Trichoderma harzianum</i> @5 g/kg seed
1.	<i>Kharif</i> -2019	06	3.6	9.75	13.90	13.65
2.	<i>Kharif</i> -2020	06	3.6	8.41	10.31	9.98
3.	<i>Kharif</i> -2021	06	3.6	10.09	14.11	13.20

**Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:** Need high yielding blast disease resistant variety

### Final recommendation for micro level situation

From the above table, treatment T<sub>2</sub> (Spray of *Pseudomonas* sp.@ 60ml/10litre of water) in finger millet recorded highest average yield (14.11 q/ha) than treatment T<sub>1</sub> (farmers practices) with net return (Rs. 31350/-) having 3.85 BC Ratio.

**Constraints identified and feedback for research:** Nil

**Process of farmer's participation and their reaction:** Field day, Method demonstration, OFT visit *etc.*

**Conclusion :** The on farm trail conducted in village of dangs district resulted treatment T<sub>2</sub> – (spray of *pseudomonas* sp. @60 ml/10 liter of water) in finger millet showed highest yield production as compared to treatment T<sub>1</sub> & T<sub>3</sub>.

## OFT: 9

### Title: Control of wilt in gram

**Problem Definition:** Low yield of Gram and high mortality after germination

**Details of technologies selected for assessment:**

Gram is a pulse crop grown during *Rabi* season in Dangs district. Gram is infected by wilt, sclerotium rot disease causing occasional outbreak and economical loss to farmers. In view of losses caused by wilt disease in Dangs, we proposed the OFT to reduce disease incidence and increase yield.

**Treatment**

T<sub>1</sub>: Farmers practice

T<sub>2</sub>: Seed Treatment of *Trichoderma viride* @ 5 g/kg of seed

**Source of technology:** NAU, Navsari (2010)

**Production system and thematic area:** Rainfed & Integrated Disease Management

**Performance of the Technology with performance indicators**

Sr. No.	Year	No of trial	Area (ha)	Yield (Q/ha)	
				Farmers practice	Seed Treatment with <i>Trichoderma viride</i> @ 5 g/kg of seed
1.	<i>Rabi</i> -2019	6	2.4	9.25	10.58
2.	<i>Rabi</i> -2020	6	2.4	9.26	10.50
3.	<i>Rabi</i> -2021	6	2.4	9.41	11.63

**Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:** Good Quality & uniformity of product

**Final recommendation for micro level situation**

From the above table, treatment T<sub>2</sub> (*Trichoderma viride* @ 5 g/kg of seed) in gram recorded highest average yield (11.63 q/ha) than treatment T<sub>1</sub> (farmers practices) with net return (Rs. 37350/-) having 3.49 BC Ratio.

**Constraints identified and feedback for research:** Nil

**Process of farmer's participation and their reaction:** Field day, Method demonstration, OFT visit *etc*

**Conclusion :** The on farm trail conducted 'Control of wilt in gram' conducted in village of Dangs district resulted treatment T<sub>2</sub> Seed Treatment of *Trichoderma viride* @ 5 g/kg of seed showed highest yield production as compared to treatment T<sub>1</sub> Farmer Practices.

## OFT: 10

**Title: - Effect of supplementing mineral mixture and concentrate on body growth performance in calves.**

### **Problem Definition:**

Lack of knowledge about mineral mixture and concentrate feeding technology & Lower body growth due to improper feeding.

### **Details of technologies selected for assessment:**

Milk production is growing at a much faster pace compared to many other agricultural commodities and is being increasingly viewed as a source of food and an effective instrument for improving livelihood. Major share of milk produced in India is by small and marginal farmers with mixed crop-livestock production system as the dominant system. Increasing demand for milk offers possibility of scope to improve their income. Dairy production is mainly based on proper scientific feeding of animals. The growing calves are to be fed with good quality roughages with green fodder belonging to legumes or cereals as per the availability. Looking to the productivity of crossbred cattle such food resources are not sufficient to meet the nutrient requirement of growing calves. Hence we have to add more nutritious food in to the diet of such animals to reach the maximum body growth and to maintain the normal body condition. Concentrate feeding is very common to overcome nutrient deficit. Which we can only fed on a dry matter basis, as it is not a natural food for ruminants. Now a day, mineral mixture feeding technology is recommended for cattle. Dangs district of Gujarat is a heavy rainfall area having about 10,000 crossbred cattle population and still the figure is increasing very rapidly. The farmers in Dangs district are feeding mineral mixture and concentrate along with deworming to only lactating animals. The growing calves are the future of dairy industry of tomorrow. So, complete awareness regarding animal nutrition in the Dangs is necessary. The growing calves are to be regularly dewormed and fed with the 15 gm of mineral mixture supplementation along with the concentrate at the rate of 1% body weight on daily ration basis. Hence, we have proposed this on farm testing by our KVK to fulfill the nutritional demand of growing calves.

**Source of technology:** NAU, Navsari (2011)

**Production system and thematic area:** Feeding management

### **Details of technologies selected for assessment:**

#### **Treatments:**

T<sub>1</sub>: Farmer's practice (n=10)

T<sub>2</sub>: Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) (n=10)

T<sub>3</sub>: Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) + Concentrate feeding @ 1% body weight (n=10)

#### **Detail of OFT Programme :**

✓ No. of Villages : 5

✓ No. of animals : 30 (6 growing calves was selected from each village)

**Parameters to be evaluated/ recorded:** Body weight (kg)

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

**Result:****Table 8.1: Effect of supplementing mineral mixture and concentrate on body growth performance in calves (2018-19)**

Average Body Weight (Kg)	T <sub>1</sub> (n = 10)	T <sub>2</sub> (n = 10)	T <sub>3</sub> (n = 10)
First Month	17.5 kg	17.9 kg	18.6 kg
Second Month	23.7 kg	24.4 kg	25.5 kg
Third Month	33.5 kg	34.2 kg	34.9 kg
Forth Month	41.8 kg	42.7 kg	43.3 kg
Fifth Month	49.2 kg	50.3 kg	50.9 kg
Sixth Month	60.3 kg	61.2 kg	62.1 kg

**Table-8.2: Economic Impact**

Cost of cultivation (Rs)			Av. Gross return (Rs)			Av. Net return (Rs)			B:C		
D		LC	D		LC	D		LC	D		LC
T <sub>3</sub>	T <sub>2</sub>	T <sub>1</sub>	T <sub>3</sub>	T <sub>2</sub>	T <sub>1</sub>	T <sub>3</sub>	T <sub>2</sub>	T <sub>1</sub>	T <sub>3</sub>	T <sub>2</sub>	T <sub>1</sub>
2800	2600	2400	5000	4400	3600	2200	1800	1200	1.78	1.69	1.50

**2<sup>nd</sup> year result: (2019-20)**

Average Body Weight (Kg)	T <sub>1</sub> (n = 10)	T <sub>2</sub> (n = 10)	T <sub>3</sub> (n = 10)
First Month	18.4	19.3	20.6
Second Month	24.2	26.4	27.8
Third Month	33.9	35.7	36.9
Forth Month	42.1	43.8	45.4
Fifth Month	49.8	51.6	53.8
Sixth Month	61.9	63.8	65.7

**Table-8.3: Economic Impact**

Cost of cultivation (Rs)			Av. Gross return (Rs)			Av. Net return (Rs)			B:C		
D		LC	D		LC	D		LC	D		LC
T <sub>3</sub>	T <sub>2</sub>	T <sub>1</sub>	T <sub>3</sub>	T <sub>2</sub>	T <sub>1</sub>	T <sub>3</sub>	T <sub>2</sub>	T <sub>1</sub>	T <sub>3</sub>	T <sub>2</sub>	T <sub>1</sub>
2800	2600	2400	4900	4400	3700	2100	1800	1300	1.75	1.69	1.54

**Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:** Feeding of mineral mixture along with Concentrate feed resulted in to better body growth performance.

**Final recommendation for micro level situation:** T<sub>3</sub> treatment is best among T<sub>1</sub> and T<sub>2</sub>

**Constraints identified and feedback for research:** Nil

**Process of farmer's participation and their reaction:** Diagnostic visit, Method demonstration, OFT visit etc

**3rd year result:**

Average Body Weight (Kg)	T1 (n = 10)	T2 (n = 10)	T3 (n = 10)
First Month	18.7	19.8	20.8
Second Month	24.6	27.4	28.2
Third Month	34.9	35.8	36.8
Forth Month	43.1	45.6	46.8
Fifth Month	51.8	53.5	55.9
Sixth Month	62.8	65.4	67.6

**Table-8.4: Economic Impact**

Cost of cultivation (Rs)			Av. Gross return (Rs)			Av. Net return (Rs)			B:C		
D		LC	D		LC	D		LC	D		LC
T3	T2	T1	T3	T2	T1	T3	T2	T1	T3	T2	T1
2800	2600	2400	5000	4500	3600	2200	1900	1200	1.78	1.73	1.5

**Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:** Feeding of mineral mixture along with Concentrate feed resulted in to better body growth performance.

**Conclusion:**

On the basis of the study carried out for three consecutive years it is summarized that T3 – recorded the better body growth performance in comparison to T1 & T2, However the body weight gain with T2 was comparatively higher than T1. So it is concluded that T3 : Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) + Concentrate feeding @ 1% body weight proved the best husbandry practices in tribal area of Dangs.

**Final recommendation for micro level situation:** T3 treatment is best among T1 and T2

**Constraints identified and feedback for research:** Nil

**Process of farmer's participation and their reaction:** Diagnostic visit, Method demonstration, OFT visit etc



### 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.	Gram	ICM	GG 5	FLD, Training, Field Days, Farmers meeting, Exposur visit to KVK farm, Mass media	1	25	05
2.	Pigeon pea	ICM	GNP 2		5	25	05
3.	Paddy	ICM	GNR 6		3	25	05
4.	Finger millet	ICM	GNN 8		3	25	05
5.	Little millet	ICM	GV 3		7	25	05
6.	Bottle gourd	ICM	GABH 1		1	10	0.66
7.	Mango	ICM	Sonpari		2	20	1.0
8.	Okara	IPM	<i>Azadirachtin</i>		1	5	01
9.	Mango	IPM	Fruit fly trap		1	5	01
10.	Finger millet	IDM	<i>Pseudimonas fluroscence</i>		3	25	2.5
11.	Paddy	IPM	Pheromone trap		4	25	05

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	
<b>Pulse crops</b>										
1.	Pigeon pea	ICM	New variety	<i>Rabi 2020-21</i>	5	5	25	0	25	-
2.	Gram	ICM	New variety	<i>Rabi 2020-21</i>	5	5	25	0	25	-
<b>Other crops</b>										
3.	Paddy	ICM	New variety	<i>Kharif 2021</i>	5	5	25	0	25	-
4.	Finger millet	ICM	New variety	<i>Kharif 2021</i>	5	5	25	0	25	-

5.	Little millet	ICM	New variety	<i>Kharif</i> 2021	5	5	25	0	25	-
6.	Nutri cereal crop (Little millet)	INM	New variety	<i>Kharif</i> 2021	1	1	10	0	10	
<b>Horticultural pulse crops (2020-21)</b>										
7.	Indian bean	ICM	New variety	<i>Rabi</i> 2020-21	2.5	2.5	25	0	25	-
<b>Horticultural other crops (2020-21)</b>										
8.	Aloevera	ICM	New variety	<i>Rabi</i> 2020-21	0.1	0.1	10	0	10	-
9.	Mango	ICM	New variety	<i>Rabi</i> 2020-21	1.0	1.0	20	0	20	
<b>Plant Protection (2020-21)</b>										
10.	Gram	IDM	<i>Trichoderma</i>	<i>Rabi</i> 2020-21	5	5	25	0	25	
11.	Cucurbitaceous crop	IPM	Cue Lure trap	<i>Rabi</i> 2020-21	2	2	20	0	20	-
12.	Okra	IPM	Pheromone trap & Yellow sticky trap	<i>Rabi</i> 2020-21	5	5	25	0	25	-
<b>Plant Protection (2020-21)</b>										
13.	Paddy	IPM	Pheromone trap	<i>Kharif</i> 2021	5	5	25	0	25	-
<b>Livestock</b>										
14.	Sorghum	Fodder management	Introduction of new variety of Fodder Sorghum “CSV 21 F”	<i>Rabi</i> 2020-21	20 No. of Units	20 No. of Units	20	0	20	-
15.	Bypass fat	Nutrition management	Bypass fat	<i>Rabi</i> 2020-21	30 No. of Units	30 No. of Units	30	0	30	-
16.	Mineral mixture	Nutrition management	Mineral mixture	<i>Rabi</i> 2020-21	30 No. of Units	30 No. of Units	30	0	30	-
17.	Sorghum	Fodder management	New variety GSF 5	<i>Kharif</i> 2021	20 No. of Units	20 No. of Units	20	0	20	-
<b>FLD on Other Enterprise</b>										
18.	Plant Protection	Mushroom production	Oyster mushroom cultivation	<i>Rabi</i> 2021	30 No. of Units	30 No. of Units	30	0	30	-
19.	Home science	Nutrition garden- <i>kharif</i>	Organic kitchen garden	<i>Rabi</i> 2021	35 No. of Units	35 No. of Units	35	0	35	-
20.	Home science	Nutrition garden- <i>Rabi</i>	Organic kitchen garden	<i>Rabi</i> 2021	25 No. of Units	25 No. of Units	25	0	25	-

21.	Home science	Nutrition garden-Rabi-Adaptive trial	Organic kitchen garden	Rabi 2021	30 No. of Units	30 No. of Units	30	0	30	-
<b>FLD under Other schemes (Other than KVK-ICAR): Adaptive Trial (Phase-II), CFLD-Pulses, Mega seed TSP</b>										
<b>Performance of Cluster Frontline Demonstrations (CFLD)</b>										
22.	Green gram	ICM	New variety	Rabi 2020-21	20	20	50	0	50	-
<b>Crop Production pulse crops</b>										
23.	Gram (Adaptive)	ICM	New variety	Rabi 2020-21	6	6	30	0	30	-
24.	Green gram (TSP)	ICM	New variety	Rabi 2020-21	2.5	2.5	15	0	15	-
<b>Horticultural crops</b>										
25.	Turmeric	ICM	New variety	Rabi 2020-21	0.16	0.16	8	0	8	-
<b>Other Enterprise</b>										
26.	Kitchen garden	Nutrition garden	Organic kitchen garden	Rabi 2021	40 No. of Units	40 No. of Units	40	0	40	-
<b>Livestock</b>										
27.	Bypass protein	Nutrition management	Bypass protein	Rabi 2020-21	30 No. of Units	30 No. of Units	30	0	30	-
28.	Mineral mixture	Nutrition management	Mineral mixture	Rabi 2020-21	30 No. of Units	30 No. of Units	30	0	30	-

## Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
<b>Pulse crops</b>											
Pigeon pea	Rabi 2020-21	Rain fed	Lateritic black Hilly	H	M	H	Gram	10-20/07/2020	05-20/02/2021	108	7
Gram	Rabi 2020-21	Rain fed	Lateritic black Hilly	H	M	H	Paddy	15-25/11/2020	20-28/02/2021	0	0
<b>Other crops</b>											
Paddy	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Green gram	15-25/07/2021	01-10/11/2021	366	9
Finger millet	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Gram	25-31/07/2021	05-20/11/2021	268	9
Little millet	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Paddy	25-31/07/2021	05-20/11/2021	268	9
Nutri cereal crop (Little millet)	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Paddy	25-31/07/2021	05-20/11/2021	268	9
<b>Horticultural pulse crops (2020-21)</b>											
Indian bean	Rabi 2020-21	Irrigated	Lateritic black Hilly	H	M	H	Finger millet	15-25/10/2020	20-31/01/2021	30	1
<b>Horticultural other crops (2020-21)</b>											
Aloevera	Rabi 2020	Irrigated	Lateritic black Hilly	H	M	H	Turmeric	-	-	-	-
Mango	Rabi 2020	Irrigated	Lateritic black Hilly	H	M	H	Mango	-	-	-	-
<b>Plant Protection (2020-21)</b>											
Gram	Rabi 2020-21	Rain fed	Lateritic black Hilly	H	M	H	Paddy	15-25/11/2020	20-28/02/2021	0	0
Cucurbitacious crop	Rabi 2020-21	Irrigated	Lateritic black Hilly	H	M	H	Little millet	15-30/10/2020	15-30/03/2021	30	1
Okra	Rabi 2020-21	Irrigated	Lateritic black Hilly	H	M	H	Gram	15-25/10/2020	15-25/02/2021	30	1
<b>Plant Protection (2020-21)</b>											
Paddy	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Gram	15-25/07/2021	01-10/11/2021	366	9

<b>Livestock</b>											
Sorghum	<i>Rabi</i> 2020-21	Rain fed	Lateritic black Hilly	H	M	H	-	02/07/2020	15-20/12/2020	1461	51
Sorghum	<i>Kharif</i> 2021	Rain fed	Lateritic black Hilly	H	M	H	-	11/06/2021	01/11/2021	1462	54
<b>FLD on Other Enterprise</b>											
Mushroom production	<i>Rabi</i> 2021	Irrigated	Lateritic black Hilly	H	M	H	Mushroom	-	-	-	-
Nutrition garden- <i>kharif</i>	<i>Rabi</i> 2021	Irrigated	Lateritic black Hilly	H	M	H	-	-	-	-	-
Nutrition garden- <i>Rabi</i>	<i>Rabi</i> 2021	Irrigated	Lateritic black Hilly	H	M	H	-	-	-	-	-
Nutrition garden- <i>Rabi</i> -Adaptive trial	<i>Rabi</i> 2021	Irrigated	Lateritic black Hilly	H	M	H	-	-	-	-	-
<b>FLD under Other schemes (Other than KVK-ICAR): Adaptive Trial (Phase-II), CFLD-Pulses, Mega seed TSP</b>											
<b>Performance of Cluster Frontline Demonstrations (CFLD)</b>											
Green gram	<i>Rabi</i> 2020-21	Rain fed	Lateritic black Hilly	H	M	H	Paddy	15-28/02/2021	15-29/06/2021	237.5	11
<b>Crop Production pulse crops</b>											
Gram (Adaptive)	<i>Rabi</i> 2020	Rain fed	Lateritic black Hilly	H	M	H	Finger millet	15-25/11/2020	20-28/02/2021	0	0
Green gram (TSP)	<i>Rabi</i> 2020	Rain fed	Lateritic black Hilly	H	M	H	Little millet	15-28/02/2021	15-29/06/2021	237.5	11
<b>Horticultural crops</b>											
Turmeric	<i>Rabi</i> 2020-21	Irrigated	Lateritic black Hilly	H	M	H	Brinjal	01-15/07/2020	15-25/03/2021	73.0	6
<b>Other Enterprise</b>											
Kitchen garden	<i>Rabi</i> 2021	Irrigated	Lateritic black Hilly	H	M	H	-	-	-	-	-

### Technical Feedback on the demonstrated technologies

Sr. No.	Feed Back
1.	GNN 8 variety of finger millet was not suitable for Dangs due to early maturity.
2.	Standardization of method of preparation of Jeevamrut and their application.
3.	Need to develop government sector hybrid variety of bittergourd.
4.	Need to develop early variety in the turmeric for the Dangs district.
5.	Need marketing channel for oyster mushroom.
6.	Mushroom cultivation can be adopted as source of income with agriculture as simple production technology.
7.	Measures must be taken for conservation of local Dangi cattle breed as there is meager number of animals available in its own breeding track of Dangi cattle.
8.	To develop area specific mineral mixture for Dangs district.
9.	Research should be carried out on natural farming.
10.	Appoint one forest SMS for large scale awareness about crop cultivation in forest areas.

### Farmers' reactions on specific technologies

Sr. No.	Feed Back
1.	Farmers want seeds of indigenous varieties of paddy.
2.	GR 17 variety of paddy was given higher and quality production than local.
3.	GT 104 variety of pigeonpea suitable for Vegetable purpose.
4.	Need to develop government sector hybrid variety of okra suitable for Dangs district.
5.	Research on Government sector variety for safed musli for dangs district.
6.	Need organic pesticides pheromone trap and yellow sticky trap from NAU, Navsari.
7.	Fresh mushroom available-for their own consumption.
8.	Feeding area specific mineral mixture along with timely deworming resulted in to better body growth rate.
9.	Feeding bypass fat along with mineral mixture in cross breed cattle resulted increase milk production and better health.
10.	Fil up the vacant post home science.

### Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	5	11-06-2021, 09-08-2021, 04-09-2021, 27-09-2021, 29-12-2021	113	No any
2	Farmers Training	57	From different date of the year	1591	No any
3	Media coverage	26	From different date of the year	--	No any
4	Training for extension functionaries	5	12-08-2021, 12-08-2021, 12-08-2021, 26-08-2021, 04-10-2021	160	No any

## C. Performance of Frontline demonstrations

### Frontline demonstration on pulse crops (*Rabi*, Summer-2020)

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										
<b>Crop Production</b>																		
Pigeon pea	ICM	New variety	GT 105	25	5	15.02	12.45	13.64	10.54	29.32	20000	54520	34520	2.73	18000	42160	24160	2.34
Gram	ICM	New variety	GG 5	25	5	11.90	10.50	11.34	8.40	35.00	16000	52808	36808	3.30	13800	38640	24840	2.80

\* 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 (*Kharif* 2021)

Category & Crop	Thematic Area	Name of the technology	Variety/ Input	No. of Farmers	Area (ha)	Yield (q/ha)				% Change 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)
						H	L	Av.										
<b>Crop Production</b>																		
Paddy	ICM	New variety	GR 17	25	5	33.40	30.05	32.13	26.84	19.71	20000	57834	37834	2.89	25000	48312	23312	1.93
Finger millet	ICM	New variety	GNN 6	25	5	15.05	13.65	14.44	10.67	35.33	12000	43320	31320	3.61	10000	29876	19876	2.99
Little millet	ICM	New variety	GV 3	25	5	13.50	12.35	13.02	9.72	33.95	10000	37758	27758	3.78	8000	24300	16300	3.04
<b>Horticultural pulse crops (2020-21)</b>																		
Indian bean	ICM	New variety	GNIB 22	25	2.5	42	35	36.64	26.44	38.98	41320	109920	68600	2.66	44040	97828	53788	2.22
<b>Horticultural other crops (2020-21)</b>																		
Aloevera	ICM	New variety	INGR 13043	10	0.1	407000 Nos. Daughter plant	296000 Nos. Daughter plant	344100 Nos. Daughter plant	-	-	355000	688200	333200	1.93	-	-	-	-
Mango	ICM	New variety	Kesar	20	1.0	Survival rate of graft on farmers field is 80-85 %												
<b>Plant Protection (2020-21)</b>																		
Gram	IDM	<i>Trichoderma</i>	Local varieties	25	5	11.6	10.5	11.16	9.27	20.46	15000	50252.4	35252.4	3.5	14000	41727.6	27727.6	2.98
Cucurbitaceous	IPM	Cue Lure	Local	20	2	91	87	88.4	69.85	26.61	50000	185640	135640	3.71	48560	146685	98125	3.02

Category & Crop	Thematic Area	Name of the technology	Variety/ Input	No. of Farmers	Area (ha)	Yield (q/ha)				% Change 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)
						H	L	Av.										
crop		trap	varieties															
Okra	IPM	Pheromone trap & Yellow sticky trap	Local varieties	25	5	98	92	94.92	84.4	12.49	41000	175602	134602	4.28	39500	156140	116640	3.95
<b>Plant Protection (2021)</b>																		
Paddy	IPM	Pheromone trap	Mixed	25	5	30.5	27	28.3	26.10	8.77	27476	50940	23464	1.85	26346	46994	20648	1.78

\* 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 (Kharif 2021)

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										
<b>Crop Production</b>																		
Nutri cereal crop (Little millet)	INM	New variety	Local	10	1	12.40	9.60	10.79	7.65	41.05	10000	23738	13738	2.37	8000	16830	8830	2.10

### FLD on Livestock (Rabi, Summer-2020-21)

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters lit/cow/day		% change in major parameter	Other parameter		Economics of demonstration* (Rs.)				Economics of check (Rs.)				
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR** (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
<b>Dairy cow (KVK regular)</b>																		
1.	Fodder management	Introduction of new variety of Fodder Sorghum "CSV 21 F"	20	20	327 (q/ha)	270	21.11	-	-	26000	81750	55750	3.14	29000	67500	38500	2.32	
2.	Nutrition management	Bypass fat	30	30	9	7.5	20.00	-	-	4000	11150	7150	2.78	3350	8950	5600	2.67	
3.	Nutrition management	Mineral mixture	30	30	6.4	5.4	18.51	-	-	2300	5200	2900	2.26	2200	4500	2300	2.04	



4.	Fodder management	New variety- GSF-5	20	20	336 (q/ha)	280	20.00	-	-	25500	80000	54500	3.13	-	-	-	-
<b>Dairy cow (Adaptive trial)</b>																	
1.	Nutrition management	Bypass protein	30	30	8.2	7	17.14	-	-	4000	9800	5800	2.45	3350	8100	4750	2.41
2.	Nutrition management	Mineral mixture	30	30	6.3	5.5	14.54	-	-	2300	5400	3100	2.34	2200	4600	2400	2.09

\* 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 (Kharif, Rabi, Summer-2020-21)

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)
Plant Protection	Mushroom production	Oyster mushroom cultivation	30	30	10 Kg/ 1 Kg spawn	-	-	-	-	300	1600	1300	5.38
Home science	Nutrition garden- <i>kharif</i>	Organic kitchen garden	35	35	98.6	-	-	-	-	800	2370	1570	2.96
Home science	Nutrition garden- <i>Rabi</i>	Organic kitchen garden	25	25	96.9	25.00	287.60	--	--	680	2500	1820	3.67
Home science	Nutrition garden- <i>Rabi</i> - Adaptive trial	Organic kitchen garden	30	30	105.00	34.00	208.82	--	--	700	2400	1700	3.42

### Performance of Cluster Frontline Demonstrations (CFLD)- (Rabi, Summer-2020-21):CFLD on Pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
<b>Crop Production</b>																		
Green gram	ICM	New variety	GM 6	50	20	820	765	802	559	43.44	20000	57751	37751	2.89	16500	40262	23762	2.44

**FLDs under other schemes (Other than KVK-ICAR Budget-TSP, Adaptive trial, (Rabi, Summer-2020-21))**

Category & Crop	Thematic Area	Name of the technology	Variety	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Change in Yield	Economics of demonstration* (Rs./ha)			
						Demo					Gross Cost	Gross Return	Net Return	BCR** (R/C)
						High	Low	Ave.						
<b>Crop Production</b>														
<b>Oilseed</b>														
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Crop Production pulse crops</b>														
Gram (Adaptive)	ICM	New variety	GG 5	30	6	1225	1075	1163	854	36.18	16000	53498	37498	3.34
Green gram (TSP)	ICM	New variety	GM 6	15	2.25	828	734	778	523	48.81	20000	56046	36046	2.80
<b>Horticultural crops</b>														
Turmeric	ICM	New variety	GNT 2	08	0.16	240	190	216	176	22.95	97700	216000	118300	2.21

**FLD on Other Enterprise: (Kharif, Rabi, Summer-2021):**

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)
Kitchen garden	Nutrition garden	Organic kitchen garden	40	40	90	35	157.14	-	-	800	2800	2000	3.5

*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
<b>I Crop Production</b>										
Weed Management	2				16	72	88	16	72	88
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	4				106	16	122	106	16	122
Soil & water conservation										
Integrated nutrient management	6				87	106	193	87	106	193
Production of organic inputs	2				22	19	41	22	19	41
Others (pl. specify) Organic farming	3				65	46	111	65	46	111
<b>Total</b>	<b>17</b>				<b>296</b>	<b>259</b>	<b>555</b>	<b>296</b>	<b>259</b>	<b>555</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high value crops	3				87	4	91	87	4	91
Off-season vegetables	1				21	5	26	21	5	26
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)	10				236	220	456	236	220	456
<b>Total (a)</b>	<b>14</b>				<b>344</b>	<b>229</b>	<b>573</b>	<b>344</b>	<b>229</b>	<b>573</b>
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1				19	0	19	19	0	19
Management of young plants/orchards	1				13	19	32	13	19	32
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
<b>Total (b)</b>	<b>2</b>				<b>32</b>	<b>19</b>	<b>51</b>	<b>32</b>	<b>19</b>	<b>51</b>
<b>c) Ornamental Plants</b>										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
<b>Total (c)</b>										
<b>d) Plantation crops</b>										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
<b>Total (d)</b>										
<b>e) Tuber crops</b>										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
<b>Total (e)</b>										
<b>f) Spices</b>										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
<b>Total (f)</b>										
<b>g) Medicinal and Aromatic Plants</b>										

Nursery management	1				15	25	40	15	25	40
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
<b>Total (g)</b>	<b>1</b>				<b>15</b>	<b>25</b>	<b>40</b>	<b>15</b>	<b>25</b>	<b>40</b>
<b>Grand Total (a to g)</b>	<b>17</b>				<b>391</b>	<b>273</b>	<b>664</b>	<b>391</b>	<b>273</b>	<b>664</b>
<b>III Soil Health and Fertility Management</b>										
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)										
<b>Total</b>										
<b>IV Livestock Production and Management</b>										
Dairy Management	6				80	129	209	80	129	209
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	5				66	112	178	66	112	178
Disease Management	1				5	25	30	5	25	30
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)	3				95	31	126	95	31	126
<b>Total</b>	<b>15</b>				<b>246</b>	<b>297</b>	<b>543</b>	<b>246</b>	<b>297</b>	<b>543</b>
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	2				25	45	70	25	45	70
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	1				0	28	28	0	28	28
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)	1				0	35	35	0	35	35
<b>Total</b>	<b>4</b>				<b>25</b>	<b>108</b>	<b>133</b>	<b>25</b>	<b>108</b>	<b>133</b>
<b>VI Agril. Engineering</b>										
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) Farm mechanization	1				0	16	16	0	16	16
<b>Total</b>	<b>1</b>				<b>0</b>	<b>16</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>16</b>
<b>VII Plant Protection</b>										
Integrated Pest Management	3				55	43	98	55	43	98
Integrated Disease Management	6				126	75	201	126	75	201
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)	2				25	38	63	25	38	63
<b>Total</b>	<b>11</b>				<b>206</b>	<b>156</b>	<b>362</b>	<b>206</b>	<b>156</b>	<b>362</b>
<b>VIII Fisheries</b>										
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)										
<b>Total</b>										
<b>IX Production of Inputs at site</b>										
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)										
<b>Total</b>										
<b>X CapacityBuilding and Group Dynamics</b>										
Leadership development	2				27	40	67	27	40	67
Group dynamics	3				47	48	95	47	48	95
Formation and Management of SHGs										
Mobilization of social capital	1				4	38	42	4	38	42
Entrepreneurial development of farmers/youths	1				26	0	26	26	0	26
WTO and IPR issues										
Others (pl specify)										
<b>Total</b>	<b>7</b>				<b>104</b>	<b>126</b>	<b>230</b>	<b>104</b>	<b>126</b>	<b>230</b>
<b>XI Agro-forestry</b>										
Production technologies	2				36	61	97	36	61	97
Nursery management										
Integrated Farming Systems	5				46	102	148	46	102	148
Others (pl specify)	1				38	15	53	38	15	53
<b>Total</b>	<b>8</b>				<b>120</b>	<b>178</b>	<b>298</b>	<b>120</b>	<b>178</b>	<b>298</b>
<b>GRAND TOTAL</b>	<b>80</b>				<b>1388</b>	<b>1413</b>	<b>2801</b>	<b>1388</b>	<b>1413</b>	<b>2801</b>

#### 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
<b>I Crop Production</b>										
Weed Management	1				19	3	22	19	3	22
Resource Conservation Technologies	1				22	14	36	22	14	36
Cropping Systems	1				18	14	32	18	14	32
Crop Diversification	1				38	6	44	38	6	44
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
<b>Total</b>	<b>4</b>				<b>97</b>	<b>37</b>	<b>134</b>	<b>97</b>	<b>37</b>	<b>134</b>

<b>II Horticulture</b>									
<b>a) Vegetable Crops</b>									
Production of low value and high value crops									
Off-season vegetables									
Nursery raising	1		10	21	31	10	21	31	
Exotic vegetables	1		39	3	42	39	3	42	
Export potential vegetables									
Grading and standardization									
Protective cultivation									
Others (pl specify)	5		66	47	113	66	47	113	
<b>Total (a)</b>	<b>7</b>		<b>115</b>	<b>71</b>	<b>186</b>	<b>115</b>	<b>71</b>	<b>186</b>	
<b>b) Fruits</b>									
Training and Pruning									
Layout and Management of Orchards									
Cultivation of Fruit	1		12	6	18	12	6	18	
Management of young plants/orchards									
Rejuvenation of old orchards									
Export potential fruits									
Micro irrigation systems of orchards									
Plant propagation techniques									
Others (pl specify)									
<b>Total (b)</b>	<b>1</b>		<b>12</b>	<b>6</b>	<b>18</b>	<b>12</b>	<b>6</b>	<b>18</b>	
<b>c) Ornamental Plants</b>									
Nursery Management									
Management of potted plants									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
Others (pl specify)									
<b>Total (c)</b>									
<b>d) Plantation crops</b>									
Production and Management technology									
Processing and value addition									
Others (pl specify)									
<b>Total (d)</b>									
<b>e) Tuber crops</b>									
Production and Management technology	1		10	12	22	10	12	22	
Processing and value addition									
Others (pl specify)									
<b>Total (e)</b>	<b>1</b>		<b>10</b>	<b>12</b>	<b>22</b>	<b>10</b>	<b>12</b>	<b>22</b>	
<b>f) Spices</b>									
Production and Management technology									
Processing and value addition									
Others (pl specify)									
<b>Total (f)</b>									
<b>g) Medicinal and Aromatic Plants</b>									
Nursery management									
Production and management technology									
Post harvest technology and value addition									
Others (pl specify)									
<b>Total (g)</b>									
<b>Grand Total (a to g)</b>	<b>9</b>		<b>137</b>	<b>89</b>	<b>226</b>	<b>137</b>	<b>89</b>	<b>226</b>	
<b>III Soil Health and Fertility Management</b>									
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)									
<b>Total</b>									
<b>IV Livestock Production and Management</b>									
Dairy Management	4		46	63	109	46	63	109	
Poultry Management									
Piggery Management									
Rabbit Management									

Animal Nutrition Management									
Disease Management	1			13	22	35	13	22	35
Feed & fodder technology									
Production of quality animal products									
Others (pl specify)	1			7	16	23	7	16	23
<b>Total</b>	<b>6</b>			<b>66</b>	<b>101</b>	<b>167</b>	<b>66</b>	<b>101</b>	<b>167</b>
<b>V Home Science/Women empowerment</b>									
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									
Women empowerment									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Others (pl specify)	3			71	49	120	71	49	120
<b>Total</b>	<b>3</b>			<b>71</b>	<b>49</b>	<b>120</b>	<b>71</b>	<b>49</b>	<b>120</b>
<b>VI Agril. Engineering</b>									
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)									
<b>Total</b>									
<b>VII Plant Protection</b>									
Integrated Pest Management	3			85	63	148	85	63	148
Integrated Disease Management	2			52	42	94	52	42	94
Bio-control of pests and diseases	1			15	6	21	15	6	21
Production of bio control agents and bio pesticides	1			21	1	22	21	1	22
Others (pl specify)									
<b>Total</b>	<b>7</b>			<b>173</b>	<b>112</b>	<b>285</b>	<b>173</b>	<b>112</b>	<b>285</b>
<b>VIII Fisheries</b>									
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)									
<b>Total</b>									
<b>IX Production of Inputs at site</b>									
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)									
<b>Total</b>									
<b>X Capacity Building and Group Dynamics</b>									
Leadership development									
Group dynamics	3			80	10	90	80	10	90
Formation and Management of SHGs									
Mobilization of social capital	1			11	19	30	11	19	30
Entrepreneurial development of farmers/youths	1			12	18	30	12	18	30
WTO and IPR issues									
Others (pl specify)	1			0	50	50	0	50	50
<b>Total</b>	<b>6</b>			<b>103</b>	<b>97</b>	<b>200</b>	<b>103</b>	<b>97</b>	<b>200</b>
<b>XI Agro-forestry</b>									
Production technologies									
Nursery management									
Integrated Farming Systems	2			30	30	60	30	30	60
Others (pl specify)									
<b>Total</b>	<b>2</b>			<b>30</b>	<b>30</b>	<b>60</b>	<b>30</b>	<b>30</b>	<b>60</b>
<b>GRAND TOTAL</b>	<b>37</b>			<b>677</b>	<b>515</b>	<b>1192</b>	<b>677</b>	<b>515</b>	<b>1192</b>

**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
<b>I Crop Production</b>										
Weed Management	3				35	75	110	35	75	110
Resource Conservation Technologies	1				22	14	36	22	14	36
Cropping Systems	1				18	14	32	18	14	32
Crop Diversification	1				38	6	44	38	6	44
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	4				106	16	122	106	16	122
Soil & water conservation										
Integrated nutrient management	6				87	106	193	87	106	193
Production of organic inputs	2				22	19	41	22	19	41
Others (pl specify)	3				65	46	111	65	46	111
<b>Total</b>	<b>21</b>				<b>393</b>	<b>296</b>	<b>689</b>	<b>393</b>	<b>296</b>	<b>689</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high value crops	3				87	4	91	87	4	91
Off-season vegetables	1				21	5	26	21	5	26
Nursery raising	1				10	21	31	10	21	31
Exotic vegetables	1				39	3	42	39	3	42
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)	15				302	267	569	302	267	569
<b>Total (a)</b>	<b>21</b>				<b>459</b>	<b>300</b>	<b>759</b>	<b>459</b>	<b>300</b>	<b>759</b>
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	2				31	6	37	31	6	37
Management of young plants/orchards	1				13	19	32	13	19	32
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
<b>Total (b)</b>	<b>3</b>				<b>44</b>	<b>25</b>	<b>69</b>	<b>44</b>	<b>25</b>	<b>69</b>
<b>c) Ornamental Plants</b>										
Nursery Management										



Management of potted plants									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
Others (pl specify)									
<b>Total ( c)</b>									
<b>d) Plantation crops</b>									
Production and Management technology									
Processing and value addition									
Others (pl specify)									
<b>Total (d)</b>									
<b>e) Tuber crops</b>									
Production and Management technology	1			10	12	22	10	12	22
Processing and value addition									
Others (pl specify)									
<b>Total (e)</b>	<b>1</b>			<b>10</b>	<b>12</b>	<b>22</b>	<b>10</b>	<b>12</b>	<b>22</b>
<b>f) Spices</b>									
Production and Management technology									
Processing and value addition									
Others (pl specify)									
<b>Total (f)</b>									
<b>g) Medicinal and Aromatic Plants</b>									
Nursery management	1			15	25	40	15	25	40
Production and management technology									
Post harvest technology and value addition									
Others (pl specify)									
<b>Total (g)</b>	<b>1</b>			<b>15</b>	<b>25</b>	<b>40</b>	<b>15</b>	<b>25</b>	<b>40</b>
<b>Grand Total (a to g)</b>	<b>26</b>			<b>528</b>	<b>362</b>	<b>890</b>	<b>528</b>	<b>362</b>	<b>890</b>
<b>III Soil Health and Fertility Management</b>									
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)									
<b>Total</b>									
<b>IV Livestock Production and Management</b>									
Dairy Management	10			126	192	318	126	192	318
Poultry Management									
Piggery Management									
Rabbit Management									
Animal Nutrition Management	5			66	112	178	66	112	178
Disease Management	2			18	47	65	18	47	65
Feed & fodder technology									
Production of quality animal products									
Others (pl specify)	4			102	47	149	102	47	149
<b>Total</b>	<b>21</b>			<b>312</b>	<b>398</b>	<b>710</b>	<b>312</b>	<b>398</b>	<b>710</b>
<b>V Home Science/Women empowerment</b>									
Household food security by kitchen gardening and nutrition gardening	2			25	45	70	25	45	70
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	1			0	28	28	0	28	28
Women empowerment									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Others (pl specify)	4			71	84	155	71	84	155
<b>Total</b>	<b>7</b>			<b>96</b>	<b>157</b>	<b>253</b>	<b>96</b>	<b>157</b>	<b>253</b>
<b>VI Agril. Engineering</b>									

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)	1			0	16	16	0	16	16
<b>Total</b>	<b>1</b>			<b>0</b>	<b>16</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>16</b>
<b>VII Plant Protection</b>									
Integrated Pest Management	6			140	106	246	140	106	246
Integrated Disease Management	8			178	117	295	178	117	295
Bio-control of pests and diseases	1			15	6	21	15	6	21
Production of bio control agents and bio pesticides	1			21	1	22	21	1	22
Others (pl specify)	2			25	38	63	25	38	63
<b>Total</b>	<b>18</b>			<b>379</b>	<b>268</b>	<b>647</b>	<b>379</b>	<b>268</b>	<b>647</b>
<b>VIII Fisheries</b>									
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)									
<b>Total</b>									
<b>IX Production of Inputs at site</b>									
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)									
<b>Total</b>									
<b>X Capacity Building and Group Dynamics</b>									
Leadership development	2			27	40	67	27	40	67
Group dynamics	6			127	58	185	127	58	185
Formation and Management of SHGs									
Mobilization of social capital	2			15	57	72	15	57	72
Entrepreneurial development of farmers/youths	2			38	18	56	38	18	56
WTO and IPR issues									
Others (pl specify)	1			0	50	50	0	50	50
<b>Total</b>	<b>13</b>			<b>207</b>	<b>223</b>	<b>430</b>	<b>207</b>	<b>223</b>	<b>430</b>
<b>XI Agro-forestry</b>									
Production technologies	2			36	61	97	36	61	97
Nursery management	0			0	0	0	0	0	0
Integrated Farming Systems	7			76	132	208	76	132	208
Others (pl specify)	1			38	15	53	38	15	53
<b>Total</b>	<b>10</b>			<b>150</b>	<b>208</b>	<b>358</b>	<b>150</b>	<b>208</b>	<b>358</b>
<b>GRAND TOTAL</b>	<b>117</b>			<b>2065</b>	<b>1928</b>	<b>3993</b>	<b>2065</b>	<b>1928</b>	<b>3993</b>

### 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										
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	1				15	7	22	15	7	22
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Recent advances in Agriculture, Horticulture and Plant Protection/Important of organic farming	2				73	7	80	73	7	80
<b>TOTAL</b>	<b>3</b>				<b>88</b>	<b>14</b>	<b>102</b>	<b>88</b>	<b>14</b>	<b>102</b>

### 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)										
<b>TOTAL</b>										

**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										
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	1				15	7	22	15	7	22
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)	2				73	7	80	73	7	80
<b>TOTAL</b>	<b>3</b>				<b>88</b>	<b>14</b>	<b>102</b>	<b>88</b>	<b>14</b>	<b>102</b>

**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
<b>Crop production and management</b>										
Increasing production and productivity of crops	8				119	185	304	119	185	304
Commercial production of vegetables	1				0	49	49	0	49	49
<b>Production and value addition</b>										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management	1				14	19	33	14	19	33
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)	13				263	288	587	263	288	587
<b>Total</b>	<b>23</b>				<b>396</b>	<b>541</b>	<b>937</b>	<b>396</b>	<b>541</b>	<b>937</b>
<b>Post harvest technology and value addition</b>										
Processing and value addition										
Others (pl. specify)										
<b>Total</b>										
<b>Farm machinery</b>										
Farm machinery, tools and implements										
Others (pl. specify)										
<b>Total</b>										
<b>Livestock and fisheries</b>										
Livestock production and management	4				70	83	153	70	83	153
Animal Nutrition Management	3				47	85	132	47	85	132
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management	2				69	19	88	69	19	88
Others (pl. specify)										
<b>Total</b>	<b>9</b>				<b>186</b>	<b>187</b>	<b>373</b>	<b>186</b>	<b>187</b>	<b>373</b>
<b>Plant Protection</b>										
Integrated Pest Management	4				106	95	201	106	95	201
Integrated Disease Management	5				113	108	221	113	108	221
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										

Others (pl specify)	1				17	28	45	17	28	45
<b>Total</b>	<b>10</b>				<b>236</b>	<b>231</b>	<b>467</b>	<b>236</b>	<b>231</b>	<b>467</b>
<b>Home Science</b>										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)	6				96	129	225	96	129	225
<b>Total</b>	<b>6</b>				<b>96</b>	<b>129</b>	<b>225</b>	<b>96</b>	<b>129</b>	<b>225</b>
<b>Agricultural Extension</b>										
CapacityBuilding and Group Dynamics	1				0	45	45	0	45	45
Others (pl. specify)	11				117	241	358	117	241	358
<b>Total</b>	<b>12</b>				<b>117</b>	<b>286</b>	<b>403</b>	<b>117</b>	<b>286</b>	<b>403</b>
<b>GRAND TOTAL</b>	<b>60</b>				<b>1031</b>	<b>1374</b>	<b>2405</b>	<b>1031</b>	<b>1374</b>	<b>2405</b>

### 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
<b>Crop production and management</b>										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)	1				0	53	53	0	53	53
<b>Total</b>	<b>1</b>				<b>0</b>	<b>53</b>	<b>53</b>	<b>0</b>	<b>53</b>	<b>53</b>
<b>Post harvest technology and value addition</b>										
Value addition										
Others (pl. specify)										
<b>Total</b>										
<b>Livestock and fisheries</b>										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming	2				17	37	54	17	37	54
Others (pl. specify)										
<b>Total</b>	<b>2</b>				<b>17</b>	<b>37</b>	<b>54</b>	<b>17</b>	<b>37</b>	<b>54</b>
<b>Income generation activities</b>										
Vermicomposting	1				13	8	21	13	8	21
Production of bio-agents, bio-pesticides,	1				0	20	20	0	20	20
bio-fertilizers etc.	1				6	15	21	6	15	21
Repair and maintenance of farm machinery and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.	1				19	2	21	19	2	21
Tailoring, stitching, embroidery, dyeing etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
<b>Total</b>	<b>4</b>				<b>38</b>	<b>45</b>	<b>83</b>	<b>38</b>	<b>45</b>	<b>83</b>
<b>Agricultural Extension</b>										
Capacity building and group dynamics										
Others (pl. specify)										
<b>Total</b>										
<b>Grand Total</b>	<b>7</b>				<b>55</b>	<b>135</b>	<b>190</b>	<b>55</b>	<b>135</b>	<b>190</b>

### 3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	TOTAL
Advisory Services (Other than KMAS)	-	-	-
Diagnostic visits	72	164	164
Field Day	5	113	113
KisanGhoshi	10	501	501
Film Show	43	1856	1856
KisanMela	2	165	165
Exhibition	16	1500	1500
Scientists' visit to farmers field	35	139	139
Plant/animal health camps	1	27	27
Farmers' seminar/workshop	6	384	384
Method Demonstrations	80	1190	1190
Celebration of important days	46	4109	4109
Exposure visits	17	397	397
Others Lecture delivered	178	8494	8494
Others Field visit with title	72	228	228
Others FLD visit	45	220	220
Others OFT visit	18	60	60
Others Farmers visit to KVK	13	1249	1249
Others farmers scientist interaction	38	225	225
Others Farmer meeting	23	223	223
Others TV, Radio talk	4	-	-
Others BRS/MRS/MSW placement	4	70	70
Others Farm school	7	154	154
Others Swachh bhara abhiyan	24	799	799
Other/ Survey	35	2267	2267
<b>Total</b>	<b>794</b>	<b>24534</b>	<b>24534</b>

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

#### Details of other extension programmes:

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature (Folder, Leaflet)	14
Newspaper coverage	225
Popular articles	15
Radio Talks	1
TV Talks	3
Animal health camps (Number of animals treated)	27
Social Media (No. of platforms Used)	5
Others Video send to Farmers mobile	108
Kvk Waghai Youtube channel	34203
Soil Sample Collection & Analyzed	107
Water Sample Collection & Analyzed	3
Plant health clinic diagnostic services	74
Success story	5
Research Paper	3
Book (1 Chapter)	1
Technical reports	323
Participation (Meetin, Seminar, Conferance, Workshops, Trainings)	80
Teaching, Examination-Supervision, Election, Krushi Mahotsav	69
University Product Sell	184
SMS Send to farmers mobile	76
Whatsapp Messages	246
Telephone helpline	2843
<b>Total</b>	<b>38615</b>

### 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	-	-	-	-	-
	<b>Total</b>				
B	Farmers scientist's interaction programme				
1	-	-	-	-	-
	<b>Total</b>				
C	Farmers seminars				
1	Seminars	Video conferencing	Agro-forestry	1	44
	<b>Total</b>			<b>1</b>	<b>44</b>
D	Expert lectures				
1	Lectures	Video conferencing	Intercropping in forest trees	1	44
	<b>Total</b>			<b>1</b>	<b>44</b>
E	Any other (Pl. specify)				
1	Farmers meeting	Video conferencing	Unala ma kathod ane bagayati pako ma karvana thata mahatvana kheti karyo	1	5
2	Farmers meeting	Video conferencing	Jal Shakti abhiyan	1	6
3	Farmers meeting	Video conferencing	Jal Shakti abhiyan	1	5
	<b>Total</b>			<b>3</b>	<b>16</b>
	<b>Grand Total (A+B+C+D+E)</b>			<b>5</b>	<b>104</b>

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

#### Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Pulses	Chickpea	New variety	GG 5	14.5	108750	
Pulses	Green gram	New variety	GM 6	10.15	121800	
Cereals	Paddy	New variety	GR 7	43.4	-	
Cereals	Paddy	New variety	GR 18	17.9	-	
Cereals	Paddy	New variety	GR 17	5	-	

#### Production of planting materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vegetable	Brinjal	New variety	GNRB 1	1200	1200	
Vegetable	Tomato	New variety	Arka samrat	1200	1200	
Vegetable	Chili green	New variety	Arka swetha	1200	1200	
Vegetable	Aloevera	New variety	INGR 13043	160	800	
Vegetable	Drumstick	New variety	PKM 1	1260	37800	

#### Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg/Lit		
-	-	-	-	-

#### Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
-	-	-	-	-

#### 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	KNOWLEDGE AND ATTITUDE OF SELF HELP GROUP MEMBERS TOWARDS MICRO FINANCE	Guj. J. Ext. Edu. Vol. 31 : Issue 2 : December 2020	01
	Aspiration of Educated Youths Towards Agricultural Enterprises of Gujarat State	Trends in Biosciences 13(13), 1075-1077,2020	01
Technical reports	SAP progress report of third quarter 2020-21	ATARI, Pune	01
	Kharif progress report of CFLD oilseeds 2020-21	ATARI, Pune	01
	Third Quarter (October -December) Target-Achievements 2020-21 QPR	ATARI, Pune	01
	TSP monitoring report of 3rd Quarter of 2020-21	ATARI, Pune	01
	Annual report of monitoring of Tribal Sub Plan 2018-19	ATARI, Pune	01
	Annual Action Plan KVK Dangs, NAU, Gujarat	ATARI, Pune	01
	Achievements along with Expenditure of CFLD Pulses during 2020-21	ATARI, Pune	01
Monthly Progress Report (MPR) for February 2021 of KVK,	ATARI, Pune	01	



Dangs		
Information for Compilation of Annual Progress Report 2020 (January 2020 to December 2020)	ATARI, Pune	01
Jalsakti Abhiyan	ATARI, Pune	01
Annual Progress Report Jan - Dec 2021 word file	ATARI, Pune	01
Report of Jal Shakti Abhiyan Activities from 22 April to Nov 2021	ATARI, Pune	01
Jalshkti Abhiyan activities from 1 May To 7 May 2021	ATARI, Pune	01
Report of Jalshakti abhiyan 8-14 May 2021	ATARI, Pune	01
Report of Jalshakti abhiyan 17- 21 May 2021	ATARI, Pune	01
SAP Report for quarter ending March 2021	ATARI, Pune	01
Report of Jalshakti abhiyan 22-28 May 2021	ATARI, Pune	01
Compilation of MPR, AE MPR, Update MPR on Portal	ATARI, Pune	01
Details of serving employees who lost their lives during COVID pandemic	ATARI, Pune	01
Monthly Progress Report (MPR) for April 2021 of KVK, Dangs	ATARI, Pune	01
Report of TSP 4th Quarter Report, KVK, Waghai, Dangs	ATARI, Pune	01
Details of awardee farm women	ATARI, Pune	01
Report on celebration of Animal Health and Productivity and World Milk Day	ATARI, Pune	01
Jal Shakti Report	ATARI, Pune	01
Monthly Progress Report (MPR) for May 2021 of KVK, Dangs	ATARI, Pune	01
Information of FPOs of KVK, Dangs, Gujarat	ATARI, Pune	01
Bhumi Suposhan Abhiyan report	ATARI, Pune	01
Jal Shakti Report	ATARI, Pune	01
Information regarding Network Project on Impact of Technological interventions of KVKs on Socio-Economic Empowerment and Sustainable Livelihood security of Tribal Farmers	ATARI, Pune	01
Jal Shakti Report	ATARI, Pune	01
Jal Shakti Report	ATARI, Pune	01
Achievement of CFLD Pulses during 2020-21	ATARI, Pune	01
Jal Shakti Abhiyan report 10 to 16 July 2021	ATARI, Pune	01
Celebrate the ICAR Foundation Day	ATARI, Pune	01
Jal Shakti Abhiyan report 03 to 09 July	ATARI, Pune	01
Best OFTs results of year 2020 in written form by 1.7.2021	ATARI, Pune	01
Revise Dangs Training and special program of KVK Dangs	ATARI, Pune	01
Jal Shakati Abhiyan	ATARI, Pune	01
Monthly Progress Report (MPR) for June 2021 of KVK, Dangs	ATARI, Pune	01
Perception of farmers on New technologies / varieties of KVK Dangs	ATARI, Pune	01
Targets achieved (April to June 2021) in Ist Quarter (2021-22) of KVK, Dangs	ATARI, Pune	01
Crop Insurance Scheme and Publicity	ATARI, Pune	01
Jal Shakti Abhiyan report 03 to 09 July 2021	ATARI, Pune	01
Achievements of Physical Output	ATARI, Pune	01
Lok Sabha Question Dy No 563.	ATARI, Pune	01
Jal Shakti Abhiyan report 10 to 16 July 2021	ATARI, Pune	01
Information regarding Network Project on Impact of Technological interventions of KVKs on Socio-Economic Empowerment and Sustainable Livelihood security of Tribal Farmers	ATARI, Pune	01
Monitoring of TSP (STC) of 1st Quarter 2021-22	ATARI, Pune	01
Jal Shakti Abhiyan report 17 to 23 July 2021	ATARI, Pune	01
Jal Shakti Abhiyan report 24 to 30 July 2021	ATARI, Pune	01
Monthly Progress Report (MPR) for July 2021 of KVK, Dangs	ATARI, Pune	01
Annual Progress report PPT of KVK, Dangs	ATARI, Pune	01
Jal Shakti Abhiyan report 31 July to 06 August 2021 of KVK, Dangs, Gujarat	ATARI, Pune	01
Monitoring of TSP (STC) of 1st Quarter (2021-22) of KVK Dangs	ATARI, Pune	01
Jal Shakti Abhiyan report 07 August to 13 August 2021 of KVK,	ATARI, Pune	01

Dangs, Gujarat		
Jal Shakti Abhiyan report 14 August to 20 August 2021 of KVK, Dangs, Gujarat	ATARI, Pune	01
Celebration of Parthenium Awareness Week	ATARI, Pune	01
Celebration under Azadi Ka Amrit Mahotsav ("Food and Nutrition for Farmers")	ATARI, Pune	01
Jal Shakti Abhiyan report 21 to 27 August 2021 of KVK, Dangs, Gujarat	ATARI, Pune	01
Achievements and Total Expenditure for CFLD Pulses during Kharif 2021-22	ATARI, Pune	01
Monthly Progress Report (MPR) for August	ATARI, Pune	01
Azadika amrut mahotsav	ATARI, Pune	01
Jal Shakti Abhiyan report 28 August to 03 september 2021 of KVK, Dangs,	ATARI, Pune	01
MES for month of Aug-21	ATARI, Pune	01
Azadika amrut mahotsav	ATARI, Pune	01
Photograph of Dalubhai, KVK, Waghai, Dangs	ATARI, Pune	01
Jal Shakti Abhiyan report 04 to 10 September 2021 of KVK, Dangs, Gujarat	ATARI, Pune	01
DFI Of KVK Dangs, NAU, Gujarat	ATARI, Pune	01
Jal Shakti Abhiyan report 11 to 17 September 2021 of KVK, Dangs, Gujarat	ATARI, Pune	01
Revised DFI Of KVK Dangs, NAU, Gujarat	ATARI, Pune	01
Awareness creation among farmers about role of patent in agriculture during 2020-21	ATARI, Pune	01
Jal Shakti Abhiyan report 18 to 24 September 2021 of KVK, Dangs, Gujarat	ATARI, Pune	01
Hon'ble Prime Minister on Dated 28 th September 2021 Report by KVK, Dangs	ATARI, Pune	01
Azadika amrut mahotsav	ATARI, Pune	01
SCSP Quarterly achievement of 1st Quarter of financial year 2021-22	ATARI, Pune	01
Swachhta Action Plan (SAP) Activity-wise progress report for the Quarter July- September,2021	ATARI, Pune	01
Mahila Kisan Diwas Report of KVK, Dangs	ATARI, Pune	01
Jal Shakti Abhiyan report 25 September to 01 October 2021	ATARI, Pune	01
Quarterly report (01-07-2021 to 30-09-2021) of KVK Regular, KVK Dangs	ATARI, Pune	01
Monthly Progress Report of September 2021	ATARI, Pune	01
Special Swachhta Campaign during 2nd October to 31st October, 2021	ATARI, Pune	01
Extension activities of month of Sept 2021	ATARI, Pune	01
Spectrum report July-21 to September-21	ATARI, Pune	01
Jal Shakti Abhiyan report 02 to 08 October 2021	ATARI, Pune	01
Jal Shakti Abhiyan report 09 to 15 October 2021	ATARI, Pune	01
NARI programme for 2020-21 and 2021-22	ATARI, Pune	01
Mahila Kisan Diwas Report of KVK, Dangs	ATARI, Pune	01
World Food Day Report of KVK, Dangs	ATARI, Pune	01
Revised DFI Of KVK Dangs, NAU, Gujarat	ATARI, Pune	01
MES for the month of Sept-21	ATARI, Pune	01
TSP - Monitoring report of 2nd Quarter (July to Septemebr ) of 2021-22 of KVK, Dangs	ATARI, Pune	01
Swachhta Action Plan (SAP) Activity-wise progress report for the Quarter July- September,2021	ATARI, Pune	01
Topics for the proposed training programme	ATARI, Pune	01
We may able to Spend CFLD grant of 2020-21 in current year 2021-22, Though it is not included in target for CFLD Pulses	ATARI, Pune	01
Capacity Building of Farmers through Training Programmes on Profitable Dairy Farming and Livestock Management for the year 2021-22	ATARI, Pune	01
Swachhta Campaign from 2-31 October, 2021 of KVK, Dangs	ATARI, Pune	01
Jal Shakti Abhiyan report 23 to 29 October 2021	ATARI, Pune	01

	Regarding DFI Success stories of KVK NAU Dangs Gujarat	ATARI, Pune	01
	Details of Beneficiary farmers under CFLD Pulses for the year 2020-21 of KVK, Dangs	ATARI, Pune	01
	Monthly Progress Report of October 2021	ATARI, Pune	01
	TSP Report 2020-21	ATARI, Pune	01
	Jal Shakti Abhiyan report 30 October to 05 November 2021	ATARI, Pune	01
	AUC for F.Y. 2020-21 for CFLD Pulses Project	ATARI, Pune	01
	Information on Extension activities for Tribal Region of KVK, Dangs	ATARI, Pune	01
	Revised Information on Extension activities for Tribal Region of KVK, Dangs	ATARI, Pune	01
	Jal Shakti Abhiyan Report 13 to 19 November 2021 ATARI-Pune	ATARI, Pune	01
	MES for month of Oct-21	ATARI, Pune	01
	Revised Information on Extension activities for Tribal Region of KVK, Dangs	ATARI, Pune	01
	Prakrutik krushi ange talim karyshala mate ture progaramni mahiti mokalva babat	ATARI, Pune	01
	Regarding release of fund under scheme of ACROSS at DAMU, Dangs	ATARI, Pune	01
	Details about Farmers doing Natural Farming of KVK, Dangs	ATARI, Pune	01
	Jal Shakti Abhiyan report 20 November to 26 November 2021	ATARI, Pune	01
	AUC for F.Y. 2020-21 for CFLD Pulses	ATARI, Pune	01
	National Campaign on the theme "Agriculture and Environment: the Citizen Face" on 26.11.2021 under Azadi Ka Amrit Mahotsav	ATARI, Pune	01
	World Soil Day	ATARI, Pune	01
	Jal Shakti Abhiyan Weekly Report from 27th November to 30th November 2021	ATARI, Pune	01
	Monthly Progress Report of November 2021	ATARI, Pune	01
	DFI (Re correct as per your suggestion) Of KVK, NAU, Dangs	ATARI, Pune	01
	Status of Pre -testing of TSP schedule	ATARI, Pune	01
	Revised TSP Network Project of KVK Dangs	ATARI, Pune	01
	ICAR Awards 2021	ATARI, Pune	01
	Swachhta Pakhwada 16-31 December 2021	ATARI, Pune	01
Press note	<i>Waghai krushi vigyan kendrana upkrame technology saptahni ujvani</i>	Atal sawera	01
	<i>Kheti sathe pashupalan kari khet utpadanno kharch ghatadva khedutone margadarshan apayu</i>	Divya bhaskar	01
	<i>Waghai krushi vigyan kendrana vegyanik team dediyapada kvk ni mulakat lidhi</i>	Vatsalya news	01
	<i>Dangana khedutone navi kheti vise mahitgar karava KVK,waghai na vaigyanikoni team dediapadani mulakat</i>	Gandhinagar Today	01
	<i>Waghai vigyan kendra khate upkrame krushi mela-v-pradarshannu bhavy aayojan sampann</i>	Vatsalyanews	01
	<i>Krushi vigyan kendra waghai dwara talukana gamoma khedutone krushi vikas yojna ange mahitgar karya</i>	Satya De	01
	<i>Krushi vigyan kendra waghai dwara pashupalkone pashuoni sarsambhal rakhwa tatha dudhala pashuoni pasandagi kari swachh dudh utpadan ane kutrim bijdaanna fayda vishe samjan aapai</i>	Sandesh	01
	<i>Waghai krushi vigyan kendra khate aek ksetriy talim karykramnu aayojan karwama aavyu hatu</i>	Public app	01
	<i>VAGHAIMA WORLD VISION INDIA, Adp,Dang ane Krushi Vigyan kendra, waghai tathaa mission mangalam na sanyukt upakrame mahila dinni ujavani karavama avi</i>	Gandhinagar Today	01
	<i>VAGHAIMA WORLD VISION INDIA, Adp,Dang ane Krushi Vigyan kendra, waghai na sanyukt upakrame mahila dinni ujavani karavama avi</i>	Gujaratni Asmita	01
	<i>VAGHAIMA WORLD VISION INDIA, Adp,Dang ane Krushi Vigyan kendra, waghai tathaa mission mangalam na sanyukt upakrame mahila dinni ujavani karavama avi</i>	Public App	01
	<i>Jagli vrukshnu mahatve samjavi tena jatan vishe bhav mukayo</i>	Gujarat Samay	01
	<i>Khedutone khetpedshna sara bhav male te mateni miting nu</i>	Live Gujarat News	01

<i>ayojan karvama avyu</i>		
<i>Vegnanik dhabe pashupalan karvathi avak vadhe: dr. G.G.Chauhan</i>	Sandesh	01
<i>Krishi vgyan kendra, Navsari krushi University, vaghai (Dang) drara Pashupalan, Pashuarogya visheni Pashupalakone Talim Apai</i>	Live Gujarat News	01
<i>Navsari Krishi University drara kheduto, Grahako mate E-market place portal viksavavama avyu</i>	Live Gujarat News	01
<i>Navsari Krishi University drara kheduto, Grahako mate E-market place portal lonch karayu</i>	Nyaydarshan, Waghai	01
<i>Krishi vgyan kendra, Waghai (Dang) drara Pashupalan, Pashuarogya visheni Pashupalakone Talim Apai</i>	Sandes	01
<i>Krishi vgyan kendra, Navsari krushi University, Waghai (Dangs) Khate "Bhart Ka Amrut Mahotsav" antargat Vishv Dhudh Divasni Ujavani</i>	Public App	01
<i>Krishi vgyan kendra, Navsari krushi University, Waghai (Dangs) drara PKVY youjana antargat Waghai na daguniya game Pre Kharif Workshosopenu aayoujan</i>	Public App	01
<i>Krishi vgyan kendra, Navsari krushi University, Waghai (Dangs) drara PKVY youjana antargat Waghai na daguniya game Pre Kharif Workshosopenu aayoujan</i>	Public App	01
<i>Krishi vgyan kendra, Navsari krushi University, Waghai (Dangs) drara "Grup Dinemic" par Waghai Khate On Campuse Talimnu aayoujan</i>	Public App	01
<i>Krishi vgyan kendra, Navsari krushi University, Waghai (Dangs) drara "Grup Dinemic" par Waghai Khate On Campuse Talimnu aayoujan</i>	Public App	01
<i>Krishi vgyan kendra, Navsari krushi University, Waghai (Dangs) drara Kishan Goshtinu aayoujan</i>	Public App	01
<i>Krishi vgyan kendra, Navsari krushi University, Waghai (Dangs) drara Kishan Goshtinu aayoujan</i>	Public App	01
<i>Waghai KVK kendr dvara Kishan Goshti nu aayoujan karavama aavyu</i>	Public App	01
<i>Bhumi Suposhan Abhiyan antargat Krishi vgyan kendra, Navsari krushi University, Waghai (Dang) drara samajik mudi ne galishil banavava waghai khate On Campuse Talimnu aayoujan</i>	Public App	01
<i>Bhumi suposhan antaragat Krishi vgyan kendra, waghai (Dangs) drara samajik mudi ne gatishil banavava On campuse Talim nu aayouja</i>	Public App	01
<i>Bhumi suposhan antaragat Krishi vgyan kendra, waghai (Dangs) drara samajik mudi ne gatishil banavava On campuse Talim nu aayouja</i>	Gujarat Raksha	01
<i>Bhumi suposhan antaragat Krishi vgyan kendra, waghai (Dang) drara samajik mudi ne gatishil banavava On campuse Talim nu aayouja</i>	Dhabakar	01
<i>Samajik mudi ne galishil banavava Dang ma On Campuse Talimnu aayoujan</i>	Nyaydarshan News Papar	01
<i>Samajik mudi ne galishil banavava Dang ma On Campuse Talimnu aayoujan</i>	Public App	01
<i>Bhumi suposhan antaragat Krishi vgyan kendra, waghai (Dangs) drara samajik mudi ne gatishil banavava On campuse Talim nu aayouja</i>	Public App	01
<i>Surat na yuva ane jignasu kheduto Krishi vgyan kendra, waghai (Dangs) ni mukat</i>	Gujarat Asmita	01
<i>khedutani bagayti pakoni sendriy kheti padhdhtini margdarshn apayu</i>	bhaskar news	01
<i>Waghai KVK dvara dangana Gundiya game Khedutlakshi talim temaj input vitaran karykram yojayo</i>	Vatsalya News	01
<i>Khedutone Bagayati pakoni sendriy kheti padhdhti nu margadarshan apayu</i>	Divyabhaskar News	01
<i>Dangs Jillana Gundiya gamama khedutlakshi temaj input vitaran karykram yojayo</i>	Vastsyalam Samachar	01
<i>Waghai KVK dvara Bagayat, Krushi ane Pashupalan Talim yojai</i>	Public App	01

<i>Krishi vigyan kendra, Navsari krushi University, Waghai (Dangs) drara Bagayat, Krushi ane Pashupalan ni talim yojai</i>	Vatsalya News	01
<i>Waghai KVK kendr dvara Bagayat, Krushi ane Pashupalan ni talim yojai</i>	Public App	01
<i>Waghai KVK kendr dvara Bagayat, Krushi ane Pashupalan ni talim yojai</i>	Divybhaskar News	01
<i>Dang Jilla na Lhandabas gam khate Bagayat vishay talimnu aayojan karayu</i>	Public App	01
<i>Dang jilana gundiayagam khate KVK NAU waghaina neja hethal khedutlksi talim ane inpit vitarnnu ayojan karavama avyi.</i>	Gujarat sptah	01
<i>Waghai najik Lahandabas khate bagayati vishayak talim yojai</i>	Nyaydarshan News Papar	01
<i>Waghai najik Lahandabas khate bagayati vishayak talim yojai</i>	SV News	01
<i>Lahandabas khate bagayati vishayak talim</i>	Sandesh News	01
<i>Waghai najik Lahandabas khate bagayati vishayak kheti ange talim ayojan karayu</i>	Public App	01
<i>Dang Jillama Bardipada gamama Khatarna Samtol upayog antargat karykramnu aayoujan</i>	Public App	01
<i>Dang jilana bardipada gam khate khataran samtol upayog antargat karykram yojayo</i>	Vastysalam Samachar	01
<i>Dang Jillama Bardipada gamama Khatarna Samtol upayog antargat karykramnu aayoujan</i>	Divyabhaskar	01
<i>Subir, Baradipada game kitune Garden parisavand karykram yojayo</i>	Public App	01
<i>Subir, Baradipada game kitune Garden parisavand karykram yojayo</i>	Gujarat 24 News	01
<i>Subir, Baradipada game kitune Garden parisavand karykram yojayo</i>	Satya News	01
<i>Subir, Baradipada game kitune Garden parisavand karykram yojayo</i>	Vastysalam Samachar	01
<i>Dangna Panini achhatvala vistarma matala piyat padhdhati apanavo</i>	Divyabhaskar	01
<i>Dang na Panini achhatvala vistarma matala piyat padhdhati apanavo anuraodh</i>	Nyaydarshan News Papar	01
<i>Krushi vighan kendr waghai dvara jaivik khataro ane rojivat ange jagruti talim yojai</i>	Vastysalam Samachar	01
<i>Dokpatal ane Bardipada game kvk waghai dvara khedutone aavak bamani karava ange margdarshan apayu</i>	Public App	01
<i>Krishi vigyan kendra, Waghai (Dang) drara Grup Dinemic par On Campuse Talim Dang ne sampuran sendriy jillo banavavano prayas</i>	Public App	01
<i>Dang Jillama khedutoni aavak bamani karava nagenu margadarshan apayu</i>	Vastysalam Samachar	01
<i>Navasari na kheduto a waghai krushi kendrani mulakat lidhi</i>	Gujarat Samachar	01
<i>Navasari na kheduto krushilaxi mahiti mate krushi vigyan kendra waghai ni mulakate aavya</i>	Gujarat Gurdian	01
<i>Navasari jillana pragatishil kheduto a waghai krushi vigyan kendrani mulakat lidhi</i>	Sandes	01
<i>Navasari jillana pragatishil kheduto a waghai krushi vigyan kendrani mulakat lidhi</i>	Divya Bhaskar	01
<i>Krushi vigyan kendra dvara kheduto mate halani varasad khechavava ni parishthiti anurup kheduto mate suchanao aapavama aavi</i>	Publec App	01
<i>Krushi vigyan kendra waghai dvara borpada gam khate paak vima yojana par parisavand yojayo</i>	Publec App	01
<i>Krushi vigyan kendra waghai dvara borpada gam khate paak vima yojana par parisavand yojayo</i>	Nav Gujarat App	01
<i>Krushi vighyan kendra waghai (Dang) ni team dvara yantrikaran thay te hetuthi Bardolini mulakat kari</i>	VastsalyaApp	01
<i>Krushi vigyan kendra waghaini teame krushima yantrikikaran thay te hetuthi suruchi shikshan vasahat trust, Bardolini mulakat kari</i>	Publec App	01

<i>krushi vigyan kendra waghai dvara vankan game pashupalan tatha saragavano ghas-charama upyog antargat talim yojai</i>	Publec App	01
<i>Krushi vigyan kendra, Waghai (Dang) drara Borpada gam khate pakvima youjana par parisnavad</i>	Sandes	01
<i>Waghai na krushi vigyan kendr dvara Vankan ma pasupalan saragavo no ghascharo ma upayog antargat talim</i>	Nyaydarshan News Papar	01
<i>Pashu Ahaar tarike baremas upyogi vanaspati saragavo</i>	Nyaydarshan News Papar	01
<i>Wortl Vison ane krushi vigyan kendra na sayukt upkrame waghai khate on capuse talimanu aayoujan karavama avyo</i>	Public App	01
<i>krushi vigyan kendr dvara Vankan game pasupalan tatha saragavo no ghascharo ma upayog antargat talim yojai</i>	Public App	01
<i>kryushi vigyan kendr, waghai dang dvara krushi mousam aadharit khedutlaxi kedutne dhyan rakahva jevi mahiti aapavama aaviu</i>	Public App	01
<i>Pashu Ahaar tarike baremas upyogi vanaspati saragavo</i>	VastsalyaApp	01
<i>Dang Jilla ni Orgenik krushi pedasona rastriy stare marketing mate krushi vigyan kendr waghai khate bethak yojai</i>	Sandes	01
<i>krushi pedasona rastriy stare marketing kajrava mate krushi vigyan kendr waghai khate bethak yojai, Sairam Dave pan upsthit rahya</i>	Public App	01
<i>Krushi vigyan kendr dvara Gundiya gamama I.C.A.R.schapana divas ane bagayat vishayak talimanu aayoujan karavama aavyu.</i>	Public App	01
<i>Dang Jilla ni Orgenik krushi pedaso na rastriy stare marketing mate krushi vigyan kendr waghai khate bethak yojai</i>	VastsalyaApp	01
<i>Krushi vigyan kendr dvara I.C.A.R.schapana divas ane bagayat vishayak talimanu yojai</i>	VastsalyaApp	01
<i>Dang ni Orgenik krushi pedasona rastriy stare marketing kajrava mate bethak</i>	Gujarat Gurdian	01
<i>Waghai ma Bagayat vishayak talim nu aayoujan karayu</i>	Nyaydarshan News Papar	01
<i>pasupalan saragavo no ghascharo ma upayog vishe Vankan ma talim sibir</i>	Gujarat Samachar	01
<i>Khedutoni aavak bamani karava vaigyanikona suchano</i>	Bhaskar news	01
<i>Waghai na borpada game khedutone k.v.k. na vaigyaniko dvara margdarshan aapayu</i>	Dhabakar	01
<i>Waghai krushi vigyan kendra na sahayogthi rastriy jamin mojani kacheri ane mati no sarve karavama aavyo</i>	VastsalyaApp	01
<i>Nagalinu aandhayu vaveter n karine utpadan kharch ghatadavanu margdarshan</i>	Nyaydarshan News Papar	01
<i>Waghai Borpada game khedutoni aavak bamani karava mate K.V.K.na vaigyniko dvara suchano aapavama aavya</i>	VastsalyaApp	01
<i>Borpada game khedutoni aavak bamani karava mate krushi vigyan kendra na vaigyniko dvara suchano apaya</i>	Public App	01
<i>Kheti kharch ghatadava khedutone margdarshan apayu</i>	Sandes	01
<i>Waghai krushi vigyan kendra na sahayogthi rastriy jamin mojani kacheri davara jamin no sarve karayo</i>	Dhabakar	01
<i>Krushi vigyan kendra waghai na sahayogthi dang jilla ni jamin no sarve karayo</i>	Nyaydarshan News Papar	01
<i>Krushi vigyan kendr, waghai dvara sajupada game Jalskhakti karykram antargat ek talimnu aayojan karavama aavyu</i>	Public App News	01
<i>Krushi vigyan kendr, waghai dvara dang jillana na subir talukana sajupada game khedutlakshi talim youjai</i>	Vatsyalya App News	01
<i>Dang Jillana sajupadama khedut talim shibir yojai</i>	Nyaydarshan, Waghai	01
<i>Krushi vigyan kendr, waghai dvara dang jillana na subir talukana sajupada game jalshakti karykram antargat ek talimanu aayojan karavama aavyu</i>	Gandhinagar Today	01
<i>Dang Jillana sajupadama khedut talim shibir yojai</i>	Gujarat Samachar	01
<i>Krushi vigyan kendr, waghai dvara dang ane fal sanshodhan kendr ganadevi dvara tekpada gam khate khedut shibir</i>	Gujarat Samachar	01
<i>Krushi vigyan kendr, waghai dvara dang ane fal sanshodhan</i>	Vatsyalya App News	01

<i>kendr ganadevi dvara tekpada gam khate khedut shibir</i>		
<i>Krushi vgyan kendr, waghai dvara subir talukana sajupada gam khate khedulaxi talim yojai</i>	Public App News	01
<i>"Bagayati pako thaki rojagara avasrao" Vishay par khedut shibir</i>	Nyaydarshan	01
<i>Dang Jillama vividh dhany jatana pakoni sathe sathe bagayati pakoni khetinu vadhi rahelu chalan</i>	Divya Bhaskar News	01
<i>Dang Jillana sati khate gramnin krushi mousam seva antargat karyakram yojayo.</i>	Daily Hunt News App	01
<i>Dang Jillana sati khate gramnin krushi mousam seva antargat karyakram yojayo.</i>	Gandhinagar Today	01
<i>Dang Jillana sati khate gramnin krushi mousam seva antargat jagrutatano karyakram yojayo.</i>	Vatsalya App News	01
<i>Dang Jillana sati khate gramnin krushi mousam seva antargat karyakram yojayo.</i>	Public App News	01
<i>Gramin krushi mousam seva antargat aadivasi khedutone mahiti apai</i>	Nyay Darahsan	01
<i>Dang-waghai krushi vgyan kendr khatel Agakhan sansthana karmchario mate In-Service talim yojai</i>	Daily Hunt News App	01
<i>Dang-waghai krushi vgyan kendr khatel Agakhan sansthana karmchario mate In-Service talim yojai</i>	Public App News	01
<i>Dang-waghai krushi vgyan kendr khatel Agakhan sansthana karmchario mate In-Service talim yojai</i>	Vatsalya App News	01
<i>Krushi Bagayat ane pak sanrakshan ne lagati adhyatan mahitini shibir</i>	Nyay Darahsan	01
<i>Dang-waghai krushi vgyan kendr khatel Atma sanstha dvara Navasari talukana kheduto mate prerana pravasa gothavayo</i>	Daily Hunt News App	01
<i>Dang-waghai krushi vgyan kendr khatel Atma sanstha dvara Navasari talukana kheduto mate prerana pravasa gothavayo</i>	Vatsalya App News	01
<i>Navasari talukana mahila kheduto mate prerana pravasa</i>	Nyay Darahsan	01
<i>Krushi vikash yojanahethal Inputnu vitaran karayu</i>	Divya Bhaskar News	01
<i>krushi vgyan kendr, waghai dvara borpada gam khate paramparagat krushi vikash yojana hethal input vitaran temaj talimnu aayoujan karayu.</i>	Public App News	01
<i>krushi vgyan kendr, waghai dvara jivatonu bhautik padhdhati niyatran mate borpada game talimnu aayoujan karayu.</i>	Vatsalya App News	01
<i>Ochi kharchal evi jaivik padhdhati apanavava khedutone hakal karai</i>	Nyay DarahsanW	01
<i>Wagtail khate surat ane navsari jillana Atma sansthana khedut mate sendriy kheti padhdhti vishay par talim aayojan</i>	Public App News	01
<i>Dang jillana kheduto sathe kishangoshthinu aayojan krushi university khate karavama avyu.</i>	Public App News	01
<i>Dang waghai khate krushi vgyan kendra kheti vishayak prshno adachano prtibhavo ane sanshodhano ange kishangoshti</i>	Dang	01
<i>Jillana kheduto sathe kishangoshthinu aayojan karvama avyu.</i>	Public App News	01
<i>Waghai khate kishangoshti yojai.</i>	Nyay darshan	01
<i>Waghai krushi vgyan kendra khate kheti vishayak prshno sanshodhanona mudda ange kishangoshthinu aayojan.</i>		01
<i>Krushi university waghai khate kheti vishayak prshno ange kishangoshti karyakram yojayo.</i>	Vatsalya App News	01
<i>Dang waghai khate krushi vgyan kendra ma kheti vishayak prshno adachano, prtibhavo ane sanshodhano ange kishan goshti</i>	Gujarat guardian	01
<i>Uni. Ni badhi bhalamano chhevadana khedut sudhi pahochadavi jaroori kulpati</i>	Divya Bhaskar News	01
<i>Dangna Waghai khate krushi university dvara kishangoshti karyakram yojayo.</i>	Zatpat news	01
<i>Dangna waghai khate krushi university dvara kishangoshti karyakram yojayo.</i>	Lok Padakar	01
<i>Waghai khate maragha palanani in sarvis talim yojai.</i>	Nyay darshan	01
<i>Krushi vgyan kendra waghai ane aagakhan sansthana syunkt upkrme margha palanni in sarvis talim yojai.</i>	Public App News	01

<i>Krushi vgyan kendra waghai ane aagakhan sansthana syunkt upkrme margha palanni in sarvis talim yojai.</i>	Vatsyalya App News	01
<i>Krushi vgyan kendr khat frut ane nutrisan farmar karykramani ujavani karvamaa avi.</i>	Public App News	01
<i>Krushi vgyan kendr khat frut ane nutrisan farmar karykramani ujavani karvamaa avi.</i>	Vatsyalya App News	01
<i>Margha palanthi berojgar lokone rojgari mali rahshe.</i>	Divya Bhaskar News	01
<i>Uni. Ni badhi bhalamano chhevadana khedut sudhi pahochadavi jaroori kulpati</i>	Sandesh news	01
<i>Krushi vgyan kendra waghai dvara dang jillana sajupada gam khat talimanu aayojan karvama avyu.</i>	Lok Padkar	01
<i>Krushi vgyan waghaina sahyogthi rashtriy jamin mojani kacheri dvara dang jillani jaminno sarve karvama avyo.</i>	Lok Padkar	01
<i>Waghai talukana borpada game khedutoni aavak bamani karava mate KVK na vaigyaniko dvara suchano apvama avya.</i>	Lok Padkar	01
<i>Atma project dvara kheduto mate sponsor talim yojai.</i>	Nyay Darahsan	01
<i>Krushi vgyan kendra waghai khat bardolina kheduto mate sponsor talim yojai</i>	Vatsyalya App News	01
<i>Chomasu rutuma Pashuoni Yogya Sar-sambhal</i>	Godarshan guide	01
<i>krushi vgyan kendr, waghai dvara shakbhaji pakoma vaigyanik paddhatithi dharu uchher mate talim karykaramnu aayoujan karavama aayu</i>	Public App News	01
<i>Dnag krushi vgyan kendr, waghai dvara shakbhaji pakoma vaigyanik paddhatithi dharu uchher mate talim karykaramnu aayoujan karavama aayu</i>	Vastalya App News	01
<i>Krushi vgyan kendr, waghai dvara vaigyanik paddhatithi dharu uchher mate talim karykaramnu aayoujan</i>	Nyaydarshan, Waghai	01
<i>Dnag krushi vgyan kendr, waghai dvara shakbhaji pakoma vaigyanik paddhatithi dharu uchher mate talim karykaramnu aayoujan karavama aayu</i>	Vastalya App News	01
<i>Krushi vgyan kendr, waghai dvara shakbhaji pakoma vaigyanik paddhatithi dharu uchher mate talim karykaramnu aayoujan</i>	Sandesh News	01
<i>Krushi vgyan kendr, waghai dvara shakbhaji pakoma vaigyanik paddhatithi dharu uchher mate talim karykaramnu aayoujan</i>	Surat Mitra	01
<i>Wagtail KVK dvara shakbhaji pakoma vaigyanik paddhatithi dharu uchharni Talim</i>	Zatpat News	01
<i>Krushi vgyan kendr ane krushi univarsity kahte kheduto ane vistaran karykarone talim aapavama aavi</i>	Public App News	01
<i>Kaela ane Falasini paddhatisharni kheti karine kheduto aagal aavi shake chhe: dr.G.G.Chauhan</i>	Dailyhunt App News	01
<i>krushi vgyan kendr, waghai (Dang) dvara Kaela ane Falasini vaigyanik paddhatithi vishayak talim nu aayoujan karayu</i>	Gujarat Massege News	01
<i>Kaela ane Falasini paddhatisharni kheti karine kheduto aagal aavi shake chhe: dr.G.G.Chauhan</i>	Divya Bhaskar News	01
<i>Krushi vgyan kendr khat Falasini ane Kaela vaigyanik paddhatithi vishayak talim nu aayoujan</i>	Public App News	01
<i>Krushi vgyan kendr, waghai (Dang) dvara Kaela ane Falasini vaigyanik paddhatithi vishayak talim nu aayoujan karayu</i>	Charotar Uday	01
<i>Krushi vgyan kendr, waghai (Dang) dvara Kaela ane Falasini vaigyanik paddhatithi vishayak talim nu aayoujan</i>	Gujarat Massege	01
<i>krushi vgyan kendr, waghai (Dang) dvara Karela ane Falasini vaigyanik paddhatithi vishayak talim yojayi</i>	Zatpat News	01
<i>Krushi vgyan kendr, waghai (Dang) dvara Karela ane Falasini vaigyanik kheti paddhatithi</i>	Vartman Pravah	01
<i>Krushi vgyan kedra waghai dvara politechnic hall khat Climate ne sthiti sthapak karava mate samuhik jagruti abhiyan ni ujavani karayi</i>	Public App News	01
<i>Kuposhan ghataadva maate apne khoraakamaa nagli ane bajrino upyog karvo joiae: Dr. Patel</i>	Nyaydarshan, Waghai	01
<i>Wagtail krushi vgyan kendra khat vruksharopan ane poshan vatika mahabhiyan karykram yojayo</i>	Vastalya App News	01
<i>Wagtail krushi vgyan Climate ne sthiti sthapak karava mate technology ange jagruti abhiyan ni ujavani karai</i>	Dhunt App	01



<i>Jillama ma bhare varashadni aagahine pagale jilla adhikarione hed quatar nahi chhodavano aadesh</i>	Public App News	01
<i>Dang Jillama ma bhare varashadni aagahine pagale jilla adhikarione hed quatar nahi chhodavano aadesh</i>	City today	01
<i>Dang Jillama ma bhare varashadni aagahine pagale jilla adhikarione hed quatar nahi chhodavano aadesh</i>	Gujarat Gardian	01
<i>Climate ne sthiti sthapak karava mate dang khate samuhik jagruti abhiyan</i>	Nyay Darhsan	01
<i>Dang Jillama ma bhare varashadni aagahine pagale jilla adhikarione hed quatar nahi chhodavano aadesh</i>	Samna Dainik	01
<i>Dang Jillama ma bhare varashadni aagahine pagale jilla adhikarione hed quatar nahi chhodavano aadesh apayo</i>	Sandesh News	01
<i>Havaman ne Sthitisthapak karava mate samuhik jagruti abhiyan karykram</i>	Sandesh News	01
<i>Dang Jillama ma bhare varashadni aagahine pagale jilla adhikarione hed quatar nahi chhodavano aadesh</i>	Vastalya App News	01
<i>Dang Jillama ma bhare varashadni aagahine pagale jilla adhikarione hed quatar nahi chhodavano aadesh</i>	Nyay Darshan	01
<i>Dang Jillama ma jilla adhikarione kem hed quatar nahi chhodavano aadesh</i>	You tube Chenal	01
<i>KVK waghai dvara kheduo dvara samuhik jagruti abhiyan antargat karykaram sapman</i>	Zatpat News	01
<i>Havaman ne Sthitisthapak karava mate samuhik jagruti abhiyan karykram</i>	Zatpat News	01
<i>Sati gam gam khate krushi talim yojai</i>	Surat Mitra	01
<i>krushi vighyan kendr, waghai dvara Sati gam gam khate char divasiy off campus krushi talim yojai</i>	- -	01
<i>Krushi vighyan kendr, waghai dvara Zavada game "Swachhata zumbembes" Ujavavama aavyo</i>	Daily Hunt	01
<i>Krushi vighyan kendr, waghai dvara Zavada game "Swachhata zumbembes" Ujavavama aavyo</i>	Publec App	01
<i>Zavada game Swachhata zumbembes antargat safsafai karai</i>	Divya Bhaskar News	01
<i>02 October thi 31 October sudhi ujavama aavi rahel Swachhata abhiyan</i>	Jan Adesh	01
<i>Krushi vighyan kendr waghai dvara off sizan bhindani vaigyanik kheti padhdhti vishayak talim yojai</i>	Vatsyala News App	01
<i>Krushi vighyan kendr waghai dvara off sizan bhindani vaigyanik kheti padhdhti vishayak talim yojai</i>	Public App News	01
<i>Dang jillana krushi vighyan kendra khate Mahila Kishan Divas ni ujavani karai</i>	Vatsyala News App	01
<i>Waghai ma Mahila Kishan Divas ni ujavani karai</i>	Divya Bhaskar News	01
<i>Dang jillana krushi vighyan kendra khate Mahila Kishan Divas ni ujavani karai</i>	Madan Vaishanv	01
<i>Waghai talukana khedutone bagayati pakoni kheti upar talim apai</i>	Nayan Darshan	01
<i>Waghai khate avel Krushi vighyan kendr khedut sambadhit taliminu aayojan</i>	Samna Dainik	01
<i>Waghai talukana 53 khedutone bagayati pakoni kheti upar talim apai</i>	Samna Dainik	01
<i>Krushi vighyan kendr waghai(Dang) dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi</i>	Dunt App New	01
<i>Chichond khate Dang jillana krushi vighyan kendra khate Mahila Kishan Divas ni ujavani karavama aavi</i>	Public App News	01
<i>Krushi vighyan kendr waghai(Dang) dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi</i>	Public App News	01
<i>Krushi vighyan kendr waghai dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi</i>	Vatsyala News App	01
<i>Ann Utpadan kshetre Bhartne Atmnirbhar banavava khedutone yogdan aapva hankal</i>	Divya Bhaskar News	01
<i>Krushi vighyan kendr waghai(Dang) dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi</i>	Gujarat Massege	01
<i>Krushi vighyan kendr waghai(Dang) dvara Daguniya gam khate</i>	Samna Dainik	01

	<i>"Vishv Ann Divas" ni ujavani karavama aavi</i>		
	<i>Waghai Dang khate "Vishv Ann Divas" ni ujavani karavama aavi</i>	Surat Mitra	01
	<i>Krushhi vigyan kendr waghai dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi</i>	Vastalya News	01
	<i>Krushhi vigyan kendr waghai(Dang) khate Mahila Kishan Divas ni divas Ujavayo</i>	Zatpat News	01
	<i>krushi vigyan kendr waghai dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi</i>	Gujarat Massege	01
	<i>Krushhi vigyan kendra, Waghai dvara Farm Micenaisation Vishay talim aapava ma aavi</i>	Gujarat Massege	01
	<i>Krushhi vigyan kendra, Waghai dvara Farm Micenaisation Vishay talim aapava ma aavi</i>	Vatsyala News App	01
	<i>Farm Micenaisation Vishay par balakkone mahtv samajavava waghai krushi vigyan kenda ye talim aapi</i>	Divya Bhaskar News	01
	<i>Balakkone aadhunik kheti bhimukh banavava Farm Micenaisationni talim kam mahiti</i>	Nayan Darshan	01
	<i>Krushhi vigyan kendra, Waghai dvara Farm Micenaisation Vishay talim aapava ma aavi</i>	Vastalya News	01
	<i>waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay</i>	Divya Bhaskar News	01
	<i>Dang khate fal tatha sahakbhaji pakona mulyavardhan ange talim</i>	Nayan Darshan	01
	<i>Krushhi vigyan kendra, Wagtail(Dang) ane bagayat vibhag dang dvara fal tatha shakbhaji pakona mulyavardhan ange talim apai</i>	Sandesh News	01
	<i>Krushhi vigyan kendra, Wagtailkahte fal tatha shakbhaji pakona mulyavardhan ange talim apai</i>	Public App News	01
	<i>waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay</i>	Dhunt App News	01
	<i>Krushhi vigyan kendra, Wagtail(Dang) ane bagayat vibhag dang dvara fal tatha shakbhaji pakona mulyavardhan ange talim apai</i>	Guarat Massage App	01
	<i>waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay</i>	Public App News	01
	<i>Krushhi vigyan kendra, Wagtail khaate fal tatha shakbhaji pakona mulyavardhan ange talim apai</i>	Public App News	01
	<i>Krushhi vigyan kendra, Wagtail(Dang) ane bagayat vibhag dang dvara fal tatha shakbhaji pakona mulyavardhan ange talim apai</i>	You Tube Chenal	01
	<i>waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay</i>	Gujarat Raksha	01
	<i>waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay</i>	Sandesh News	01
	<i>Chichond gam khate "prakrutik kheti padhdhti" vishay pr talim yojai</i>	Nayan Darshan	01
	<i>Krushhi vingyan kendr N.K.U. Wagtail dvara lahandhabas temaj bardipada khate technology saptahani ujavani karava ma aavi</i>	Public App News	01
	<i>Wagtai krushi vingyan kendr khaate techonology saptahni ujavani karavama aavi</i>	Dhabakar News	01
	<i>Dnagana 375 kheduto krushini aadhunik takanik na prayogoma safal</i>	Divya Bhaskar News	01
	<i>Dnaga jillama krushini navi technology ange jan jagruti abhiyan hat harayu</i>	Gujarat Gurdian	01
	<i>Krushhi vigyan kendr N.K.U. waghai dvara technology saptahani ujavani karava ma aavi</i>	Vatsyala Samachar	01
	<i>Dang jillana khedutone krushini navin takanikio vishe mahitgar karaya</i>	Nayan Darshan	01
Technical bulletins	-	-	-
Popular articles	Dudhala pasuonu thandi same rakshan	Krushhi govidhya	01
	Dudh jany rogo ane tene atkavava matena soneri suchno	Krushigovidhya	01
	Chomasani rutuma pasuoni yogy sarsambhal	Godarshan guide	01
	Chomasani rutuma pasuoni yogy sarsambhal	Godarshan guide	01
	Anek lokone rojgari apto madhmakhi palan udhyog	Krishi prabhat	01
	Madhmakhi na jivan chakra ne olkho	Krishi prabhat	01
	Fansini Vaigyanik Kheti	Krushhi Jivan	01
	fugthi thata rog bhuki chharane dur karvana upayo	Krushhi Prabhat	01

	Kheti pakoma cercospora jatini fugthi panna tapkana rogne olkho	Krusha Prabhat	01
	Jaivik rog niyantrak: Trichoderma ne olkho	Krusha Prabhat	01
	Trichodermana vaprash vakhate niche mujab na pagala dhayane rakhva	Krusha Prabhat	01
	Fanasi ni vaigyanik kheti	Krushajivan	01
	Madhmakhi na jivanchakra ne olkho	Krusha prabhat	01
	Madhapetima madhmakhi palan kai rite karvo	Krusha Prabhat	01
	Chana na rogonu jaivik niyantran	Souvenir of seminar organized title "Maintenance of quality and safety of horticultural and food crops through biological control of pests and diseases"	01
Extension literature	Dangarni sendrey khetima Azollanu mahatv	NAU, Navsari	01
	Varmicompost (Alsiyanu khatar)	NAU, Navsari	01
	Fansini Vaigyanik kheti	NAU, Navsari	01
	Madhmakhi palan	NAU, Navsari	01
	Naglani vaigyanik kheti padhdhti	NAU, Navsari	01
	Khet talavadinu khetima mahatv	NAU, Navsari	01
	Pasuoma prathamik sarvar vishe jano	NAU, Navsari	01
	Pashuona agtyana paropjivijany rogo ane tene atkavavana upayo	NAU, Navsari	01
	Pashuoma akmatjany rogoni samajan	NAU, Navsari	01
	Gajargasnu jaivik niyantran	NAU, Navsari	01
	Sendriy khetima jivat niyantran	NAU, Navsari	01
	Punchhade chhar tapakavali iyal- Fall Army worm	NAU, Navsari	01
	Bhindama paksarkshan nu mahatv	NAU, Navsari	01
	Pashupalanma lila ghascharano paryay - Azolla	NAU, Navsari	01
<b>TOTAL</b>			<b>378</b>

### C. Details of Electronic Media Produced

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

### 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 Waghai Dang	1825
2	Facebook page/ Account	-	-
3	Mobile Apps	-	-
4	WhatsApp groups	Krishi Vigyan Kendra 1	201
		Krishi Vigyan Kendra 2	168
		Krishi Vigyan Kendra 3	181
5	Twitter Account	KVK Waghai, NAU (The Dangs)	58

**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 - 1**

**Adoption of SRI technic for higher production and profit from paddy cultivation**

**P. P. Javiya, H. A. Prajapati, S. A. Patel, J. B. Dobariya & B. M. Vahunia**

**Name of farmer** Shri Govindbhai Babajubhai Machhi  
**Village** Uga (Chichpada), Post:Rambhas, Ta: Waghai, Dis:- Dangs, Gujarat  
**Education qualification** 10<sup>th</sup> pass  
**Land holding** 0.84 ha (Irrigated)



**1. Situation Analysis/Problem:**

Govindbhai Babajubhai Machhi is a farmer of village Uga (Chichpada), Ta: Waghai, Dangs in the Gujarat educated up to 10<sup>th</sup> standard and having 0.84 ha land. He has 45 year experience in farming. Somehow, they were earning their livelihood by practicing rainfed agriculture in their land. He was growing local and old varieties of paddy, vari and ragi during the Kharif season and gram in rabi season. Use of traditional method (Random showing) in sowing of paddy and other crops, could not give the proper yield due to less tillering and high weed infestation to Govindbhai. Under such situation, it was difficult to sustain economic security and standard of living of his family. Therefore Govindbhai was in search of farming system which gives a proper remuneration to his family.

**2. Plan, implement and support:**

Uga was one of our adopted villages, team of KVK scientists had made survey of the village to identify the adoption gap and technological needs of farmers as well as their socio economic status. The development plan of village for various TOT activities has been prepared. Among various technological gaps, the KVK scientists have worked out the gap regarding method of sowing, seed rate and fertilizer application in paddy by the farmers. Scientist (Crop production) decided to intervene on this point and given demonstration of SRI technic to the farmers. The farmers have been given training on gram package of practices. The team of KVK scientist made frequent visits of the farmers’ field and guided them accordingly for various operations.

Uga is tribal dominated villages situated 8 km away from Krishi Vigyan Kendra, Waghai, Dist. Dangs head quarter. The farmers of these villages are recourse poor with undulating, fragmented land. Majority of the farmers are marginal farmers. The farmers have purchased the paddy from private seed companies and showing by random method. Then the Krishi Vigyan Kendra intervened and trained the farmers of these villages about the land selection, sources of seed, seed rate, SRI technic, harvesting and post-harvest handling of seeds and also provides seed, biofertilizer and novel organic fertilizer to farmers, also gave demonstration, scientist visit to farmer’s field, field day etc. Among the all farmers of uga, Govindbhai was an early adopter farmer. Shri. Govindbhai decided to do a proper management and adopt SRI technic in paddy crop due to the continuous efforts of KVK.

**3. Output:**

**Economics:**

Details of Technology	Name of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield
			Demo	Check	
SRI Technic	Govindbhai Babajubhai Machhi	0.20	2430	2840	

Details	No. of Farmers /demos	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
		Gross Cost	Gross Return	Net Return	CBR	Gross Cost	Gross Return	Net Return	CBR
SRI Technic	Govindbhai Babajubhai Machhi	20000	51120	31120	2.56	25000	43740	18740	1.75

In random showing of paddy the farmer was able to harvest average of 2430 kg/ha seed yield as against 2840 kg/ha seed yield in demonstration (SRI technic) with an increase of 16.87 per cent. The net benefit incurred was Rs. 31120 per hectare in SRI technic plot of paddy.

#### 4. Outcome

As a result of intervention, the seed rate has been reduced to 25 kg/ ha in SRI technic of paddy. Further due to SRI technic, the application of fertilizers, weeding and other interculturing operations were become easy for the farmers which in turn saved labour charges and increased family income which ultimately improved the standard of living of the farm family.



Seed, Biofertilizers and novel organic fertilizer distribution



Seed treatment

#### 5. Impact

By implementing this, farmers become aware about the importance and benefits of SRI technic. Cost of cultivation was decreased in demonstration plots up to the tune of 15-20 per cent. Net return of seed in demonstrated plots was Rs. 31120/ ha and cost benefit ratio is 2.56, whereas, in control plot was Rs. 18740/ ha and cost benefit ratio is 1.75.



Training



FLD Visit


**Photographs of Achievements / Innovation / technology / farm:**



**SRI Technic**

## Success Story - 2

### Higher Income through Horticulture in the Dangs District H. A. Prajapati, P. P. Javiya, J. B. Dobariya, B. M. Vahunia & S. A. Patel

<b>Name of farmer</b>	Shri. Manubhai Sabalbai Bhoje	
<b>Village</b>	Vankan, Ta: Waghai, Dist: Dangs State: Gujarat	
<b>Education qualification</b>	4 <sup>th</sup> pass	
<b>Land holding</b>	1.0 ha (Irrigated)	

#### **Situation Analysis/Problem Statement:**

Manubhai Sabalbai Bhoje is a farmer of village: Vankan, Taluka: Waghai, District: Dangs in the Gujarat, educated up to 4<sup>th</sup> standard and having 1.0 ha land. He has twenty five years experience in farming. Somehow, they were earning their livelihood by practicing rainfed agriculture in their land. He was growing local and old varieties of Paddy, Pointed Gourd, Littlegourd during the kharif season and gram and some pulses in rabi season. Use of the local varieties of various crops could not give the proper remuneration to Manubhai. Under such situation, it was difficult to sustain economic security and standard of living of his family. Therefore Manubhai was in search of farming system which gives a proper remuneration to his family.

#### **Plan, Implement and Support:**

By somehow, he came to know about Krishi Vigyan Kendra, Dangs. Shri. Manubhai started to visit the Krishi Vigyan Kendra in order to get proper guidance about scientific cultivation of various cucurbitaceous crops. Horticulture scientist impressed to see his keen interest in scientific cultivation of horticultural crops. The Scientist of Krishi Vigyan Kendra guides him properly and tells him to grow a various cucurbitaceous crops with a scientific approach. The scientist of KVK started a series of activities i.e. training, demonstration, scientist visit to farmer's field, field day etc. to deal with the existing problems and observed a positive impact. Shri. Manubhai installed a low cost polyhouse for the seedling preparation in his farm and decided to do a proper management of various crops due to the continuous efforts of KVK.

#### **Output:**

At present Manubhai has adopted scientific approach regarding the cultivation of various cucurbitaceous crops and for the seedling preparation. He has adopted cucurbitaceous crops like Littlegourd, Pointed Gourd, Bottle gourd and seedling preparation of different crops. He uses proper scientific cultivation practices as per the guidance provide by the scientists of KVK through training, demonstrations and very frequent farm visit.

After getting success, Shri Manubhai realizes the importance of uses of scientific cultivation practices and also motivated to other farmers by making awareness about this technology in terms of:

- ✓ 10 to 20 % water & 5 to 10 % fertilizer saving with increase in their efficiency.
- ✓ Increase in yield and net profit.
- ✓ Low incidence of pest and diseases.
- ✓ Reduce the spray of Insecticide



Bottle gourd cultivation



Okra cultivation



Cowpea cultivation



Tomato cultivation



Turmeric cultivation

**Outcome:**

Due to adoption of scientific cultivation practices, his constant effort and hard work and timely support from KVK & NGOs he could achieve very impressive growth in scientific cultivation of cucurbitaceous crops and in seedling preparation. ATMA agency note down his efforts towards the cucurbitaceous crops cultivation and gave the District level best ATMA award with certificate and 25000 cash prize..

**Impact**

Before kvk intervention shri Manubhai grow only desi varieties of ragi, vari, rice & Gram. His net worth per annum is hardly Rs 87000.00 to Rs.88000.00 (approx.). After the kvk intervention his net worth per annum is 2.00 to 2.50 lakh (approx.).

Sr. No.	Crop name	Area (ha)	Cost of cultivation(Rs.)	Gross return (Rs.)	Net return (Rs.)
<b>Year : 2018</b>					
1	Littlegourd	0.20	11000.00	45000.00	34000.00
2	Ponted gourd	0.20	12500.00	34000.00	21500.00
3	Bottle gourd	0.20	13000.00	26400.00	13400.00
4	Chilli seedlings	5000 Nos.	2000	5000.00	3000.00



5	Brinjal seedlings	5000 Nos.	2000	5000.00	3000.00
6	Tomato seedlings	20000 Nos.	7000	20000.00	12000.00
	<b>Total</b>	-	<b>47500.00</b>	<b>135400.00</b>	<b>87900.00</b>
<b>Year : 2019</b>					
1	Littlegourd	0.20	14000.00	54000.00	40000.00
2	Ponted gourd	0.20	13000.00	38850.00	25850.00
3	Bottle gourd	0.20	14000.00	37500.00	12350.00
4	Chilli seedlings	30000 Nos.	20000.00	60000.00	40000.00
5	Brinjal seedlings	50000.00	20000.00	50000.00	30000.00
6	Drum stick plants	1200 Nos.	4000.00	12000.00	8000.00
7	Lemon Plants	1200 Nos.	5000.00	40000.00	35000.00
8	Tomato seedlings	20000 Nos.	5000.00	20000.00	15000.00
	<b>Total</b>	-	<b>95000.00</b>	<b>312350.00</b>	<b>217350.00</b>
<b>Year : 2020</b>					
1	Littlegourd	0.20	15000.00	72000.00	57000.00
2	Ponted gourd	0.20	14000.00	56000.00	42400.00
3	Bottle gourd	0.20	16000.00	54000.00	38000.00
4	Chilli seedlings	30000.00	18000.00	60000.00	48000.00
5	Brinjal seedlings	50000	18000.00	50000.00	32000.00
6	Pointed gourd plants	1000	2000.00	10000.00	8000.00
7	littlegourd Plants	2500	5000.00	25000.00	20000.00
8	Tomato seedlings	20000.00	5000.00	20000.00	15000.00
	<b>Total</b>	-	<b>93000.00</b>	<b>347000.00</b>	<b>254000.00</b>

For the success of Cucurbits cultivation in tribal areas he believes that it is due to intensive guidance provided by the Scientist Mr. H. A. Prajapati. This impressive result of scientific cultivation turned Manubhai from poor farmer to happy progressive farmer. The success of cucurbits cultivation in resource poor areas is a unique example to generate the employment as well as empower the tribal economy in the country.

### Success Story – 3

#### Title – Popularizing cue lure trap for control of fruit fly trap in Bitterguard

B. M. Vahunia, J. B. Dobariya, P. P. Javiya, S. A. Patel & H. A. Prajapati

#### B. M. Vahunia

Name – Budhyabhai Balubhai Pawar

Village – Lahandabas, Ta. – Ahwa, Dist. - Dangs (Gujarat)

Mo. – 94284 94198



#### 1. Situation Analysis/ Problem Statement:

Profile		
Age	45	Before contact with KVK, Waghai, he was not actively use plant protection measure. Economic condition is not strengthening after lot of work.
Education	Up to third standard	
Land Holding	2 Hectare	
Farming Experience	10 year	
Crop grown	Bitterguard, strawberry, Paddy, Nagli	
Animal own	03	

Budhyabhai Balubhai Pawar is a farmer of village Lahandabas, Taluka- Ahwa, District- Dangs in Gujarat. Budhyabhai complete his education up to 3<sup>Rd</sup> standard and having 1 Hactare of land. Somehow, he was earning his livelihood by practising rainfed farming in her land. He was growing local and old varieties of Paddy, nagli during Kharif season and Strawberry in rabi season. Under such situation, he needed some additional or supplementary income to increase income, food & Nutritional security of her family. Therefore, he was in search of some alternate sources of income.

By the some sources, he contacts KVK imparting knowledge and Training for Bitterguard cultivation and IPDM in Bitterguard. he got knowledge about scientific cultivation of Bitterguard and also get Folder and material of Bitterguard in Gujarati language by SMS of KVK. Earlier he was doing well in bitterguard cultivation but somehow in last few years he facing problem of fruit fly in her field and for that problem he get less price as well as less production in bitterguard due to fruit fly attack. Due adoption of cue lure trap technology for fruit fly management, hard work and timely support from KVK, he was able to increase income.

The success of cue lure trap in poor area is a unique example to generate income

#### 2. Plan, implementation and Support

The team of KVK scientist had made survey of the village to identify adoption gap and Technology needs of farmers as well as their social economic status. The development plan of village for various activities has been prepared. Among various technology gaps, the KVK Scientist have worked out following activities-

- Training on role of IPDM
- Give Extra motivation to use cue lure trap
- Providing literature in local language
- Technical Guidance for pest management in Bitterguard

- Given cue lure trap in FLD
- Advisory service
- Follow-up visit



### 3. Output

After training he got cue lure trap and carried out cultivation on her own and with KVK intervention. Install cue lure trap 12/ha with scientific method and was able to manage fruit fly trap infestation.



### 4. Outcome

Budhyabhai get high production after installation of cue lure trap and KVK waghai also guide to buried infested fruit so, eggs and larva present in fruit may control easily. So how to break fruit fly cycle understood by budhyabhai easily.

### 5. Economic Impact

Details of Technology	No. of Farmers /Demos	Area (ha)	Yield (q/ha)				% Increase in yield			
			Demo			Check				
			Highest	Lowest	Average					
Cue lure trap	01	0.2	103	91	96.02	74.04	22.95			
Details	No. of Farmers /demos	Area (ha)	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
			Gross Cost	Gross Return	Net Return	CBR	Gross Cost	Gross Return	Net Return	CBR
Cue lure trap	01	0.2	52145	192057	139912	3.69	51007	148080	97072	2.91

## Success Story-4

### Title: Economic Empowerment through Innovative Dairy Business in Dangs district Situation

#### Analysis/Problem Statement

S. A. Patel, B. M. Vahunia, H. A. Prajapati, P. P. Javiya, & J. B. Dobariya

Arjunbhai Maharubhai Gayakwad is a farmer of Village-Dokpatal, Taluka-Waghahi, District-Dangs in Gujarat, educated up to M.A. and having 5.0 Acre of land. His wife is a housewife. They have Two children a son and one daughter. Somehow, they were earning their livelihood by practicing rain fed agriculture in their land. He was growing local and old varieties of Paddy, Ragi and Ground nut during Kharif season. He had two bullocks, 3 cows of local origin and 2 Crossbreed cows. These animals were a burden rather than a source of income due to the meagre productivity; however the bullocks were used for the agricultural operations. Under such situation, it was difficult to sustain house hold food and nutritional security of his family. Therefore, he was in search of some alternate sources of income.



**Arjunbhai Maharubhai Gayakwad and his wife Parvatiben**  
Village: Dokpatal, Taluka-Waghahi, District Dangs -394 730 (Gujarat)  
Age: 54 years, Education: M.A., Size of Land holding: 5.0 Acre

#### Plan, Implement and Support

By some sources, he came to know about some welfare schemes for tribal. First of all he visited a co-operative dairy & Progressive farmers in a nearby village and he also decided to extend & good manage co-operative dairy in his village. But for that he has to convince his villagers.

Meanwhile his village, Dokpatal was adopted by KVK of the district. A series of animal husbandry activities like meetings, trainings, kisan goshtis, field visits, Diagnostic visit, Farmer scientist interaction, Film show and visit to a dairy co-operative has been started by KVK scientists Arjunbhai and other interested farmers had purchased HF cross-bred cow. They also good mange co-operative dairy and Arjunbhai himself became a secretary.

As cross bred cow was a new enterprise for them, they often faced so many troubles for proper guidance. In the beginning he was not able to maintain the proper health of his animals. He started to visit the KVK in order to get the guidance for maintaining the dairy animals. Animal scientist of KVK was impressed to see his keen interest in dairy farming. KVK scientist noted that the farmers of this village were rearing their animals with traditional methods, imbalance in use of feeds and fodder as well as facing the chronic problem of anoestrus, repeat breeder and poor growth. The Scientist of KVK started a series of activities i.e. **training, demonstration, Diagnostic visit, Farmer scientist interaction, Film show, Scientist visit to farmers field** etc to deal with the existing problems and observed a positive impact.

### Output

At present, Arjunbhai has adopted scientific concepts to rear his animals as per the suggestions given by KVK scientists. He has extended his farm and today he owned 6 milking HF crossbred cows, 4 heifers and 1 calf. He has constructed a Pakka house with manger and a locally made automatic water supply device. He has purchased Chaff cutter for cutting fodders. He used local materials like simple balties, PVC pipes, valves and PVC water tank for making such automatic watering device. He uses proper concentrate feed, green and dry fodder, mineral mixture, timely vaccination, de-worming and diagnosis as per the guidance provide by the scientists of KVK through training, demonstrations and very frequent farm and home visits.

### Outcome

Due to adoption of improved practice, his constant efforts and hard work and timely support from KVK and other line departments and Vasudhara dairy he could achieve very impressive growth in dairy farming as per below table.

### Impact of KVK

Sr. No.	Particulars/ Items	Before KVK intervention	After KVK intervention (2018)
1	Animals own	3-Desi cows 2- Desi Bullocks 2 Cross breed	6- HF cows 4-Heifers 2- Bullocks 15 poultry birds
2	Vaccination & De-worming	Not proper	Regular
3	Milk production (day)	Initial 1.5-2.0 lit/day	Average-5-8 lit/cow/day he could sold milk of about 19-24 lit/day i.e. highest income up to Rs. 20000/- per month
4	Highest milk production per animal per day	1.5 lit/day	Up to 14 lit/day/animal
5	Anoestrus and repeat breeder problems	Yes	No
6	Inter-calving interval	More than 2.5 yrs	12-15 months
7	Service period	Average-120-150 days	90 days
8	No. of service per conception rate	7-8	1-2
9	Growth of calves and heifers	Poor	Good
10	Age of first calving	4-5 yrs	30-36 months
11	Economics enhancement Income per month(Net profit) Income through selling of self reared HF animals	Not good Nil	Rs.16,000-19,000 per month Planned in future
12	Modern assets in the house because of dairy farming	Nil	Freeze – 1 TV - 1 Telephone - 1 Motorcycle - 1 Tractor-1
13	Bank loan	-----	---
14	C.B. Ratio		1: 1.94

For the success of dairy farming in tribal areas he believes that it is due to intensive guidance provide by the Scientist of KVK, Dr. S. A. Patel and Other scientist as he considering me as a family member. In addition to this, humble support made by Vasudhara dairy as well as state government to provide subsidy for purchasing the cross bred cows and proper marketing facility, respectively.

He feels that having good genetic potential and dairy characters of HF cross bred animals plays an important key role in dairy business. He also emphasized that after starting the dairy farming he need not to go anywhere for earning employment as well as he could make himself away from the money lender's clutch to satisfy his family needs. Now he can easily manage his all needs due to dairy farming and able to think in advance for the sake of better life.

This outstanding result of dairy farming turned Arjunbhai Maharubhai Gayakwad & his wife Parvatiben from poor farmer to a happy progressive dairy farmer. The success of dairy farming with innovative technologies in resource poor areas is a unique example to generate the employment as well as empower the tribal economy in the country.

## Success Story-5

### Title: Stories of value addition

**J. B. Dobariy, S. A. Patel, B. M. Vahunia, H. A. Prajapati & P. P. Javiya**

**Name:** Kalpanaben Amrutbhai Gaekwad

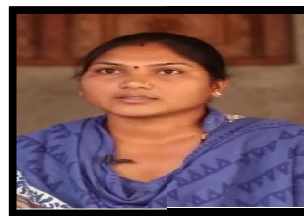
**Village:** At. Nadagkhadi, Po. Pimpri, Ta. Ahwa, Dist. Dangs

**Phone No:** 9429784805

**Age:** 36

**Study:** 10passes

**Main occupations:** farming and bakery



### Inspiration and guidance

“The ridhi siddhi sakhi mandal” established by entrepreneur women. They made toss of finger millet, finger millet butter, finger millet Biscuits and many more. They started this *Sakhi Mandal* just since three months apart from this routine house work e.g. homework, agricultural work, even though they have to take care of their children and still find a time for their new small business but all the members can’t do this business & finally they had started to make backers produces from finger millet. They face lot of problems but overcoming all obstacles & success in backing product business. They want to make this business in large area and in multiple locations in future.

### Success and achievement

After a month of training at Aga Khan Trust Waghai and Krishi Vigyan Kendra, N.A.U. Waghai they started their new venture. For the publicity & advertisement of their business they went up to Ahmedabad. They have done marvelous business at Ahmedabad. After this local people as well as touring people aware about their new venture, they were selling their bakery product at Ahwa Dangs Darbar and public places by installing of stall. The villagers, teachers, visitors etc. started purchasing their product. They receive honors and award from N.A.U. as well as from other departments. They developed marketing as well as communication skills. They receives award on 8th march i.e. in Women’s Day celebration for making organic products produces from finger millet. They are now role model for after women’s as well as for after SHG of Dangs district.

### Other activities

They now guide after women as well as offer SHG to make backers products In their own “Apna Backers” and how to market that. Now the group was become self-dependent and makes their own bakers.

### Congregation's annual benefit

Bakery products are shipped to Surat, Saputara, Ahmedabad and Mumbai. Apart from the first year, the annual turnover of Apna Bakery has reached Rs. 2.50lakhs. Jayeshreeben Bhoje, who works in a bakery, said we used to get a daily wage of Rs. 100as a farm laborer, now we get Rs. 200 per day from this bakery.

Ridhi Siddhi Sakhi Mandal





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

**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)**

**ITK Technology 01**

<b>Sr. No.</b>	<b>Particular</b>	<b>Detail</b>
1	Name of integration of indigenous technical knowledge (ITK) and traditional Practices (TP).	Cow Dangs made storage unit
2	Description of ITK/TP	Farmers made storage by use of bamboo stick and on that stick they paste cow Dangs & mixed with soil. After that they also inserted neem leaves, sticks etc. It helpful for long storage of grain.
3	Name of framer/village from where the information collected	Sitarambhai Shilubhai Vank - Dokpatal
4	Method of preparation/use of ITK/TP, if any	For good storage and reduce storage grain pest.
5	Dose/rate/amount/time of use of ITK/TP,	After harvesting
6	Benefits/effect of ITK/TP on yield/production/control of disease-pest/saving of inputs etc	Increase life as well as control/reduce grain post
7	Whether farmers adopting at present? Yes/No If yes, from how many years?	Yes, last 30-35 years
8	Any other supportive information	Nil

**ITK Technology 02**

<b>Sr. No.</b>	<b>Particular</b>	<b>Detail</b>
1	Name of integration of indigenous technical knowledge (ITK) and traditional Practices (TP).	Bird trap
2	Description of ITK/TP	Farmers place bird trap made up of sticks, leaves etc. at the time of sowing. Farmers also place bait for bird. Then remove trap after some time or emergence of crop. So that traps catch bird and save their seed from bird attacks.
3	Name of framer/village from where the information collected	Ajaybhai V. Gayakwad - Ambapada
4	Method of preparation/use of ITK/TP, if any	For locally pest control
5	Dose/rate/amount/time of use of ITK/TP,	At time of sowing
6	Benefits/effect of ITK/TP on yield/production/control of disease-pest/saving of inputs etc	Control of Pest attack
7	Whether farmers adopting at present? Yes/No If yes, from how many years?	Yes, last 15-20 years
8	Any other supportive information	It can also helpful in guava like fruit orchard

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

**A. Practicing Farmers**

- a) Organic farming
- b) Use of mulching with drip irrigation in mulching
- c) Organic protection measure

**B. Rural Youth**

- a) Farm mechanization
- b) Use of various Agri apps
- c) Bee keeping
- d) Mushroom production

**C. In-service personnel**

- a) Use of bank credit in Agriculture
- b) Organic farming
- c) Pont for doubling farmer's income

**5.2. Indicate the methodology for identifying OFTs/FLDs**

**For OFT:**

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

**For FLD:**

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

**5.3. Field activities**

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

## 6. LINKAGES

### A. Functional linkage with different organizations

Name of organization	Nature of linkage
Navsari Agricultural University	Provides technical experts for various disciplines as well as practical training to the trainees during educational tour. Teaching at Agricultural college & politechnique of NAU, Waghai.
NAIP, ICAR	Technical support
Agricultural department, District Panchayat , Ahwa Dept. of Horticulture, Ahwa	Helps in organizing in service training for VLWs, khedut shibir and conducting sponsored training programme by receiving the grant from DAO Ahwa.
ATMA, Dangs	Technical support, joint organization of farmers fair.
FTC, Dangs, and Tapi	Technical support
Forest dept., South Dangs, Ahwa.	Helps in organizing van mahotsav, farmers training.
District Information Department, Ahwa.	Publish the activities in news papers.
Veterinary college, NAU, Navsari, Department of Ani. Husb., Ahwa Vasudhara dairy, Waghai	Organization of programme jointly- animal treatment camp, khedut shibir, calf rally etc.
Mahila samakhya,Ahwa.	They depute the SHG for training in the KVK.
District Watershed Development Agency, Ahwa	Training & technical advice.
Lotus foundation, Waghai, World vision, Waghai Rowadan trust, Ahwa, ICDS, AKRS (Agakhan)	Training & field demonstration.
Bhimrao Ambedkar Trust	Training & technical advice.
Naheru Yuva Kendra, Ahwa, Dangs	Training & technical advice
Collectorate and District Development Officer, Dangs	Election related activities, Krishi Mahotsava and other Government programmes.

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

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

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

### C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

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

### Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
<b>01</b>	<b>Meetings</b>				
		AGB AMC Meeting jilla panchayat Ahea-Dangs	04	01	-
		Salahkar amlikaran samiti meeting jilla panchayat Ahwa-Dangs	07	01	-
<b>02</b>	<b>Research projects</b>				
<b>03</b>	<b>Training programmes</b>				
		Prakrutik kheti	03	01	-
		Prakrutik kheti	02	01	-
		Prakrutik kheti	04	01	-
		Prakrutik kheti	02	01	-
		Prakrutik kheti	02	01	-
		Prakrutik kheti	02	01	-
		Prakrutik kheti	02	01	-
		Prakrutik kheti	03	01	-
		Prakrutik kheti	04	01	-
		Prakrutik kheti	04	01	-
		Prakrutik kheti	03	01	-
		Prakrutik kheti	02	01	-
<b>04</b>	<b>Demonstrations</b>				
		Demonstration kharif crops (Agri)	02	01	-
		Capacity building	05	01	-
<b>05</b>	<b>Extension Programmes</b>				
	KisanMela				
	Technology Week				
	Exposure visit				
	Exhibition	Gadhinagar shree rajypal programme	04	01	-
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
<b>06</b>	<b>Publications</b>				
	Video Films				
	Books				

	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	<b>Other Activities</b> (Pl. specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

#### D. Give details of programmes implemented under National Horticultural Mission

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

#### E. Nature of linkage with National Fisheries Development Board

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

#### F. Details of linkage with RKVY

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

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
	Certification in PGS India	Organic farming	3.30 lak	2,76,136	-

#### 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
-	-	-	-	-	-

#### 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
-	-	-	-	-	-

#### 7. Convergence with other agencies and departments:

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received	Activities organized	Operational Area	Remarks
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			(Rs.)			
KVK-Waghai	ATMA	State		25	Dangs	-
	DRDA	State	-	1	Dangs	-
	Others (Plz. Specify)	Sevadham	-	2	-	-
	DAO	State	-	6	Dangs	-
	ADHO	State	-	8	Dangs	-

### 8. Innovative Farmers Meet

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

### 9. Farmers Field School (FFS)

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:

Sr. No.	Discipline	Feed Back
1.	Crop Production	GNN 8 variety of finger millet was not suitable for Dangs due to early maturity.
2.		Standardization of method of preparation of Jeevamrut and their application.
3.	Horticulture	Need to develop government sector hybrid variety of bittergourd.
4.		Need to develop early variety in the turmeric for the Dangs district.
5.	Plant Protection	Need marketing channel for oyster mushroom.
6.		Mushroom cultivation can be adopted as source of income with agriculture as simple production technology.
7.	Animal Science	Measures must be taken for conservation of local Dangi cattle breed as there is meager number of animals available in its own breeding track of Dangi cattle.
8.		To develop area specific mineral mixture for dang district.
9.	Extension Education	Research should be carried out on natural farming.
10.		Appoint one forest SMS for large scale awareness about crop cultivation in forest areas.

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

Sr. No.	Discipline	Feed Back
1.	Crop Production	Farmers want seeds of indigenous varieties of paddy.
2.		GR 17 variety of paddy was given higher and quality production than local.
3.		GT 104 variety of pigeonpea suitable for Vegetable purpose.
4.	Horticulture	Need to develop government sector hybrid variety of okra suitable for Dangs district.
5.		Research on Government sector variety for safed musli for Dangs district.
6.	Plant Protection	Need organic pesticides pheromone trap and yellow sticky trap from NAU, Navsari.
7.		Fresh mushroom available-for their own consumption.
8.	Animal Science	Feeding area specific mineral mixture along with timely deworming resulted in to better body growth rate.
9.		Feeding bypass fat along with mineral mixture in cross breed cattle resulted increase milk production and better health.
10.	Home Science	Fil up the vacant post home science.

## 11. Technology Week celebration during 2021: Yes/No, If Yes

Period of observing Technology Week: From to 04-01-2021 to 08-01-2021 & 15-11-2021 to 20-11-2021

Online / Offline: Offline

Total number of farmers visited : 809

Total number of agencies involved : 10

Number of demonstrations visited by the farmers within KVK campus: 05

### Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	02	128	-
Lectures organized	52	809	-
Exhibition	09	405	-
Film show	04	103	-
Fair	02	809	-
Farm Visit	05	405	-
Diagnostic Practical's	01	84	-
Supply of Literature (No.)	02	809	-
Supply of Seed (q)	00	00	-
Supply of Planting materials (No.)	00	00	-
Bio Product supply (Kg)	00	00	-
Bio Fertilizers (q)	00	00	-
Supply of fingerlings	00	00	-
Supply of Livestock specimen (No.)	00	00	-
Total number of farmers visited the technology week	72	809	-

### **Detail of Technology Week celebration during 2021 : 04-01-2021 to 08-01-2021**

Sr. No.	Day/ Date	Thematic area	Topic / Technology covered	No. of participants		
				M	F	T
1	First 04/01/2021 Monday	Seminar cum training on Scientific cultivation of cereal & Horticulture crops	<ul style="list-style-type: none"> <li>➤ Pradhan Mantri Fasal Bima Yojana</li> <li>➤ Organic production of <i>Safed musli</i></li> <li>➤ Cereal production by organic farming</li> <li>➤ Doubling farmers income</li> <li>➤ Sales management of organic farm produce</li> <li>➤ SRI technology of Paddy</li> <li>➤ Organic farming in cereal crops</li> <li>➤ State &amp; Central Government Schemes for the farmers</li> </ul>	42	35	77
2.	Second 05/01/2021 Tuesday	Training cum Exhibition	<ul style="list-style-type: none"> <li>➤ Paramparagat Krishi Vikas Yojana</li> <li>➤ Sales management of organic farm produce</li> <li>➤ Plant Protection in organic farming</li> <li>➤ Doubling farmers income</li> <li>➤ Making of <i>Jeevamrut</i> and <i>Panchagavya</i></li> <li>➤ Structure and function of ATMA</li> <li>➤ Demand of organic produce in megacity</li> <li>➤ Nursery management</li> <li>➤ Orchard management</li> </ul>	39	39	78
3.	Third 06/01/2021 Wednesday	Kishan gosthies Diagnostic visit	<ul style="list-style-type: none"> <li>➤ Importance of green manuring in Organic farming</li> <li>➤ Environmental protection through organic farming</li> <li>➤ Organic farming in fruit crops</li> <li>➤ Different methods of preparation of</li> </ul>	70	18	88

			bio fertilizer ➤ Main elements of Organic farming ➤ Organic farm produces and marketing management ➤ Encouragement of organic farming in dry land areas ➤ Farmers feedback towards organic farming ➤ Doubling farmers income ➤ Making of <i>Jeevamrut</i> and <i>Panchagavya</i> ➤ Integrated crop Management in Horticultural crop ➤ Important of water conservation & ➤ Use of Biofertilizer in pulse crop.			
4.	Forth Day 07/01/2021	Exhibition, Lectures, Method Demonstration, TV & Film show, Nursery management, Farmer training program	➤ Cash studies vedigraphy of Manoharbai (Surat-Kamrej), Valjibhai Marad (Marad-Kach), Nareshbhai (Anand) ➤ Information of Submission on Agriculture Mechanisation ➤ Honee bee production Scientific farming in mashroom crops ➤ "SRI" methods in Paddy ➤ Scientific crop production and its importance ➤ Organic farm produces and marketing management ➤ Different methods of preparation of bio fertilizer ➤ Making of <i>Jeevamrut</i> and <i>Panchagavya and Amrutpani</i>	36	12	48
5.	Fifth Day 08/01/2021	Exhibition, Lectures, Method Demonstration, Nursery management, Farmer training program, Farmer scientist Interaction, Group discussion	➤ Contribution of Agrometeorology in agriculture ➤ Scientific farming of Pulse crops ➤ Importance of Vactination in Animal husbandry ➤ Use of ICT tools in agricultures ➤ Use of biofertilizer in different crops of Dangs district	59	15	74
<b>Total</b>				<b>246</b>	<b>119</b>	<b>365</b>

#### Detail of Technology Week celebration during 2021 : 15-11-2021 to 20-11-2021

Sr. No.	Day/ Date	Thematic area	Topic / Technology covered	No. of participants		
				M	F	T
1	First 15-11-2021	1) TV/Film show 2) Exhibition stall 3) Lecture Delivered	➤ Organic production of <i>Safed musli</i> ➤ Cereal production by organic farming ➤ Doubling farmers income ➤ Sales management of organgnic farm produce ➤ SRI technology of Paddy ➤ Organic farming in cereal crops	72	14	86
2.	Second 16-11-2021	1) TV/Film show 2) Exhibition stall 3) Lecture Delivered	➤ Information of Submission on Agriculture Mechanisation ➤ Honee bee production Scientific farming in mashroom crops ➤ "SRI" methods in Paddy ➤ Scientific crop production and its importance ➤ Organic farm produces and marketing management	51	13	64



3.	Third 17-11-2021	1) TV/Film show 2) Exhibition stall 3) Lecture Delivered	<ul style="list-style-type: none"> <li>➤ Environmental protection through organic farming</li> <li>➤ Organic farming in fruit crops</li> <li>➤ Different methods of preparation of bio fertilizer</li> <li>➤ Main elements of Organic farming</li> <li>➤ Organic farm produces and marketing management</li> <li>➤ Encouragement of organic farming in dry land areas</li> </ul>	27	14	41
4.	Forth Day 18-11-2021	1) Exhibition stall 2) Lecture Delivered	<ul style="list-style-type: none"> <li>➤ Scientific farming of Pulse crops</li> <li>➤ Importance of Vaccination in Animal husbandry</li> <li>➤ Use of ICT tools in agricultures</li> <li>➤ Use of biofertilizer in different crops of Dangs district</li> </ul>	82	12	94
5.	Fifth Day 19-11-2021	1) Exhibition stall 2) Lecture Delivered 3) Method demonstration 4) Farmers scientist interaction	<ul style="list-style-type: none"> <li>➤ Farmers feedback towards organic farming</li> <li>➤ Doubling farmers income</li> <li>➤ Making of <i>Jeevamrut</i> and <i>Panchagavya</i></li> <li>➤ Integrated crop Management in Horticultural crop</li> <li>➤ Important of water conservation &amp; Use of Biofertilizer in pulse crop.</li> </ul>	35	13	48
6.	Sixth day 20-11-2021	1) Exhibition stall 2) Lecture Delivered 3) Farmers scientist interaction	<ul style="list-style-type: none"> <li>➤ “SRI” methods in Paddy</li> <li>➤ Scientific crop production and its importance</li> <li>➤ Organic farm produces and marketing management</li> <li>➤ Different methods of preparation of bio fertilizer</li> <li>➤ Making of <i>Jeevamrut</i> and <i>Panchagavya</i> and <i>Amrutpani</i></li> </ul>	95	15	111
<b>Total</b>				<b>362</b>	<b>81</b>	<b>444</b>

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

### 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	NA	NA
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
<b>Total</b>		

### C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No. of participants
<b>Gujarat</b>	Green & dry Fodder management, Nutritional management in milch animals, Lumpy skin disease treatment, Importance of Dry periods, Use chaff cutter for cutting fodder, information about heat detection, Care & Management of milch animals, Fodder management, Fodder management, importance of green fodder in milch animals, Importance of manger in animal shed, Importance of manger in animal shed, Calf rearing	<b>13</b>	<b>43</b>
<b>Total</b>		<b>13</b>	<b>43</b>

### D. Animal health camps organized

State	Number of camps	No. of animals	No. of farmers
<b>1</b>	<b>1</b>	<b>27</b>	<b>27</b>
<b>Total</b>	<b>1</b>	<b>27</b>	<b>27</b>

### E. Seed distribution in drought hit states (Seed distribution/sold by KVK)

State	Crops	Quantity (qtl)	Coverage of area	Number of
-------	-------	----------------	------------------	-----------

			(ha)	farmers
-	-	-	-	-
<b>Total</b>				

F. Large scale adoption of resource conservation technologies

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

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
-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>												

**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)
Knowledge	100	34.78	18.00	01.00
Adoptive	100	71.00	77.00	72.00
			05.00	27.00

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)**

- Name of the Award:** Jagjivan Ram Abhinav Kisan Puruskar : 2021
- Year:** 2021
- Name of the Farmer:** Chandrasingh Mandabhai Chhaganiya
- Father name:** Mandabhai Chhaganiya
- Marital Status:** Married
- Date and place of birth:** 01-06-1966; Rambhas, Tal: Waghai, Dist: Dangs, Gujarat
- Postal address:** Rithi Faliya, Village: Rambhas, Tal: Waghai, 394730, Dist: Dangs, Gujarat, Mo: 9099370139, 9429531281
- Formal/informal education:** Agriculture diploma
- Resources owned by Farmer**
  - Land (ha): 3.5 ha
  - Water bodies with irrigation capacity: Bore well
  - Animal Resources including fish and Poultry: 4 cattle (2 HF cows + 2 Calves)
  - Farm Machinery: Honey extract machine, Queen Protector Machine, Bee protection dress, Queen Capacitor and Honey bee box
- Area Under**
  - Field Crops: Paddy, Pigeon pea, Black gram, Finger millet, Little millet
  - Horticultural Crops: Cashew nut, Mango, Onion, Garlic, Tomato, Brinjal
  - Agro forestry/ Apiculture/ Sericulture: Bamboo, Tick wood, Honey bee unit
  - Dairy/ Poultry/ Fisheries/ Duckaries/ Piggaries (specify unit): 4 cattle (2 HF cows + 2 Calves)
- New Technologies developed:**
  - Creation of Rani Honey Bee & innovation of stingless bee
  - Bee keeping in pot
- New Technologies adopted in Farming (List only)**
  - Organic farming

- (ii) Cultivation of tomato in net house
- (iii) Cashewnut plantation
- (iv) Adopted drip irrigation
- (v) Adopted crossbred dairy animals

**13. Technologies modified if any:**

- Design own honey bee box

**14. Activity wise income, cost benefit ratio, gross and net income year wise for previous five years**

(i) Field crops

Sr. No.	Year	Crop	Area (ha)	Production (kg)	Income (Rs.)	Cost of cultivation (Rs.)	Benefit (Rs.)
1.	2017	Paddy	1.15	4200 (Rs 13/Kg)	54600/-	26000/-	28600/-
		Finger millet	1.0	990 (Rs 15/Kg)	14850/-	5000/-	9850/-
2.	2018	Finger millet	1.15	1050 (Rs 16/Kg)	16800/-	6000/-	10800/-
		Black gram	1.00	680(Rs 40/Kg)	27200/-	7000/-	20200/-
3.	2019	Finger millet	1.15	1050 (Rs 17/Kg)	17850/-	6000/-	11850/-
		Little millet	1.00	1100 (Rs 17/Kg)	18700/-	6500/-	12200/-
4.	2020	Paddy	1.15	4660 (Rs 17/Kg)	79220/-	25000/-	54220/-
		Pigeon pea	0.50	540 (Rs 47/Kg)	25380/-	4500/-	28880/-
5.	2021	Paddy	1.15	5020 (Rs 18/Kg)	90360/-	23000/-	67360/-
		Pigeon pea	0.50	560 (Rs 49/Kg)	27440/-	5000/-	22440/-

(ii) Horticulture crops

Sr. No.	Year	Crop	Area (ha)	Production (kg)	Income (Rs.)	Cost of cultivation (Rs.)	Benefit (Rs.)
1.	2017	Onion,	0.20	3649(Rs 10/Kg)	36490/-	15000/-	21490/-
		Garlic	0.25	2500(Rs 35/Kg)	87500 /-	20000/-	67500/-
2.	2018	Tomato	0.50	7500 (Rs 5 /Kg)	37500/-	25000/-	12500/-
		Brinjal	0.40	2000 (Rs 4 per Kg)	8000/-	3000/-	5000/-
3.	2019	Cashewnut	0.10	120 (140 per kg)	16800/-	5500/-	11300/-
		Mango	0.05	135 (Rs 21 per kg)	2835/-	1600/-	1235/-
4.	2020	Cashewnut,	0.10	133.33(150 per kg)	20000/-	5400/-	14600/-
		Mango	0.05	140 (Rs 22.5 per kg)	3150/-	1500/-	1650/-
5.	2021	Cashewnut,	0.10	140 (150 per kg)	21000/-	5300/-	15700/-
		Mango	0.05	180 (Rs 22.5 per kg)	4050/-	1400/-	2650/-

(iii) Livestock

Sr. No.	Year	No of Animal	Milk production	Income (Rs.)	Cost (Rs.)	Net benefit (Rs.)
1.	2017	1 (HF Cows)	1200 liter	Rs. 23 per liter (27600)	15000/-	12600/-
2.	2018	1 (HF Cows)	1350 liter	Rs. 24 per liter (32400)	14000/-	18400/-
3.	2019	2 (HF Cows)	2500 liter	Rs. 25 per liter (62500)	36500/-	26000/-
4.	2020	2 (HF Cows)	2700 liter	Rs. 25 per liter (67500)	37000/-	30500/-
5.	2021	2(HF Cows)	2900 liter	Rs. 25 per liter (72500)	40000/-	32500/-

(iv) Fisheries: ----

(v) Any other: Apiculture

Sr. No.	Year	Crop	Area	Production (kg)	Income	Cost of cultivation	Benefit
1.	2017	Honey bee	70 box	85 (Rs 1000 per kg)	85000	25000	60000
2.	2018	Honey bee	70 box	90 (Rs 1000 per kg)	90000	25000	65000
3.	2019	Honey bee	70 box	92 (Rs 1000 per kg)	92000	20000	72000
4.	2020	Honey bee	70 box	100 (Rs 1000 per kg)	100000/-	30000/-	70000/-
5.	2021	Honey bee	70 box	130 (Rs 1000 per kg)	130000/-	35000/-	95000/-

**15. Productivity Levels achieved in major income generating activity during the last five years.**

Apiculture (Honey production)

Year	Gross In Lakhs	Expenses In Lakhs	Net profit In Lakhs
2017	0.85	0.25	0.60
2018	0.90	0.25	0.65
2019	0.92	0.20	0.72
2020	1.00	0.30	0.70
2021	1.30	0.35	0.95

Bee keeping could be able to increase their annual income by Rs. 25000 over and above Rs. 14500 earned by crop production, Horticulture & Animal husbandry during 2020-21. In per cent terms it was about 172 % higher than that of crop production, Horticulture & Animal husbandry. Honey bee keeping activity helped to increase employment by 92 man days (52.79%) for small farmers.

**16. What improvement have been effected for productivity, profitability and sustainability - enhancement. Adoption of natural farming**

**17. Any spread effect on Fellow Farmers (Give brief account in one page).**

Presently, Chandrasingh bhai trains the local tribals to cultivate honey and has not only attended seminars in Karnataka, Maharashtra, but also in Israel and Italy. Associated with more than half a dozen NGOs. He wants to conduct more research, if some assistance is provided to him. He also established self-employment centre for tribal farmer at his village Rambhas. He has a expert for any training programme conducted by ATMA, NGO and line departments. Narendra modi and Vice chancellor was visiting his stall in the exhibition. He has participated in all agriculture fair and spreads his technology in farming sector. He trained more than 25000 farmer for scientific bee keeping. Giving knowledge about various government schemes and benefited to them.

**18. Innovative interventions inducted in the system of production and management and effects**

- Creation of Rani Honey Bee & innovation of stingless bee
- Bee keeping in pot
- Honey bee keeping also double the farmer income
- Honey bee keeping also increase 30-40 % production in sweet corn, mango and cashewnut

**19. The contribution of the farmers in terms of**

i. New package of practices/ management strategies: Integrated farming approach along with apiculture.

ii. Saving or resources/ inputs: Pot culture technique instead of wooden boxes for apiculture

iii. Breaking technology transfer barriers: Knowledge about different eight types of honey bee survived in Dangs region & Unawareness about apiculture in farmers

iv. Prevention of outbreak of diseases and pests: NA

v. Bringing about radical change in management packages/ in contributing record production from land, water or animals

vi. Recognition received at the Block/District/State level and other sources

- Best ATMA Farmers Award 2011-12

**20. Extent of publicity of his/her innovations/contributions/ success story (Proof Attached)**

Anything is possible with the help of hard work and strong will power. This is the message sent to us by farmer in Dangs - **Chandrasingh Mandabhai Chhaganiya**, who has set an example for us to learn from Chandrasingh (43), a resident of Rambhs village near Waghai in Dangs is an ordinary farmer in the district, but what makes him special is his indepth expertise in honey farming. Through intensive research for more than five years, Chandrasingh has successfully developed a season cycle that can boost the production of honey with the same number of honey bees. He has also cultivated honey from flowers of maize crop, which is usually unheard of. He had undergone 21 day's training at Bharatiya Agro Industries Foundation (FAIF).

"If the bee-hives are kept in different farmer during different season, it can help boost the production of honey by 30-40%. I have also found a technique that can help the honey-bees survive longer. The findings have also been verified by various experts," said Chandrasingh.

Another important innovation that Chandrasingh has come up with is the creation of Rani Honey Bee the only bee that can deliver larva within 16 days. In a bee-hive no female bee other than Rani, can deliver larva and if she dies, the entire beehive gets destroyed.

"I developed this technique, after a Rani Bee in one of my hives died, few months back. Initially, I faced some difficulties in the technique, but now everything is solved. Rani Bee is needed to restore honey production in the hive," he added.

Presently, Chandrasingh bhai trains the local tribals to cultivate honey and has not only attended seminars in Karnataka, Maharashtra, but also in Israel and Italy. Associated with more than half a dozen NGOs, Konkani wants to conduct more research, if some assistance is provided to him.

**21. Any other relevant information (documentary proofs through photos, publications, CDS, certificates, medals and awards, etc.)**

Sr.No	Types of information	Title of document	Name of the institute to provide certificate	Year of achieved
1	CD	Madhpalan Shanshodhan	Self	2010
2	Award	Best ATMA farmers Award	Krushi ane Sahkar Vibhag, Gandhinagar	2011-12
3	Certificate	Innovative Farmers Meet-2011	Navsari Agriculture University, Navsari	2011
4	Sanman Patre	Vibrant Gujarat Global Agriculture Samiti	Government of Gujarat, Gujarat	2013
5	Certificate	Yuva netrutve evam samuhik vikas prasikshan karyakram	Nehru Yuva Kendra, Dangs	2014
6	Certificate	Training of agriculture	Department of agriculture, Gov. of Gujarat	2015
7	Certificate	Innovative Farmers Meet-2016	DEE, Junagadh Agricultural university, Junagadh	2015
8	Certificate	Workshop on Development of SREP	EEL, AAU, Anand	2016
9	Certificate	Traditional sells exhibition	Gujarat Vidhyapith, Ahmedabad	2018
10	Award	Best innovation	Gramin vikas Bank	--
11	Publications (Gujarati article)	Kudaratni Amrut saman Utam Osadh "Madh"	Janagan Weekly	12-18 April 2010
12	Publications (Gujarati article)	Kudaratni Amrut saman Utam Osadh "Madh"	Gujarat	Varse 50, Anke 8, Dated 16-04-2010

13	Publications (News cutting)	Dangno Chandresing, Adivasi shikshit berojgar 25 varse thi Madh upar Sanshodhan karye kari rahya che	Dakshin Gujarat express weekly	Varse anke-28, Guruvar, 8 April 2010
14	Publications (News cutting)	Farmer finds way to boost honey output	DNA, Daily news & analysis	Ahmedabad, Friday, April 16, 2010
15	Publications (News cutting)	Dangna Khedutnu Madhmakhi Palanma Shanshodhan	Krushhi Bhaskar	Surat, 14 may 2012
16	Publications (Gujarati article)	Madhna Vechanthi Varsik 2 lakh kamato Rambhasno Khedut	Agro Sandesh	20 January 2014
17	Publications (Gujarati article)	Success story	Krushhi Govidhya	January 2014
18	Publications (Success story)	Pragatishil khedutni safal varta	Krushijivan	January 2014
19	Publications (Success story)	Madhmakhi Palan Thaki Vadhu avak	Krushhi ane Sahkar Vibhag, Gandhinagar	2017-18

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

**Title: Impact of KVK activities in adopted villages of KVK-Dangs**

#### Investigator:

Dr. J.B.Dobariya, Scientist, (Extension Education) KVK, the Dangs  
Dr. S.A.Patel, Scientist, (Animal husbandry), KVK, the Dangs  
Mr. B.M.Vahuniya, Scientist, (Plant protection), KVK, the Dangs

#### Background

KVK is the Farm Science Center with multidisciplinary aims to transfer the latest technology to farmers in the district. The mandates of KVKs are conducting on farm testing, organizing training, front line demonstrations (FLDs) and to work as knowledge resource center for overall agricultural and rural development through hits various research and transfer of technology mechanisms. The transfer of modern agricultural practices to the farmers with pre-conceived thought of traditional farming calls for a well developed and organized training programmes for the farmers. Training is a critical input for quick transfer of technology and away to improve their agriculture and to uplift their socio economic condition. Keeping this fact in view, many krishi vigyan kendras have been started all over the country. The past studies clearly indicated that KVK is an important medium to impart the latest technical knowhow to the farmers. Other extension activities carried out by the KVK was also important in TOT. Keeping this in view, it was felt worthwhile to study "Impact of KVK activities in adopted villages of KVK-Dangs".

#### Objectives:

1. To study the profile of the respondents
2. To know the impact of KVK activities in adopted villages of KVK-Dangs
3. To ascertain the relationship between dependent and independent variables

#### Methodology:

The present study was conducted in dang district of Gujarat. For the purpose of this study, 10 adopted villages of Waghai, Ahwa and Subir taluka were selected purposively from dang district to conduct the study by following the random sampling methods. A total 200 samples (100 respondent were before the adoption of villages and 100 same respondent were after the adoption of villages) 10 from each village was selected at purposive and random sampling, PRA method were be used. The information of each respondent was collected with the help of pretested, structured interview schedule by personal interview. The collected data were analyzed and interpreted in the light of the objectives with appropriate

statistical tools like percentage, rank, mean and standard deviation. The impact of KVK activities in adopted villages have shown by comparing the tables. The resultant changes occurred due to main training carried out by the scientist of KVKs.

## **Findings:**

The outcome of the present study has been presented here after applying the appropriate statistical analysis. The results have been described under the following subheads in the light of the objectives of the study.

### **1. Study the profile of the respondents**

The data regarding socio-economic and personal characteristics of respondents were analyzed and presented in the following sequence.

The data in age were grouped into three categories viz; (i) Young age (up to 35 years), (ii) Middle age (36 to 50 years) and (iii) Old age (Above 50 years). The data in education was collected and grouped as; Illiterate, primary level of education (1<sup>st</sup> to 7<sup>th</sup> standard), secondary and higher secondary level of education (8<sup>th</sup> to 12<sup>th</sup> standard) including diploma and college level of education (above 12<sup>th</sup> standard).

Press Information Bureau, Government of India and Ministry of Agriculture & Farmers Welfare the operational holdings are categorized in five size classes. They all were grouped into five categories, viz.; (i) Marginal farmer (Below 1.00 ha) (ii) Small farmer (1.1 ha to 2.00 ha), (iii) Semi medium (2.1 ha to 4.0 ha), (iv) Medium (4.1 ha to 10.0 ha) and (v) Large (10.0 ha and above). Family size was measured with the help of SES scale developed by Venkatarmaiah (1983). Family size were grouped into three categories, viz. ; (i) Small size of family (Up to 5 members) (ii) Medium size of family (6 to 8 members) and (iii) Large size of family (Above 8 members). Social participate denotes the involvement of an individual in various social, religious, political, educational as well as cultural groups, organization and institutions. The individual who have generally involved in social participation, they are definitely resourceful, highly advanced and empowered. Maximum cases it is seen that individuals having less/ negligible level or high participation due to social participation. The extent of social participation tells about the progressiveness and social standing of a person in the society. A man with greater exposure is supposed to be more up to date and more enthusiastic about new innovations.

On the base of mean and standard deviation the social participation, extension participation, information seeking behavior and innovativeness were find out. Farming experience was measured on the basis of years. Lower level of farming experience (Up to 5 years), medium level of farming experience (6 to 10 years) and higher level of farming experience (Above 10 years). Animal possession had measured by categorized of animal into having no animal, up to 3 animal, 4 to 6 animals and above 6 animals. Family annual income was measured on the bases of three categories viz, low family income (Up to Rs 1,00,000/-), medium family income (Rs.1,00,001 to 2,00,000) and high family income (above Rs 2,00,000) Scale developed by Supe (1969) with some due modification was adopted for scientific orientation study to measure the degree to which the farmers are oriented towards scientific methods. The scale consisted of six statements out of which one statement was negative, while rests were positive. The responses of the respondents were obtained against each statement in terms of their agreement or disagreements. The positive statements were scored 3, 2 and 1 for agree, undecided and disagree whereas, the scoring system was reversed in case of negative statement. For this variable, the maximum score was 18 and minimum was 6. An arbitrary method was used for categorization to each section. For that the higher score is subtracted from the lower score and divided by the number of categories. The obtained score is added into the lower score until you get the highest score. Later on, same data were used for correlation with dependent variables.

Risk orientation was measured with the help of scale developed by Supe (1969) with due modification. The responses of respondents were obtained against each statement. The positive statements were scored 3, 2 and 1 for agree, undecided and disagree respectively. In case of negative statements the scoring systems were used reverse. For this variable, the maximum score was 18 and minimum was 6. An arbitrary method was used for categorization to each section. For that the higher score is subtracted from the lower score and divided by the number of categories. The obtained score is added into the lower score until you get the highest score. Later on, same data were used for correlation with dependent variables.

Self-confidence indicates the extent of own ability of enterprise owners and resourcefulness in carrying out any activity in the respective enterprise which they desire to undertake. The structure schedule was developed to measure the self confidence in the present study. Total 9 dichotomous statements were created to be answered by the respondents as either 'yes' or 'no'. The 'no' response is given a score of one and 'yes' response a score of 2 for each of the items except numbers 1, 4, 5 and 8 in that case, the scoring process was reversed. The score of an individual was ranged from zero to 18. An arbitrary method was used for categorization to each section. For that the higher score is subtracted from the lower score and divided by the number of categories. The obtained score is added into the lower score until you get the highest score. Later on, correlation with dependent variables was also calculated.

Economic orientation is defined as occupational success in terms of profit maximization and the relative value of an individual places on economic ends. The level of respondents was measured with the scale developed by Supe (1969) with due

modification. The scale consisted of six statements, out of which the two were negative and four were positive. The responses were obtained against each statement in terms of their agreement or disagreement. The positive statements were scored 3, 2 and 1 for agree, undecided and disagree, respectively. The scoring system was reversed in case of negative statements. For this variable, the maximum score was 18 and minimum was 6. An arbitrary method was used for categorization to each section. For that the higher score is subtracted from the lower score and divided by the number of categories. The obtained score is added into the lower score until you get the highest score. Later on, same data were used for correlation with dependent variables. The classified data are presented in table 1

**Table 1: Distribution of respondents according to their Profile** n=100

Sr.No.	Profile of the respondent	Category	Category of farmers			
			Before adoption		After adoption	
			Number	Per cent	Number	Per cent
1	Age	Young age (Up to 35 years)	38	38.00	19	19.00
		Middle age (36 to 50 years)	35	35.00	53	53.00
		Higher age (Above 50 years)	27	27.00	28	28.00
2	Education	Illiterate	05	05.00	05	05.00
		Primary level of education (1 <sup>st</sup> to 7 <sup>th</sup> standard),	31	31.00	31	31.00
		Secondary and higher secondary level of education (8 <sup>th</sup> to 12 <sup>th</sup> standard)	49	49.00	49	49.00
		College level of education and above (Above 12 <sup>th</sup> standard)	15	15.00	15	15.00
3	Land Holding	Marginal farmer (Below 1.00 ha)	32	32.00	41	41.00
		Small farmer (1.1 ha to 2.00 ha)	37	37.00	28	28.00
		Semi medium (2.1 ha to 4.0 ha)	20	20.00	21	21.00
		Medium (4.1 ha to 10.00 ha)	11	11.00	10	10.00
		Large (10.00 ha and above)	00	00.00	00	0.00
4	Family size	Small size of family (Up to 5 members)	44	44.00	44	44.00
		Medium size of family (6 to 8 members)	45	45.00	45	45.00
		Large size of family (Above 8 members)	11	11.00	11	11.00
5	Social Participation	Low	26	26.00	18	18.00
		Medium	66	66.00	76	76.00
		High	08	08.00	06	6.00
6	Extension participation	Low	14	14.00	26	26.00
		Medium	64	64.00	48	48.00
		High	22	22.00	26	26.00
7	Information seeking behavior	Low	21	21.00	16	16.00
		Medium	61	61.00	62	62.00
		High	18	18.00	22	22.00
8	Farming experience	Lower level of farming experience (Up to 5 years)	04	04.000	02	02.00
		Medium level of farming experience (6 to 10 years)	29	29.00	29	29.00
		Higher level of farming experience (Above 10 years)	67	67.00	69	69.00



9	Animal possession	Having no animal	01	01.00	06	06.00
		Up to 3 animal	32	32.00	16	16.00
		4 to 6 animal	35	35.00	28	28.00
		Above 6 animal	32	32.00	50	50.00
10	Innovativeness	Low	04	04.00	02	02.00
		Medium	73	73.00	54	54.00
		High	23	23.00	44	44.00
11	Family annual income	Low family income (Up to Rs 1,00,000/-),	18	18.00	01	01.00
		Medium family income (Rs.1,00,001 to 2,00,000)	77	77.00	72	72.00
		High family income (above Rs 2,00,000)	05	05.00	27	27.00
12	Scientific orientation	Low level of scientific orientation (Up to 10 score)	27	27.00	07	07.00
		Medium level of scientific orientation (11 to 14 score)	61	61.00	18	18.00
		High level of scientific orientation (15 to 18 score)	12	12.00	75	75.00
13	Risk orientation	Low level of risk orientation (Up to 10 score)	28	28.00	09	09.00
		Medium level of risk orientation (11 to 14 score)	65	65.00	40	40.00
		High level of risk orientation (15 to 18 score)	07	07.00	51	51.00
14	Self confidence	Low self confidence (Up to 6 score)	00	00.00	00	00.00
		Medium self confidence (7 to 12 score)	33	33.00	10	10.00
		High self confidence (13 to 18 score)	67	67.00	90	90.00
15	Economic orientation	Lower level of economic orientation (Up to 10 score)	37	37.00	08	08.00
		Moderate level of economic orientation (11 to 14 score)	41	41.00	09	09.00
		Higher level of economic orientation (15 to 18 score)	22	22.00	83	83.00

The data in Table 1 revealed that 38.00 per cent of the farmers had young age group in before adoption in situation while, about 53.00 per cent of farmers were belonged to middle age group situation. It is seen from the table that there was no any change was observed in the level of education in before adoption and after adoption of the villages. It is observed from table 1 that nearly two third of farmers of the villages in before adoption and after adoption (69.00%) possessed small and marginal land holding. Near half of the farmers of villages in before adoption situation and farmers of villages of after adoption (45.00%, 45.00%) had medium family size. The majority of (76.00 %) of farmers had medium social participation after adoption of villages while 66 per cent had the same category of social participation before adoption. In case of extension participation, majority of (64.00 %) farmers of before adoption situation came under medium category, While 48.00 per cent of farmers came under medium categories before adoption of villages. The table showed that the information seeking behavior was increase after adoption of villages by KVK, Waghai. Majority of (69.00 %) of farmers had higher farming experience after adoption of villages while 67.00 per cent had the same category of farming experience before the adoption of villages. About 32.00 per cent farmers were having above 6 animals of before adoption while, 50.00 per cent of farmer had possessed above 6 animals after the adoption of villages. 23.00 per cent of farmers had high innovativeness in before adoption of villages while 44.00 per cent had the same category of innovativeness after adoption of villages. Very few 5.00 per cent of farmers had high family income (Above Rs 2,00,000) before adoption of villages while, 27.00 per cent of farmers had the same category after adoption of villages.

The data seen in the table that high level of scientific orientation (12.00 %) were observed in before adoption of villages while, the after adoption of villages, majority (75.00 %) farmers had cum in the high level of scientific orientation. In case of risk orientation, 7.00 per cent of the farmers observed high level of risk orientation in before adoption of villages while, the after adoption of villages, 51.00 per cent farmers had cum in the same categories. The majority (67.00 %) of the farmers cum under high self confidence before the adoption of villages while, 90.00 per cent farmers cum under same categories after adoption of villages by KVK, Waghai. 22.00 per cent of the farmers cum under high level of economic orientation before the adoption of villages while, 83.00 per cent farmers cum under same categories after adoption of villages by KVK, Waghai.

## 2. To know the impact of training in adopted villages of KVK-Dangs

KVK is an innovative science based institution which functions on the principal of collaborative participation of scientist, subject matter expert, extension workers and farmers. The main purpose of KVK is to impart learning through work experience to those who are engage in farming. Learning by doing is the main method of imparting skill training by KVK. Follow-up actions are also made through visit of the scientists, organizing ex-trainees meet discussing with the field functionaries etc. to assist the farmers in adoption of changes practice learned through training and other extension activities. With this hypothesis, another objective was framed in the study to analyze the extent of knowledge gained and used of technologies by the farmers after undergoing training and other extension activities at KVK. Knowledge and adoption of various practices crop production, horticulture, animal husbandry, plant protection, income generating capacity and home Science were selected as variable. Attempt has been made for comparative analyses of the extent of gained in the knowledge and adoption of new technology through KVK training and other extension programme. The result obtain has been presented in table below.

**Table 2.1 Comparative knowledge gained on farm activities** **n=100**

<b>Knowledge gained for training and extension activities</b>					
<b>Sr.No.</b>	<b>Activities</b>	<b>Mean Score</b>		<b>Increase %</b>	<b>Gap %</b>
		<b>Befor adoption</b>	<b>After adoption</b>		
1	Crop production	1.87	2.34	29.98	17.94
2	Horticulture	1.43	1.79	32.83	17.39
3	Animal husbandry	2.11	2.64	30.97	17.94
4	Plant protection	1.82	2.40	40.86	20.56
5	Income generating capacity	1.89	2.40	32.16	16.89
6	Home Science	1.87	2.54	41.92	23.27
<b>Average</b>		<b>1.83</b>	<b>2.35</b>	<b>34.78</b>	<b>18.99</b>

Comparative analyses of the data in the table 2.1 reveal that there was significant gain in knowledge on all the aspect of the farm activities covered under the study. Comparatively more knowledge was gained on crop production, horticulture crops, animal husbandry, plant protection, income generating capacity and home science activities. At the same time average gap percentage of 18.99 per cent indicated that the knowledge level was high, there was 34.78 per cent increase in knowledge as well as 18.99 per cent gap in knowledge level. Through KVK has made significant role impact on knowledge level of the respondent still more training and other extension programmes may be organized to abreast the respondents with knowledge and skills sufficiently for the improvement of the farming community.

Further KVKs have been designed to impart need based and skill oriented vocational training to various categories of farming communities. The main purpose is to influence to productivity to achieve the social justices for the neediest and deserving weaker section of the society. KVKs are also imparting training on the most important need of the client, their resources constants' and nature of eco system. It is therefore apprehended that significant improvements might have been made to the farmers after taking training from KVKs.

Attempt was therefore made in the study to assess the extent of development of the farmers at KVKs. Indicators such as technological, economical, social, farm activities and infrastructural were selected as the variable to assess the extent of developments. Data collected from the respondent only three point scale consisting of fully agree, partial agree, and disagree with the corresponding score of 3, 2 and 1 over the statements had been analyzed and discussed in this action. The result of the analysis has been presented in the table below.

**Table 2.2 Comparative analysis of various aspect of developments** **n=100**

<b>Knowledge gained for training and extension activities</b>					
<b>Sr.No</b>	<b>Activities</b>	<b>Mean Score</b>		<b>Increase %</b>	<b>Gap %</b>
		<b>Before adoption</b>	<b>After adoption</b>		
1.	Technological development	1.63	2.20	42.41	22.79
2.	Economical development	1.66	2.25	43.79	22.29

3.	Social development	1.80	2.49	48.29	23.57
4.	Farm activities development	1.76	2.44	46.19	24.06
5.	Infrastructural development	1.90	2.43	36.21	18.15
<b>Average</b>		<b>1.75</b>	<b>2.36</b>	<b>43.37</b>	<b>22.17</b>

Comparative analysis of the respondent mentioned in the table 2.2 indicate that the development under various aspect were almost at par. KVK has imparted training and other extension activities programme for technological development which is turn increase production, productivity, income and brings improvements on economic status of the farmers. The economic development have also regulated for development of farm activities. Various aspects of social improvements could bring the coordination and cooperation among people for better planning and management of farm activities on communities' basis.

Further attempt have also been made to locate the extent of development of the respondent after receiving training from KVK. These lection made with comparatively higher mean score value have been presented here with.

It is therefore suggested that KVK has to organize training and other extension activities programmes effectively to develop the knowledge and skill competency of the farmers for their improvement.

### 2.3 Extent of adoption

We had also calculated the adoption on the basis of mean and standard deviation. The farmers were categorized in three catenaries, 1) Low level of adoption, 2) Medium level of adoption and 3) High level of adoption on the basis of SD and mean.

**Table 2.3: Distribution of respondents according to their Extent of adoption of major technologies n=100**

Sr.No	Categories	Extent of adoption			
		Before adopted of villages		After adopted of villages	
		Frequency	%	Frequency	%
1.	Low level of adopted	20	20.00	12	12.00
2.	Medium level of adopted	67	<b>67.00</b>	71	<b>71.00</b>
3.	High level of adopted	13	<b>13.00</b>	17	<b>17.00</b>

In the table 2.3, the result showed that 13.00 per cent of the farmers at before adoption of villages that is increase to 17.00 per cent of after adoption of the villages. These showed that the adoption levels were increased during this three year period of adopted villages by KVK, Waghai.

**3.** Relationship between the selected characteristic of farmers of before adoption of villages and after adoption of villages with their knowledge and adoption of improved agricultural technologies

Attempt was also made to analyze influence of socio economic variables in increasing knowledge and adoption level of the respondent. Result of the analysis done to find pearson's coefficient of correlation has been presented in table below.

**Table 4:-Influence of Socio Economic variable on knowledge n=100**

Sr. No.	Variable	(r – Value) for Knowledge		(r – Value) for adoption	
		Before adoption of villages	After adoption of villages	Before adoption of villages	After adoption of villages
1	Age	-0.099	0.012	0.075	0.149
2	Education	0.089	0.186	0.112	0.152
3	Land holding	0.255**	0.350**	0.033	0.297**
4	Family size	0.022	0.045	0.022	0.014
5	Social participation	0.067	0.303**	0.134	0.333**
6	Extension participation	0.047	0.144	0.012	0.274**
7	Information seeking behavior	-0.080	0.332**	-0.138	0.362**
8	Farming experience	-0.129	0.002	0.065	0.125

9	Animal possession	0.001	0.201*	0.111	0.210*
10	Innovativeness	0.043	0.080	0.030	0.200*
11	Family Annual Income	0.008	0.117	0.065	0.118
12	Scientific orientation	-0.058	0.461**	-0.172	0.464**
13	Risk orientation	-0.005	0.313**	-0.121	0.312**
14	Self confidence	-0.069	0.006	-0.161	0.052
15	Economic orientation	-0.037	0.528**	0.211*	0.560**

\*. Correlation is significant at the 0.05 level (2-tailed).

\*\*. Correlation is significant at the 0.01 level (2-tailed).

At observed from the table land holding, social participation, extension participat, information seeking behavior, animal possession, scientific orientation, risk orientation and economic orientation observation had influenced significantly increase level of the respondent towards knowledge and adoption. It is therefore suggested that KVK may utilized the socio economic variables while organizing training programme and extension activities. While very less significant relationship was observed under farmers cum under before adoption of villages with their level of knowledge and adoption of improved agricultural technologies.

### Conclusion

Majority of the farmer were in middle age group, had secondary and higher secondary level of education, small and marginal land holding, medium family size, majority of the respondents were medium social participation, had medium extension participation, had income above Rs 2,00,000/-, had observed high level of scientific orientation, high level of risk orientation, high self confidence, high level of economic orientation. Comparatively more knowledge was gained on crop production, horticulture crops, animal husbandry, plant protection, income generating capacity and home science than before adoption of villages. At the same time average gap percentage of 18.99 % indicated that the knowledge level was high, there was 34.78 % increase in knowledge. KVK has imparted training programme and extension activities for technological development which is turn increase production, productivity, income and brings improvements on economic status of the farmers. The economic development have also regulated for development of farm activities. Various aspects of social improvements could bring the coordination and cooperation among people for better planning and management of farm activities on community's basis. The result showed that the adoption rate is increased during this three year. At observed from the research land holding, social participation, extension participat, information seeking behavior, animal possession, scientific orientation, risk orientation and economic orientation observation had influenced significantly increase level of the respondent towards knowledge and adoption. It is therefore suggested that KVK may utilized these socio economic variables while organizing training programme and extension activities. While very less significant relationship was observed under farmers of before adopted villages with their knowledge and adoption of improved agricultural technologies. Through KVK has made significant role impact on knowledge level and adoption of the respondent still more training programmes may be organized to abreast there spondents with knowledge and skills sufficiently for the improvement of the farming community. It is therefore apprehended that significant improvements might have been made to the farmers after taking training and extension activities from KVKs. It is therefore suggested that KVK has to organize training programmes and extension activities effectively to develop the knowledge and skill competency of the farmers for their improvement.

## 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	33	40002	NA
Feb 2021	22	35231	NA
March 2021	24	46735	NA
April 2021	33	39114	NA
May 2021	62	64374	NA
Jun 2021	62	42472	NA
Jul 2021	12	39376	NA
Aug 2021	19	31433	NA
Sept 2021	22	31366	NA
Oct 2021	11	6545	NA
Nov. 2021	11	6125	NA
Dec. 2021	11	6341	NA

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
	Text only	130	37	0	0	150	5	322
	Voice only	530	138	0	0	2175	0	2843
	Voice & Text both	-	-	-	-	-	-	-
	<b>Total Messages</b>	<b>660</b>	<b>175</b>	<b>0</b>	<b>0</b>	<b>2325</b>	<b>5</b>	<b>3165</b>
	<b>Total farmers Benefitted</b>	<b>195469</b>	<b>77051</b>	<b>0</b>	<b>0</b>	<b>100259</b>	<b>19178</b>	<b>391957</b>

## 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	
-	-	-	-	-	-	-	-	-	-

### 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	
Paddy	30-06-2021	25-11-2021	1.50	GR 7	Certified seed	43.40	50000	-	-
			0.60	GR 18	Truthful seed	17.90	25000	-	-
			0.20	GR 17	Truthful seed	5	5000	-	-
Green gram	25-02-21	20-04-21	0.08	GM 6	Foundation seed	10.15	26000	112000	-
Gram	20-11-2020	14-04-2021	1.4	GG 5	Certified seed	14.50	60000	189600	-

Mango	-	-	0.9	-	-	-	10000	35000	Auction Selling
seedlings	15-05-2021	07-06-2021	-	-	Seedling	5020	5000	42200	-

**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	
-	-	-	-	-	-	-

**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)
-	-	-	Hostel facilities provided to Agriculture college, NAU, Waghai for students hostel purpose. Farmer hostel is also used by hill millet research station, NAU, Waghai, Dang.

**F. Database management**

S. No	Database target	Database created
-	-	-

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

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

## H. Performance of Nutritional Garden at KVK farm

If Nutritional Garden developed at KVK farm/Village Level? Yes/No

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
0.001	Vegetable crops	5020	1249
	Fruit crops	-	-
	Others if any	-	-

### 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
	Vegetable crops	NIL	
	Fruit crops		
	Others if any		

## 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
-	-	-	-	-	-	-	-	-	-

## 16. FINANCIAL PERFORMANCE

### A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	-	-	-	-	-	-	-
With KVK	State Bank of India	Waghai, Dangs	SBIN0014992	Programme coordinator, NAU, Waghai	10692111061	394002508	SBIN0014992

**B. Utilization of KVK funds during the year 2021-22 (Rs. in lakh) (Till Dec, 2021)**

Sr. No.	Particulars	Sanctioned	Expenditure
<b>1.1</b>	<b>Recurring Contingencies</b>		
I	Pay & Allowances	91.25	79,67,695
II	Traveling allowances		36,353
III	<b>Contingencies</b>		
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	18.00	11,01,821
B	POL, repair of vehicles, tractor and equipments		
C	Meals/refreshment for trainees		
D	Training material		
E	Frontline demonstration except oilseeds and pulses		
F	On farm testing		
G	Training of extension functionaries		
H	Maintenance of buildings		
I	Establishment of Soil, Plant & Water Testing Laboratory		
J	Library		
	<b>Total Recurring</b>	<b>109.25</b>	<b>91,05,869</b>
<b>1.2</b>	<b>Non-Recurring Contingencies</b>		
I	<b>Works</b>	-	-
II	<b>Equipments including SWTL &amp; Furniture</b>	-	-
III	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify),	-	-
IV	<b>Library</b>	-	-
	<b>Total Non Recurring</b>	-	-
<b>1.3</b>	<b>TSP(Farm Development)</b>	-	-
<b>1.4</b>	<b>GRAND TOTAL (1.1+1.2+1.3)</b>	<b>109.25</b>	<b>91,05,869</b>



**C. Status of revolving fund (Rs. in lakh) for the Four years**

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of next year
2018-19	71,65,449.00	5,63,723.00	7,12,719.00	71,68,778.00
2019-20	71,68,778.00	6,93,043.00	5,64,369.00	-
2020-21	71,68,778.00	8,62,872.00	67,72,066.00	72,59,609.00
2021-22	69,82,397.00	2,26,158.00	8,97,689.00	63,10,866.00

**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
All staff	Senior Scientist & Head, Scientist	Interface meeting with KVK dediyapada	KVK, Dedyapada	Meeting	12-01-2021
Dr. J. B. Dobariya & Dr. G. G. Chauhan	Senior Scientist & Head, Scientist	KVK-ATMA conversation meeting	ATIK, NAU, Navsari	Meeting	13-01-2021
Dr. G. G. Chauhan	Senior Scientist & Head	AGB meeting	Ahwa, Dangs	Meeting	11-01-2021
Dr. G. G. Chauhan	Senior Scientist & Head	Conversation meeting with ATMA & other agency	Navsari	Meeting	13-01-2021
Dr. G. G. Chauhan	Senior Scientist & Head	Training with farmers - Sevadharm Ahwa	Ahwa, Dangs	Training	25-01-2021
Mr. H. A. Prajapati, Mr. B. M. Vahunia, Dr. P. P. Javiya, Dr. S. A. Patel	Scientist	Training- Zonal officer	Auditorium, COA, waghai	Election meeting	06-02-2021
Mr. H. A. Prajapati, Mr. B. M. Vahunia, Dr. P. P. Javiya, Dr. S. A. Patel	Scientist	Meeting - Zonal Officer	mamlatdar office, waghai	Election meeting	11-02-2021
Mr. H. A. Prajapati, Mr. B. M. Vahunia, Dr. P. P. Javiya, Dr. S. A. Patel	Scientist	Training- Zonal officer	Auditorium, COA, waghai	Election meeting	21-02-2021
Mr. H. A. Prajapati, Mr. B. M. Vahunia, Dr. P. P. Javiya, Dr. S. A. Patel	Scientist	Election vote counting meeting	mamlatdar office, waghai	Election vote counting meeting	23-02-2021
Mr. B. M. Vahunia	Scientist	17th PPSC Meeting	Online	Agresco	18,19-02-2021
Mr. B. M. Vahunia	Scientist	17th PPSC Meeting	Online	Agresco	24-02-2021
Dr. S. A. Patel	Scientist	AGRESKO- Animal production	N.A.U	Online meeting	11-02-2021
Dr. S. A. Patel	Scientist	AGRESKO- Animal Health	N.A.U	Online meeting	23-02-2021
Dr. J. B. Dobariya	Scientist	Meeting of 17th AGRESKO of social science group	Vartual mode	Meeting	22-02-2021
All staff	Senior Scientist & Head, Scientist	State Level Annual Action Plan Workshop of KVKs of Gujarat	Vartual mode	Workshop	18-02-2021

Mr. H. A. Prajapati, Mr. B. M. Vahunia, Dr. P. P. Javiya, Dr. S. A. Patel	Scientist	Election vote counting	Mamlatdar office Waghai	Meeting	01-03-2021
Dr. P. P. Javiya	Scientist	Leadership development and team building skill for extension functionaries	Online	Workshop	03,04-03-2021
Dr. P. P. Javiya	Scientist	NRM AGRESO subcommittee	Online	Meeting	5,6-03-2021
Mr. B. M. Vahunia	Scientist	Leadership development and team building skill for extension functionaries	Online	Workshop	03,04-03-2021
Dr. S. A. Patel	Scientist	AGRESO- Animal production	N.A.U	Online meeting	09-03-2021
Dr. S. A. Patel	Scientist	Leadership development and team building skill for extension functionaries	Online	Workshop	03,04-03-2021
Mr. H. A. Prajapati	Scientist	Horticulture & Forestry AGRESO subcommittee	Vivekanand hall, Navsari	meeting	3,4,5-03-2021
Mr. H. A. Prajapati	Scientist	NRM AGRESO subcommittee	Online mode	meeting	5,6-03-2021
Mr. H. A. Prajapati	Scientist	Leadership development and team building skill for extension functionaries	Online	Workshop	03,04-03-2021
Dr. J. B. Dobariya	Scientist	KVK meeting for selection of operational village	KVK, Waghai	Meeting	25-03-2021
Dr. P. P. Javiya	Scientist	Dharti mari mata	Online	webinar	23-04-2021
Mr. H. A. Prajapati	Scientist	Dharti mari mata	Online	webinar	23-04-2021
Mr. H. A. Prajapati	Scientist	Gopalan thaki Bhumisuposhan	Online	Webinar	30-04-2021
Mr. H. A. Prajapati	Scientist	Basics of IPR management	Online	Webinar	30-04-2021
All staff	Senior Scientist & Head, Scientist	KVK review meeting	KVK, Waghai	meeting	07-04-2021
Mr. B. M. Vahunia	Scientist	Dharti mari mata	Online	webinar	23-04-2021
All staff	Senior Scientist & Head, Scientist	Orientation training programme for Newly Recruited Subject matter Specialists of KVKs	Online (Organized by ATARI, Pune and AAU, Anand)	Training (Online)	-
All staff	Senior Scientist & Head, Scientist	KVK review meeting	KVK, Waghai	Meeting	10-05-2021
Mr. H. A. Prajapati, Mr. B. M. Vahunia, Dr. P. P. Javiya, Dr. G. G. Chauhan	Senior Scientist & Head, Scientist	Value addition in mango	Online (Organized by PHT, NAU, Navsari)	Webinar	11-05-2021
Dr. P. P. Javiya	Scientist	FPO and Scientific cultivation of bamboo	Online (Organized by KVK, NAU, Navsari)	Workshops	15-05-2021

Dr. P. P. Javiya	Scientist	Aquatic weed: problems and their management for improving water productivity	Online (Organized by ISWS and DWR, MP)	Webinar	29-05-2021
Mr. H. A. Prajapati	Scientist	Impact of CIVID 19 on aspect of Organic farming, Soil Health and Food security organized by JUST Agriculture & UIAS, Chandigadh university	Online	Webinar	01-05-2021
Mr. H. A. Prajapati	Scientist	Azadi ka Amrit mahotsav	Online	Workshop	14-05-2021
All staff	Senior Scientist & Head, Scientist	Online workshop programme with collaboration of Forest department, Vansda under Azadi ka amrut mahotsav	Online	Workshop	13-05-2021
All staff	Senior Scientist & Head, Scientist	Digital marketing	Online platform	Training	26-05-2021
Dr. P. P. Javiya	Scientist	Farm Review of five KVK's of NAU	online	Meeting	29-06-2021
All staff	Senior Scientist & Head, Scientist	KVK review meeting	KVK waghai	Meeting	21-06-21 to 24-06-21
Mr. H. A. Prajapati	Scientist	Combined AGRESCO Horticulture	Online	Meeting	30-06-2021
All staff	Senior Scientist & Head, Scientist	Benifesimal famr tools for Dangs distrtrict	Suruchi, Bardoli	Meeting	08-07-2021
All staff	Senior Scientist & Head, Scientist	Marketing of organic products of Dangs	KVK Waghai	Meeting	16-07-2021
All staff	Senior Scientist & Head, Scientist	Meeting after the soil survey done by ICAR-NBSS & LUP)	KVK,waghai	Meeting	26-07-2021
Mr. H. A. Prajapati	Scientist	international conference on "Innovative and current Advances in Agriculture & Allied Sciences"	Online	International Conference	19-07-2021 to 21-07-2021
Dr. J. B. Dobariya & Dr. G. G. Chauhan	Senior Scientist & Head, Scientist	Prakrutik kheti and not use of synthetic chemical	Collector office, Ahwa, Dangs	Meeting	03-07-2021
All staff	Senior Scientist & Head, Scientist	Annual zonal workshop of KVKs of Maharastra, Gujarat & Goa	Online	Workshop	04 to 06-08-2021
Dr. P. P. Javiya	Scientist	Orientation programme under GKMS for the nodal officer	Online	Training	26-08-2021
All staff	Senior Scientist & Head, Scientist	Meeting on DFI success story	Online mode	Meeting	11-08-2021
All staff	Senior Scientist & Head, Scientist	Farmers meet programme	Online mode	meeting	24-08-2021
Mr. B. M. Vahunia	Scientist	Mushroom training	Online	Training	09,10 & 11
All staff	Senior Scientist & Head, Scientist	KVK review meeting	KVK Waghai	Meeting	13-09-2021
Dr. P. P. Javiya	Scientist	Capacity building workshop	Poicha, Vadodara	Workshop	23,24,25-09-2021
Mr. B. M. Vahunia	Scientist	Capacity building workshop	Poicha, Vadodara	Workshop	23,24,25-09-2021
Dr. S. A. Patel	Scientist	Capacity building workshop	Poicha, Vadodara	Workshop	23,24,25-09-2021

Dr. J. B. Dobariya	Scientist	Capacity building workshop	Poicha, Vadodara	Workshop	23,24,25-09-2021
Dr. P. P. Javiya	Scientist	Prakrutik krushini talim ane nirdarshn nu ayojan karva babat	Online	Meeting	08-10-2021
Dr. P. P. Javiya	Scientist	Review meeting	KVK, Waghai	Meeting	27-10-2021
Mr. H. A. Prajapati	Scientist	Recent Extension Approaches for Effective Transfer of Technologies” jointly organized by DEE, NAU, Navsari and EEI, AAU, Anand	ATIC, Navsari	Training	20-10-2021 to 22-10-2021
All staff	Senior Scientist & Head, Scientist	Review meeting	KVK,waghai	meeting	27-10-2021
Mr. B. M. Vahunia	Scientist	Recent extention approaches for effective transfer of technology	ATIC, NAU, Navsari	Training	20,21 & 22-10-2021
		Gujarat ma sendriy kheti ni safar	ASPEE,NAU, Navsari	Jagruti karykram	04-10-2021
Dr. S. A. Patel	Scientist	Recent Extension Approaches for effective transfer technologies	NAU, Navsari	Training	20-22/10/2021
Dr. J. B. Dobariya	Scientist	Prakrutik krushini talim ane nirdarshn nu ayojan karva babat	Online	Meeting	08-10-2021
Dr. J. B. Dobariya	Scientist	Natural farming meeting	Raj bhavan, Gandhinagar	Meeting	18-10-2021
Dr. J. B. Dobariya	Scientist	Recent extension approachise for effective transfer of technology	ATIC, NAU, Navsari	Training	20 to 22-10-2021
Dr. J. B. Dobariya	Scientist	Review meeting	KVK, Waghai	Meeting	27-10-2021
All staff	Senior Scientist & Head, Scientist	KVK Review meeting	Waghai	Meeting	19-11-2021
Mr. B. M. Vahunia	Scientist	Celebration of National Milk day at ICAR-NDRI, Karnal	Online	Meeting	26-11-2021
Dr. J. B. Dobariya	Scientist	KVK revie meeting	KVK, NAU, Waghai	Meeting	19-11-2021
Dr. J. B. Dobariya	Scientist	ATMA conversation meeting	ATIC, NAU, Navsari	Meeting	23-11-2021
Dr. J. B. Dobariya	Scientist	Pre seasonal workshop	ATIC, NAU, Navsari	Workshop	17-11-2021
Dr. J. B. Dobariya	Scientist	Loanching program about Apdu Dangs Prakritik Dangs	Police pared ground, Ahwa	Farmer Fair	19-11-2021
All staff	Senior Scientist & Head, Scientist	KVK Review meeting	Waghai	Meeting	09-12-2021
Dr. P. P. Javiya	Scientist	Workshop on Subhash Palekar Natural Farming	Dandi, Navsari	Workshop	25 to 27-12-2021
Mr. H. A. Prajapati	Scientist	Natural farming	Adalaj, ahmedabad	Workshop	26-11-2021 to 02-12-2021
Mr. B. M. Vahunia	Scientist	Maintenance of quality and safety of horticultural and food crops through biological control of pests and diseases	NAU, Navsari	Seminar	30-12-2021
Dr. J. B. Dobariya	Scientist	KVK, Review meeting	KVK, Waghai	Meeting	09-12-2021

### 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)
Dokpatal	150	Training, Film show, Farmers meeting, Field visit	55	30,000/-	45,000/-
Borpada	145		55	28,000/-	35,000/-

### 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
1	PKVY	2		46	50

### 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- Swachhta Pakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
1	Swachhta Pakhwada	01	13
2	Swachhta Pakhwada	01	26
3	Swachhta Pakhwada	01	42
4	Swachhta Pakhwada	01	61
5	Swachhta Pakhwada	01	33
6	Swachhta Pakhwada	01	10
7	Special swachhta campaign	01	134
8	Special swachhta campaign	01	142
9	(1) Display of banner at prominent places. (2) Taking Swachhata (3) Pledge.Pre-Vibrant Gujarat Summit 2021	01	52
10	(1) Stock taking on digitization of office (2) Cleanliness drive including cleaning of office, Corridors and premises (3) Old Records, disposing of old and obsolete furniture's junk materials and washing.	01	19
11	(1) Mera Gauv Mera Gaurav	01	51
12	(1)Cleanliness and sanitation drive within campuses (2)biodegradable and non-biodegradable waste disposal	01	28

13	(1) waste management & other activities (2) Composting of kitchen and home waste materials	01	13
14	(1) Campaign on cleaning of sewerage & water lines	01	8
15	(1) conversion of waste to wealth (2) Rallies (3) expert talks	01	18
16	(1) Kisan Diwas (Farmer's Day)-	01	40
17	(1) Swachhta Awareness at local level (Door to door visit) (2) Farmer Meeting (3) Establishments (Pledge)	01	21
18	(1) Places and nearby tourist	01	13
19	(1) Quiz, Assay & Drawing competitions	01	12
20	(1) Single Use plastic (SUP)	01	9
21	(1) Water harvesting for agriculture/ horticulture application	01	11
22	(1) Disposal sites/ compost pits, (2) Bio-Degradable/non-bio-degradable wastes	01	18
23	(1) Publicity to the SwachhtaPakhwada.	01	14
24	(1) Organization of press conference for highlighting the activities of Swachh Bharat Pakhwada	01	11

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

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## 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	57	1034	554	1588
Rural youths	-	--	--	--
Extension functionaries	05	134	26	160
Sponsored Training	60	1031	1374	2405
Vocational Training	07	55	135	190
<b>Total</b>	<b>129</b>	<b>2254</b>	<b>2089</b>	<b>4343</b>

### 2. Frontline demonstrations

Crops/Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	-	-	-
Pulses	240	53	-
Cereals	25	5	-
Vegetables	-	-	-
Other crops	123	17.16	-
Hybrid crops	-	-	-
<b>Total</b>	<b>388</b>	<b>75.16</b>	<b>-</b>
Livestock & Fisheries	160	-	160
Other enterprises	160	-	160
<b>Total</b>	<b>320</b>	<b>-</b>	<b>320</b>
<b>Grand Total</b>	<b>708</b>	<b>75.16</b>	<b>320</b>

### 3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
<b>Technology Assessed</b>			
Crops	8	52	52
Livestock	2	20	60
Various enterprises	-	-	-
<b>Total</b>	<b>10</b>	<b>72</b>	<b>112</b>
<b>Grand Total</b>	<b>10</b>	<b>72</b>	<b>112</b>

### 4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	794	24534
Other extension activities	22	38615
<b>Total</b>	<b>816</b>	<b>63149</b>

## 5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
	Text only	130	37	0	0	150	5	322
	Voice only	530	138	0	0	2175	0	2843
	Voice & Text both	-	-	-	-	-	-	-
	<b>Total Messages</b>	<b>660</b>	<b>175</b>	<b>0</b>	<b>0</b>	<b>2325</b>	<b>5</b>	<b>3165</b>
	<b>Total farmers Benefitted</b>	<b>195469</b>	<b>77051</b>	<b>0</b>	<b>0</b>	<b>100259</b>	<b>19178</b>	<b>391957</b>

## 6. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)	90.95	230550
Planting material (No.)	5020	42200
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

## 7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
Soil	107	1050
Water	03	100
Plant	74	-
<b>Total</b>	<b>184</b>	<b>1150</b>

## 8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	30
2	Conferences	04
3	Meetings	34
4	Trainings for KVK officials	09
5	Visits of KVK officials	-
6	Book published	-
7	Training Manual	-
8	Book chapters	01
9	Research papers	03
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	14
13	Proceedings	-
14	Award & recognition	-
15	On-going research projects	-